GDS Associates, Inc.
ENGINEERS & CONSULTANTS

2026 DSM MARKET POTENTIAL STUDY

AMEREN MISSOURI

April 6, 2026

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01 EXECUTIVE SUMMARY

1.1 BACKGROUND & STUDY SCOPE

As part of their larger 2026 Integrated Resource Plan (IRP), Ameren Missouri commissioned GDS Associates ("GDS") and Brightline Group, collectively "the GDS Team", to assess energy and peak demand savings potential to help inform future planning efforts.[1] This project included several areas of analysis, which are collectively referred to as the 2026 DSM Market Potential Study, or 2026 study.

The GDS Team developed four distinct areas of analysis:

- Energy and demand savings from residential and business sector energy efficiency potential
- Demand response (DR) peak load reduction potential
- Distributed Energy Resource (DER) potential[2]
- Sensitivity and Scenario analyses

This report describes the methodology and results of these four areas of analysis. The 2026 study also included additional tasks including historical performance variance analysis, and potential benchmarking. The former aided with the development of the various potential estimates, and the latter helps frame the results of this 2026 study with studies recently completed in other electric utility service territories.

Each area of analysis sought to identify and assess a wide-range of demand-side resources across all major customer classes, market segments, and end-uses.[3] Although each of area of analysis is largely autonomous, for ease of reporting the four areas of analyses, as well as a review of the primary market research, these studies were ultimately combined into the single report presented here.

1.2 TYPES OF POTENTIAL ANALYZED

This potential study provides a roadmap for both policy makers and Ameren Missouri as they develop strategies and programs for energy efficiency (EE), demand response (DR), and distributed energy resources (DERs) in the Ameren Missouri service area. In addition to technical and economic potential estimates, the development of achievable and program potential estimates for a range of feasible measures is useful for program planning and modification purposes. Unlike achievable and program potential estimates, technical and economic potential estimates do not include customer acceptance considerations for measures, which are often among the most important factors when estimating the likely customer response to new programs. For this study, the GDS Team produced the following estimates of demand side management potential:

- Technical potential
- Economic potential
- Achievable potential
    - Maximum achievable potential
    - Realistically achievable potential – three scenarios[4]
- Program potential
    - Maximum achievable potential

[1] Future large load additions are not included in the estimates of energy efficiency or demand response potential. Future large loads are considered in the larger IRP context.
[2] Battery storage was considered in both the DR and DER analyses. Battery storage was found to be not cost-effective for DR but has a technical potential of 6.6 MW in the final year of the study.
[3] 20 CSR 4240-20.050 (1)(A)1 through 3; 20 CSR 4240-20.050 (3)(B)
[4] Realistic Achievable Potential ("RAP"), Less than RAP +25% ("LRAP +25%"), and Less than RAP ("LRAP"). The two Less than RAP scenarios are defined in Section 4.1.7 of the report.

- Realistically achievable potential – three scenarios

For each level of potential, this detailed report presents the energy savings, peak demand savings[5], benefits, and costs for the Ameren Missouri service area for the period of 2027-2046, a 20-year time frame.[6]

1.3 APPROACH SUMMARY

The purpose of this market potential study is to provide a foundation for the continuation of utility-administered energy efficiency and demand response programs in the Ameren Missouri service area, to determine the remaining opportunities for cost-effective energy savings, demand savings, and distributed energy resources for the Ameren Missouri service area. This study has examined a full array of technologies, programs, and energy efficient building practices that are technically achievable.

The GDS Team used a bottom-up approach to estimate energy efficiency potential in the residential sector. Bottom-up approaches begin with characterizing the eligible equipment stock, estimating savings and screening for cost-effectiveness first at the measure level, then summing savings at the end-use and service area levels. In the business sector (commercial and industrial), the GDS team utilized a bottom-up modeling approach to first estimate measure-level savings and costs as well as cost-effectiveness, and then applied cost-effective measure savings to all applicable shares of electric energy load. Bottom-up approaches were also used in the demand response and DER analyses for all sectors. Chapters 4 through 6 include a wide-ranging discussion of numerous methodological considerations utilized in the respective energy efficiency, demand response, and distributed energy resource analyses.

1.4 STUDY LIMITATIONS AND CAVEATS

As with any assessment of potential, this study necessarily builds on various assumptions and data sources, including the following:

- Energy efficiency measure lives, savings, and costs (total measure costs, incremental costs, and incentive costs)
- Projected penetration rates for energy efficiency measures
- Projections of seasonal avoided costs[7]
- Future known changes to codes and standards
- End-use saturations and fuel shares

While the GDS Team has sought to use the best and most current available data (including the use of new primary market research in key market subsegments of interest based on stakeholder feedback) there are often reasonable alternative assumptions which would yield slightly different results. For instance, the analysis assumes that many existing measures, regardless of their current efficiency levels, can be eligible for future installation and savings opportunities. Other studies may select a narrower viewpoint, limiting the amount of potential from equipment that is already considered to be energy efficient. Additionally, the models used in this analysis must make several assumptions regarding program delivery and the timing of equipment replacement that may ultimately occur more rapidly (or more slowly) than currently forecasted.

Furthermore, while the lists of energy efficiency measures examined in this study analysis represent technologies available on the market today and characterized in the Ameren Missouri submittal tool[8], as well as a limited amount of emerging technologies not characterized or currently offered by Ameren, these measure lists may not be exhaustive. The

[5] The report regularly provides Summer MW impacts. Peak impacts across the Spring, Fall, and Winter seasons were provided to Ameren Missouri separately, and seasonal avoided costs were used for screening cost-effectiveness.
[6] 20 CSR 4240-20.050 (3)(G)
[7] Seasonal avoided capacity costs were obtained from Ameren Missouri and represent their most recent forecast of avoided electric benefits. Incorporating seasonal avoided capacity costs is an ongoing process in Ameren Missouri's evaluation of program cost-effectiveness.
[8] MEEIA 4 2025-2027 Ameren Missouri Submittal Tool

GDS Team acknowledges that new efficient technologies may become available over the course of the 20-year study timeframe that could produce efficiency gains and costs at different levels than those currently assumed.

To address some of these limitations, sensitivities to address uncertainties surrounding customer participation and cost-effectiveness are also included in the energy efficiency, demand response, and DER analyses. The study also attempts to benchmark the potential results against other studies, both regionally and nationally. This holistic approach creates a robust data set from which to draw meaningful conclusions.

The 2026 study focuses on energy efficiency measures where electric energy and peak demand savings are the primary benefit. However, select measures may provide additional secondary benefits (i.e. opportunities to improve the building shell in homes/businesses with fossil fuel heating and electric cooling, or low-flow water devices) that could be quantified by other utilities.[9] Where applicable, this combination of primary and secondary benefits may afford Ameren Missouri opportunities for joint utility coordination. Although notable challenges to joint delivery exist, including concerns over cross-fuel competition, added complexity to the regulatory process, and program imbalances, co-delivery of efficiency programs may be able to provide additional savings opportunities and/or reduced costs for specific measures and/or programs.[10]

Last, where possible, the GDS Team and Ameren Missouri collaborated to ensure consistency with assumptions and methodological considerations that are expected to be employed during the program planning process. However, final program designs and implementation strategies may need additional flexibility to target specific or underserved markets, address equity concerns, or react to changing customer preferences.[11]

1.5 POTENTIAL SAVINGS OVERVIEW

The following several sub-sections provide an overview of the energy and peak demand savings from the efficiency potential for residential and business customers, peak demand reduction potential from demand response programs, and distributed energy resource potential. Chapters 4 through 6 of this report provide additional summary data and methodological considerations and descriptions.

1.5.1 Energy Efficiency Potential for Residential Customers

Figure 1-1 provides the technical, economic, and achievable potential results for the 3-year, 10-year, and 20-year timeframes. The respective 20-yr technical and economic potential is 34% and 31% of residential sector sales. The MAP grows to 16% over twenty years, while the RAP reaches 11%. The LRAP +25% and LRAP scenarios reach 7% and 5%, respectively, over the study timeframe. The gap between economic potential and MAP/RAP represents market barriers to prospective program participants, both financial and non-financial, to achieving the full amount of economic potential.

[9] 20 CSR 4240-20.050 (2)(F)
[10] Successful Practices in Combined Gas and Electric Utility Energy Efficiency Programs. ACEEE. Report U1406. August 2014.
[11] All business customers that have opted out of participating in Ameren Missouri's MEEIA programs, and the associated sales from these customers were removed from the business sector sales forecast and thus, from the base estimates of future efficiency potential. This impacts the energy efficiency potential from business customers. See Section 3.2.4 for more information.

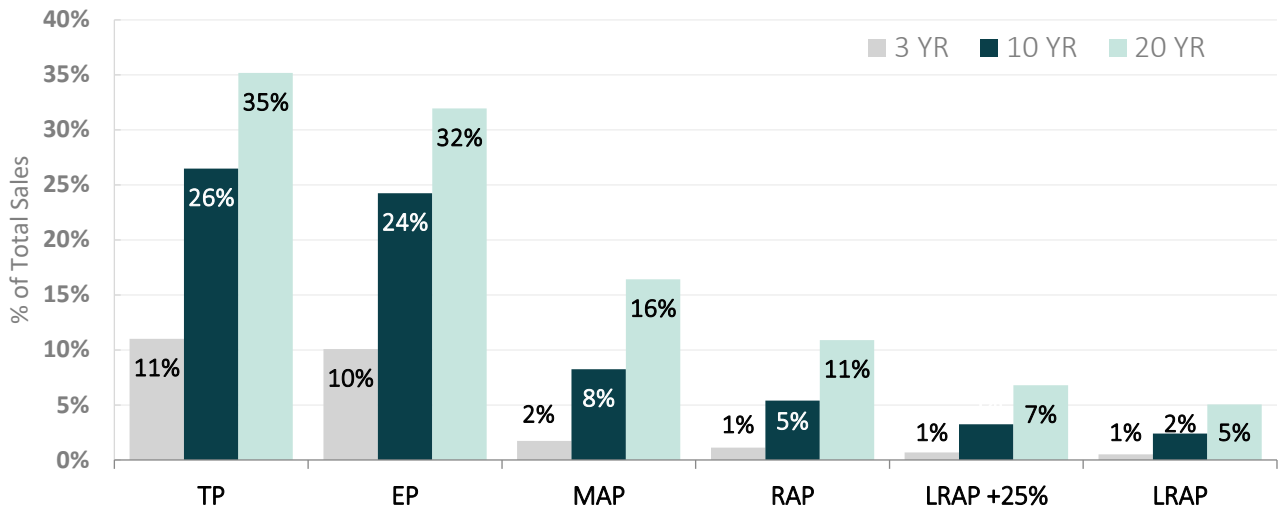


FIGURE 1-1: RESIDENTIAL ELECTRIC ENERGY CUMULATIVE POTENTIAL (AS A % OF RESIDENTIAL SALES)[12]

Table 1-1 provides cumulative technical, economic, and achievable energy savings, in total MWh and as a percentage of the sector-level sales forecast. The MW demand savings for each level of potential are also provided. By 2029, the RAP is 65 MW in demand savings and 1.1% of sector sales with more than 145,000 MWh in estimated energy savings. By 2036, the estimated cumulative savings in the RAP scenario reaches 313 MW in demand savings and 5.4% of sector sales at more than 762,000 MWh.

TABLE 1-1: RESIDENTIAL CUMULATIVE ENERGY EFFICIENCY POTENTIAL SUMMARY

	2027	2028	2029	2036	2046
MW					
Technical	187	362	496	1,230	1,780
Economic	168	325	442	1,092	1,576
MAP	25	54	88	421	829
RAP	18	40	65	313	609
LRAP +25%	11	24	38	192	370
LRAP	8	18	29	143	267
MWh					
Technical	553,060	1,029,144	1,428,541	3,738,436	5,331,299
Economic	509,165	945,027	1,305,834	3,422,960	4,842,035
MAP	62,780	138,931	226,184	1,165,754	2,489,113
RAP	41,194	89,935	146,150	762,847	1,653,190
LRAP +25%	24,655	53,725	87,385	459,715	1,028,907
LRAP	18,739	40,745	66,238	340,721	767,009
Forecasted Sales	12,753,115	12,851,084	12,960,721	14,110,413	15,158,918

[12] For energy efficiency, cumulative refers to cumulative annual savings are those in a given year which are from measures installed in that year as well as those installed in previous years. Savings from measures installed in a previous year will persist for the entirety of the useful life of the measure installed, and therefore account for measure decay. Incremental annual savings are only those associated with measures installed in a given year. See Section 1.5.3 for description of how "cumulative" is used for demand response measures.

	2027	2028	2029	2036	2046
Energy Savings (as % of Forecast)					
Technical	4.3%	8.0%	11.0%	26.5%	35.2%
Economic	4.0%	7.4%	10.1%	24.3%	31.9%
MAP	0.5%	1.1%	1.7%	8.3%	16.4%
RAP	0.3%	0.7%	1.1%	5.4%	10.9%
LRAP +25%	0.2%	0.4%	0.7%	3.3%	6.8%
LRAP	0.1%	0.3%	0.5%	2.4%	5.1%

1.5.2 Energy Efficiency Potential for Business Customers

Figure 1-2 provides the technical, economic, and achievable potential results for the 3-year, 10-year, and 20-year timeframes. The respective 20-yr technical and economic potential is 33% and 30% of commercial sector sales. The MAP grows to 18% over twenty years, while the RAP reaches 10%. The LRAP +25% and LRAP scenarios reach 4% and 3%, respectively, over the study timeframe. The gap between economic potential and MAP/RAP represents market barriers to prospective program participants, both financial and non-financial, to achieving the full amount of economic potential.

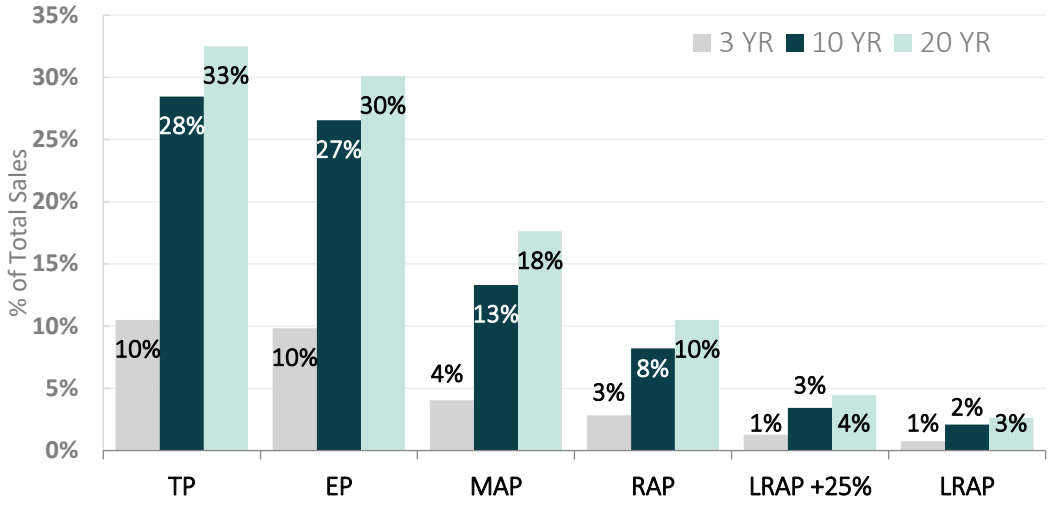


FIGURE 1-2: BUSINESS ELECTRIC ENERGY CUMULATIVE POTENTIAL (AS A % OF COMMERCIAL SALES)

Table 1-2 provides cumulative technical, economic, and achievable energy savings, in total MWh and as a percentage of the sector-level sales forecast. The MW demand savings for each level of potential are also provided. By 2029, the RAP is 118 MW in demand savings and 2.8% of sector sales with more than 377,000 MWh in estimated energy savings. By 2036, the estimated cumulative savings in the RAP scenario reaches 370 MW in demand savings and 8.2% of sector sales at more than 1,100,000 MWh.

TABLE 1-2: BUSINESS CUMULATIVE ENERGY EFFICIENCY POTENTIAL SUMMARY

	2027	2028	2029	2036	2046
MW					
Technical	142	295	443	1,273	1,555
Economic	126	264	397	1,148	1,421
MAP	51	107	163	595	848

	2027	2028	2029	2036	2046
RAP	37	78	118	370	507
LRAP +25%	22	45	68	180	240
LRAP	10	21	31	83	100
MWh					
Technical	454,496	929,905	1,394,666	3,894,247	4,663,208
Economic	424,527	870,264	1,305,205	3,632,048	4,316,990
MAP	170,135	352,615	537,587	1,821,955	2,527,303
RAP	121,247	250,597	377,547	1,124,999	1,504,897
LRAP +25%	54,056	111,511	168,360	468,921	641,181
LRAP	31,659	65,149	99,586	287,658	377,499
Forecasted Sales	13,109,145	13,235,227	13,289,580	13,683,138	14,346,598
Energy Savings (as % of Forecast)					
Technical	3.5%	7.0%	10.5%	28.5%	32.5%
Economic	3.2%	6.6%	9.8%	26.5%	30.1%
MAP	1.3%	2.7%	4.0%	13.3%	17.6%
RAP	0.9%	1.9%	2.8%	8.2%	10.5%
LRAP +25%	0.4%	0.8%	1.3%	3.4%	4.5%
LRAP	0.2%	0.5%	0.7%	2.1%	2.6%

1.5.3 Demand Response Potential for All Customers

Figure 1-3 provides the technical, economic, MAP, and RAP demand response potential for the final year of the study. The technical potential is 28% of the total demand forecast, economic is 13% of the demand forecast, MAP is 6% of the total demand forecast, and RAP is 5% of the demand forecast.

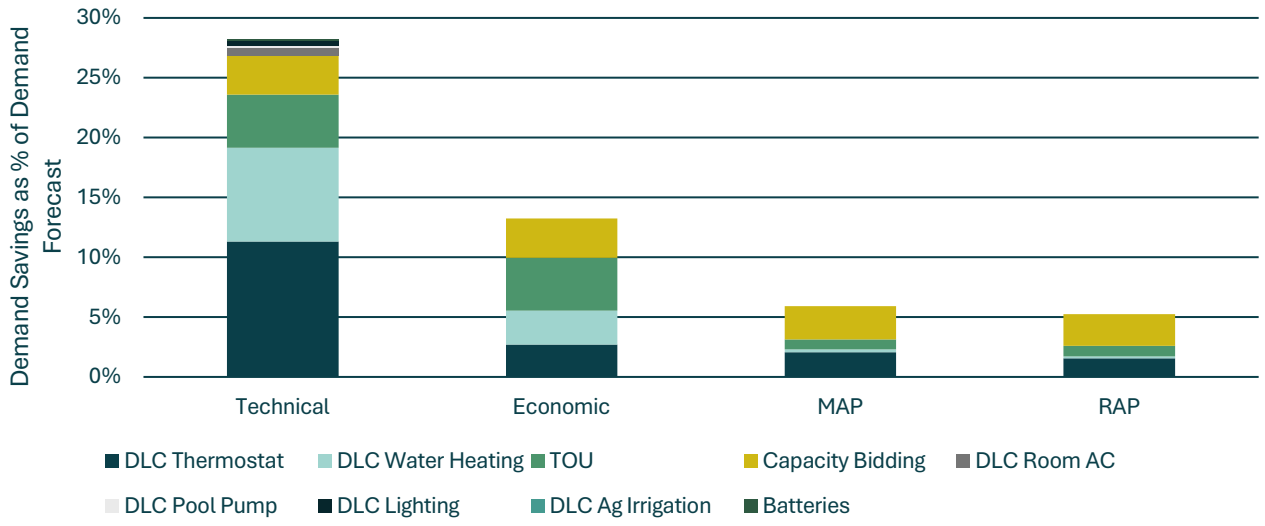


FIGURE 1-3: CUMULATIVE DEMAND POTENTIAL[13] (AS A % OF DEMAND FORECAST)

[13] For demand response, cumulative savings in a given year are from DR participants who joined the program in that year as well as those participants from previous years. Participants from previous years are assumed to stay in the program (as long as the utility continues to run the program) for the duration of the useful life of the control equipment. Incremental annual savings are only those associated with participants who joined the program in a given year.

Table 1-3 shows the cumulative RAP savings for the summer season across the first six years of the study timeframe (2027-2032). These values are at the customer meter. The RAP considers barriers to program implementation that could limit the amount of savings achieved. The DLC Thermostat program options provide the most potential in the residential and Capacity Bidding provides the most potential in the C&I sector. Overall, the RAP ranges from 250 MW to 336 MW over the next six years.

TABLE 1-3 RAP SUMMER SAVINGS BY PROGRAM AND SECTOR (AT METER)

Sector	Program	2027	2028	2029	2030	2031	2032
Residential	DLC Thermostat	47.6	51.0	54.5	57.8	61.2	64.4
	DLC Water Heater Switch	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Water Heater Grid-Enabled	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Room AC	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Swimming Pool Pump	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Electric Vehicles	0.1	0.2	0.3	0.3	0.3	0.3
	TOU Evening/Morning Savers	8.8	8.7	8.6	8.5	8.3	8.2
	TOU Overnight Savers	2.6	4.3	6.0	7.7	9.3	11.0
	TOU Smart Savers	1.7	2.3	3.0	3.6	4.3	4.9
	TOU Ultimate Savers	2.2	3.7	5.2	6.6	8.0	9.5
	Battery Storage	0.0	0.0	0.0	0.0	0.0	0.0
C&I	DLC Thermostat	2.7	8.8	18.4	24.4	26.4	26.9
	DLC Water Heater Switch	0.7	2.1	4.5	5.9	6.4	6.5
	DLC Water Heater Grid-Enabled	0.7	2.1	4.5	5.9	6.4	6.5
	DLC Lighting	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Agricultural Irrigation	0.0	0.0	0.0	0.0	0.0	0.0
	Capacity Bidding	183.4	187.6	189.5	194.1	196.0	197.8
	Battery Storage	0.0	0.0	0.0	0.0	0.0	0.0
All Sectors Combined		250.4	271.0	294.2	314.9	326.7	336.0

1.5.4 Distributed Energy Resource Potential for All Customers

Table 1-4 summarizes the CHP cumulative potential estimates for electric demand and Table 1-5 for electric energy. 2046 technical market potential for CHP represents 23.4% of the 2046 business sector sales forecast and economic potential represents 5.4% of the 2046 business sector sales forecast.

TABLE 1-4: SUMMARY OF CHP ELECTRIC DEMAND MARKET POTENTIAL

Year	Technical (MW)	Economic (MW)	MAP (MW)	RAP (MW)
2029	12.2	5.4	5.0	4.0
2036	77.4	34.3	29.9	20.1
2046	348.7	154.4	115.7	53.6

TABLE 1-5: SUMMARY OF CHP ELECTRIC ENERGY MARKET POTENTIAL

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
2029	86,790	35,698	32,930	26,216
2036	551,195	225,521	196,943	132,551
2046	2,522,013	1,016,481	761,578	352,835

Figure 1-4 summarizes the shares of technical potential by CHP technology type. Fuel cells and gas turbines account for nearly three-quarters of the technical potential.

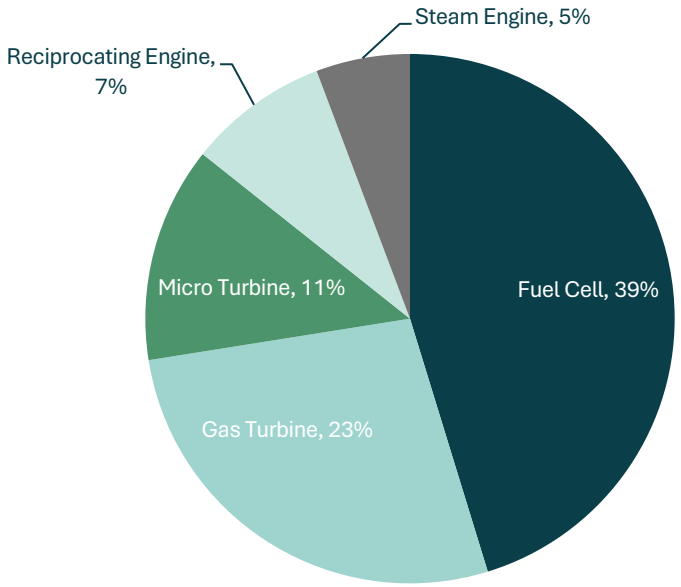


FIGURE 1-4: CHP 2046 TECHNICAL POTENTIAL TECHNOLOGY SHARES

Table 1-6 and Table 1-7 summarize the Solar PV cumulative energy potential estimates for electric generation for the residential and non-residential sectors respectively. Table 1-8 and Table 1-9 summarize the Solar PV cumulative demand potential estimates for the residential and non-residential sectors. 2046 technical market potential for Solar PV represents 28.3% of the 2046 residential and business sector sales forecast combined.

TABLE 1-6: SUMMARY OF RESIDENTIAL SOLAR PV ELECTRIC DEMAND MARKET POTENTIAL

Year	Technical DC Capacity (MW)	Technical Peak Capacity (MW)[14]	Economic (MW)	MAP (MW)	RAP (MW)
2029	274	116	0	0	0
2036	2,837	1,203	0	0	0
2046	4,566	1,936	0	0	0

[14] This peak capacity represents the alternating current (AC) production between the hours of 16 and 18 and may not align with MISO Resource Adequacy models.

TABLE 1-7: SUMMARY OF NON-RESIDENTIAL SOLAR PV ELECTRIC DEMAND MARKET POTENTIAL

Year	Technical DC Capacity (MW)	Technical Peak Capacity (MW)[15]	Economic (MW)	MAP (MW)	RAP (MW)
2029	26.5	11.7	0	0	0
2036	183	80.8	0	0	0
2046	1,018	449	0	0	0

TABLE 1-8: SUMMARY OF RESIDENTIAL SOLAR ELECTRIC ENERGY MARKET POTENTIAL

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
2036	4,043,280	0	0	0
2046	6,506,260	0	0	0

TABLE 1-9: SUMMARY OF COMMERCIAL SOLAR ELECTRIC ENERGY MARKET POTENTIAL

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
2036	273,199	0	0	0
2046	1,518,507	0	0	0

[15] This peak capacity represents the alternating current (AC) production between the hours of 16 and 18 and may not align with MISO Resource Adequacy models.

02 MARKET RESEARCH[16]

The initial step in the assessment of future potential is to develop a clear understanding of the current market segments, as well as a clear understanding of the market research data available in the Ameren Missouri service area.

Opinion Dynamics Corp. (ODC), a member of the GDS Team, was tasked with conducting the market research that would inform critical elements of the market potential study. The objectives of this research were based on a gap analysis, and subsequent prioritization of data needs. They were developed in coordination with Ameren Missouri and were refined based on feedback from regulatory stakeholders.

Following this collaboration, primary market research activities were focused on 1) collecting updated equipment penetration, saturation, and efficiency characteristics, and 2) customer willingness to participate (WTP) in program offerings across select end-uses/measures. These focus areas served to update market research that was collected as part of the 2020 MPS. Residential research activities included both an online survey as well as a more detailed virtual site-visit survey with a nested sample of participants and report on key differences between market-rate (non-income-eligible) and income-eligible customers. Primary data collection in the business sector was limited to an online survey with business customers.

The resulting data was used to inform updated estimates of baseline and efficient equipment saturation estimates in the market potential study and develop expected long-term adoption rates for energy efficiency, demand response, and DERs over the study horizon.

The following section provides an overview of the market research plan and major deliverables of primary importance to the assessment of energy efficiency potential. The full report, Ameren Missouri Baseline Study Report, published by ODC, is included as Appendix A.

2.1 PRIMARY DATA COLLECTION

In the residential sector, we conducted two primary data collection activities: (1) an online survey with residential customers, and (2) virtual on-site visits with residential customers. The residential customer research targeted homeowners and tenants in the following key segments: income-eligible and non-income-eligible customers, and customers occupying single family and multifamily homes. Table 2-1 provides the total residential survey completes by housing type and income status.

The residential customer survey collected home characteristics, equipment penetration for key end-uses – such as heating, cooling, water heating, water fixtures, insulation, smart power strips, thermostats, major appliances, solar PV systems, pool pumps, and electric vehicles – and information on barriers and willingness to adopt a range of energy efficient measures at varying incentive levels.

The residential virtual on-site visits were conducted on a sample of the residential online survey (a nested sampling approach) and used to collect more detailed information on key building and/or equipment characteristics, as well as to verify responses provided during the online customer survey.

[16] 20 CSR 4240-20.050 (2)

TABLE 2-1: RESIDENTIAL SURVEY AND VIRTUAL ON-SITE COMPLETES

	Customer Survey Completes			Customer Virtual On-Site Visit Completes		
Segment	Single Family	Multifamily	Total	Single Family	Multifamily	Total
Income Eligible (80% AMI)	303	461	764	36	19	55
Market Rate (Non-Income-Eligible) Customers	2878	732	1,010	41	20	61
Total	**581**	**1,193**	**1,774**	**77**	**39**	**116**

Primary data collection in the business sector was limited to an online survey with business and multifamily customers. The survey collected business and facility characteristics, as well as equipment penetrations for key end-uses, such as heating, cooling, water heating, refrigeration, thermostats, and on-site generation (including solar PV systems).[17] The business online survey also collected information on barriers to energy efficiency and willingness-to-adopt energy efficient measures under various incentive offerings.

The business research covered two primary segments (small usage and medium/large usage) and within each primary segment, we further classified the sample within the following eight business segments: office/government, industrial, retail/entertainment, food sales/service, education, health, multifamily, and other. In Table 2-2, we present completes by primary segment and sector.

TABLE 2-2: BUSINESS SURVEY COMPLETES

	Survey Completes (Penetration & Saturation)			Survey Completes (Adoption Rates)		
Segment	Small Business	Med/Large Business	Total	Small Business	Med/Large Business	Total
Retail/Entertainment	155	20	175	122	18	140
Office/Government	128	26	154	102	18	120
Industrial	48	36	84	40	32	72
Food Sales/Service	48	20	68	33	15	48
Health	30	7	37	22	5	27
Education	9	16	25	6	11	17
Other	108	18	126	86	15	101
Multifamily	46	4	50	38	3	41
Total	**572**	**147**	**719**	**449**	**117**	**566**

2.2 RESIDENTIAL SECTOR BUILDING/EQUIPMENT DATA

The tables below provide some key demographic data as well as weighted and on-site adjusted penetration and saturation results by key market segment. Additional data tables can be found in Appendix A of this report.

Table 2-3 presents select demographic information for the residential sector by income type and home type. In general, market rate households generally have fewer number of occupants, and live in newer and bigger homes than their income-eligible counterparts.

[17] Notably lighting is not covered by the business sector research because Ameren has recently completed a lighting-specific study from which contemporary lighting market data can be drawn. This research is included as Appendix B.

TABLE 2-3. SELECT RESIDENTIAL SECTOR DEMOGRAPHICS

Household Characteristics	Total	SF-MR	MF-MR	SF-IE	MF-IE
Avg. Number of Occupants	2.3	2.2	1.3	2.7	2.2
Decade Home Built (Median)	1970-1979	1970-1979	1980-1989	1960-1969	1980-1989
Avg. Square Footage	1,629	2,012	1,014	1,179	829
Income < $35,000 (%)	19%	2%	3%	48%	54%

Table 2 4 provides example summary equipment characteristics data by market segment for major residential end-uses. Datapoints such as these were used to inform estimates of baseline and/or efficient equipment characteristics in the market potential study.

TABLE 2-4: SELECT RESIDENTIAL MARKET RESEARCH RESULTS FOR KEY END-USES (BASED ON ONLINE/VIRUTAL SURVEYS)

		Penetration/Saturation			
End-Use	Equipment/Characteristic	SF-MR	MF-MR	SF-IE	MF-IE
HVAC	Primary Electric Heat	34%	58%	38%	49%
	Dedicated Heat Pump	11%	10%	11%	13%
	Has Central AC	97%	94%	88%	87%
	Has Room AC	18%	21%	35%	31%
	Has Smart Thermostats	42%	21%	14%	8%
	Regular HVAC Tune-Ups	79%	83%	58%	86%
	Ductwork Sealed	86%	79%	70%	59%
	Ductwork Insulated	43%	45%	30%	36%
Shell	Attic Insulated?	91%	56%	83%	61%
	Well Sealed/Not Drafty	90%	84%	78%	91%
	Floors Insulated?	58%	21%	46%	39%
	Double/Triple-Pane Windows?	78%	69%	51%	47%
Hot Water	Has Electric WH	31%	56%	68%	48%
	Has Heat Pump WH	5%	2%	3%	4%
Other	Smart Strips	59%	62%	62%	59%
	Battery Storage	2%	<1%	0%	<1%

2.3 BUSINESS SECTOR BUILDING/EQUIPMENT DATA

The tables below provide some key demographic data as well as weighted and on-site adjusted penetration and saturation results by key market segment. Additional data tables can be found in Appendix A of this report.

TABLE 2-5: SELECT BUSINESS SECTOR DEMOGRAPHICS

Select Demographics	Overall	Small Business	Large Business
Own / Partially Own	57%	55%	73%
Lease	43%	45%	27%
Occupy All of Facility	67%	65%	87%

Select Demographics	Overall	Small Business	Large Business
Occupy Part of Facility	20%	21%	8%
None (Manage Only)	13%	13%	5%
Average Age of Facility (Years)	48	48	49
Average Size of Facility (SqFt)	12,745	7,987	59,094
Average Weekday Hours of Operation	10.1	9.6	14.2
Average Weekend Hours of Operation	6.8	6.4	9.8

TABLE 2-6: SELECT BUSINESS MARKET RESEARCH RESULTS FOR KEY END-USES

	Penetration/Saturation		
Equipment	Overall	Small Biz	Med/Lg Biz
Split AC	44%	43%	53%
Chiller	4%	2%	19%
Commercial Refrigeration	16%	13%	47%
Refrigerated Display Cases	7%	6%	21%
Display Case Night Covers	1%	1%	3%
Refrigerated Walk Ins	8%	5%	35%
Walk In Strip Curtains	2%	1%	10%
Smart Thermostats	60%	58%	76%
Facility has BMS	3%	1%	22%
SEM practiced	3%	2%	13%
RCx in Last 5 Years	15%	14%	23%
Efficient Air Nozzles	7%	7%	14%
Leak Detection & Repair	12%	11%	24%
No Loss Condensate Drains	3%	2%	13%
Energy Storage	2%	2%	5%

2.4 BUSINESS SECTOR LIGHTING MARKET RESEARCH

Business sector lighting characteristics were not included in the market research conducted by ODC to support the MPS. Instead, Ameren Missouri had previously contracted GDS to conduct a stand-alone market research effort to estimate the types of lighting and saturation of efficient lighting in Ameren Missouri businesses. The research was carried during the summer and fall of 2024. The purpose of the research was to understand two aspects of the market for energy efficient nonresidential lighting:

1. Estimate the saturation of commercial LED lighting within Ameren's nonresidential customers, and
2. Obtain perspectives from nonresidential lighting program trade allies on the current sales share of LEDs within their individual lighting sales.

The results of this research can be found in Appendix B. Figure 2-1 and Figure 2-2, respectively, provide estimates for the breakdown of interior lighting fixture type (by building type) as well as the overall average estimated LED saturation by fixture type.

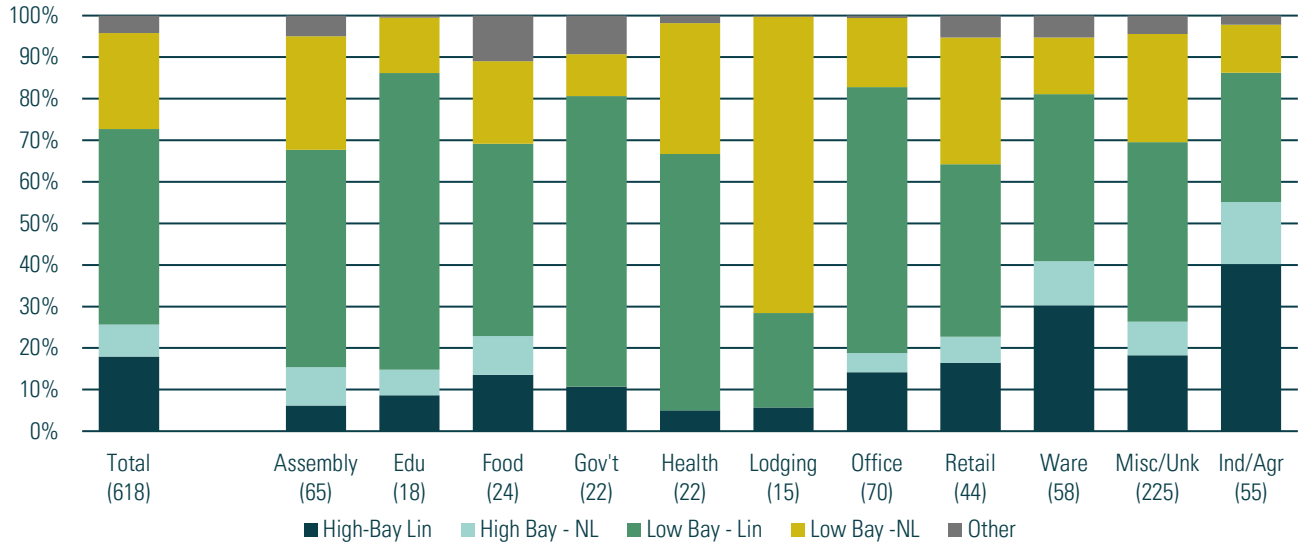


FIGURE 2-1: INTERIOR LIGHTING FIXTURE TYPE, BY BUILDING TYPE

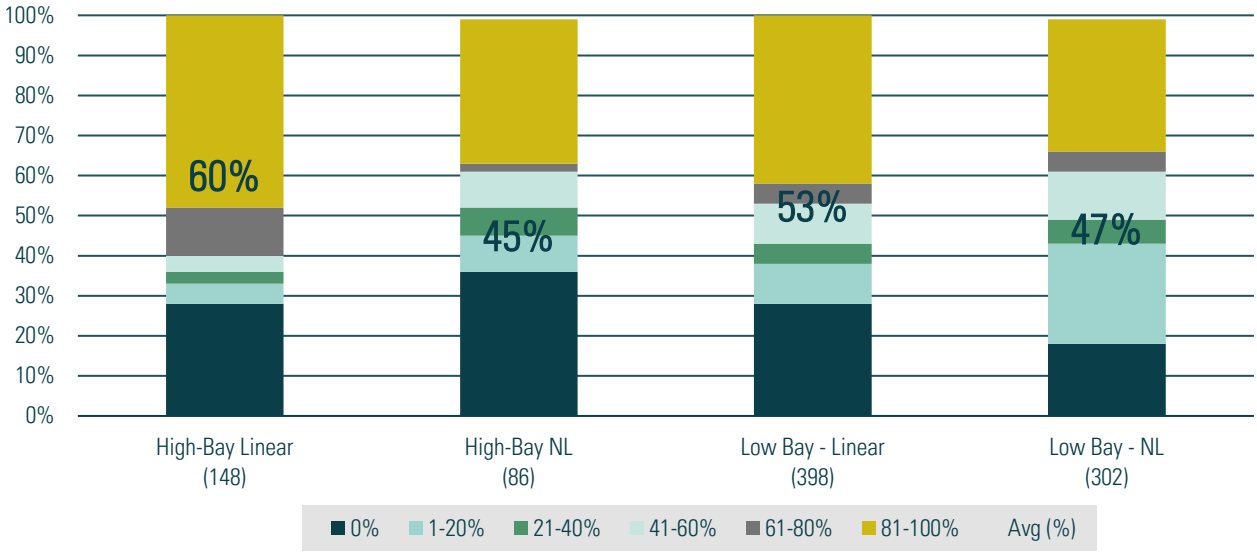


FIGURE 2-2: INTERIOR LIGHTING LED SATURATION, BY FIXTURE TYPE (LED DISTRIBUTION AND OVERAL AVERAGE)

2.5 WILLINGESS-TO-PARTICIPATE / ADOPTION CURVE MARKET DATA

In addition to new primary research on building and energy-consuming equipment characteristics in the Ameren Missouri service area, one of the major objectives of the primary research was to develop survey research that could be utilized to develop measure/program adoption curves to develop estimates of achievable potential. Table 2-7 describes the end-uses or categories in which adoption rate estimates were developed for energy efficiency and demand response programs by ODC.

TABLE 2-7: ADOPTION RATE CATEGORIES ANALYZED

Sector	Energy Efficiency	Demand Response
Residential Customers	Central Air Conditioners Heat Pumps Heat Pump Water Heaters Major Appliances Insulation Retrofits	Central AC Direct Load Control (DLC) Electric Heating DLC Electric WH DLC Time of Use (TOU) Rates EV Charging Control
Business Customers	HVAC Water Heating Refrigeration	Central AC Direct Load Control (DLC) Electric WH DLC Custom DR Time of Use (TOU) Rates

Adoption rate calculations were based on a battery of questions which assessed (1) the respondent's willingness to adopt energy efficiency technologies or participate in demand response programs in scenarios with varying levels of program support, (2) the magnitude of the respondent's financial and non-financial barriers to adoption/participation, and (3) their awareness of Ameren Missouri energy efficiency programs and/or high efficiency technologies. Adoption rates were calculated based on the equation shown below.

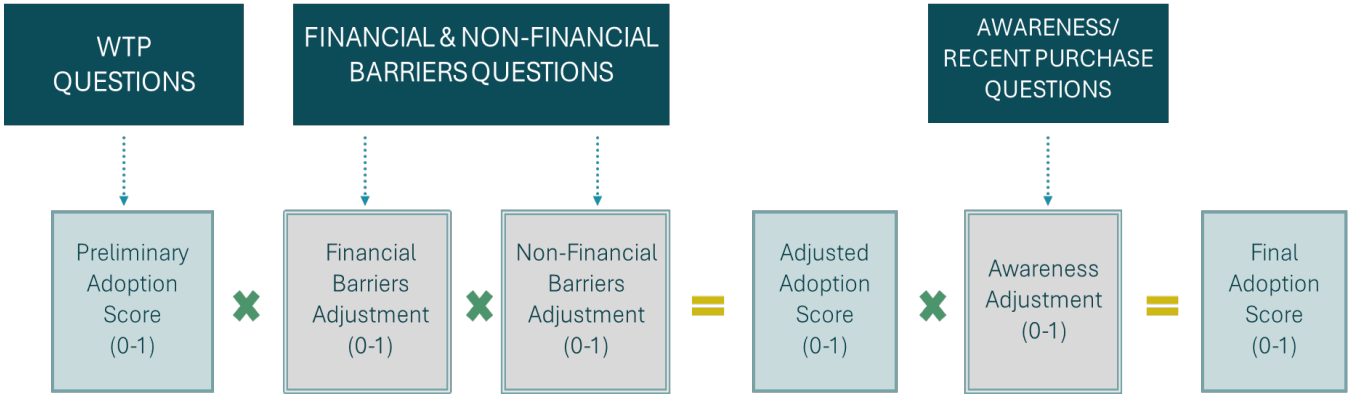


FIGURE 2-3: ADOPTION RATE FORMULA FOR FINAL ADOPTION SCORE

Direct willingness-to-participate questions are the starting point of measure/program-specific adoption curve calculations. For each item, respondents were asked to rate the likelihood that they would purchase the energy efficient version of the equipment, or participate in the DR program, at various incentive levels, including no incentive and an incentive that covers the full incremental (or total) cost. An example question from the residential online survey is provided below:

Next please think about upgrades you could make to the attic insulation of your home. For a typical home, the cost of upgrading attic insulation is about $1,900 and the energy savings after making this upgrade are about $175 per year.

How likely would you be to upgrade your home's wall, attic, or crawlspace insulation or seal for air leaks if there was…

A. No incentive? (You pay the full price of the attic insulation and any installation costs)
B. An incentive for ONE-QUARTER of the cost? (The incentive would cover $475 of the cost.)
C. An incentive for HALF of the cost? (The incentive would cover $950 of the cost.)
D. An incentive for THREE-QUARTERS of the cost? (The incentive would cover $1,425 of the cost.)
E. An incentive for the FULL cost? (The incentive would cover the full cost of $1,900)

Responses to financial and non-financial barrier questions were then used to adjust the preliminary adoption score. Last, to reflect that some customers who might otherwise participate will not be aware of the program, survey respondents were also asked about their current awareness of Ameren Missouri programs/incentives. Key adoption rates are provided below, with additional detail available in Appendix A. In addition, Section 4.1.7.1 has additional description regarding the utilization of adoption rate research for assessing achievable savings potential.

2.5.1 Residential Sector Final Adoption Scores

Table 2-8 presents the final adoption scores (after all adjustments) based on responses by residential homeowners and tenants, segmented between market-rate and income-eligible customers. In general, market rate customers indicated a greater willingness to participate and install energy efficiency measures across all end-uses, particularly at lower incentive levels relative to income-eligible customers.

TABLE 2-8: RESIDENTIAL SECTOR ENERGY EFFICIENCY FINAL ADOPTION SCORES

Segment / End Use	Payback period				
	10 years	5 years	3 years	1 year	0 years
Market Rate Single Family					
Central AC	25%	39%	49%	59%	66%
Heat Pump	23%	36%	45%	54%	64%
Water Heating - HPWH	7%	12%	17%	23%	30%
Major Appliances	22%	30%	39%	49%	58%
Insulation Retrofits	14%	31%	45%	59%	72%
Market Rate Multifamily					
Central AC	21%	31%	42%	55%	61%
Heat Pump	9%	21%	30%	44%	57%
Water Heating - HPWH	4%	7%	10%	15%	19%
Major Appliances	23%	32%	36%	41%	49%
Insulation Retrofits	7%	13%	22%	34%	49%
Income Eligible (IE) Single Family					
Central AC	15%	22%	29%	36%	44%
Heat Pump	8%	18%	26%	35%	44%
Water Heating - HPWH	6%	8%	12%	17%	22%
Major Appliances	12%	20%	26%	33%	42%
Insulation Retrofits	7%	18%	26%	35%	50%
Income Eligible (IE) Multifamily					
Central AC	10%	9%	23%	35%	33%
Heat Pump	9%	20%	29%	36%	40%
Water Heating - HPWH	2%	3%	4%	5%	8%
Major Appliances	14%	20%	24%	31%	38%
Insulation Retrofits	12%	16%	23%	28%	34%

Final adoption scores for residential direct load control (DLC) of central AC and water heating systems is shown in Table 2-9, depending on varying annual incentive levels. Current annual incentive offerings are $25 for direct load control of central air conditioning systems. Table 2-10 provides the final adoption score for a Time of Use (TOU) rate option based

on a prescribed difference between peak and off-peak rates. Table 2-11 provides the adoption results for two EV Charging demand response program options.

TABLE 2-9: RESIDENTIAL SECTOR DEMAND RESPONSE DLC FINAL ADOPTION SCORES

DR – Direct Load Control	Annual Incentive				
	$0	$20	$30	$45	$60
Central AC DLC					
MR-SF	14%	17%	19%	24%	30%
MR-MF	15%	15%	18%	24%	29%
IE-SF	12%	14%	16%	20%	25%
IE-MF	7%	9%	10%	13%	17%
Winter Heating DLC					
MR-SF	15%	17%	20%	24%	30%
MR-MF	17%	17%	21%	27%	30%
IE-SF	13%	15%	17%	20%	26%
IE-MF	7%	7%	8%	11%	13%
Water Heating DLC					
MR-SF	7%	11%	14%	18%	25%
MR-MF	4%	9%	12%	15%	21%
IE-SF	7%	9%	12%	15%	21%
IE-MF	5%	7%	8%	11%	14%

TABLE 2-10: RESIDENTIAL SECTOR DEMAND RESPONSE TOU FINAL ADOPTION SCORES

Time of Use DR	Off Peak Rate			
	8 cents/kWh off-peak rate	6 cents/kWh off-peak rate	4 cents/kWh off-peak rate	3 cents/kWh off-peak rate
MR-SF	20%	25%	29%	34%
MR-MF	19%	22%	29%	33%
IE-SF	16%	19%	23%	26%
IE-MF	16%	19%	23%	26%

TABLE 2-11: RESIDENTIAL SECTOR EV CHARGING FINAL ADOPTION SCORES

Program	Yes, I might participate in such a program	Maybe, I would want to learn more about the program before deciding	No, I would not participate in such a program
Rates program offering lower electric rates at non-peak (daytime) hours	65%	30%	5%
DLC program that allows Ameren to adjust charging rate or pause charging rate during period of congestion	57%	34%	10%

2.5.2 Business Sector Final Adoption Scores

Table 2-12 presents the final adoption scores (after all adjustments) for small business customers across several end-uses, depending on whether the investment is a minor or major investment. Small businesses indicated a minor investment to be approximately $9,500 or less. Final adoption scores were generally similar regardless of the initial investment amount.

TABLE 2-12: BUSINESS SECTOR ENERGY EFFICIENCY FINAL ADOPTION SCORES

Segment / End Use	Payback period				
	10 Years	5 Years	3 Years	1 Year	0 Years
HVAC					
Major Investment					
Small Business	16%	19%	21%	23%	27%
Medium / Large Business	19%	22%	26%	28%	31%
Minor Investment					
Small Business	16%	20%	23%	28%	32%
Medium / Large Business	16%	19%	24%	27%	30%
Refrigeration					
Major Investment					
Small Business	12%	15%	15%	18%	22%
Medium / Large Business	18%	21%	24%	27%	30%
Minor Investment					
Small Business	12%	15%	18%	21%	25%
Medium / Large Business	17%	20%	23%	25%	30%
Water Heating					
Major Investment					
Small Business	20%	22%	24%	26%	28%
Medium / Large Business	22%	24%	27%	28%	31%
Minor Investment					
Small Business	20%	24%	26%	29%	33%
Medium / Large Business	18%	21%	25%	27%	30%

Final adoption scores for business sector demand response options are shown in Table 2-13, depending on varying annual incentive levels for direct load control as well as volunteer load reduction via a custom DR initiative. The table also provides business sector responses for participation likelihood for a TOU DR rate program on a prescribed difference between peak and off-peak rates designs.

TABLE 2-13: BUSINESS SECTOR DEMAND RESPONSE FINAL ADOPTION SCORES

DR – Direct Load Control	Annual Incentive				
	$0	$15	$25	$35	$50
Central AC DLC – Small Bus.	7%	8%	9%	10%	12%
Water Heat DLC – Small Bus.	5%	7%	9%	10%	14%
Custom Demand Response	**Incentive per kW Reduced**				
	$0	$25	$50	$100	
Custom DR – Med/Lg Business	18%	37%	47%	57%	
Time of Use DR	**On:Off Peak Ratio**				
	3:1	4:1	6:1	8:1	
TOU DR - Small Business	8%	9%	12%	15%	
TOU DR - Med / Lg Business	9%	10%	14%	17%	

03 BASELINE FORECAST

The load forecast is a critical input into Ameren Missouri's 2026 DSM Market Potential Study, having various uses in estimating residential and business sector potential. Therefore, our Team took considerable time and effort to review Ameren's most recently completed load forecast models and documentation to produce the various forecast components necessary as inputs into this analysis. The chapter describes the various ways in which the forecast is used for this study, presents the baseline and disaggregated forecasts, and describes the methodology and data sources used by GDS for the purposes of generating the load forecasts that were used in the potential analysis.

3.1 AMEREN MISSOURI'S LOAD FORECASTING SYSTEM

Ameren employs a sophisticated load forecasting system that uses econometric and Statistically Adjusted End-Use ("SAE") models to project number of consumers, average consumption per consumer, and total energy sales by class. Residential, Commercial, and Industrial consumers are projected using traditional econometric techniques. Residential average usage and commercial energy sales are projected using SAE model specifications. Industrial energy sales are projected using econometric techniques.

A residential SAE model specification takes end-use data drawn from utility, regional, and even national sources and develops monthly end-use indices designed to predict average household consumption. The indices are then adjusted through the least squares regression to statistically fit historical usage patterns. The end-use data includes market share of key electric consuming appliances, average device efficiency trends, average building shell efficiency trends, price elasticity of demand, income elasticity of demand, and elasticity associated with the average number of people per household. A cooling index is developed to represent space cooling load and is further modified by Cooling Degree Days to incorporate summer weather into the model. Likewise, a heating index representing space heating is modified by Heating Degree Days. Finally, a base index is developed to represent consumption of all other end-uses in the home.

A commercial SAE model specification is very similar to a residential specification, with end-use energy intensity indices developed based on area employment in various industry codes. National and regional commercial data is used to estimate end-use consumption for various industries (for example, restaurants will have higher cooking usage shares than offices).

Ameren uses system-specific data for appliance market shares. Average device and home shell efficiencies are developed by Itron and represent regional adjustments to Annual Energy Outlook ("AEO") projections prepared by the Energy Information Administration ("EIA"). Other data sources for the SAE framework include national surveys conducted by the EIA and the US Census Bureau, such as the Residential Energy Consumption Survey ("RECS") and the Commercial Building Energy Consumption Survey ("CBECS").

Ameren Missouri also projects the impacts of DSM programs it has run in the past related to the Missouri Energy Efficiency Investment Act ("MEEIA").

The detailed forecasting framework developed and used by Ameren provides a rich data source for GDS for developing the various baseline forecasts and disaggregating energy sales projections as needed for the Potential Study.

3.2 ADJUSTMENTS TO THE AMEREN MISSOURI LOAD FORECAST

Before assessing the future potential for energy efficiency, demand response, or distributed energy resources in the Ameren Missouri service area, a few modifications to the Ameren Missouri forecast were necessary to create an adjusted baseline forecast. These modifications are addressed in more detail below.

3.2.1 Current DSM Impacts

Although the load forecast provided by Ameren Missouri already excluded the impacts of future DSM impacts, historical DSM impacts were included in the load forecast projections. Ameren provided GDS with a projection of energy savings for all current DSM programs. While each Missouri Energy Efficiency Investment Act (MEEIA) cycle only lasts three years, the effects of those measures installed last beyond that three-year period. An important question is how to handle the savings of those programs at the expiration of the current measure. GDS evaluated three possible options:

1. Assume the full savings potential is repeated. This implicitly assumes all participants in the program would participate again at the same level, even without the program in place, or a 100% transformation of the participant population. This indicates full transformation of the entire DSM market from prior Cycles.
2. In the second approach, it is assumed that only free-riders would continue to install efficient equipment or behave efficiently even without the DSM program in place, but all others would revert to the minimum standard of efficiency. This represents an approach in which none of the participants that were not already actively engaged in efficiency and conservation would have been transformed by participation in the program. For each end-use, GDS used the 2023 Efficiency Measurement & Verification ("EM&V") reports for current DSM programs to estimate free ridership for each end-use.
3. The last approach is one in which free riders remain engaged in efficient behaviors plus some portion of the remaining participant population is transformed. In 2014, Ameren conducted non-MPS related market research of the residential and commercial sectors. Customers were segmented according to perceptions to energy efficiency and conservation. GDS has assumed that Active Conservers and Cost-Focused Conservers would be the proportion of the population transformed. For the residential sector, 13% of consumers were Active Conservers and 9% were Cost-Focused Conservers, totaling to a 22% assumed transformation rate more than free ridership. For the C&I sector, 25% of the market is assumed transformed, based on 12% of the sector being Active Conservers and 13% being Cost-Focused Conservers.

The GDS and Ameren team has selected the third option, in which a portion of the program participants in excess of free riders are transformed and continue to exhibit efficient behaviors at the expiration of current DSM measures. This approach recognizes the likelihood that some portion of program participants that were not originally free riders would likely continue to exhibit efficient behaviors but that not all such consumers would do so.

3.2.2 Naturally Occurring Efficiency Savings

The end-use appliance efficiency trends in the SAE model framework show appliance efficiency changing over time, often showing average equipment efficiency above current equipment standards. These trends are a byproduct of assumptions regarding natural occurring efficiency. To estimate the amount of energy associated with naturally occurring efficiency, GDS used appliance stock accounting information developed as part of the SAE modeling framework. The average device efficiency curve was recomputed by only allowing appliance replacements and new appliances each year to be purchased at the minimum standard level. The result is a new trend in efficiency that approaches the minimum standard without exceeding it. The new efficiency estimate was then run through the SAE regression modeling to produce the estimated change in end-use energy sales because of the new estimated efficiency without naturally occurring effects.

3.2.3 Reclassification of Load

The Ameren C&I sector customer database designated commercial and industrial ("C&I") rate code based on current tariff definition. When only using the account type/tariff definition to classify customers as either commercial or industrial, there were several manufacturing type premises classified as commercial, as well as several customers that GDS typically classifies as commercial classified as industrial, (i.e., a retail service building coded as an industrial account).

Conversely, the dataset also identified each business by Standard Industry Code (SIC). We then mapped these industry codes to a specified building type and lastly classified the building type as either commercial or industrial. Customers with a building type classified as "Industrial Manufacturing" were coded as Industrial customers, while all other building types were coded as Commercial. This reclassification shifted approximately 0.4% of commercial sales, or roughly 54,000 MWh, to the industrial sector.

3.2.4 Adjustment for Large C&I Opt-Out Customers

20 CSR 4240-20.094(7)(A) states that, any customer meeting one or more of the following criteria shall be eligible to opt-out of participation in utility-offered demand-side programs: (1) The customer has one or more accounts within the service territory of the electric utility that has a demand of 5,000 kW or more; (2) The customer operates an interstate pipeline pumping station; or (3) The customer has accounts within the service territory of the electric utility that have, in aggregate across its accounts, a coincident demand of 2,500 kW or more in the previous 12 months, and the customer has a comprehensive demand-side or energy efficiency program and can demonstrate savings at least equal to those expected from utility-provided demand-side programs.

Ameren provided a list of all business customers that have opted out of participating in Ameren Missouri's MEEIA programs, and the associated sales from these customers were removed from the business sector sales forecast and thus, from the base estimates of future efficiency potential.[18]

3.3 LOAD FORECAST COMPARISON

Figure 3-1 demonstrates the impacts of the adjustments noted above to the overall Ameren forecast for 2027. The bar on the left is the original Ameren forecast for 2027, including the impacts of Ameren Missouri's MEEIA DSM activities, but excluding future DSM. The Business as Usual "BAU" forecast includes the adjustments to DSM impacts to account for decay in DSM savings as well as to net out the impacts of naturally occurring savings already embedded in the forecast. Both adjustments result in a relatively small increase to the Ameren forecast in the near term. The last two bars provide the adjustments from the reclassification of load between the commercial and industrial sectors (which was already relatively minor) and excluding active opt-out customers.

[18] A high (a) and low (b) sensitivity on savings was performed that a) included current opt-out customers, and b) excluded customers who are eligible to opt-out but have not currently done so.

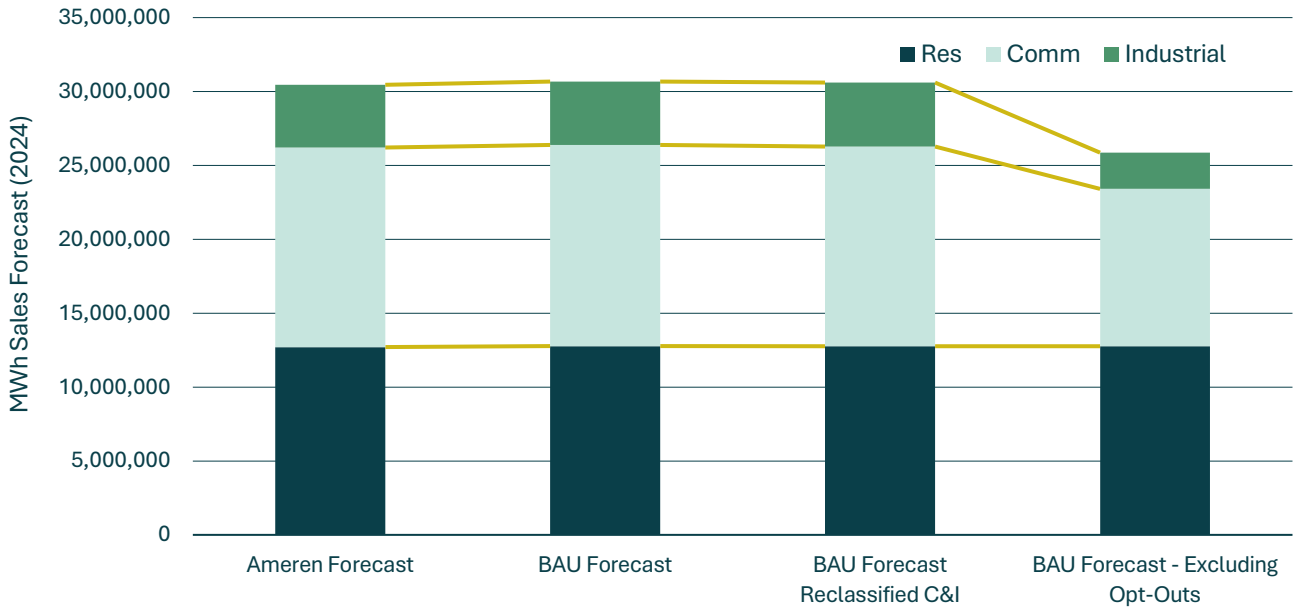


FIGURE 3-1: STEP-BY-STEP COMPARISON OF ADJUSTMENTS TO THE AMEREN LOAD FORECAST

Figure 3-2 demonstrates depicts the total system load forecast for the MPS study timeframe of 2027-2046, following the adjustment noted in Section 3.2.

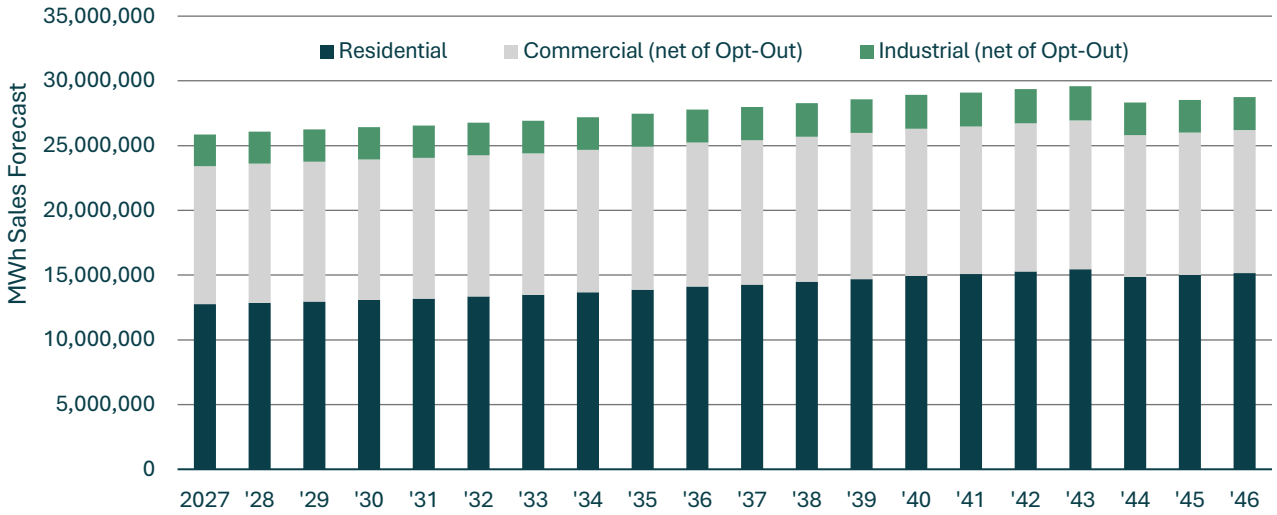


FIGURE 3-2: TOTAL SYSTEM SALES FORECAST (NET OF OPT-OUTS) USED IN MPS

3.4 LOAD FORECAST DISAGGREGATION

The baseline forecasts represent projected total energy sales by class. For the potential studies, it is useful to have the class forecasts disaggregated in several different ways. This section presents the forecast disaggregation scenarios used by GDS in developing the market potential study.

3.4.1 Residential Sector

The baseline residential forecast for the study is disaggregated across 12 different end-uses. These end-use level forecasts are important in helping to calibrate measure-level savings estimates as well as for making interactive effects adjustments in the potential model to avoid over-estimating (double-counting) savings. Figure 3-3 provides a breakdown of these residential end-uses.

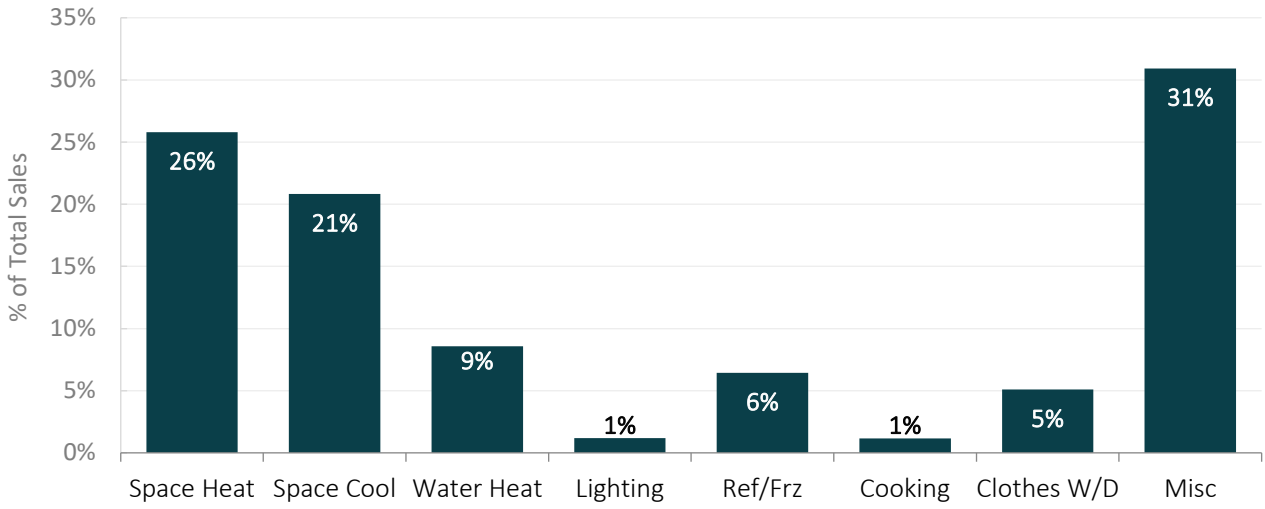


FIGURE 3-3: RESIDENTIAL ELECTRIC END-USE BREAKDOWN BY HOME TYPE

3.4.2 Business Sector

In the business sector, C&I disaggregated forecast data provides the foundation for the development of energy efficiency potential estimates. GDS received a BAU sales forecast from Ameren for the residential, commercial and industrial sectors. As noted above, the C&I forecast was adjusted from the BAU Baseline by using SIC information from Ameren to reclassify usage as commercial or industrial. SIC information from Ameren was also used to segment the forecast into building types. The forecast was further segmented into end-uses by building type using regional specifical projections of end-use consumption contained within Energy Information Administration's ("EIA") Annual Energy Outlook supporting workpapers. provides a breakdown of commercial electric sales, excluding opt-outs, by building type.[19]

[19] "Other" commercial building types include buildings that engage in several different activities, a majority of which are commercial (e.g., retail space), though the single largest activity may be industrial or agricultural; "other" also includes miscellaneous buildings that do not fit into any other category.

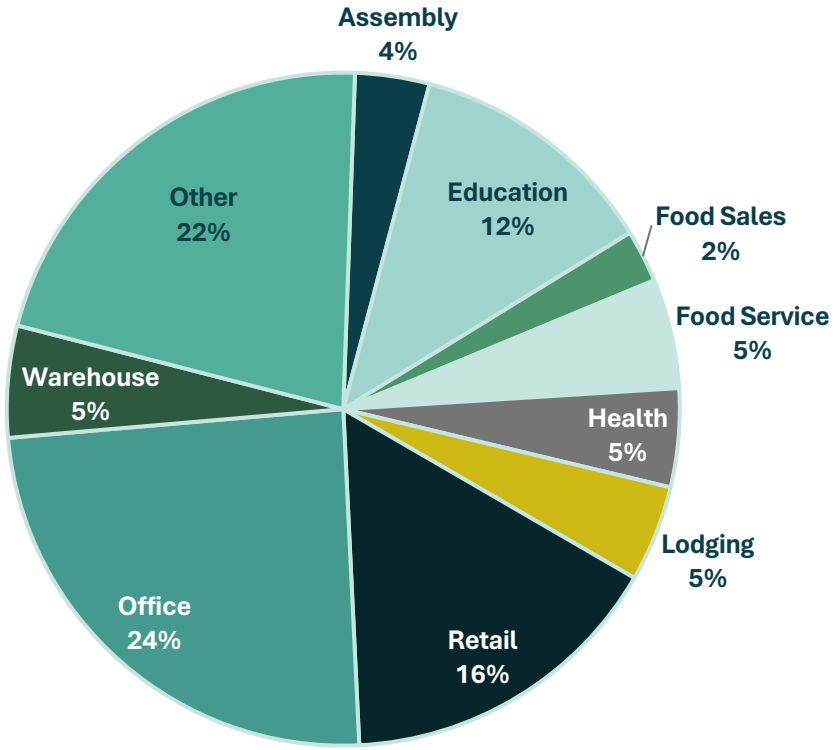


FIGURE 3-4: COMMERCIAL ELECTRIC SALES BREAKDOWN BY BUILDING TYPE

Figure 3-5 provides an illustration of the leading end-uses across all building types in the commercial sector. Lighting, space cooling, and ventilation are the primary end-uses with a significant share of load across most building types. Shares of refrigeration and office/computing are often dependent on the type of building, with refrigeration loads greatest in food sales and food service while office/computing loads are greatest in offices and education. Miscellaneous plug load is also a significant share of load in some building types, indicating that various small devices are becoming more common in commercial buildings.

Industrial sales were also segmented by end-use based on the overall distribution of sales by industry type and EIA Manufacturing Energy Consumption Survey ("MECS") data on end-use consumption by industrial segment. Figure 3-6 depicts in the industrial segment of the business class, broken down by both industry type (left pie chart) and end-use (right pie chart). The industry type and end-use breakdowns are based on the redistributed industrial sales that are net of opt-out customers in the Ameren Missouri service area.

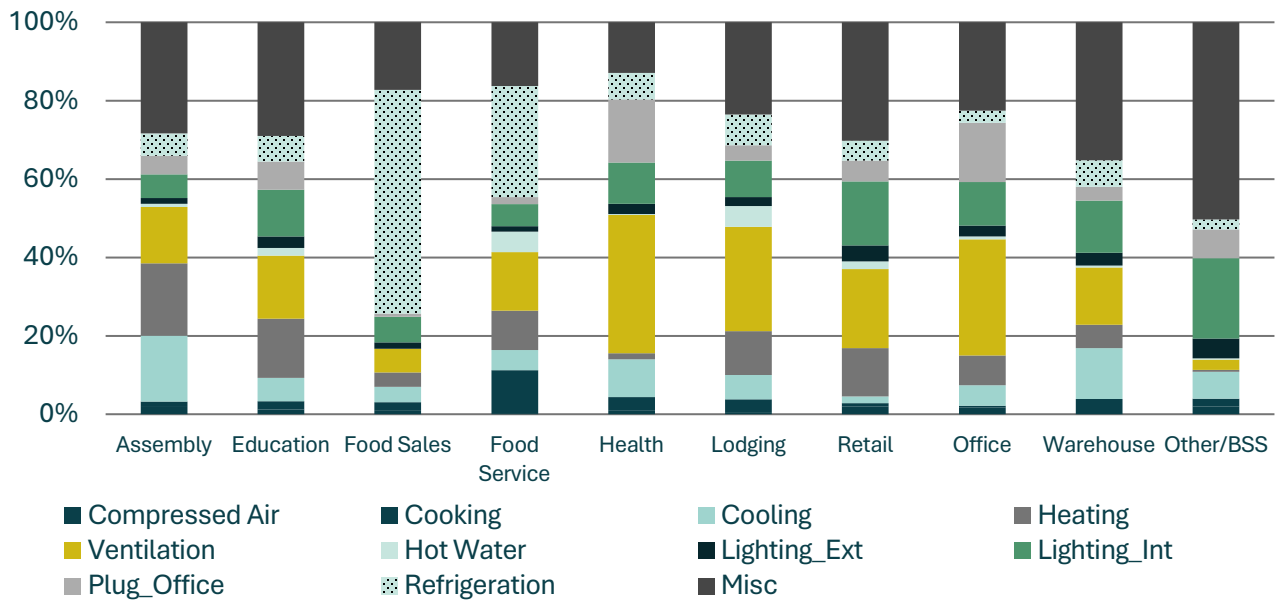


FIGURE 3-5: COMMERCIAL ELECTRIC SALES END-USE BREAKDOWN BY BUILDING TYPE

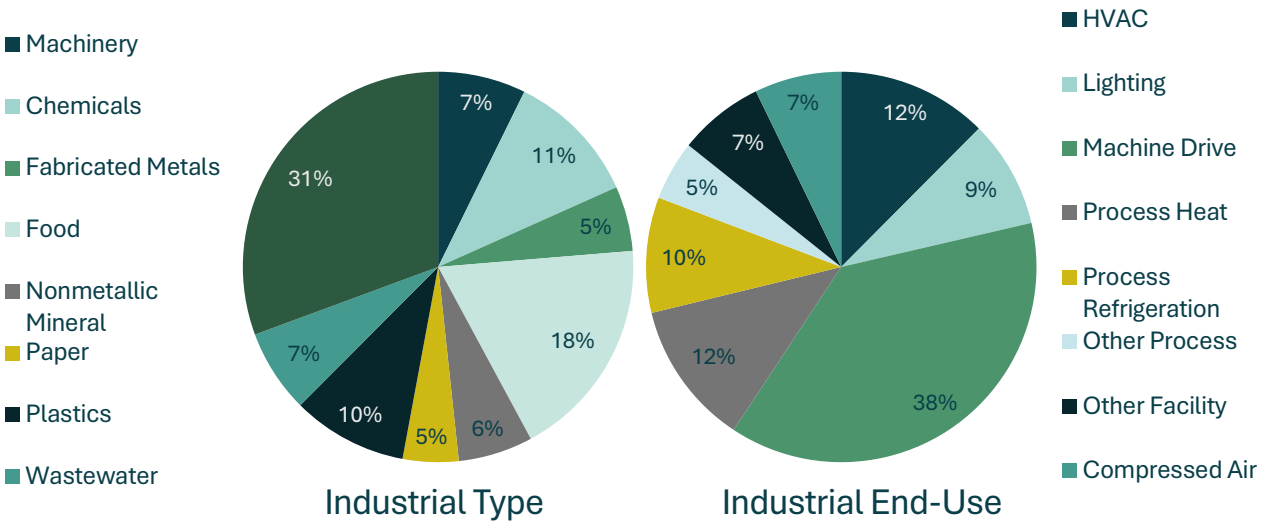


FIGURE 3-6. COMMERCIAL ELECTRIC SALES BY END-USE

04 ENERGY EFFICIENCY POTENTIAL ANALYSIS

4.1 ANALYSIS APPROACH[20]

This section describes the overall methodology proposed to assess the electric energy efficiency potential for market-rate residential and business customers in the Ameren Missouri service area. Many of the methodological considerations discussed within this section are generally applicable to the demand response and DER analyses found in subsequent chapters of this report, with important distinctions in methodological approach noted in their respective chapters.

The main objectives of this Market Potential Study were to estimate the technical, economic, and several levels of achievable potential of energy efficiency (defined later in this section) in the Ameren Missouri service territory; and to quantify these estimates of potential in terms of MWh and MW savings, expected incremental and cumulative program participants, and associated costs, for each level of energy efficiency potential.[21] An overview of these results is found in subsequent sections and chapters of this report. Detailed appendices also provide a catalog of assumptions and annual outputs associated with this analysis.[22]

4.1.1 Overview of Approach

For the residential sector, GDS utilized a bottom-up approach to the modeling of energy efficiency potential, whereby measure-level estimates of costs, savings, and useful lives were used as the basis for developing the technical, economic, and achievable potential estimates. The measure data was used to build-up the technical potential, by applying the data to each relevant market segment. The measure data allowed for benefit-cost screening to assess economic potential, which was in turn used as the basis for achievable potential, taking into consideration incentives and estimates of annual adoption rates.

For the business sector, GDS employed a bottom-up modeling approach to first estimate measure-level savings, costs, and cost-effectiveness, and then applied measure savings to all applicable shares of energy load.

4.1.2 Market Characterization

The initial step in the analysis was to gather a clear understanding of the current market segments in the Ameren Missouri service area. The GDS team coordinated with Ameren Missouri to gather electric utility sales and customer data to define appropriate market sectors, market segments, vintages, saturation data and end uses.

The GDS team relied on market research conducted as part of the 2026 study to inform critical elements of the market potential study.[23] The research objectives of this effort were based on a gap analysis, conducted by the GDS Team, and subsequent prioritization of data needs.

4.1.2.1 Forecast Disaggregation

As noted in Chapter 3, through the development of the baseline forecasts, the GDS Team produced disaggregated forecasts by sector and end-use. The produced baseline forecasts were disaggregated by sector and then further segmented as follows[24]:

- **Residential.** The residential forecast was broken out by housing type between existing and new construction.

[20] 20 CSR 4240-20.050 (3)(I)
[21] 20 CSR 4240-20.050 (3)(G)3 through 5
[22] 20 CSR 4240-20.050 (3)(H); complete models will be provided to Ameren Missouri as a deliverable for this study.
[23] 20 CSR 4240-20.050 (2)
[24] 20 CSR 4240-20.050 (1)(A)1 , 20 CSR 4240-20.050 (3)(B)

- **Commercial.** Typically based on major Energy Information Administration (EIA) business types: retail, warehouse, food sales, office, lodging, health, food service, assembly, and education. Businesses that were identified as non-profit were also segmented separately and the eligible portions were included in the assessment of income-eligible potential under the business social services program.
- **Industrial.** As determined by actual load consumption shares and major industry types as defined by EIA's Manufacturing Energy Consumption Survey (MECS) data.[25]

The segmentation analysis was performed by applying Ameren Missouri-specific segment and end-use consumption shares, derived from Ameren Missouri's customer database and SIC code analysis (building segmentation), and by EIA Annual Energy Outlook (AEO) regional data and MECS data (end-use segmentation) to forecast year sales. Within the residential, commercial and industrial market segments, the produced forecasts were segmented by the major end uses shown in Table 4-1.

TABLE 4-1: ELECTRIC END-USE LOADS[26]

Residential	Commercial	Industrial
Heating	Interior Lighting	Lighting
Cooling	Exterior Lighting	HVAC
Water Heating	Refrigeration	Machine Drive
Cooking	Space Cooling	Process Heat
Refrigerator	Space Heating	Process Cool / Refrigeration
Freezer	Ventilation	Other Process
Dishwasher	Water Heating	Process – Machine Drive
Clothes Washer	Plug Loads / Office Equipment	Other Facility
Dryer	Cooking	Compressed Air
TV	Other	
Light	Whole Building / Behavioral	
Miscellaneous		

4.1.2.2 Eligible Opt-Out Customers

In Missouri, commercial or industrial customers with significant peak demand requirements and/or meet specific criteria (see Section 3.2.4) are eligible to opt out of utility-funded electric energy efficiency and demand response programs. In the Ameren Missouri service area, approximately 21% of commercial sales have opted out of utility-funded electric energy efficiency programs, while nearly 44% of industrial sales have opted out.[27]

Figure 4-1 shows the total sales for the business sector, as well as the sales, by sector that have currently opted out of paying the charge levied to support utility-administered energy efficiency programs. The portion of sales that have not opted out include both ineligible load (i.e. does not meet the eligibility requirement) as well as eligible load that has not opted out.

[25] Industrial sector potential was ultimately aggregated into an additional building type in the business sector analysis.
[26] 20 CSR 4240-20.050 (1)(A)3
[27] These percentages were calculated based on the 2024 Ameren Missouri business customer data and 2024 billing history. Note, the percentages are based on the redistributed C&I sales, as discussed in Section 3.2.4 of the report.

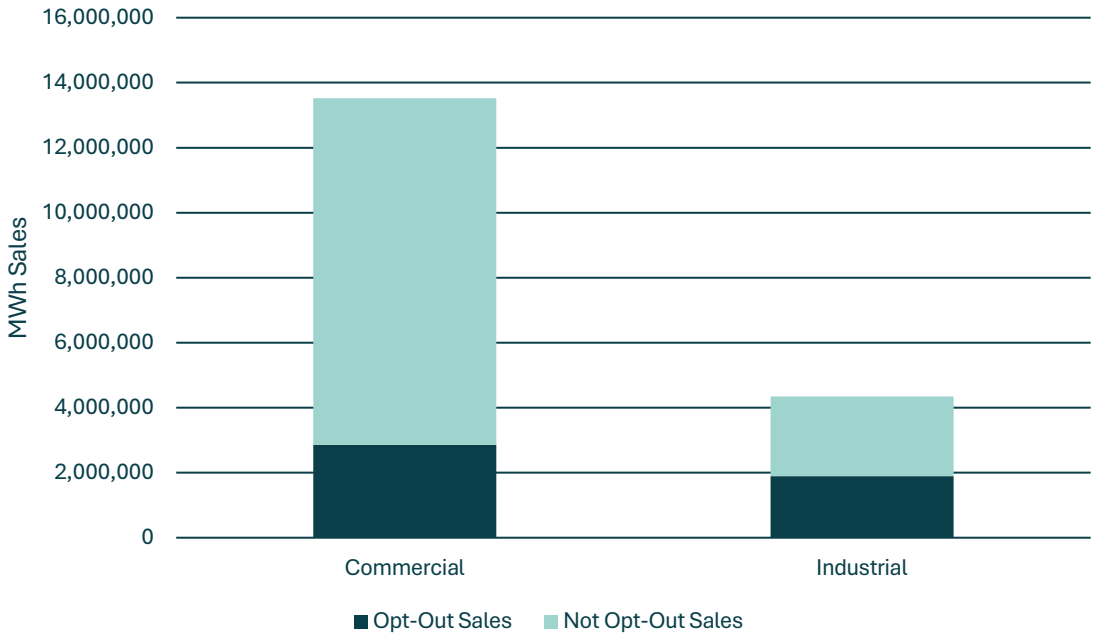


FIGURE 4-1 OPT-OUT SALES BY C&I SECTOR

The MPS focuses most report elements on the electric energy efficiency potential savings in the business sector excluding sales from opt-out customers. Results of business sector potential that includes savings from Ameren Missouri's opt-out customers are provided as a sensitivity later in this report.

4.1.2.3 Building Stock/Equipment Saturation

To assess the potential electric energy efficiency savings available, estimates of the current saturation of baseline equipment and energy efficiency measures are necessary.

4.1.2.3.1 Residential Sector

For the residential sector, GDS relied on the primary research from the 2026 study. This research allowed for the GDS Team to characterize the baseline and efficiency saturations of the residential sector using housing-type and income-type specific data in most cases. In some cases, the sample sizes were too small to provide estimates at this level of granularity, and in these cases either housing-type or income-type specific estimates are used.

Other data sources included ENERGY STAR unit shipment data, Ameren Missouri evaluation reports, and the EIA Residential Energy Consumption Survey data from 2020. The ENERGY STAR unit shipment data filled data gaps related to the increased saturation of energy efficient equipment across the U.S. in the last decade.

4.1.2.3.2 Business Sector

GDS primarily used the latest market research collected from the 2026 study, the 2025 Ameren Missouri Business Lighting opportunities report (see Appendix B) as well as data from the EIA Annual Energy Outlook (AEO) to inform two main assumptions for the potential study, the Base Case factor and saturation of efficient equipment.

The Base Case Factor is the fraction of the end use energy that is applicable for the efficient technology in given market segment. The EIA AEO data provides a regional forecast of energy consumption by end-use and equipment type (e.g. lighting type, major HVAC equipment, refrigeration equipment) that can be used to further disaggregate end-use sales to

major equipment type. This data was supplemented with data collected as part of Ameren Missouri's market research efforts. These studies collected counts for equipment and energy usage levels for the lighting, heating, cooling, water heating, motors and refrigeration end-uses.

GDS reviewed and developed additional base case factors for other end-uses through review of the DOE's Baseline Energy Calculator and the Energy Savings Potential and R&D Opportunities for Commercial Building Appliances (2015 Update) report developed by the U.S. Department of Energy (DOE). This report also provided end-use consumption estimates by equipment type for commercial cooking equipment, dishwashers, IT and office equipment, water heaters and commercial laundry equipment. Refrigeration base case factors were supplemented with data from DOE Refrigeration Study - Energy Savings Potential and Research & Development Opportunities for Commercial Refrigeration.

Data collected for the 2026 market research was leveraged to develop remaining factors for many of the measures. The ENERGY STAR® Unit Shipment and Market Penetration Report for Calendar Year 2023 was used to determine remaining factors for commercial cooking equipment, refrigerators and freezers, computer and data center equipment and commercial dishwashers.

4.1.2.4 Remaining Factor

The remaining factor is the proportion of a given market segment that is not yet efficient and can still be converted to an efficient alternative. It is, by definition, the inverse of the saturation of an energy efficient measure. This study makes several assumptions regarding the future potential of equipment that is already efficient, or will become efficient, over the analysis timeframe.

For measures that are not yet efficient, estimated savings reflect the initial measure assumptions developed as part of the MPS and are typically consistent with the Ameren Missouri submittal tool, and discussed in Section 4.1.3.3, below. The question, then, is whether there is any additional future potential to be quantified from homes/businesses that already possess an efficient measure. Consistent with the 2023 study and assumptions used to develop the load forecast used in this study (see Section 3.2.1), the team developed our models to allow a portion of these existing measures to be refilled, during their natural replacement cycle, by assuming that consumers will either backslide back to baseline technologies or that advances in the efficiency of equipment will enable new technologies, tiers, or improved standards to replace the current measure and allow for continued savings opportunities. Since the precise level of savings and measure characterizations for these future measures is not presently known, the methodology adopted assumes that subsequent equipment replacement that occurs over the course of the 20-year study timeframe, and at the end of the initial equipment's useful life, will continue to achieve similar levels of energy savings, relative to improved baselines, at similar incremental costs.

There are, of course, exceptions to this logic. Select measures were considered one-time efficiency opportunities and are not eligible to be replaced/refilled in the analysis once it has been initially converted to efficient status. Examples of these measures include variable frequency drives, motor controls, comprehensive residential retrofits, and most shell measures (insulation, air sealing, door improvements). Other exceptions in this study include measures that are known to be impacted by codes or standards or are considered to have reached the limit of technological advancements in efficiency (ex. LED Lighting, where future efficiency improvements are expected to be minimal compared to historic baselines) and miscellaneous residential electronics with high market penetration.

Last, we have also assumed that measures that are converted during early years of the analysis but reach the end of their useful life over the 20-year analysis timeframe, are also eligible for future installations assuming the same adjustment for future efficiency and/or costs and the same stated exceptions.

4.1.3 Measure Characterization

4.1.3.1 Measure Lists

The study's sector-level energy efficiency measure lists were informed by a range of sources. The primary resource for developing the measure included Ameren Missouri's most recent Submittal Tool/TRM. In addition to this resource, additional measures were considered for inclusion by referencing current Ameren Missouri program offerings, prior Ameren Missouri and other regional potential assessments and program offerings, other regional technical reference manuals, and commercially viable emerging technologies, among others.[28] Measure list development was a collaborative effort in which GDS developed a draft measure lists that was shared with Ameren Missouri for qualitative review. The final measure lists ultimately included in the study reflects the informed comments and considerations from the parties that participated in the measure list review process. The measure list for the residential income-eligible customers closely mirrored the measures included in the market-rate analysis. This ensures that a thorough review of remaining potential is not limited only to existing offerings to income-eligible customers and current program designs.

In total, GDS analyzed 183 residential and 170 business measure types for Ameren Missouri. To help inform future program planning and to align with existing offerings, many measures were included in the study as multiple permutations to account for different specific market segments, such as different building types, efficiency levels, and replacement/delivery options.[29] GDS developed a total of 2,891 measure permutations for this study. Each permutation was screened for cost-effectiveness according to the Total Resource Cost (TRC) Test. The parameters for cost-effectiveness under the TRC are discussed in detail later in Section 4.1.6. [30]

4.1.3.2 Emerging Technologies

GDS considered several specific emerging technologies as part of analyzing future potential.[31] In the residential sector, these technologies include several smart technologies, including connected lighting, smart window coverings, heat pump dryers, cool roofs[32] and smart vents/sensors. In the business sector, specific emerging technologies considered as part of the analysis include strategic energy management, advanced lighting controls, advanced rooftop controls, cool roofs and cloud-based energy information systems ("EIS"). While this is likely not an exhaustive list of possible emerging technologies over the next 20 years it does consider many of the known technologies that are available today but may not yet have widespread market acceptance and/or product availability.

In addition to these specific technologies, GDS acknowledges that there could be future opportunities for new technologies as equipment standards improve and market trends occur. To address this consideration, GDS also included a set of measures characterized in this study as "innovative" and are anticipated to potentially become commercially available during the study timeframe. These measures were phased into the study after 6 years, using the best available estimates of costs and savings to project long-term potential. While these may also be considered emerging technologies, the lack of commercial availability in the near-term necessitates a more long-term view of their potential, which is why GDS determined it was appropriate to include these measures but assume any savings would not accrue until 2033. The study's methodology also assumes that a subset of the equipment replacement that occurs over the course of the study timeframe, and at the end of the initial equipment's useful life, will continue to achieve similar levels of energy savings, relative to improved baselines, at similar incremental costs.

[28] 20 CSR 4240-20.050 (3)(A) ; 20 CSR 4240-20.050 (3)(C)
[29] 20 CSR 4240-20.050 (1)(A)2; 20 CSR 4240-20.050 (3)(E)
[30] 20 CSR 4240-20.050 (5)(B)
[31] 20 CSR 4240-20.050 (1)(E)1; 20 CSR 4240-20.050 (3)(C)
[32] EO-2023-0099 1A (Special Contemporary Issues)

4.1.3.3 Assumptions & Sources

A significant amount of data is needed to estimate the electric savings potential for individual energy efficiency measures or programs across the residential market-rate and business sectors. GDS utilized data specific to Ameren Missouri when possible. Evaluation report findings and the Ameren Missouri Submittal Tool/TRM were leveraged to the extent feasible – additional data sources were only used if these first two sources either did not address a certain measure or contained outdated information. Following the collection of primary market research, select fields in the Ameren Missouri Submittal Tool were updated to incorporate the latest findings.

Additional sources for measure data included the Illinois TRM and the Michigan Energy Measures Database (MEMD). Additional source documents also included American Council for an Energy-Efficient Economy (ACEEE) research reports covering topics like emerging technologies.

Considerable effort was expended to identify, review, and document all available data sources in the development of reasonable and supportable assumptions regarding measure lives; measure costs (incremental or full costs as appropriate); measure electric savings; and saturations for each energy efficiency measure included in the final list of measures examined in this study. [33]

Measure Savings[34]: GDS relied primarily on the Ameren Missouri Submittal Tool as well as the latest Ameren Missouri evaluation report findings and collected primary research to inform calculations supporting estimates of annual measure demand and energy reduction impacts as a percentage of base equipment usage. For measures not included in the Ameren Missouri Submittal Tool, GDS estimated savings from a variety of sources, including:

- Illinois TRM, MEMD
- Engineering analyses
- Secondary sources such as the ACEEE, DOE, EIA, ENERGY STAR©, and other technical potential studies

For each measure, estimates of annual energy and demand reductions are characterized to provide seasonal peak impacts.[35]

Measure Costs[36]: Measure costs represent either incremental or full costs. These costs typically include the incremental cost of measure installation, when appropriate based on the measure definition. For purposes of this study, nominal measure costs held constant over time.

GDS obtained measure cost estimates primarily from Ameren Missouri program planning databases and evaluation reports. GDS also used the following data sources to supplement measure cost data:

- Illinois TRM, MEMD
- Secondary sources such as the ACEEE, ENERGY STAR, and National Renewable Energy Lab (NREL)
- Program evaluation and market assessment reports completed for other utilities

Costs and savings for new construction and replace on burnout measures were calculated as the incremental difference between the federal minimum efficiency standard (where applicable) and the energy efficiency measure. This approach was utilized because the consumer must select an efficiency level that is at least equal to the federal minimum efficiency standard when purchasing new equipment. The incremental cost is calculated as the difference between the cost of high efficiency and standard efficiency (code compliant) equipment. However, for retrofit or direct install measures, the

[33] The appendices and supporting databases to this report provide the data sources used by GDS to obtain up-to-date data on energy efficiency measure costs, savings, useful lives and saturations.
[34] 20 CSR 4240-20.050 (3)(G)1
[35] 20 CSR 4240-20.050 (6)(B); Hourly load shapes of energy impacts will be developed for inputs into the IRP as needed.
[36] 20 CSR 4240-20.050 (3)(G)5A

measure cost was the "full" cost of the measure, as the baseline scenario assumes the consumer would not make energy efficiency improvements in the absence of a program. In general, the savings for retrofit measures are calculated as the difference between the energy use of the removed equipment and the energy use of the new high efficiency equipment (until the removed equipment would have reached the end of its useful life).

Measure Life: Measure life represents the number of years that energy using equipment is expected to operate. GDS obtained measure life estimates from the Ameren Missouri Submittal Tool and used the following data sources for any additional measures:

- Illinois TRM, MEMD, and other regional/state TRMs
- Manufacturer data
- Savings calculators and life-cycle cost analyses

All measure savings, costs, and useful life assumption sources for residential market-rate and business sectors are documented in Appendix C and Appendix D.

4.1.3.4 Treatment of Codes & Standards

By law, the DOE is expected to review each national appliance standard every six years and publish either a proposed rule to update the standard or determine that no change to the existing standard is needed. The analysis is not intended to predict how or when energy codes and standards will change over time. Therefore, there are only limited known improvements to federal codes and standards to reasonably account for in this analysis.[37]

4.1.4 Types of Potential

Potential studies often distinguish between several types of energy efficiency potential: technical, economic, achievable, and program. However, because there are often important definitional issues between studies, it is important to understand the definition and scope of each potential estimate as it applies to this analysis.

Figure 4-2 illustrates the types of energy efficiency potential that were considered in this analysis.

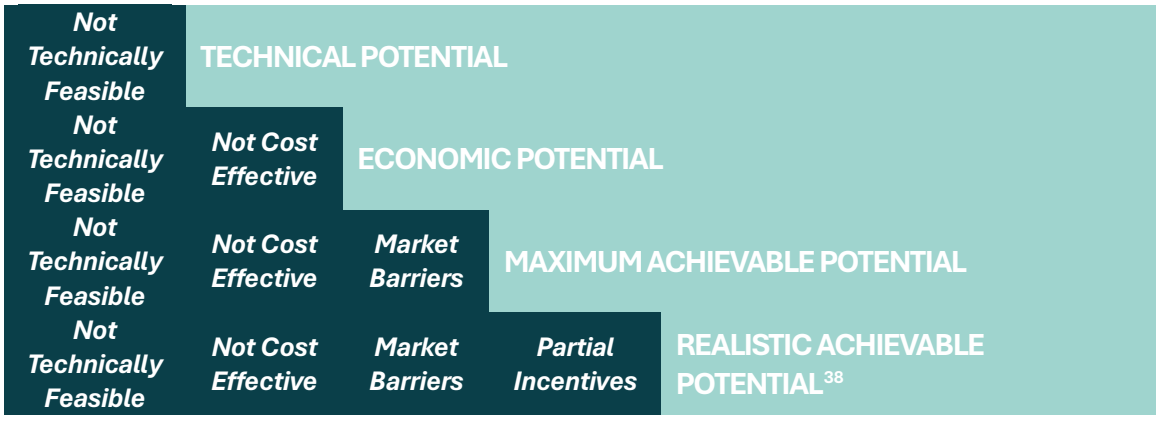


FIGURE 4-2: TYPE OF ENERGY EFFICIENCY POTENTIAL[39]

[37] 20 CSR 4240-20.050 (3)(C)
[38] Realistic Achievable Potential ("RAP"), Less than RAP +25% ("LRAP +25%"), and Less than RAP ("LRAP"). The two Less than RAP scenarios are defined in Section 4.1.7 of the report.
[39] Reproduced from "Guide to Resource Planning with Energy Efficiency." November 2007. US Environmental Protection Agency (EPA). Figure 2-1. Modified to depict the additional levels of achievable and program potential included in this study.

The first two types of potential, technical and economic, provide a theoretical upper bound for energy savings from energy efficiency measures. Still, even the best-designed portfolio of programs is unlikely to capture 100% of the technical or economic potential. Therefore, achievable and program potential attempts to estimate what savings may realistically be achieved through market interventions, when it can be captured, and how much it would cost to do so. In this analysis, achievable and program potential included an assessment of maximum and realistic achievable potential, with maximum achievable assuming aggressive incentive levels and optimistic delivery conditions and realistic achievable potential closely calibrated to historical incentive levels and current program awareness. Two additional achievable scenarios were included in this study. These additional scenarios are subsets of realistic achievable potential and are defined in Section 4.1.7 below.

4.1.5 Technical Potential

Technical potential is the theoretical maximum amount of energy use that could be displaced by efficiency, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end users to adopt the efficiency measures. Technical potential only constrained by factors such as technical feasibility of measures. Under technical potential, GDS will assume that 100% of new construction and market opportunity measures are adopted as those opportunities become available (e.g., as new buildings are constructed, they immediately adopt efficiency measures, or as existing measures reach the end of their useful life). For retrofit measures, implementation will be assumed to be resource constrained and that it is not possible to install all retrofit measures all at once. Rather, retrofit opportunities will be assumed to be replaced incrementally until 100% of stock will be converted to the efficient measure over a period of no more than 20 years.

The core equation used in the residential sector energy efficiency technical potential analysis for each individual efficiency measure is shown in Equation 4-1 below. The business (C&I) sector employs a similar analytical approach.

EQUATION 4-1 CORE EQUATION FOR RESIDENTIAL SECTOR TECHNICAL POTENTIAL



Where…

- **Base Case Equipment End-Use Intensity** = The annual electricity consumption per customer associated with each base-case technology in each market segment. This represents the electrical energy use of the equipment that the efficient technology would replace or affect
- **Saturation Share** = The fraction of total end-use electricity consumption in a given market segment that is applicable to the efficient technology. For example, for residential water heating, this would be the fraction of residential electric customers who use electric water heating
- **Remaining Factor =** The fraction of existing equipment that is not already energy efficient. Continuing the example above, this represents the share of electric water heaters that do not meet current efficiency standards.
- **Feasibility Factor** = (also functions as the applicability factor) the fraction of applicable units for which conversion to the most efficient available technology is technically feasible from an engineering perspective. For instance, space or structural constraints may limit the installation of heat pump water heaters in some homes.
- **Savings Factor** = the percentage reduction in electricity consumption resulting from the adoption of the efficient technology.

4.1.5.1 Competing Measures & Interactive Effects Adjustments[40]

GDS prevents double-counting of savings, and accounts for competing measures and interactive savings effects, through three primary adjustment factors:

Baseline Saturation Adjustment. Competing measure shares may be factored into the baseline saturation estimates. For example, nearly all homes can receive insulation, but the analysis will create multiple measure permutations to account for varying impacts of different heating/cooling combinations and will apply baseline saturations to reflect proportions of households with each heating/cooling combination.

Applicability/Feasibility Factor Adjustment. GDS will combine measures into measure groups, where total applicability factor across measures is set to 100%. In instances where there are two (or more) competing technologies for the same electrical end use, such as central heat pumps with different tiers of efficiency, an applicability factor aids in determining the proportion of the available population assigned to each measure. In estimating the technical potential, applicability factors are determined by estimated measure-level cost-effectiveness. The applicability factors for Economic Potential, and the Achievable Potential scenarios are further adjusted to account for measures that may not pass cost-effectiveness screening results.

Interactive Savings Adjustment. As savings are introduced from select measures, the per-unit savings from other measures in the same measure groups and end uses need to be adjusted (downward) to avoid over-counting. For example, the savings from building shell measures are adjusted down to reflect the efficiency gains of installing efficient HVAC equipment. Another offered example is that savings from lighting controls are adjusted downward to account for savings for LED retrofits. These impacts are accounted for in all phases of estimated potential savings.

4.1.6 Economic Potential[41]

Economic potential refers to the subset of the technical potential that is economically cost-effective (based on screening with the TRC Test) as compared to conventional supply-side energy resources. Both technical and economic potential ignore market barriers to ensuring actual implementation of energy efficiency. Finally, they typically only consider the costs of efficiency measures themselves, ignoring any programmatic costs (e.g., marketing, analysis, administration, program evaluation, etc.) that would be necessary to capture them.

The State of Missouri Revised Statutes, Chapter 393, Section 393.1075.1, states that "The commission shall consider the total resource cost test a preferred cost-effectiveness test." The TRC test calculations in this study follow the prescribed methodology detailed in the latest version of the California Standard Practice Manual (CA SPM). The California Standard Practice Manual establishes standard procedures for cost-effectiveness evaluations for utility-sponsored or public benefits programs and is generally considered to be an authoritative source for defining cost-effectiveness criteria and methodology. This manual is often referenced by many other states and utilities.

Although the TRC Test was used as the primary screening test for measure, program, and portfolio cost-effectiveness for inclusion in economic, achievable, and program potential, measure level screening results for the Utility Cost Test (UCT) and Participant Cost Test (PCT) are also provided in the appendices of this report. [42] In each year of the analysis, the benefits of each measure are calculated as the cumulative energy and demand impact multiplied by all applicable avoided costs; the net present value of annual lifetime benefits are then compared against the cost of each measure.[43] Further definitions of the tests are outlined below:

[40] 20 CSR 4240-20.050 (3)(G)2
[41] 20 CSR 4240-20.050 (5)
[42] 20 CSR 4240-20.050 (5)(B); 20 CSR 4240-20.050 (5)(C); 20 CSR 4240-20.050 (5)(E)-(G)
[43] 20 CSR 4240-20.050 (5)(A)

The TRC test measures benefits and costs from the perspective of the utility and society as a whole. The benefits include the net present value of the energy and capacity saved by the measures but exclude any natural gas or other fossil fuel benefits. The forecast of hourly electric avoided costs of energy and seasonal capacity were obtained from Ameren Missouri and represent their most recent forecast of avoided electric benefits.[44] The costs are the net present value of all costs to implement those measures. These costs include full incremental costs (both utility and participant contributions), but no incentive payments that offset incremental costs to customers and no lost revenues.[45] The full incremental costs include single upfront costs and operational & maintenance costs where applicable. While non-incentive costs were not included in the measure-level screening of electric energy efficiency potential, they were included in further assessments of potential at the achievable and/or program potential level. Programs passing the TRC test (that is, having a B/C ratio greater than 1.0) result in a decrease in the total cost of energy services to electric ratepayers.[46]

The UCT, also referred to as the Program Administrator Cost Test (PACT) measures the costs and benefits from the perspective of the utility administering the program. As such, this test is characterized as the revenue requirement test. Benefits are the net present value of the avoided energy and capacity costs resulting from the implementation of the measures. Costs are the administrative, marketing and evaluation costs resulting from program implementation along with the costs of incentives but do not include lost revenues.[47] Programs passing the UCT result in overall net benefits to the utility, thus making the program worthwhile from a utility cost accounting perspective.

The PCT measures the benefits and costs from the perspective of program participants, or customers. Benefits are the net present value savings that participating customers receive on their electric bills as a result of the implementation of the energy efficiency and demand response measures plus incentives received by the customer. Costs are the customer's up-front net capital costs to install the measures. If the customer receives some form of a rebate incentive, then those costs are considered as a credit to the customer and are added to the customer's total benefits.

All measures that are not found to be cost-effective based on the results of the measure-level cost effectiveness screening were excluded from the economic and achievable potential. Feasibility factors were then re-adjusted and applied to the remaining measures that are cost effective, where appropriate.

For measures applicable to the income-qualified segment of the residential sector, any measure that was offered via Ameren Missouri's income-eligible program was not required to have a TRC benefit-cost ratio greater than 1.0 (i.e. net benefits are greater than costs).[48]

4.1.7 Achievable Potential[49]

Achievable potential is the amount of energy that can realistically be saved given various market barriers. Achievable potential considers real-world barriers to encouraging end users to adopt efficiency measures; the non-measure costs of delivering programs (for administration, marketing, analysis, and EM&V); and the capability of programs and administrators to boost program activity over time. Barriers include financial, customer awareness and willingness to participate in programs, technical constraints, and other barriers the "program intervention" is modeled to overcome.

[44] 20 CSR 4240-20.050 (5)(A)1 through 3; the MPS makes use of the avoided cost forecast provided by Ameren Missouri, and includes avoided capacity, transmission and distribution, and avoided energy. Ameren separately documents the methods and assumptions supporting the development of their avoided cost forecast in their IRP. The base avoided costs do not explicitly include any value for reduced carbon emissions. The MPS includes a sensitivity on avoided costs that could be considered as an examination of the potential impacts of additional environmental costs and the IRP, itself, is also expected to assess these impacts.
[45] 20 CSR 4240-20.050 (5)(B)(1); 20 CSR 4240-20.050 (5)(B)(3)
[46] 20 CSR 4240-20.050 (5)(D)
[47] 20 CSR 4240-20.050 (5)(C)1; 20 CSR 4240-20.050 (5)(C)2
[48] 20 CSR 4240-20.050 (5)(D)
[49] 20 CSR 4240-20.050 (2)(G)5B

Additional considerations include political and/or regulatory constraints. The potential study evaluated four achievable potential scenarios:

- **Maximum Achievable Potential** ("MAP) estimates achievable potential from aggressive adoption rates based on paying incentives equal to 100% of measure incremental costs and increased program awareness.
- **Realistic Achievable Potential** ("RAP") estimates achievable potential with Ameren Missouri paying incentive levels (as a percent of incremental measure costs) and program awareness closely calibrated to historical levels but is not constrained by any previously determined spending levels.
- **Less than Realistic Achievable Potential – 25% FILL** ("LRAP +25%") is a subset of the RAP scenario, but includes an uplift in spending compared to the LRAP scenario, whereby 25% of the difference in annual budget between RAP and LRAP is included and used to focus on measures with lower costs per MW saved (i.e. targets the most cost-effective end-uses that are in the RAP scenario but not the LRAP scenario).
- **Less than Realistic Achievable Potential – MEEIA** ("LRAP") is also a subset of the RAP scenario but only includes measures that are part of the MEEIA 4 plan. Measures that are part of the RAP scenario but are not part of the MEEIA 4 plan are dropped from the analysis.

4.1.7.1 Market Adoption Rates

The assumed level of customer participation (take rate) for each energy efficiency measure is a key driver of achievable potential estimates. To inform estimates of future market adoption, the GDS Team relied on both the historical achievements of Ameren Missouri in prior years, as well as measure specific final adoption rates that were developed primary market research activities conducted for the 2026 study.[50] The historical benchmarking provides a point-estimate to serve as an initial "ground floor" market adoption rate while the final adoption rates from the market research reflect the presence of possible market barriers and associated difficulties in achieving the 100% market adoption assumed in the technical and economic scenarios. Addition detail, including an example demonstrating how the final market adoption curve was developed is provided below. A complete list of annual market adoption rates by measures are included in appendices to this report.

Initial Year Measure Adoption. First year adoption levels were informed either by recent historical[51] or planned performance (where possible) or by the primary market research indicating the current saturation of energy efficient equipment.

Long-Term Market Adoption Rates. The final adoption scores that resulted from the willingness-to-participate (WTP) surveys serve as the point-estimate for the long-term market adoption potential for the realistic achievable scenario. Final adoption score calculations were based on a battery of questions which assessed (1) the respondent's willingness to adopt energy efficiency technologies or participate in demand response programs in scenarios with varying levels of program support, (2) the magnitude of the respondent's financial and non-financial barriers to adoption/participation, and (3) their awareness of Ameren Missouri energy efficiency programs and/or high efficiency technologies. Measure specific final adoption scores in the RAP scenario were based on the assumed current incentive level.

For the maximum achievable scenario, the final adoption score was adjusted upward, assuming an increase in customer awareness of Ameren Missouri programs and/or technologies. Specifically, the MAP scenario assumed an awareness factor adjustment of between 73% and 85% or maintained the original awareness factor score if it already exceeded the target awareness factor.

[50] 20 CSR 4240-20.050 (2)

[51] GDS performed a historical benchmarking and variance analysis between Ameren Missouri's evaluated performance relative to estimates of potential included in the 2020 study. This variance analysis helped to identify measures with significant variation between prior potential models and actual results.

Adoption Curve. Once the initial year adoption rate (Point A) and long-term adoption rates (Point B) are determined, the remaining step was to determine the rate and duration to get from Point A to Point B. The 2026 study employed a standard s-curve that was set to 20 years in the achievable potential scenarios with the end-point estimate from the market research conducted for the 2026 study. The 1st year point estimate is then used to establish the number of years remaining to reach the long-term adoption rate and the slop of adoption. A key underlying assumption informing the adoption curves is the continuation of program delivery over time. An interruption or cancellation of programs for a period of years can fully or partially reset the adoption curves, leading to lower adoption rates if programs are re-started at a later time.

4.1.7.2 Program Costs[52]

In the achievable and program potential analysis, incentive level (as a % of incremental measure cost) assumptions were based off of a review of historical incentive levels and the current MEEIA 4 plan.

- In the residential sector, incentives by program ranged from 30% to 96% and averaged 63%.
- In the non-residential sector, prescriptive incentives averaged approximately 52% of the measure cost for in the RAP scenarios.
- At the measure level, incentives ranged from $0.12-$0.35 per first-year kWh saved.
- In the MAP scenario, incentives were increased up to 100% of the incremental measure cost

Utility non-incentive costs were included in the overall assessment of cost-effectiveness at the RAP scenario. Program non-incentive costs were calibrated to recent projected levels MEEIA 4 plan estimates as shown in the Table 4-2 below.

TABLE 4-2: NON-INCENTIVE COSTS BY PROGRAM

Program	Non-Incentive Cost
Business	$0.08
PAYS	$0.208
MFIE	$0.144
SFIE	$0.148
Other Residential	$0.099

4.1.8 Program Potential

Program potential includes the allocation and bundling of individual measures into specific program concepts to support Ameren Missouri's program planning process. All cost-effective measures across all end-uses were bundled into programs based on a mapping to existing Ameren Missouri programs or new programs, if necessary.[53] Program potential cases were created based on the RAP and MAP achievable potentials.

4.1.8.1 Net to Gross (NTG)

All estimates of technical and economic potential, as well as measure level cost-effectiveness screening are conducted in terms of gross savings to reflect the absence of program design considerations in these phases of the analysis. The initial estimates of maximum and program achievable potential are also presented in the context of gross savings. Program Potential MAP and RAP are, however, presented in terms of net savings to reflect the importance of program design in overcoming market barriers to participation.

Net energy savings consider free-riders (participants who would have installed the high efficiency option in the absence of the program) and spillover customers (participants who install efficiency measures due to program activities, but never receive a program incentive). Measure net-to-gross ratios were based on the most recent evaluation findings of Ameren Missouri's

[52] 20 CSR 4240-20.050 (3)(G)5D - 20 CSR 4240-20.050 (3)(G)5F
[53] 20 CSR 4240-20.050 (1)(B) ; 20 CSR 4240-20.050 (3)(C)

efficiency programs and mapped to individual measures in both the residential market rate and business sector. Assumed net to gross ratios for each measure are based on a combination of the most recent MEEIA 4 plan and historical evaluation results. The application of NTG ratios, as well as a shift in reporting from end-use detail to program offering, are the sole differences between the estimates of MAP/RAP and Program Potential MAP/RAP in this report.

4.2 RESIDENTIAL ENERGY EFFICIENCY POTENTIAL

This section provides the potential results for technical, economic, and achievable potential for the residential sector. Incremental and cumulative data is provided. Results are shown by end use and building type.

4.2.1 Scope of Measures & End Uses Analyzed

There were 183 total unique residential electric measures included in the analysis. Table 4-3 provides the number of unique measures by end-use. The measure list was developed based on a review of current Ameren Missouri programs, the Illinois TRM, other regional TRMs, and industry documents related to emerging technologies. Data collection activities to characterize measures formed the basis of the assessment of incremental costs, electric energy and demand savings, and measure life.

TABLE 4-3: RESIDENTIAL ENERGY EFFICIENCY MEASURES – BY END USE

End-Use	Number of Unique Measures	Number of Permutations
Appliances	12	102
Behavior	3	6
Building Shell	60	234
HVAC	73	647
Lighting	15	100
New Construction	2	4
Plug Loads	4	24
Pools	4	22
Water Heating	10	52
Total	**183**	**1,191**

4.2.2 Summary of Residential Electric Potential

Figure 4-3 provides the technical, economic, and achievable potential results for the 3-year, 10-year, and 20-year timeframes. The respective 20-yr technical and economic potential is 34% and 31% of residential sector sales. The MAP grows to 16% over twenty years, while the RAP reaches 11%. The LRAP +25% and LRAP scenarios reach 7% and 5%, respectively, over the study timeframe. The gap between economic potential and MAP/RAP represents market barriers to prospective program participants, both financial and non-financial, to achieving the full amount of economic potential.

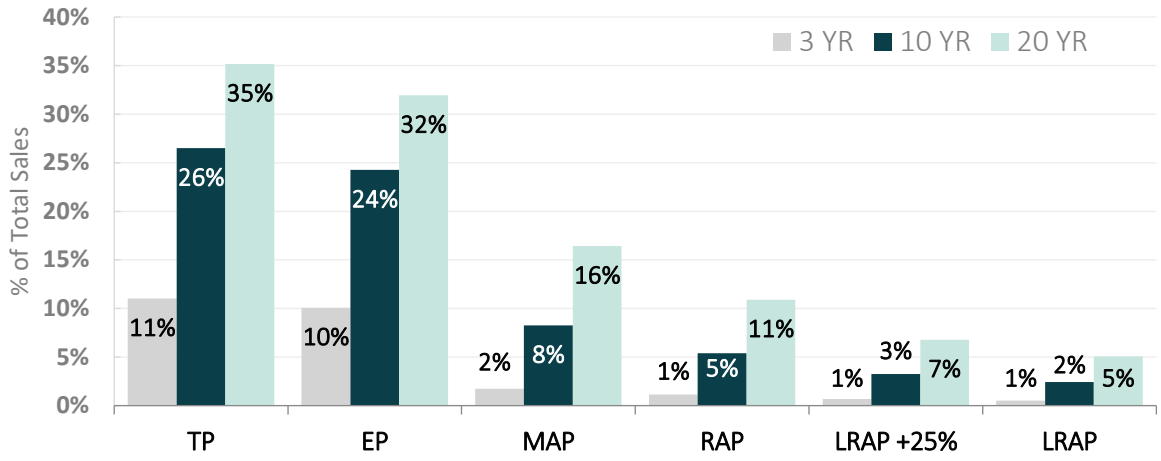


FIGURE 4-3: OVERVIEW OF RESIDENTIAL ENERGY EFFICIENCY POTENTIAL

Table 4-4 provides cumulative technical, economic, and achievable energy savings, in total MWh and as a percentage of the sector-level sales forecast. The MW demand savings for each level of potential are also provided. By 2029, the RAP is 65 MW in demand savings and 1.1% of sector sales with more than 145,000 MWh in estimated energy savings. By 2036, the estimated cumulative savings in the RAP scenario reaches 313 MW in demand savings and 5.4% of sector sales at more than 762,000 MWh.

TABLE 4-4: RESIDENTIAL CUMULATIVE ENERGY EFFICIENCY POTENTIAL SUMMARY

	2027	2028	2029	2036	2046
MW					
Technical	187	362	496	1,230	1,780
Economic	168	325	442	1,092	1,576
MAP	25	54	88	421	829
RAP	18	40	65	313	609
LRAP +25%	11	24	38	192	370
LRAP	8	18	29	143	267
MWh					
Technical	553,060	1,029,144	1,428,541	3,738,436	5,331,299
Economic	509,165	945,027	1,305,834	3,422,960	4,842,035
MAP	62,780	138,931	226,184	1,165,754	2,489,113
RAP	41,194	89,935	146,150	762,847	1,653,190
LRAP +25%	24,655	53,725	87,385	459,715	1,028,907
LRAP	18,739	40,745	66,238	340,721	767,009
Forecasted Sales	12,753,115	12,851,084	12,960,721	14,110,413	15,158,918
Energy Savings (as % of Forecast)					
Technical	4.3%	8.0%	11.0%	26.5%	35.2%
Economic	4.0%	7.4%	10.1%	24.3%	31.9%
MAP	0.5%	1.1%	1.7%	8.3%	16.4%
RAP	0.3%	0.7%	1.1%	5.4%	10.9%
LRAP +25%	0.2%	0.4%	0.7%	3.3%	6.8%
LRAP	0.1%	0.3%	0.5%	2.4%	5.1%

4.2.3 Detail of Residential Technical, Economic and Achievable Potential and Breakout by End Use

Table 4-5 provides cumulative technical, economic, and achievable potential results, by end-use, across the 20-yr study timeframe. The HVAC end use has the most potential in each scenario, with the Water Heating, Building Shell, and Appliances end uses also contributing a significant amount potential in each scenario.

TABLE 4-5: RESIDENTIAL ELECTRIC POTENTIAL – DETAIL BY END USE AND SCENARIO (MWH)

End-Use	Technical	Economic	MAP	RAP	LRAP +25%	LRAP
Appliances	459,087	452,099	235,156	174,897	75,515	34,737
Behavior	64,820	64,820	58,335	58,335	17,061	0
Building Shell	995,721	572,705	389,904	194,584	93,640	55,555
HVAC	2,738,331	2,680,117	1,271,207	1,016,107	705,434	568,757
Lighting	82,584	72,236	40,017	30,903	23,273	20,168
New Construction	69,540	67,875	24,672	12,160	3,646	0
Plug Loads	150,454	171,584	55,429	33,766	32,646	32,182
Pools	50,236	52,982	24,047	16,629	11,504	9,433
Water Heating	720,525	707,617	390,346	115,809	66,187	46,175
Total	5,331,299	4,842,035	2,489,113	1,653,190	1,028,907	767,009
Savings as % of Forecast	**35.2%**	**31.9%**	**16.4%**	**10.9%**	**6.8%**	**5.1%**

Figure 4-4 provides the RAP, LRAP +25% and LRAP across the 20-yr timeframe of the study. The lines provide the respective incremental annual RAP, LRAP +25% and LRAP in MWh per year energy savings. The corresponding bars provide the cumulative RAP, LRAP +25% and LRAP as a percentage of forecasted annual sector sales. The incremental RAP ranges from approximately 41,000 to 82,000 MWh over the first five years. The incremental LRAP +25% ranges from approximately 25,000 to 47,000 MWh, and the incremental LRAP ranges from approximately 19,000 to 34,000 MWh across the same timeframe.

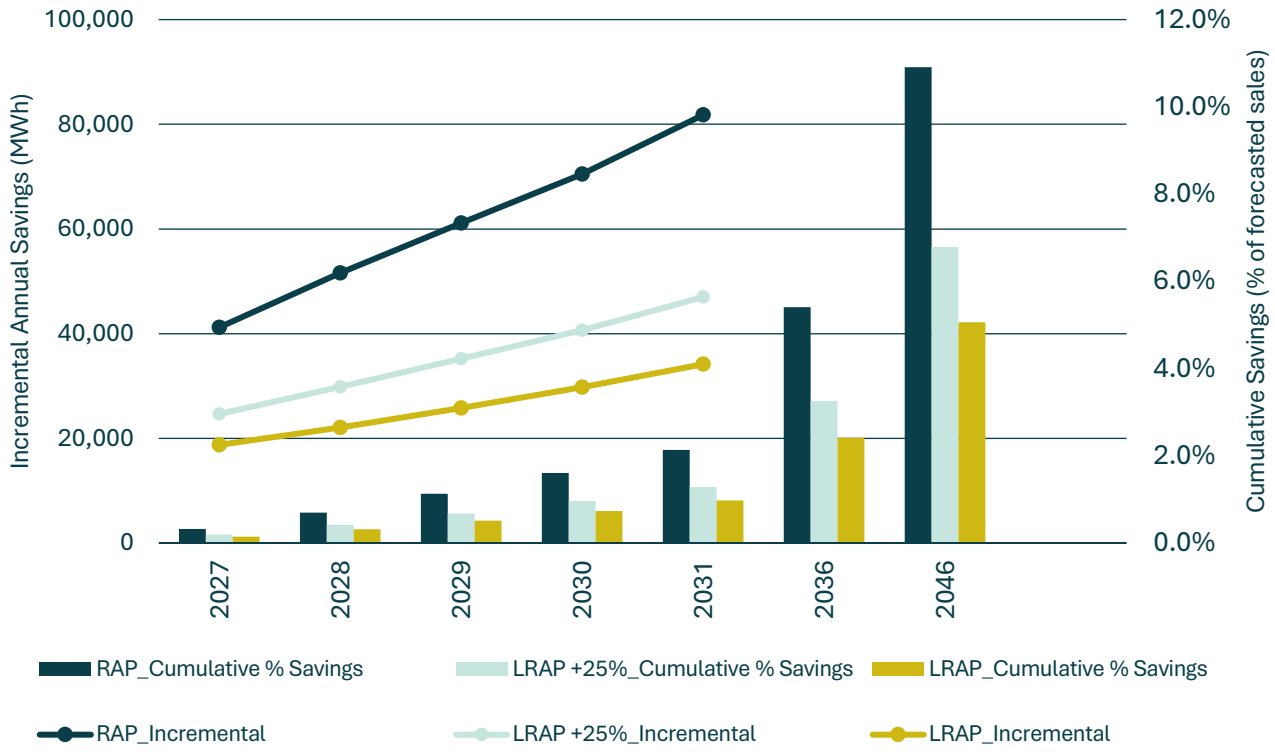


FIGURE 4-4: OVERVIEW OF ANNUAL RESIDENTIAL ACHIEVABLE POTENTIAL

Figure 4-5 provides a breakdown of the RAP potential in 2046 across end-uses. As in technical and economic potential, the HVAC is by far the leading end-use accounting for 61% of the total. Appliances account for 11%, Water Heating accounts for 7% and Building Shell accounts for an additional 12%. The remaining 9% is comprised of Lighting, Behavior, New Construction, Electronics and Pool measures.

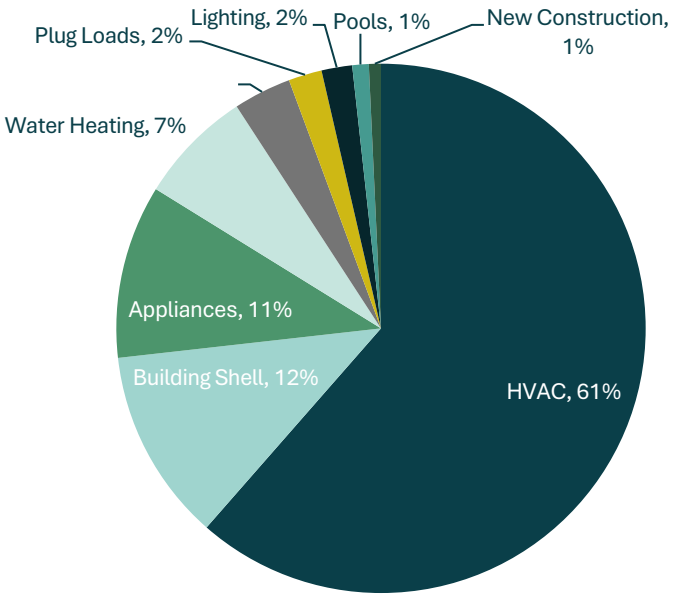


FIGURE 4-5: RESIDENTIAL REALISTIC ACHIEVABLE POTENTIAL BY END-USE AND – 20-YR CUMULATIVE

Table 4-6 provides additional end-use level detail for the incremental annual residential RAP. On an incremental annual basis, the RAP ranges from 0.3% to 0.7% over the first six years of the study, with more than half of the savings from the HVAC end use.

TABLE 4-6: RESIDENTIAL INCREMENTAL RAP – END USE DETAIL

End-Use	2027	2028	2029	2030	2031	2032
RAP Incremental Annual MWh						
Appliances	1,434	1,900	2,498	3,255	4,191	5,325
Behavior	2,787	3,828	5,221	7,057	9,424	12,392
Building Shell	7,685	9,752	10,573	11,130	11,774	13,363
HVAC	23,872	29,582	35,359	40,675	47,040	54,197
Lighting	569	838	944	1,030	1,154	1,433
New Construction	107	129	176	233	266	286
Plug Loads	1,819	1,939	1,874	1,789	1,738	1,852
Pools	123	165	221	291	377	481
Water Heating	2,798	3,484	4,249	5,002	5,811	6,615
Total	**41,194**	**51,617**	**61,115**	**70,463**	**81,777**	**95,944**
% of Forecasted Sales	**0.3%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.7%**

Figure 4-6 provides the share of potential in the residential sector by housing and income type. Single-family non-IQ homes account for 55% of the potential over the next 20 years. Low-income homes (all housing types) account for 31% of the potential. Multifamily non-IQ homes account for 11% of the potential, and new construction accounts for 3%.

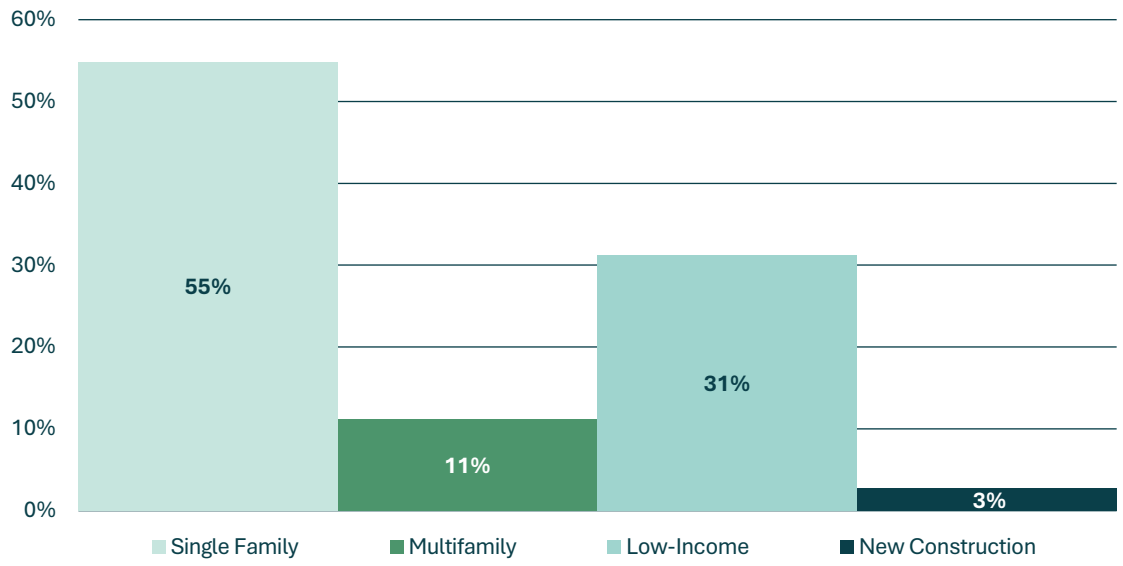


FIGURE 4-6: RESIDENTIAL ACHIEVABLE POTENTIAL BY BUILDING TYPE

4.3 BUSINESS ENERGY EFFICIENCY POTENTIAL

This section provides the potential results for technical, economic, and achievable potential for the business sector. Incremental and cumulative data is provided. Results are shown by end use and building type.

4.3.1 Scope of Measures & End Uses Analyzed

There were 170 total unique business electric measures included in the analysis. Table 4-7 provides the number of unique measures by end-use. The measure list was developed based on a review of current Ameren Missouri programs, the Illinois TRM, other regional TRMs, and industry documents related to emerging technologies. Data collection activities to characterize measures formed the basis of the assessment of incremental costs, electric energy and demand savings, and measure life.

TABLE 4-7: BUSINESS ENERGY EFFICIENCY MEASURES – BY END USE

End-Use	Number of Unique Measures	Number of Permutations
Compressed Air	7	77
Cooking	11	121
Hot Water	5	55
HVAC	39	429
Lighting	38	418
Miscellaneous	8	88
Plug Loads / Office	9	99
Refrigeration	26	286
Whole Building / Behavioral	10	110
Industrial	17	17
Total	**170**	**1700**

4.3.2 Summary of Business Electric Potential

Figure 4-7 provides the technical, economic, and achievable potential results for the 3-year, 10-year, and 20-year timeframes. The respective 20-yr technical and economic potential is 33% and 30% of commercial sector sales. The MAP grows to 18% over twenty years, while the RAP reaches 10%. The LRAP +25% and LRAP scenarios reach 4% and 3%, respectively, over the study timeframe. The gap between economic potential and MAP/RAP represents market barriers to prospective program participants, both financial and non-financial, to achieving the full amount of economic potential.

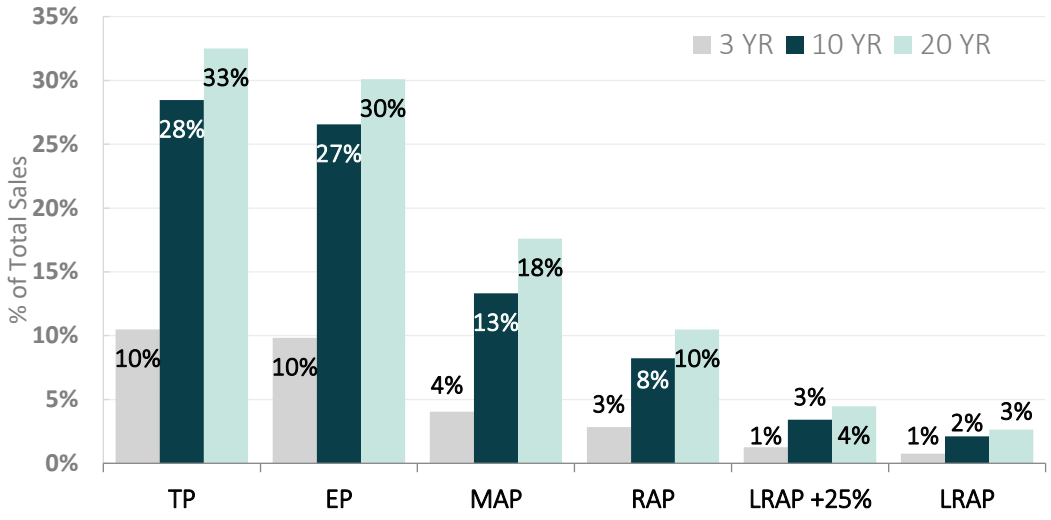


FIGURE 4-7: OVERVIEW OF BUSINESS ENERGY EFFICIENCY POTENTIAL

Table 4-8 provides cumulative technical, economic, and achievable energy savings, in total MWh and as a percentage of the sector-level sales forecast. The MW demand savings for each level of potential are also provided. By 2029, the RAP is 118 MW in demand savings and 2.8% of sector sales with more than 377,000 MWh in estimated energy savings. By 2036, the estimated cumulative savings in the RAP scenario reaches 370 MW in demand savings and 8.2% of sector sales at more than 1,100,000 MWh.

TABLE 4-8: BUSINESS CUMULATIVE ENERGY EFFICIENCY POTENTIAL SUMMARY

	2027	2028	2029	2036	2046
MW					
Technical	142	295	443	1,273	1,555
Economic	126	264	397	1,148	1,421
MAP	51	107	163	595	848
RAP	37	78	118	370	507
LRAP +25%	22	45	68	180	240
LRAP	10	21	31	83	100
MWh					
Technical	454,496	929,905	1,394,666	3,894,247	4,663,208
Economic	424,527	870,264	1,305,205	3,632,048	4,316,990
MAP	170,135	352,615	537,587	1,821,955	2,527,303
RAP	121,247	250,597	377,547	1,124,999	1,504,897
LRAP +25%	54,056	111,511	168,360	468,921	641,181

	2027	2028	2029	2036	2046
LRAP	31,659	65,149	99,586	287,658	377,499
Forecasted Sales	13,109,145	13,235,227	13,289,580	13,683,138	14,346,598
Energy Savings (as % of Forecast)					
Technical	3.5%	7.0%	10.5%	28.5%	32.5%
Economic	3.2%	6.6%	9.8%	26.5%	30.1%
MAP	1.3%	2.7%	4.0%	13.3%	17.6%
RAP	0.9%	1.9%	2.8%	8.2%	10.5%
LRAP +25%	0.4%	0.8%	1.3%	3.4%	4.5%
LRAP	0.2%	0.5%	0.7%	2.1%	2.6%

4.3.3 Detail of Business Technical, Economic and Achievable Potential and Breakout by End-Use

Table 4-9 provides cumulative technical, economic, and achievable potential results, by end-use, across the 20-yr study timeframe. Among MEEIA plan measures, HVAC is the leading end-use. Compressed Air, HotWater, Whole Building / Behavior and Miscellaneous end-uses also contribute to the LRAP scenario

TABLE 4-9: BUSINESS ELECTRIC POTENTIAL – DETAIL BY END USE AND SCENARIO (MWH)

End-Use	Technical	Economic	MAP	RAP	LRAP +25%	LRAP
Compressed Air	97,926	97,926	65,333	35,343	23,456	14,257
Cooking	43,650	43,499	23,180	17,672	9,212	2,833
Hot Water	91,827	91,827	50,523	26,422	20,203	15,258
HVAC	1,710,988	1,581,748	1,004,102	557,280	358,191	234,237
Lighting	1,098,760	1,030,105	533,931	336,245	4,827	4,827
Miscellaneous	312,562	211,163	125,763	70,710	55,546	55,546
Plug Loads / Office	154,677	154,677	80,235	60,737	0	0
Refrigeration	321,616	266,536	148,633	105,670	35,520	35,520
Motors/Machine Drive	162,071	162,071	84,099	46,899	19,963	0
Process	92,969	92,969	57,660	30,208	12,845	0
Whole Building/Behavior	576,160	584,468	353,844	217,710	101,418	15,022
Total	**4,663,208**	**4,316,990**	**2,527,303**	**1,504,897**	**641,181**	**377,499**
Savings as a % of Elig. Biz Forecast Sales	**33%**	**30%**	**18%**	**10%**	**4%**	**3%**

Figure 4-8 provides the RAP, LRAP +25% and LRAP across the 20-yr timeframe of the study. The lines provide the respective incremental annual RAP, LRAP +25% and LRAP in MWh per year energy savings. The corresponding bars provide the cumulative RAP, LRAP +25% and LRAP as a percentage of forecasted annual sector sales. The incremental RAP ranges from approximately 121,000 to 129,000 MWh over the first five years. The incremental LRAP +25% ranges from approximately 54,000 to 58,000 MWh, and the incremental LRAP ranges from approximately 32,000 to 34,000 MWh across the same timeframe.

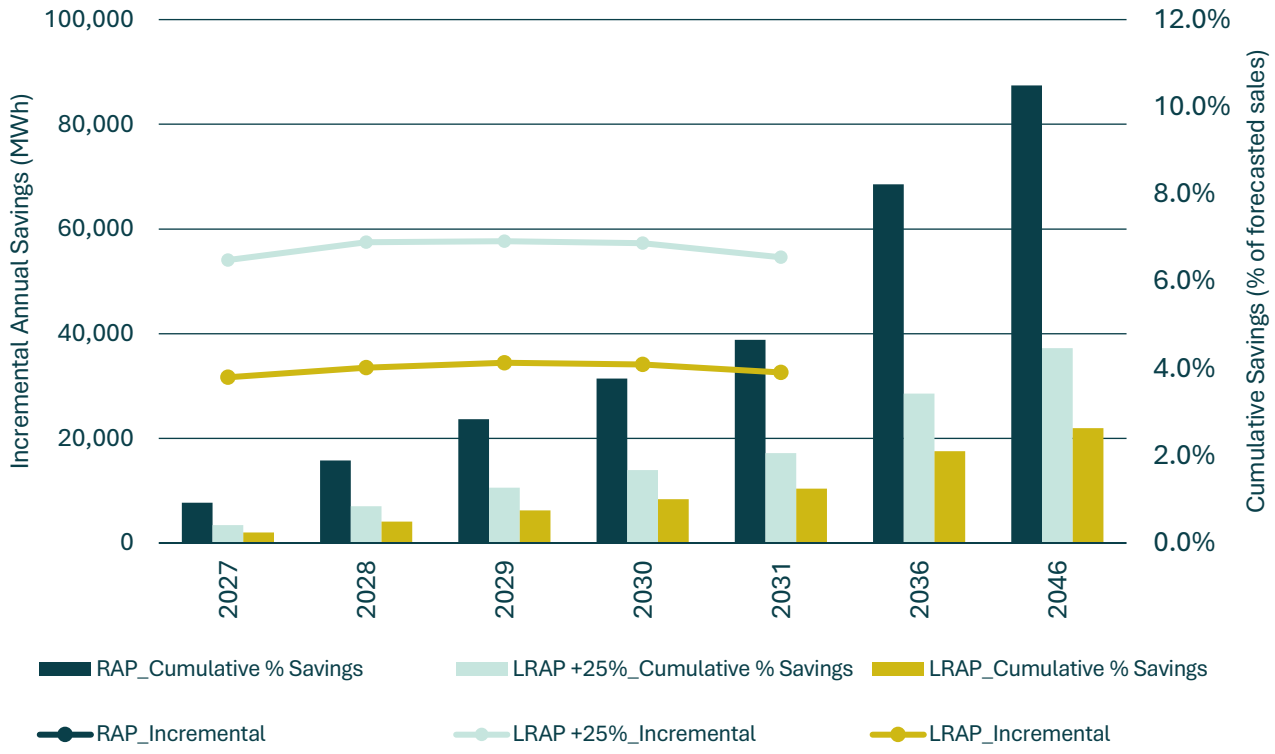


FIGURE 4-8: OVERVIEW OF ANNUAL BUSINESS ACHIEVABLE POTENTIAL

Figure 4-9 provides a breakdown of the RAP potential in 2046 across end-uses. As in technical and economic potential, the HVAC is by far the leading end-use accounting for 37% of the total, followed by Lighting at 22%. Whole Building / Behavioral and Refrigeration combine for another 21%. The remaining 20% is comprised of Plug Loads / Office, Motors, Compressed Air, Process, Hot Water and Cooking measures.

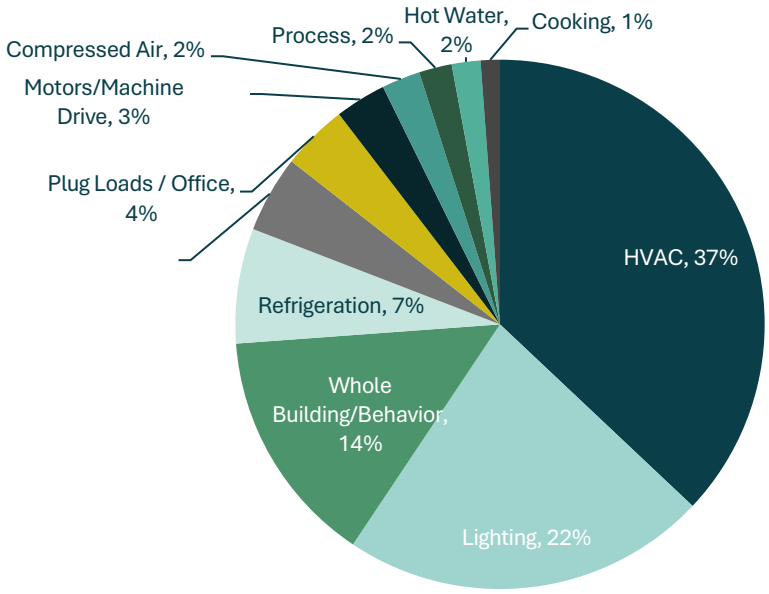


FIGURE 4-9: BUSINESS REALISTIC ACHIEVABLE POTENTIAL BY END-USE– 20-YR CUMULATIVE

Table 4-10 provides additional end-use level detail for the incremental annual business RAP. On an incremental annual basis, the RAP ranges from 0.8% to 0.9% over the first six years of the study, with about 70% of the savings coming from the HVAC and Lighting end uses.[54]

TABLE 4-10: BUSINESS INCREMENTAL RAP – END USE DETAIL

End-Use	2027	2028	2029	2030	2031	2032
Compressed Air	3,208	3,357	4,599	4,635	5,227	4,842
Cooking	276	366	471	590	719	856
Hot Water	1,053	1,287	1,498	1,684	1,842	1,825
HVAC	48,166	51,425	53,302	55,030	53,354	54,545
Lighting	46,404	45,426	42,861	39,231	34,940	30,031
Miscellaneous	4,638	4,714	4,676	4,562	4,403	4,229
Plug Loads / Office	1,111	1,670	1,861	2,000	2,207	2,763
Refrigeration	1,612	2,492	2,872	3,188	3,661	4,838
Motors/Machine Drive	787	1,023	1,292	1,806	2,162	2,513
Process	2,326	2,354	2,319	2,792	2,661	2,524
Whole Building/Behavior	11,666	15,234	12,436	13,724	12,773	16,267
Total	**121,247**	**129,349**	**128,189**	**129,242**	**123,949**	**125,233**
Savings as a % of Elig. Biz Forecast Sales	**0.8%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**

[54] The lighting end-use is largely absent from the two LRAP scenarios, as most of these measures are not in the MEEIA 4 plan.

Figure 4-10 provides the share of potential in the C&I sector by building type. Office buildings (22%) and Retail buildings (14%) have the most potential among all building types. Education (11%), Other (14%), and Industrial (11%) all have more than 10%. The remaining potential comes from Food Sales, Food Service, Health, Lodging, Warehouse, Assembly, and Business Social Services ("BSS") buildings.

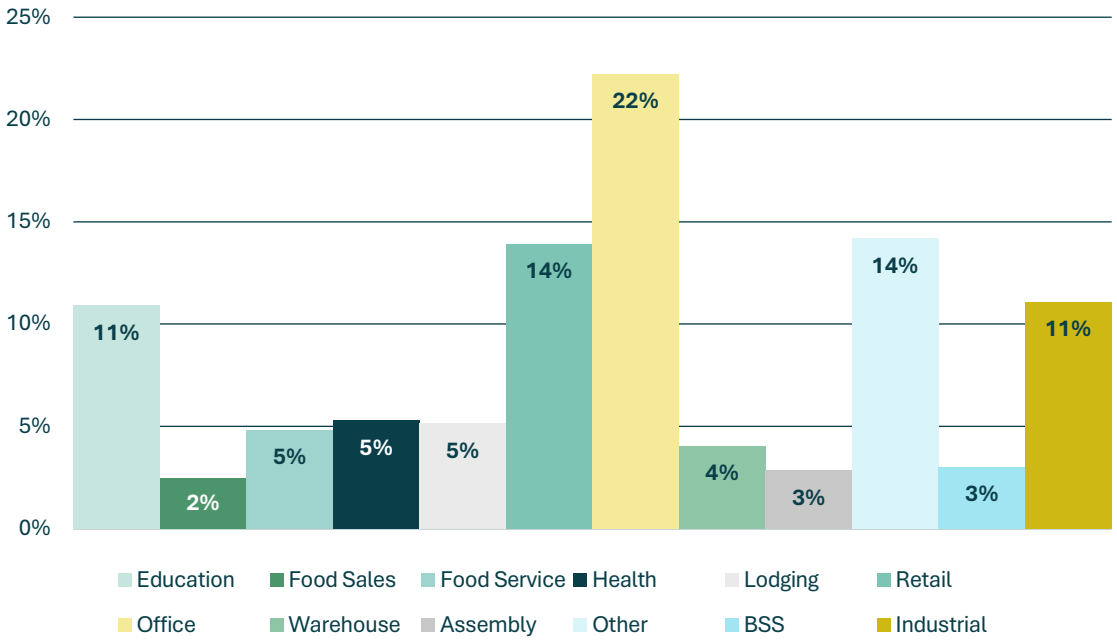


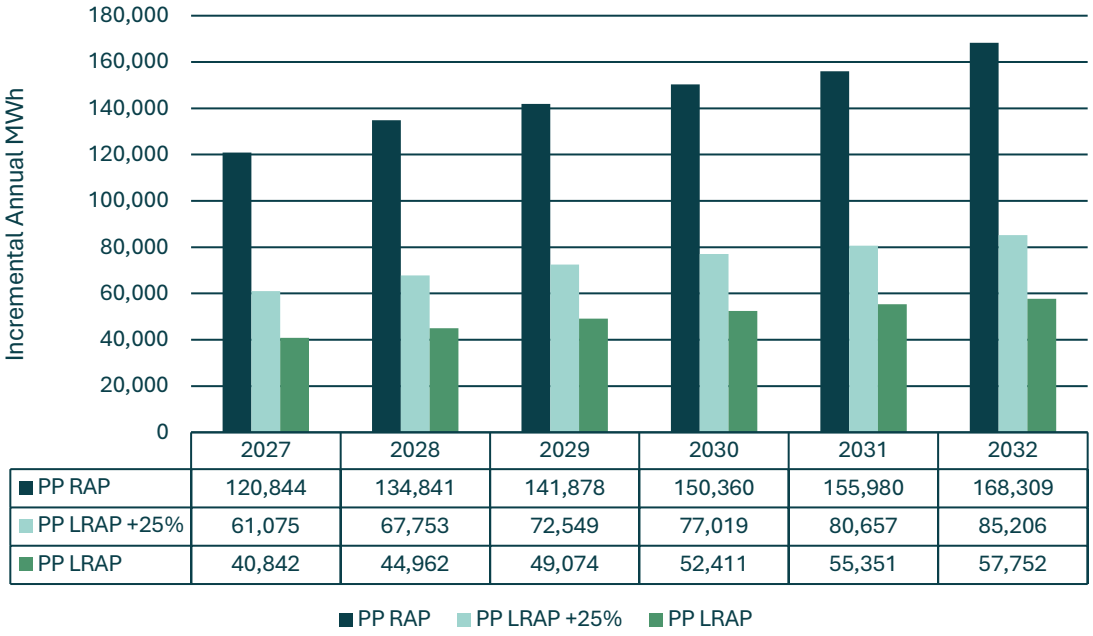
FIGURE 4-10: C&I ACHIEVABLE POTENTIAL BY BUILDING TYPE

4.4 PROGRAM POTENTIAL

This section of the report provides an overview of the program potential. The cumulative savings are shown across the study timeframe, in aggregate as well as by program within each sector. The benefits and costs of program potential are also provided. The program potential scenarios are based off the achievable potential scenarios and are referred to as PP RAP (based off of RAP) and PP LRAP +25% and PP LRAP.

4.4.1 Program Potential Savings

Figure 4-11 below illustrates the incremental annual program potential by sector over the next six years. The PP RAP ranges from 121,000 MWh to 168,000 MWh from 2027-2032. The program potential with only MEEIA 4 program measures included, PP LRAP, ranges from 41,000 to 58,000 MWh, and the PP LRAP +25% potential ranges from 61,000 MWh to 85,000 MWh.



	2027	2028	2029	2030	2031	2032
PP RAP	120,844	134,841	141,878	150,360	155,980	168,309
PP LRAP +25%	61,075	67,753	72,549	77,019	80,657	85,206
PP LRAP	40,842	44,962	49,074	52,411	55,351	57,752

FIGURE 4-11: PROGRAM POTENTIAL – PP RAP AND PP LRAP SCENARIOS

Figure 4-12 below illustrates the incremental annual energy savings in residential programs over the next six years. The potential in MEEIA 4 programs is shown in the shaded bars, representing the PAYS program, and the SFIE and MFIE programs.[55] The gap between the green line, PP LRAP, and the yellow line, PP RAP, shows the potential associated with measures not currently part of the MEEIA 4 plan. The PP LRAP +25% line shows the potential when a portion of these measures are included in the analysis.

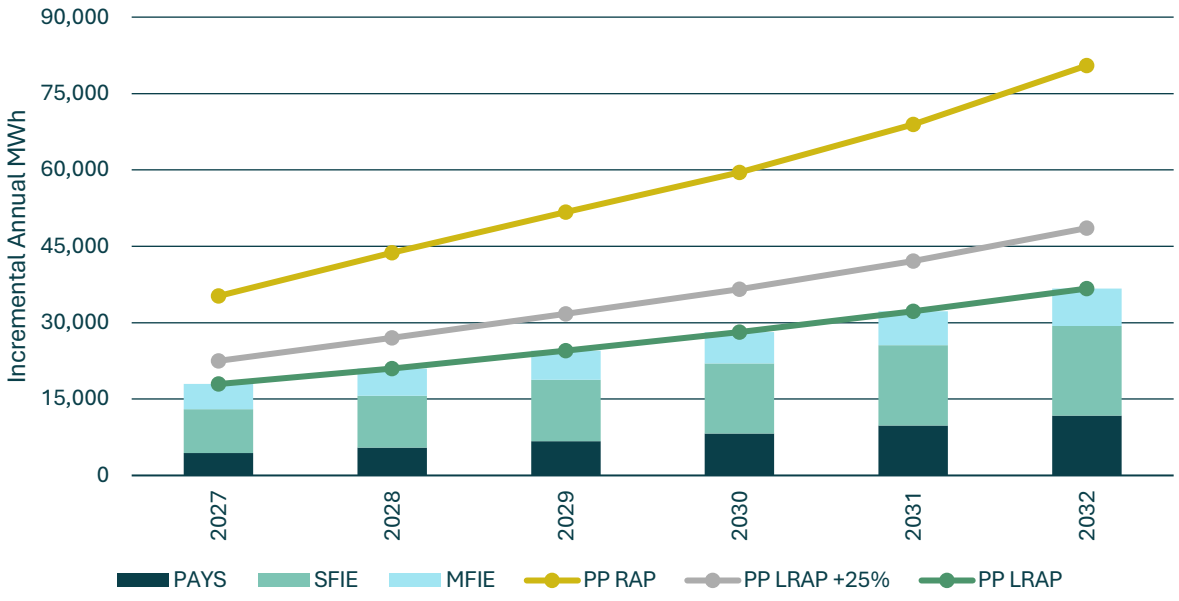


FIGURE 4-12: RESIDENTIAL SECTOR PROGRAM POTENTIAL – PP RAP

[55] SFIE and MFIE are single-family and multifamily income-eligible programs. PAYS is the Pay As You Save Program.

Figure 4-13 below illustrates the incremental annual energy savings in business programs over the next six years. The potential in MEEIA 4 programs is shown in the shaded bars, representing the Biz-Standard program, the Biz-Custom program and the Business Social Services ("BSS") programs. The gap between the green line, PP LRAP, and the yellow line, PP RAP, shows the potential associated with measures not currently part of the MEEIA 4 plan. The PP LRAP +25% line shows the potential when a portion of these measures are included in the analysis.

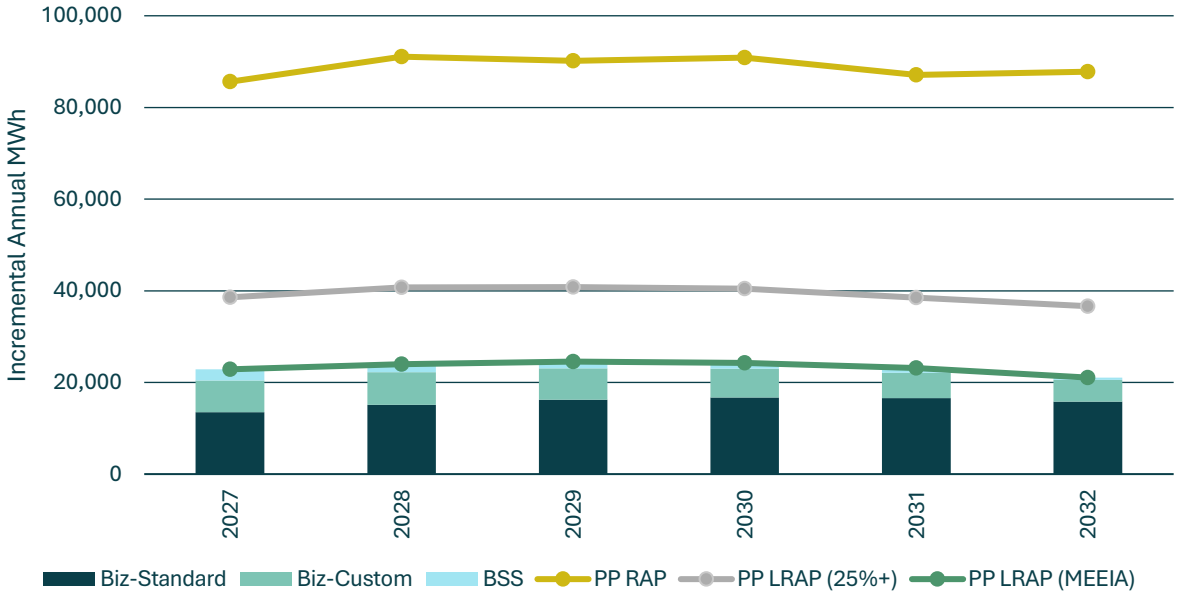


FIGURE 4-13: BUSINESS SECTOR PROGRAM POTENTIAL – PP RAP

4.4.2 Benefits/Costs of Program Potential

Figure 4-14 shows the annual program budgets in the residential sector. The bars show the budgets for the PP LRAP, PP LRAP +25%, and PP RAP scenarios. The lines show the cost per first-year kWh saved, and the bars show the increasing levels of potential across the scenarios. While the potential is highest in the PP RAP scenario, it also yields the highest cost per kWh, as more expensive measures are included.

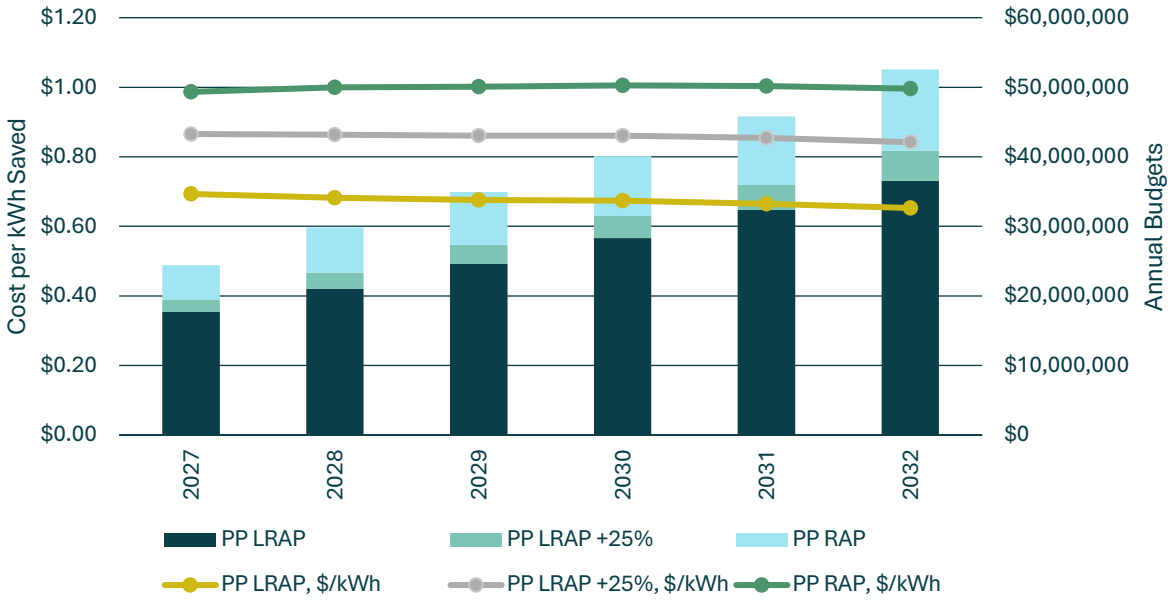


FIGURE 4-14: RESIDENTIAL SECTOR PROGRAM POTENTIAL BUDGETS AND COST PER KWH

Figure 4-15 shows the annual program budgets in the business sector. The bars show the budgets for the PP LRAP, PP LRAP +25%, and PP RAP scenarios. The lines show the cost per first-year kWh saved, and the bars show the increasing levels of potential across the scenarios. While the potential is highest in the PP RAP scenario, it also yields the highest cost per kWh, as more expensive measures are included.

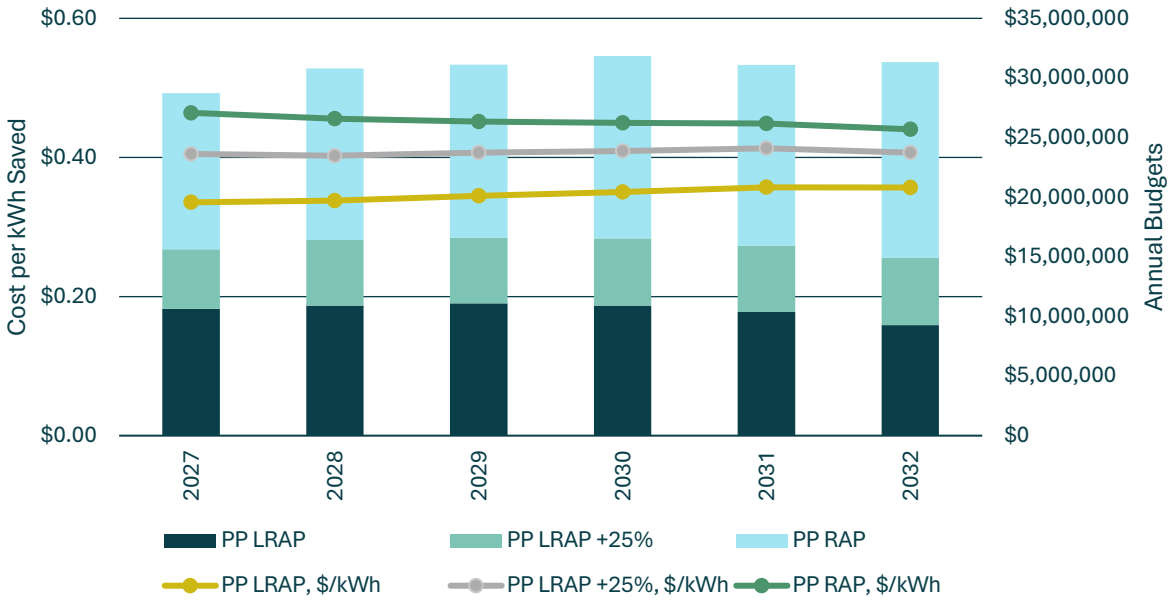


FIGURE 4-15: BUSINESS SECTOR PROGRAM POTENTIAL BUDGETS AND COST PER KWH

Table 4-11 below provides the net-present-value ("NPV") benefits and costs for each sector across the study timeframe and in total across all programs according to the TRC test.[56] The overall TRC ratio in the PP RAP scenario is 1.6, with an estimated total of more than $770 million in net benefits. The overall TRC ratio in the PP LRAP scenarios is 1.3.

TABLE 4-11: PROGRAM RAP TRC NPV BENEFITS AND COSTS – BY 2046 ($, IN MILLIONS)

	NPV Benefits	NPV Costs	TRC Ratio	NPV Net Benefits
PP RAP				
Residential	$1,191,718,750	$887,437,755	1.34	$304,280,995
Business	$881,496,100	$397,715,824	2.22	$483,780,276
Total	**$2,073,214,851**	**$1,285,153,579**	**1.61**	**$788,061,272**
PP LRAP +25%				
Residential	$753,460,865	$686,170,824	1.10	$67,290,041
Business	$421,688,220	$199,830,082	2.11	$221,858,138
Total	**$1,175,149,085**	**$886,000,906**	**1.33**	**$289,148,179**
PP LRAP				
Residential	$585,785,107	$503,973,450	1.16	$81,811,657
Business	$227,351,031	$122,958,197	1.85	$104,392,834
Total	**$813,136,138**	**$626,931,647**	**1.30**	**$186,204,490**

Table 4-12 below provides the net-present-value ("NPV") benefits and costs for each sector across the study timeframe and in total across all programs according to the TRC test.[57] The overall UCT ratio in the PP RAP scenario is 2.0, with an estimated total of more than $1 billion in net benefits. The overall UCT ratio in the PP LRAP scenario is 1.4.

TABLE 4-12: PROGRAM RAP UCT NPV BENEFITS AND COSTS – BY 2046 ($, IN MILLIONS)

	NPV Benefits	NPV Costs	UCT Ratio	NPV Net Benefits
PP RAP				
Residential	$1,191,718,750	$711,793,226	1.67	$479,925,525
Business	$881,496,100	$309,382,767	2.85	$572,113,333
Total	**$2,073,214,851**	**$1,021,175,993**	**2.03**	**$1,052,038,858**
PP LRAP +25%				
Residential	$753,460,865	$711,793,226	1.06	$41,667,639
Business	$421,688,220	$154,948,415	2.72	$266,739,805
Total	**$1,175,149,085**	**$866,741,641**	**1.36**	**$308,407,444**
PP LRAP				
Residential	$585,785,107	$487,807,611	1.20	$97,977,496
Business	$227,351,031	$98,919,054	2.30	$128,431,976
Total	**$813,136,138**	**$586,726,665**	**1.39**	**$226,409,472**

[56] 20 CSR 4240-20.050 (5)(E)
[57] 20 CSR 4240-20.050 (5)(E)

4.5 SENSITIVITIES

4.5.1 Sensitivities Overview

In addition to the development of a base case for Program RAP potential, sensitivity analyses were performed surrounding several key assumptions in the study. The GDS team, Ameren Missouri, and stakeholders discussed multiple candidates for the sensitivity analysis that could either analyze the impact of uncertainty concerning customer participation and/or cost-effectiveness.[58] The following eight were ultimately selected for the residential market-rate and/or business sector energy efficiency analysis:

Avoided Costs. Avoided costs are the primary benefit in assessing the cost-effectiveness of DSM measures. Higher avoided costs will likely result in additional measures passing the TRC cost-effectiveness screen, leading to greater savings potential; while lower avoided costs will decrease the cost-effectiveness of measures and lead to lower savings potential.

High Sensitivities: (1) Increase avoided energy and generation capacity costs by 35%; no change to avoided T&D costs, and (2) Increase avoided T&D costs by 200%; no change to energy and capacity costs.
Low Sensitivities: (1) Decrease avoided energy and generation capacity costs by 25%; no change to avoided T&D costs, and (2) Reduce avoided T&D costs to $0 from 2027-2036, then apply base case T&D costs in second decade; no change to energy and capacity costs.
(3) Use 2026 IRP energy and generation capacity costs; no change to avoided T&D costs.
Impacted Sectors: *Residential / Business*

Prolonged Economic Downturn. GDS held constant economic factors in the Ameren Missouri load forecast, resulting in a negative impact on future energy sales. Adoption rates were also reduced to reflect concern over financial barriers. Population, households, and income are held constant at 2027 levels for residential. GDP, employment, and other rate class outputs were held constant in the business sector.

High Sensitivity: n/a
Low Sensitivity: (1) Residential: 17% decrease to forecast by 2046; 17% decrease to adoption levels; (2) Commercial: 5% decrease to forecast by 2046; 5% decrease to adoption levels; (3) Industrial: 2% decrease to forecast by 2046; 2% decrease to adoption levels
Impacted Sectors: *Residential / Business*

NTG Uncertainty (Attribution Case). The attribution sensitivity is relevant to Ameren in understanding the risk associated with changes in attribution that are outside the control of Ameren Missouri. In the case of DSM, attribution is the actual savings that are assigned to a program. One element in the transition from achievable potential to program potential includes the addition of the net-to-gross ratio assumed for each measure/program. The net-to-gross (NTG) ratio identifies the fraction of program participants who would not have purchased the energy efficient measures in the absence of a program. For the Program RAP reference case, the NTG ratios assigned to each measure/end-use/program were based on the latest evaluated DSM programs for MEEIA Cycle 2. However, changes to DSM measure mixes, costs, savings, program delivery methods, market forces, and other factors can significantly impact future NTG ratios.

High Sensitivity: 15% increase to current NTG ratios
Low Sensitivity: 30% decrease to current NTG ratios
Impacted Sectors: *Residential / Business*

[58] 20 CSR 4240-20.050 (6)(C); 20 CSR 4240-20.050 (6)(C)1; 20 CSR 4240-20.050 (6)(C)2

High Touch Marketing. Intended to explore strategy of increasing marketing/high-touch administration to improve program delivery and increase program participation.[59] The high-touch marketing scenario is applied to RAP and produces a result between the current RAP and MAP levels.

High Sensitivity: Assume historical incentive levels but raises the program awareness threshold to the MAP level. Non-Incentive costs were estimated to be higher as well.
Low Sensitivity: n/a
Impacted Sectors: *Residential / Business*

Large Customer Opt-Outs. The base case excludes sales and savings from all eligible customers that currently opt-out of Ameren Missouri's energy efficiency programs. This sensitivity looks at the range of potential if no C&I customers were to opt-out, or if all eligible customers chose to opt-out.

High Sensitivity: Include currently opted-out customers in analysis of future potential.
Low Sensitivity: Exclude all eligible opt-out customers from analysis. For purposes of estimating sales from all eligible customers opt-out, GDS used the existing opt-out customers and included sales from all additional customers in the 11M rate (that are not currently designated as an opt-out customer).
Impacted Sectors: *Business Only*

Volatile Weather. Assessed impact of increasing Heating Degree Days and Cooling Degree Days, impacting measure savings and cost-effectiveness. GDS included a similar adjustment to heating and cooling load in the sales forecast (i.e. as HDD/CDD increased, the heating and cooling portion of the sector loads was similarly increased).

High Sensitivity: Assumed heating and cooling degree days both increased by 25%.
Low Sensitivity: n/a
Impacted Sectors: *Residential / Business*

Improved Technology Savings/Costs. This sensitivity was included to assess the impact of improved technology savings and/or reduced technology costs.[60]

High Sensitivity: Assume program participation focuses on higher tier technologies regardless of current market acceptance; assume a 35% decrease in emerging technology/high tier equipment costs and incentives over the study horizon. For all other measures, reduced costs between 5%-20% based on current energy efficiency saturation assumptions. Shifted applicability to highest tier equipment (if cost-effective).
Low Sensitivity: n/a
Impacted Sectors: *Residential / Business*

HVAC Sensitivity. This sensitivity enhances the adoption of HVAC measures in the early years of the study by re-mapping many of these measures from the PAYS program delivery channel to a more traditional HVAC program whereby contractors provide incentives to customers to purchase and install high efficiency heat pumps and air conditioners. Model parameters adjusted include market adoption rates and incentive levels.

High Sensitivity: Adoption rates shifted forward along the adoption curve. Incentives are adjusted to reflect an HVAC program in lieu of the PAYS program.
Low Sensitivity: n/a
Impacted Sectors: *Residential Only*

[59] 20 CSR 4240-20.050 (1)(E)2
[60] 20 CSR 4240-20.050 (1)(E)1

4.5.2 Sensitivity Results

Figure 4-16 shows the program RAP based on the results of the sensitivity analysis. The blue bars show the 20-yr cumulative MWh, and the yellow line provides the corresponding 20-yr budget (in $ billions). The Technology Cost, Improved Technology, NTG Attribution (High) and Volatile Weather sensitivities provide the highest savings, with the Avoided Costs #1 (Low), Prolonged Downturn, and NTG Attribution (Low) sensitivities provide the least savings. 20-yr total budgets range from $1.6 billion to $2.8 billion.

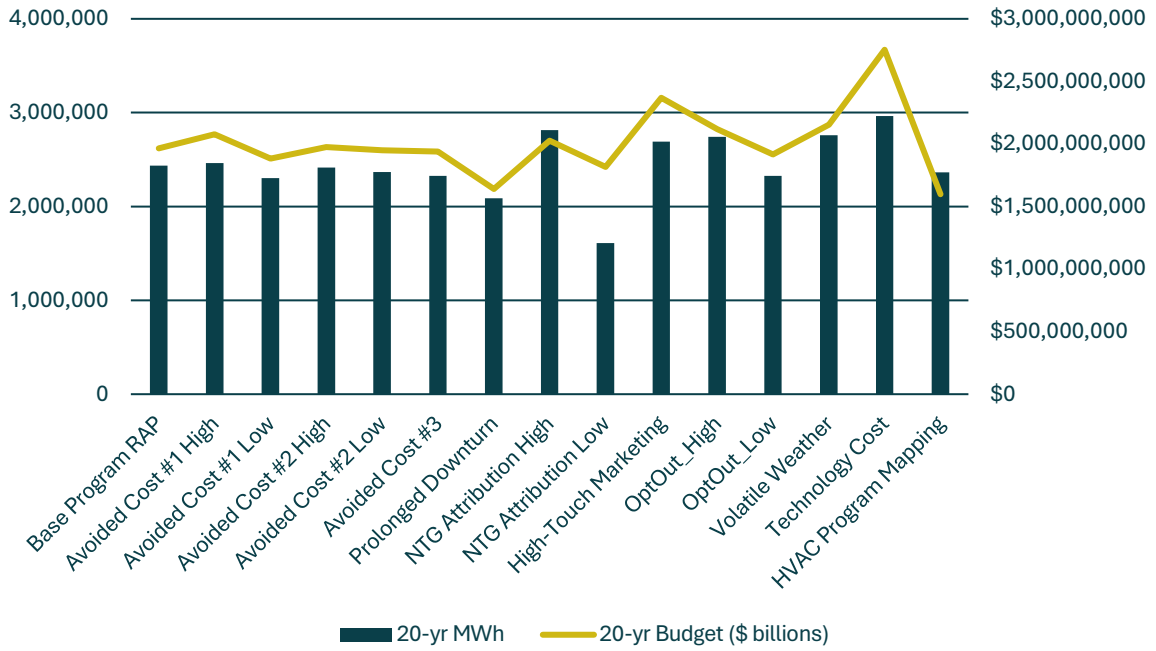


FIGURE 4-16: PROGRAM RAP SENSITIVITIES – CUMULATIVE SAVINGS AND 20-YR BUDGETS

Table 4-13 shows the NPV benefits and costs for the program RAP sensitivities. The Avoided Cost #1 (High) sensitivity has the highest TRC ratio of 2.05 and highest NPV net benefits. The Avoided Cost #1 (Low) sensitivity has the lowest TRC ratio at 1.28 and the lowest NPV net benefits.

TABLE 4-13: SENSITIVITY PROGRAM RAP NPV BENEFITS AND COSTS –BY 2046 ($, IN MILLIONS)

	NPV Benefits	NPV Costs	Net Benefits	TRC Ratio
Base Program RAP	$2,073,214,851	$1,285,153,579	$788,061,272	1.61
Avoided Cost #1 High	$2,826,232,229	$1,377,469,847	$1,448,762,381	2.05
Avoided Cost #1 Low	$1,513,178,493	$1,184,338,291	$328,840,202	1.28
Avoided Cost #2 High	$2,216,697,028	$1,295,444,166	$921,252,862	1.71
Avoided Cost #2 Low	$1,967,690,366	$1,254,134,983	$713,555,383	1.57
Avoided Cost #3	$2,160,324,026	$1,208,531,409	$951,792,617	1.79
Prolonged Downturn	$1,703,298,086	$1,051,723,000	$651,575,086	1.62
NTG Attribution High	$2,414,482,397	$1,470,333,169	$944,149,228	1.64
NTG Attribution Low	$1,370,209,547	$938,123,865	$432,085,682	1.46
High-Touch Marketing	$2,271,788,694	$1,506,067,121	$765,721,572	1.51
OptOut_High	$2,337,770,876	$1,406,156,659	$931,614,216	1.66

	NPV Benefits	NPV Costs	Net Benefits	TRC Ratio
OptOut_Low	$1,988,332,769	$1,250,947,314	$737,385,455	1.59
Volatile Weather	$2,448,383,360	$1,406,626,263	$1,041,757,097	1.74
Technology Cost	$2,546,194,815	$1,484,689,832	$1,061,504,983	1.71
HVAC Program Mapping	$2,008,334,465	$1,152,788,770	$855,545,695	1.74

05 DR POTENTIAL RESULTS

5.1 ANALYSIS APPROACH[61]

This chapter provides the results of the MAP and RAP potential for the demand response analysis. Results are broken down by sector and program. The cost-effectiveness results and budgets for the MAP and RAP scenarios are also provided.

5.1.1 Definition of Demand Response[62]

According to the Federal Energy Regulatory Commission (FERC), demand response is defined as changes in electric usage by demand-side resources from their normal consumption patterns in response to changes in the price of electricity over time, or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is jeopardized. FERC's definition of demand response conforms to the North American Electric Reliability Corporation (NERC) definition developed by a consortium of utilities and end users – of which Ameren Missouri had a leadership role.

The Midcontinent Independent System Operator (MISO) defines demand response as the ability of a Market Participant to reduce its electric consumption in response to an instruction received from MISO. Market Participants can provide such demand response either with discretely interruptible or continuously controllable loads or with behind-the-meter generation. In short, resources must be dispatchable and measurable. Demand response rate options such as TOU or CPP don't meet these requirements. However, these rates can provide value for Ameren Missouri if they lower their peak demand requirements. That reduction in peak load can translate into lower capacity requirements. Utilities in MISO must demonstrate that they have enough capacity on a forward basis.[63]

This study uses the broader FERC definition of demand response so that all potential DR, including rate options, are identified. Ameren Missouri's integrated resource planning team will analyze and adjust as necessary the identified DR potential for what can be counted in the MISO market and/or how DR potential will be used to construct alternative resource plans.

5.1.2 Demand Response Program Options

Table 5-1 provides a brief description of the demand response program options considered and identifies the eligible customer segment for each demand response program that was considered in this study for the Base Case.[64] The base case analysis includes direct load control (DLC), rate design, and aggregator options.[65] Additional demand response rate options were included as a sensitivity to the base case analysis.[66]

The study includes one program to serve as a proxy for the examination of potential for third-party aggregators of retail customers (ARCs) – capacity bidding. The analysis included low and high participation scenarios of commercial and industrial customers electing to participate in DR. Customers on the LGS, SPS, and LPS rate tariffs were all eligible to participate in this program.

[61] 20 CSR 4240-20.050 (3)(I)
[62] EO-2023-0099 1F (Special Contemporary Issues)
[63] 20 CSR 4240-20.050 (4)(F)
[64] 20 CSR 4240-20.050 (1)(C), 20 CSR 4240-20.050 (3)(A)
[65] EO-2023-0099 1B (Special Contemporary Issues)
[66] 20 CSR 4240-20.050 (3)(A)

TABLE 5-1 DEMAND RESPONSE BASE CASE PROGRAM OPTIONS AND ELIGIBLE MARKETS

Demand Response Program Option	Program Description	Eligible Markets
DLC Thermostat[67]	The system operator can remotely change the HVAC's thermostat set point during peak load conditions, lowering HVAC load.	Residential and C&I Customers[68]
DLC Water Heater Switch	The water heater is remotely shut off by the system operator for periods normally ranging from 2 to 8 hours.	Residential and C&I Customers
DLC Grid-Enabled Water Heaters	The grid-enabled water heater is equipped with a smart controller that allows the utility to remotely shut off the water heater for periods normally ranging from 2 to 4 hours.	Residential and C&I Customers
DLC Room Air Conditioning	The compressor of the room air conditioner is remotely shut off (cycled) by the system operator for periods that may range from 7 ½ to 15 minutes during every 30-minute period (i.e., 25%-50% duty cycle). Controlled via load control switch. Participant cannot override control.	Residential Customers
DLC Pool Pumps	The swimming pool pump is remotely shut off by the system operator for periods normally ranging from 2 to 4 hours.	Residential Customers
DLC Lighting	A portion of the lighting load (typically 25-33%) is remotely shut off by the system operator for periods normally ranging from 2 to 4 hours	C&I Customers
DLC Agricultural Irrigation	The irrigation pump is remotely shut off by the system operator for periods normally ranging from 2 to 4 hours.	Irrigated Farms
DLC Electric Vehicle[69]	DLC of electric vehicles relies on communication (i.e., "dispatch") signals originating from a utility or aggregator and sent to a vehicle or charger to control charging in a predetermined manner. Can be events-based to control load during a limited number of events in a given time period (season or annually) or use continuous management to control load when the vehicle is connected to the charger.	Residential and C&I Customers

[67] EO-2023-0099 1F(1) (Special Contemporary Issues)
[68] This program has large amount for potential for both residential and business customers. However, only the program for business customers is cost-effective based on the most currently available estimates of per customer load reduction. The residential program is not cost-effective based on the most currently available evaluation results. However, changes to future program guidelines could lead to the program becoming cost-effective.
[69] EO-2023-0099 1F(2) (Special Contemporary Issues)

Demand Response Program Option	Program Description	Eligible Markets
Time of Use Rates	A retail rate with different prices for usage during different blocks of time. Looked at Ameren Missouri's current four options: Evening/Morning Savers, Overnight Savers, Smart Savers, and Ultimate Savers.	Residential Customers
Capacity Bidding[70]	Flexible bidding program offering qualified businesses payments for agreeing to reduce load when an event is called. Participants make monthly nominations and receive capacity payments based on the amount of capacity reduction nominated each month, plus energy payments based on actual kilowatt-hour (kWh) energy reduction when an event is called. The amount of capacity nomination can be adjusted on a monthly basis. The program can be Internet-based, providing ready access to program information and ease-of-use. Penalties occur if load nominations are not met. Not all load nominated is necessarily dispatched.	C&I Customers
Battery Storage[71]	Uses the battery to reduce a home or facility's demand during peak or DR event hours, without requiring the customer to curtail their power. Instead of turning off equipment, the battery discharges power to offset load—or shifts charging to off-peak periods—so the utility sees a drop in grid demand.	Residential and C&I Customers

5.1.3 Demand Response Methodology Overview

The analysis of demand response, where possible, closely follows the approach outlined for energy efficiency. The framework for assessing the cost-effectiveness of demand response programs is based *on A Framework for Evaluating the Cost-Effectiveness of Demand Response, prepared for the National Forum on the National Action Plan (NAPA) on Demand Response*.[72] Additionally, GDS reviewed the May 2017 National Standard Practice Manual published by the National Efficiency Screening Project.[73] GDS utilized this guide to define avoided ancillary services and energy and/or capacity price suppression benefits.

Direct load control and rate programs demand response analysis was conducted using the GDS Demand Response Model. GDS determined the estimated savings for each demand response program by performing a review of all benefits and cost associated with each program.[74] A modeling approach that considers numerous required inputs for each program was used, including expected life, coincident peak (CP) kW load reductions, proposed incentive levels, program related expenses such as vendor service fees, marketing and evaluation cost and on-going O&M expenses.

[70] The Capacity Bidding program serves as a proxy for the examination of potential for third-party aggregators of retail customers (ARCs).
[71] EO-2023-0099 1F(3), EO-2023-0099 1F(4), EO-2023-0099 1G(4) (Special Contemporary Issues) The battery storage system was not found to be cost-effective via the TRC test.
[72] Study was prepared by Synapse Energy Economics and the Regulatory Assistance Project, February 2013.
[73] National Standard Practice Manual for Assessing Cost-Effectiveness of Energy Efficiency Resources, May 18, 2017, Prepared by The National Efficiency Screening Project
[74] 20 CSR 4240-20.050 (5)(A)

The TRC was used to determine the cost-effectiveness of each demand response program. Benefits are based on avoided generation, energy (including load shifting), and T&D costs. Costs include incremental program equipment costs (such as control switches), fixed program capital costs (such as the cost of a central controller), program administrative, marketing, and evaluation costs. Incremental equipment program costs are included for both new and replacement units (such as control switches) to account for units that are replaced at the end of their useful life.[75]
The demand response analysis includes estimates of technical, economic[76], and achievable potential. Achievable potential is broken into maximum achievable potential (MAP) and realistic achievable potential (RAP) in this study:

MAP represents an estimate of the maximum cost-effective demand response potential that can be achieved over the 18-year study period. For this study, this is defined as customer participation in demand response program options that reflect a "best practices" estimate of what could eventually be achieved. MAP assumes no barriers to effective delivery of programs.

RAP represents an estimate of the amount of demand response potential that can be realistically achieved over the 18-year study period. For this study, this is defined as achieving customer participation in demand response program options that reflect a realistic estimate of what could eventually be achieved assuming typical or "average" industry experience. RAP is a discounted MAP, by considering program barriers that limit participation, therefore reducing savings that could be achieved.

5.1.4 Avoided Costs

Demand response avoided costs were consistent with those utilized in the energy efficiency potential analysis and were provided by Ameren Missouri. The primary benefit of demand response is avoided generation capacity, resulting from a reduction in the need for new peaking generation capacity. Demand response can also produce energy-related benefits. If the demand response option is considered "load shifting," such as direct load control of electric water heating, the consumption of energy is shifted from the control period to the period immediately following the period of control. For this study, GDS assumed that the energy is shifted with no loss of energy. If the program is not considered to be "load shifting" the measure is turned off during peak control hours, and the energy is saved altogether. Demand response programs can also potentially delay the construction of new transmission and distribution lines and facilities, which is reflected in avoided T&D costs.

5.1.5 Demand Response Program Assumptions

This section briefly discusses the general assumptions and sources used to complete the demand response potential analysis.

Load Reduction:[77] Demand reductions were based on load reductions found in Ameren Missouri's existing demand response programs, and various secondary data sources including other industry reports and evaluations or demand response potential studies that conducted primary research. DLC and thermostat-based demand response options were typically calculated based on a per-unit kW demand reduction.

[75] 20 CSR 4240-20.050 (5)
[76] Demand response programs included in the economic and achievable potential estimates were screened for cost-effectiveness under the TRC Test and were generally required to have a TRC benefit-cost ratio greater than 1.0. An exception was allowed for currently offered demand response programs that were marginally not cost-effective based on select highly variable assumptions and evolving benefit streams (i.e. the seasonality of avoided capacity costs, etc.). CSR 4240-20.050 (5)(D)
[77] 20 CSR 4240-20.050 (3)(G)1

TABLE 5-2 DEMAND RESPONSE LOAD REDUCTION IMPACTS

Program	Residential Load Reduction	Business Load Reduction
DLC Thermostat	0.76 kW Summer, 1.14 kW Winter	1.95 kW Summer, 2.54 kW Winter
DLC Water Heater Switch	0.39 kW Summer, 0.59 kW Winter	1.5 kW
DLC Grid Enabled Water Heater	0.43 kW Summer, 0.63 kW Winter	1.5 kW
DLC Room AC	0.21 kW Summer	N/A
DLC Swimming Pool Pump	0.52 kW Summer	N/A
DLG Lighting	N/A	7.05%
DLC Agricultural Irrigation	N/A	80%
DLC Electric Vehicles	2 kW	N/A
TOU Evening/Morning Savers	0.3% Summer, 0.2% Winter	N/A
TOU Overnight Savers	6.8% Summer, 3.5% Winter	N/A
TOU Smart Savers	11.8% Summer, 9% Winter	N/A
TOU Ultimate Savers	12.9% Summer, 9.3% Winter	N/A
Battery Storage	3 kW	11.25 kW
Capacity Bidding	N/A	25%

Useful Life: The useful life of a smart thermostat is assumed to be 11 years. Load control switches have a useful life of 10 years. This life was used for all direct load control measures in this study.

Equipment and Incentive Costs: Equipment costs were included for each new participant. Incentives were included for all programs in the Base Case. These costs were either on a per participant, per kW or per kWh basis (noted in table).[78]

TABLE 5-3. ASSUMED BASE CASE EQUIPMENT AND INCENTIVE COSTS

Sector	Program	Equipment & Installation Cost	Incentive Cost
Residential	DLC Thermostat	$50 one-time rebate	$25/participant-year for RAP; $45/participant-year for MAP
	DLC Room AC	$230	$29/participant-year

[78] 20 CSR 4240-20.050 (3)(G)5A; 20 CSR 4240-20.050 (3)(G)5B

Sector	Program	Equipment & Installation Cost	Incentive Cost
	DLC Water Heater Switch	$330	$30/participant-year
	DLC Grid-Enabled Water Heater	$50 for control unit; $400 one-time rebate	$30/participant-year
	DLC Pool Pumps	$141	$12/participant-year
	DLC Electric Vehicles	$1,797 SaaS enrollment fee; $39 one-time rebate	$50/participant-year
	Time of Use Rates	N/A	N/A
	Battery Storage	$0. Assumes participant already has battery.	$400/participant-year
Business	DLC Thermostat	$50 one-time rebate	$54/participant-year for RAP; $97/participant-year for MAP
	DLC Water Heater Switch	$330	$30/participant-year
	DLC Grid-Enabled Water Heater	$50 for control unit; $400 one-time rebate	$30/participant-year
	DLC Lighting	$0. Assumes participant already has networked lighting controls.	$200/kW-year
	DLC Agricultural Irrigation	$3.50/kW pledged	$47/kW-year
	Capacity Bidding	$0	$48/kW-year ($16/kW in summer & winter, $8/kW in fall & spring)
	Battery Storage	$0. Assumes participant already has battery.	$1,500/participant-year

Program Costs[79]**:** One-time program development costs included in the first year of the analysis for new programs. No program development costs are assumed for programs that already exist. Each new program includes an evaluation cost, with evaluation cost for existing programs already being included in the administration costs. It was assumed that there would be a cost of $50 per new participant for marketing for the DLC programs for RAP. Marketing costs are assumed to be 20% higher for MAP. All program costs were escalated each year by the general rate of inflation assumed for this study.

Saturation: For programs that control a specific end use, a saturation was applied to determine the number of eligible customers. For example, only customers with electric water heaters can participate in the water heating control program. Saturations from Ameren Missouri's 2025 market research were used.

Eligible Market Size: For direct load control programs, the size of the eligible market was determined by multiplying the forecast of Ameren Missouri's customers by the saturation of the end use to be controlled. End use saturations were

[79] 20 CSR 4240-20.050 (5)(B)2

obtained from the 2025 primary research conducted by ODC in the Ameren Missouri service area to help inform the 2026 MPS.

GDS assumed that Ameren Missouri's AMI is fully deployed. Two-way communication is fundamental for these pricing programs and AMI meters allow for hourly load data to be read and transmitted to the utility. Since it is imperative that hourly data must be read for rate programs, GDS assumed AMI meters were required to participate in the Time of Use program. No other programs in the Base Case required AMI.[80]

5.1.6 Program Adoption Levels

Long-term program adoption levels (or "steady state" participation) represent the enrollment rate once the fully achievable participation has been reached. GDS reviewed industry data and program adoption levels from several utility demand response programs. As noted earlier in this section, for direct load control programs, MAP participation rates rely on industry best adoption rates and RAP participation rates are based on industry average adoption levels.

Customer participation in new demand response programs is assumed to reach the steady state take rate over a five-year period. The path to steady state customer participation follows an "S-shaped" curve, in which participation growth accelerates over the first half of the five-year period, and then slows over the second half of the period (see Figure 5-1). Existing programs have already gone through this ramp-up period, so they were escalated linearly to the final participation rate.

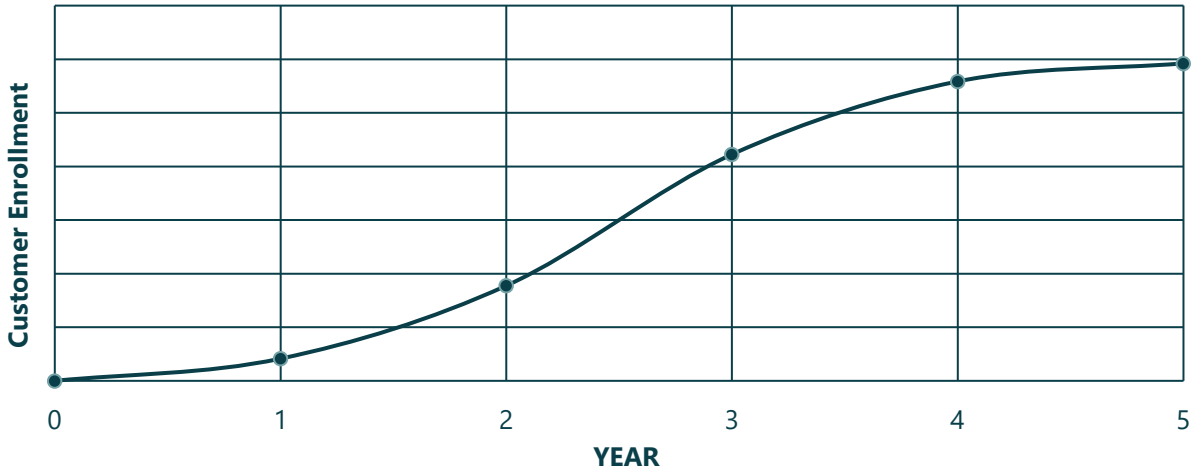


FIGURE 5-1: ILLUSTRATION OF S-SHAPED MARKET ADOPTION CURVE

TABLE 5-4. BASE CASE ADOPTION RATES

Sector	Program	Steady State MAP Adoption Rate	Steady State RAP Adoption Rate
Residential	DLC Thermostat	22%	17%
	DLC Water Heater Switch	12%	7%
	DLC Water Heater Grid-Enabled	12%	7%
	DLC Room AC	21%	10%

[80] 20 CSR 4240-20.050 (3)(D), 20 CSR 4240-20.050 (4)(C)

Sector	Program	Steady State MAP Adoption Rate	Steady State RAP Adoption Rate
	DLC Swimming Pool Pump	12%	7%
	DLC Electric Vehicles	150 Participant Pilot	150 Participant Pilot
	TOU Evening/Morning Savers	64%	64%
	TOU Overnight Savers	15%	15%
	TOU Smart Savers	4%	4%
	TOU Ultimate Savers	7%	7%
	Battery Storage[81]	60%	50%
C&I	DLC Thermostat	25%	14%
	DLC Water Heater Switch	12%	7%
	DLC Water Heater Grid-Enabled	12%	7%
	DLC Lighting	28%	19%
	DLC Agricultural Irrigation	50%	33%
	Capacity Bidding	28%	22%
	Battery Storage	60%	50%

5.2 TOTAL DEMAND RESPONSE POTENTIAL[82]

Figure 5-2 provides the technical, economic, MAP, and RAP demand response potential for the final year of the study. The technical potential is 28% of the total demand forecast, economic is 13% of the demand forecast, MAP is 6% of the total demand forecast, and RAP is 5% of the demand forecast.

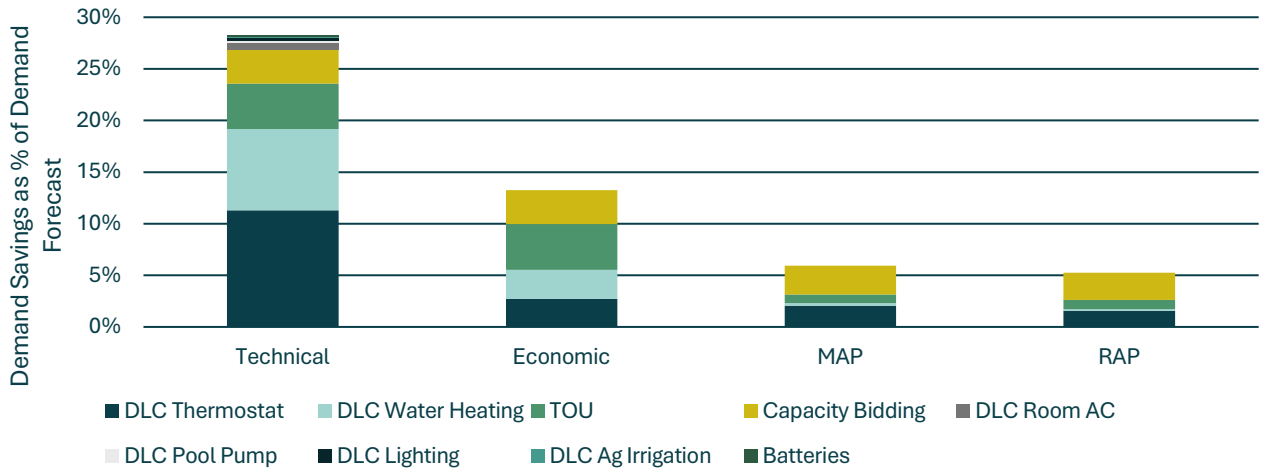


FIGURE 5-2: CUMULATIVE DEMAND POTENTIAL (AS A % OF DEMAND FORECAST)

[81] Technical potential assumes all batteries in existence are participating in the DR program. This is calculated by taking the total eligible customers (number of batteries) and multiplying by the load reduction per customer. MAP and RAP then accounts for cost-effectiveness and customer participation and market barriers. Battery storage was not found to be cost-effective; thus, MAP and RAP are 0.
[82] 20 CSR 4240-20.050 (4)(E)

Table 5-5 and Table 5-6 show the cumulative MAP and RAP savings for the summer season across the first six years of the study timeframe (2027-2032). These values are at the customer meter. The MAP assumes the maximum participation that would happen in the real-world, while the RAP considers additional barriers to program implementation that could limit the amount of savings achieved. The DLC Thermostat program options provide the most potential in the residential and Capacity Bidding (the proxy for third-party ARCs) provides the most potential in the C&I sector. Overall, the MAP ranges from 263.6 MW to 378.3 MW over the next six years, and the RAP ranges from 250.4 MW to 336 MW over the next six years.

TABLE 5-5: MAP SUMMER SAVINGS BY PROGRAM AND SECTOR

Sector	Program	2027	2028	2029	2030	2031	2032
Residential	DLC Thermostat	49.2	54.2	59.2	64.0	68.8	73.4
	DLC Water Heater Switch	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Water Heater Grid-Enabled	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Room AC	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Swimming Pool Pump	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Electric Vehicles	0.1	0.2	0.3	0.3	0.3	0.3
	TOU Evening/Morning Savers	8.8	8.7	8.6	8.4	8.3	8.1
	TOU Overnight Savers	8.5	7.6	6.3	5.6	5.3	5.2
	TOU Smart Savers	2.6	4.3	6.0	7.6	9.3	11.0
	TOU Ultimate Savers	1.7	2.3	3.0	3.6	4.2	4.9
	Battery Storage	0.0	0.0	0.0	0.0	0.0	0.0
C&I	DLC Thermostat	4.8	15.7	32.5	43.2	46.6	47.4
	DLC Water Heater Switch	1.2	3.8	7.8	10.4	11.2	11.4
	DLC Water Heater Grid-Enabled	1.2	3.8	7.8	10.4	11.2	11.4
	DLC Lighting	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Agricultural Irrigation	0.0	0.0	0.0	0.0	0.0	0.0
	Capacity Bidding	185.6	191.0	193.9	199.7	202.6	205.3
	Battery Storage	0.0	0.0	0.0	0.0	0.0	0.0
All Sectors Combined		263.6	291.5	325.4	353.2	367.9	378.3

TABLE 5-6: RAP SUMMER SAVINGS BY PROGRAM AND SECTOR

Sector	Program	2027	2028	2029	2030	2031	2032
Residential	DLC Thermostat[83]	47.6	51.0	54.5	57.8	61.2	64.4
	DLC Water Heater Switch	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Water Heater Grid-Enabled	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Room AC	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Swimming Pool Pump	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Electric Vehicles	0.1	0.2	0.3	0.3	0.3	0.3

[83] The magnitude of savings shown for the DLC Thermostat program reflect the continuation of savings already being achieved (already close to 44 MW). However, as shown in Section 5.3, this program is not cost-effective in this study. The per thermostat savings assumptions for this program reflect the most recently available evaluated savings. The residential program is not cost-effective based on the most currently available evaluation results. However, changes to future program guidelines could lead to the program becoming cost-effective.

Sector	Program	2027	2028	2029	2030	2031	2032
	TOU Evening/Morning Savers	8.8	8.7	8.6	8.5	8.3	8.2
	TOU Overnight Savers	2.6	4.3	6.0	7.7	9.3	11.0
	TOU Smart Savers	1.7	2.3	3.0	3.6	4.3	4.9
	TOU Ultimate Savers	2.2	3.7	5.2	6.6	8.0	9.5
	Battery Storage	0.0	0.0	0.0	0.0	0.0	0.0
C&I	DLC Thermostat	2.7	8.8	18.4	24.4	26.4	26.9
	DLC Water Heater Switch	0.7	2.1	4.5	5.9	6.4	6.5
	DLC Water Heater Grid-Enabled	0.7	2.1	4.5	5.9	6.4	6.5
	DLC Lighting	0.0	0.0	0.0	0.0	0.0	0.0
	DLC Agricultural Irrigation	0.0	0.0	0.0	0.0	0.0	0.0
	Capacity Bidding	183.4	187.6	189.5	194.1	196.0	197.8
	Battery Storage	0.0	0.0	0.0	0.0	0.0	0.0
All Sectors Combined		250.4	271.0	294.2	314.9	326.7	336.0

Figure 5-3 shows the cumulative summer RAP (MW) by program in the residential sector. The DLC Thermostat option provides the greatest amount of potential, with the TOU Overnight Savers having the next highest potential. Overall, the residential RAP grows from 63 MW in 2027 to 174.6 MW in 2046.

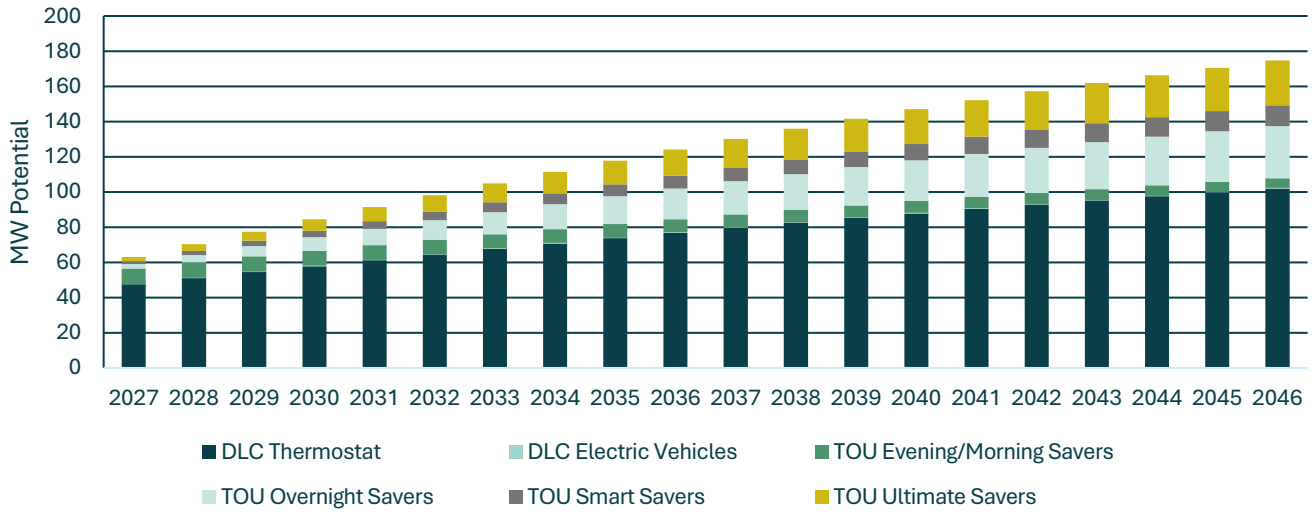


FIGURE 5-3 RESIDENTIAL SECTOR DEMAND RESPONSE SUMMER RAP – BY PROGRAM

Figure 5-4 shows the cumulative summer RAP (MW) by program in the commercial sector. The Capacity Bidding option provides the greatest amount of potential, with the DLC Thermostat program growing significantly over time as well. Overall, the commercial RAP grows from 187.4 MW in 2027 to 256.1 MW in 2046.

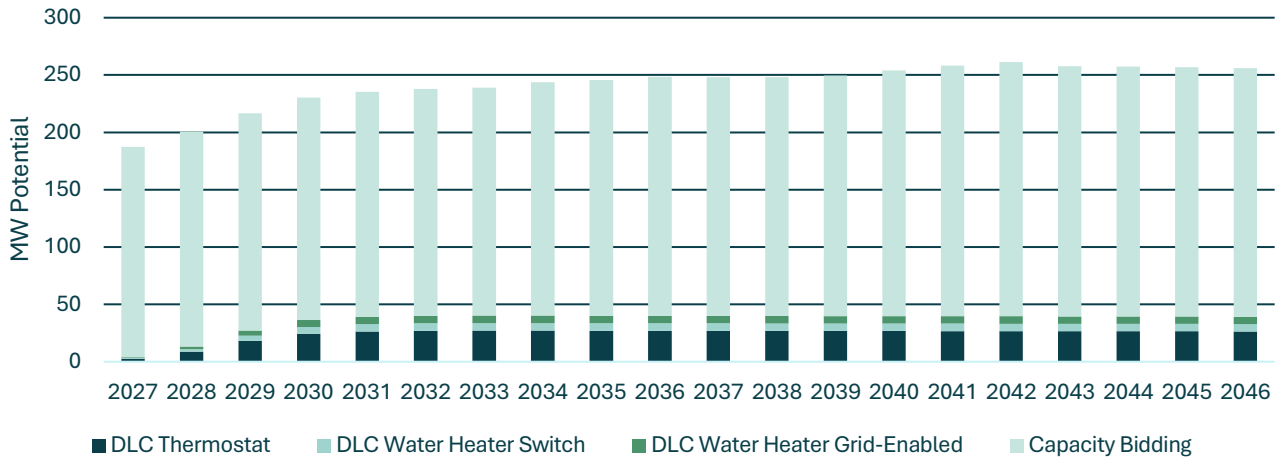


FIGURE 5-4 COMMERCIAL SECTOR DEMAND RESPONSE SUMMER RAP – BY PROGRAM

5.3 BENEFITS/COSTS OF PROGRAM POTENTIAL

Cost-effectiveness of demand response measures was determined based on screening with the TRC test.[84] Figure 5-5 provides the annual budget for the MAP and RAP scenarios.[85] For the MAP scenario, the budget ranges from $24.8 million to $74.9 million. For the RAP scenario, the budget ranges from $22 million to $53.4 million.

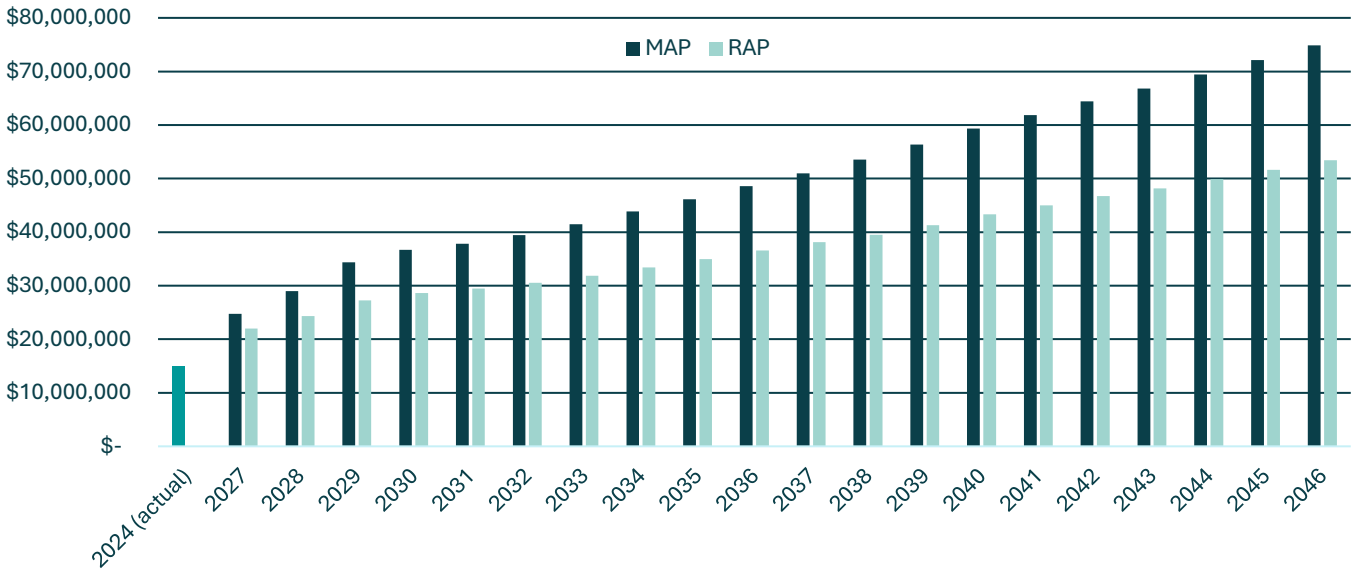


FIGURE 5-5: DEMAND RESPONSE ANNUAL BUDGETS – MAP AND RAP

[84] CSR 4240-20.050 (5)(B)5
[85] 20 CSR 4240-20.050 (4)(E)

Table 5-7 shows the MAP and RAP TRC ratios for each program for the length of the study.[86]

TABLE 5-7: MAP AND RAP TRC RATIOS FOR EACH DEMAND RESPONSE PROGRAM

Sector	Program	MAP TRC	RAP TRC
Residential	DLC Thermostat	0.71	0.86[87]
	DLC Water Heater Switch	0.81	0.84
	DLC Water Heater Grid-Enabled	0.58	0.60
	DLC Room AC	0.11	0.11
	DLC Swimming Pool Pump	0.79	0.70
	TOU Evening/Morning Savers	21.17	21.72
	TOU Overnight Savers	3.82	3.95
	TOU Smart Savers	6.07	6.27
	TOU Ultimate Savers	7.03	7.27
	Battery Storage	0.88	0.93
C&I	DLC Thermostat	1.22	1.57
	DLC Water Heater Switch	4.46	4.40
	DLC Water Heater Grid-Enabled	2.17	2.20
	DLC Lighting	0.52	0.28
	DLC Agricultural Irrigation	0.83	0.72
	Battery Storage	0.93	0.96
	Capacity Bidding[88]	3.03	2.31

5.4 SENSITIVITIES

As with the residential and business sector energy efficiency potential analysis, several sensitivities on the RAP base case were analyzed to determine the impact of uncertain conditions surrounding customer participation and/or cost-effectiveness.[89] While many of the sensitivities are similar to those discussion in Section 4.5.1, there are some distinct differences. Notably, demand response includes a sensitivity that examines various demand response rate options on future peak savings potential.

5.4.1 Sensitivities Overview

Avoided Costs. Avoided costs are the primary benefit in assessing the cost-effectiveness of DSM measures. Higher avoided costs will likely result in additional measures passing the TRC cost-effectiveness screen, leading to greater savings potential; while lower avoided costs will decrease the cost-effectiveness of measures and lead to lower savings potential.

High Sensitivities (1): Increase avoided energy and generation capacity costs by 35%; no change to avoided T&D costs, and (2) Increase avoided T&D costs by 200%; no change to energy and capacity costs.

[86] 20 CSR 4240-20.050 (5)(E)
[87] While this program has a large amount of potential, the program has not been cost-effective due to low evaluated savings. The residential program is not cost-effective based on the most currently available evaluation results. However, changes to future program guidelines could lead to the program becoming cost-effective.
[88] The proxy for third-party ARCs was found to be cost-effective in the TRC test.
[89] 20 CSR 4240-20.050 (6)(C)1; 20 CSR 4240-20.050 (6)(C)2

Low Sensitivities (1): Decrease avoided energy and generation capacity costs by 25%; no change to avoided T&D costs, and (2) Reduce avoided T&D costs to $0 in first decade, then apply base case T&D costs in second decade; no change to energy and capacity costs.
Impacted Sectors: *Residential / Business*

Prolonged Economic Downturn. GDS held constant economic factors in the Ameren Missouri load forecast, resulting in a negative impact on future energy sales. Adoption rates were also reduced to reflect concern over financial barriers.

High Sensitivity: n/a
Low Sensitivity: (1) Residential: 10% decrease to demand forecast by 2046; 10% decrease to adoption levels; (2) Commercial: 5% decrease to demand forecast by 2046; 5% decrease to adoption levels; (3) Industrial: 8% decrease to demand forecast by 2046; 8% decrease to adoption levels.
Impacted Sectors: *Residential / Business*

High Touch Marketing. Intended to explore strategy of increasing marketing/high-touch administration to improve program delivery and increase program participation.[90] The high-touch marketing scenario is applied to RAP and produces a result between the current RAP and MAP levels to provide an indication which strategy (increased incentives or increased marketing) is likely to have a larger impact on adoption.

High Sensitivity: Assume historical incentive levels but raises the program awareness threshold to the MAP level. Non-Incentive costs were estimated to be higher as well.
Low Sensitivity: n/a
Impacted Sectors: *Residential / Business*

Additional Demand Response Rate Options.[91] The rates sensitivity includes rate programs that were not already included in the Base Case analysis (in addition to the programs in the Base Case). Table 5-8 lists the rate programs and eligible markets that were included in this sensitivity.[92] This list of rate programs included in the potential study was determined from common rate programs offered by utilities in the US and additional secondary research on rate design.[93,94]

TABLE 5-8. DEMAND RESPONSE RATE SENSITIVITY PROGRAM OPTIONS AND ELIGIBLE MARKETS[95]

Demand Response Program Option	Program Description	Eligible Markets
Peak Time Rebate	Customers are given a rebate for less consumption during times selected as critical periods.	Residential Customers
Critical Peak Pricing Rate	A retail rate in which an extra-high price for electricity is provided during critical periods of the year. Prices can be fixed or fluctuate with the market. Market-based prices are typically provided on a day-ahead basis, or an hour-ahead basis.	Residential and C&I Customers

[90] 20 CSR 4240-20.050 (1)(E)2
[91] 20 CSR 4240-20.050 (4); 20 CSR 4240-20.050 (4)(G)
[92] 20 CSR 4240-20.050 (1)(C)
[93] 20 CSR 4240-20.050 (4)(A)
[94] Rate Design Matters: The Intersection of Residential Rate Design and Energy Efficiency. ACEEE (Brendon Baatz). March 2017. Report U1703
[95] 20 CSR 4240-20.050 (4)(B)

Demand Response Program Option	Program Description	Eligible Markets
Time of Use Rate	A retail rate with different prices for usage during different blocks of time. Daily pricing blocks could include on-peak, mid-peak, and off-peak periods.	C&I Customers
Electric Vehicle TOU Rate	Special rate service for electric vehicles that charge off-peak.	Residential and C&I Customers
Interruptible Rate	A special tariff offered to large commercial & industrial (C&I) customers where they receive reduced energy or demand charges in exchange for agreeing to curtail a specified amount of load when the utility or grid operator calls an event.	C&I Customers
Thermal Electric Storage Cooling Rate	The use of a cold storage medium such as ice, chilled water, or other liquids. Off-peak energy is used to produce chilled water or ice for use in cooling during peak hours. The cool storage process is limited to off-peak periods.	C&I Customers
Golf Cart Charging Rate	Special rate service for golf courses that charge electric golf carts off-peak.	Golf Courses

Double-counting savings from demand response programs that affect the same end uses is a common issue that must be addressed when calculating the demand response savings potential.[96] For example, a direct load control (DLC) program of air conditioning and a rate program both assume load reduction of the customers' air conditioners. For this reason, it is typically assumed that customers cannot participate in programs that affect the same end uses. One cannot save a kW of load in a specific hour more than once. In general, the hierarchy of demand response programs is accounted for by subtracting the number participants in a higher priority program from the eligible market for a lower priority program. For the Rates Sensitivity, Table 5-9 shows the hierarchy of all programs in both the Base Case in addition to the extra rates, with 1 being the top priority.[97] Note that only cost-effective programs are included in the hierarchy.

TABLE 5-9. DR HIERARCHY FOR EACH SECTOR INCLUDING RATE PROGRAMS

Order	Residential Hierarchy	C&I (SGS) Hierarchy	C&I (LGS+) Hierarchy
1	DLC & TOU	DLC	Capacity Bidding
2	PTR	TOU	Interruptible
3	CPP	CPP	CPP

Demand reductions were based on various secondary data sources including the FERC and other industry reports, including demand response potential studies that conducted primary research. Rate-based DR options are typically assumed to reduce a percentage of the total facility peak load. Table 5-10 shows the assumed load reductions.[98]

[96] 20 CSR 4240-20.050 (3)(G)2
[97] 20 CSR 4240-20.050 (4)(D)2; 20 CSR 4240-20.050 (4)(D)3
[98] 20 CSR 4240-20.050 (4)(D); 20 CSR 4240-20.050 (4)(D)1

TABLE 5-10. DEMAND RESPONSE LOAD REDUCTION IMPACTS FOR RATE SENSITIVITY PROGRAMS

Program	Residential Load Reduction	Business Load Reduction
TOU Rate	N/A	2% Summer, 1% Winter
EV TOU Rate	0.39 kW Summer, 0.325 kW Winter	0.02 kW Summer, 0.03 kW Winter
Critical Peak Pricing Rate	12.8% Summer, 7.7% Winter	7.9% Summer, 6% Winter
Peak Time Rebate	14% Summer, 8% Winter	N/A
Interruptible Rate	N/A	23%
Thermal Electric Storage Cooling Rate	N/A	20% Summer
Golf Cart Charging Rate	N/A	42.75 kW per golf course

Table 5-11 provides the Rate Sensitivity long-term adoption rates for MAP and RAP. Annual adoption rates, sources, and specific assumptions for each program are in Appendix E.

TABLE 5-11 RATE SENSITIVITY ADOPTION RATES

Sector	Program	Steady State MAP Adoption Rate	Steady State RAP Adoption Rate
Residential	Peak Time Rebate	20%	13%
	Critical Peak Pricing	20%	15%
	EV TOU Rate	28%	20%
C&I	TOU Rate	25%	16%
	Interruptible Rate	28%	19%
	Critical Peak Pricing	18%	15%
	TES Cooling Rate	2%	1%
	Golf Cart Charting Rate	25%	16%
	EV TOU Rate	28%	20%

5.4.2 Sensitivity Results

Figure 5-6 shows the MW potential results of each sensitivity compared to the Base Case for each sector. The first bar in the graph is the base case, with the other sensitivities following. The Avoided Costs Low sensitivity did not lead to a change in potential, as no previously cost-effective programs dropped below 1.0 in cost-effectiveness. Sensitivities that led to a higher total RAP potential include the Avoided Costs High and High Touch Marketing sensitivities. The Economic Downturn sensitivity led to a lower total RAP potential.

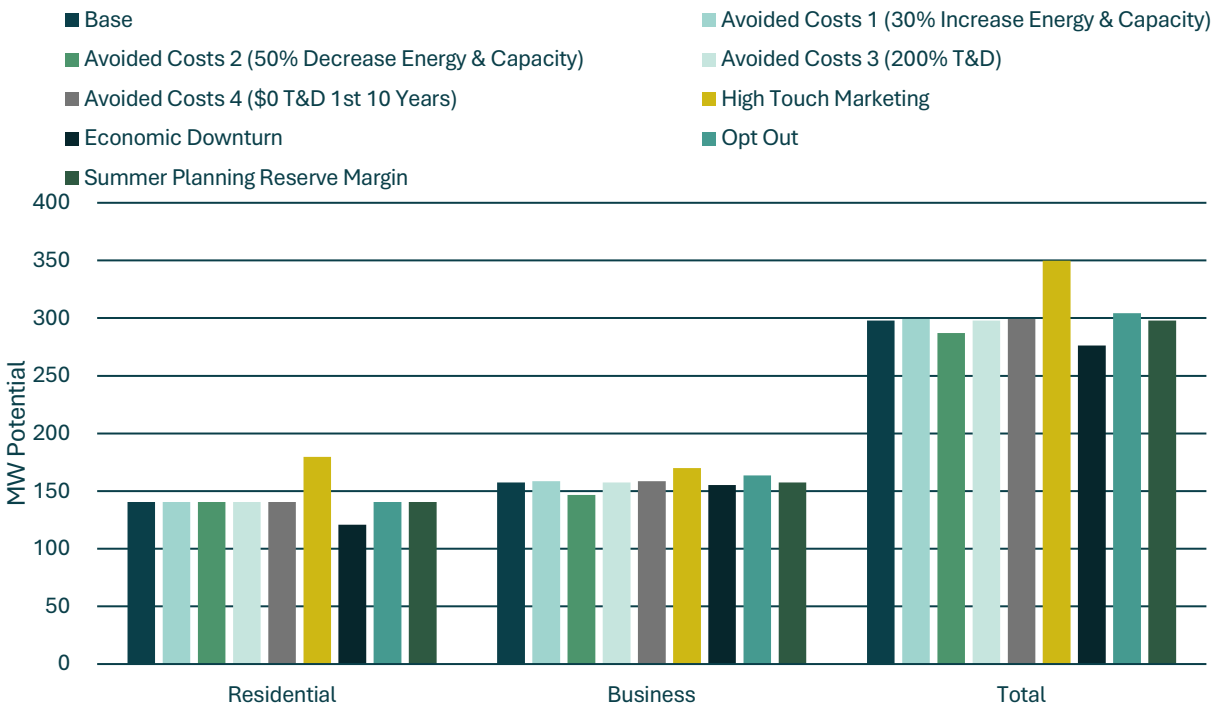


FIGURE 5-6. DEMAND RESPONSE RAP SENSITIVITIES (EXCLUDING RATE SENSITIVITY)

Figure 5-7 compares the Residential Base Case to the Rate Sensitivity. An additional 116 MW of RAP potential was added in the Rate Sensitivity.[99]

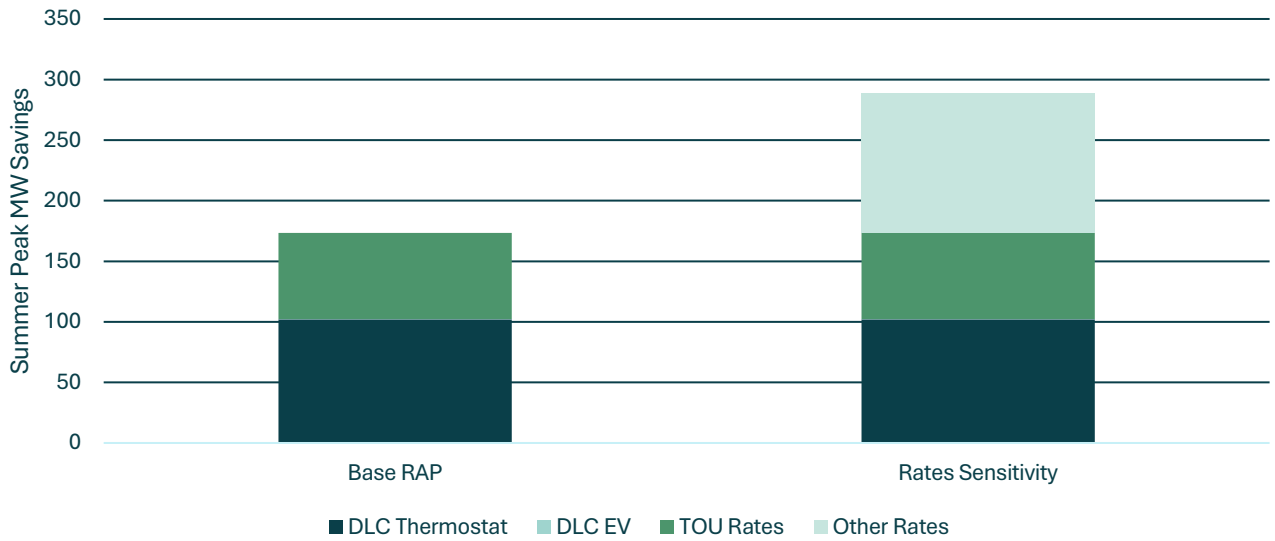


FIGURE 5-7. RESIDENTIAL BASE CASE RAP VS INCLUDING RATE SENSITVITY

[99] 20 CSR 4240-20.050 (4)(D)4; 20 CSR 4240-20.050 (4)(D)5A

Figure 5-8 shows a breakdown of the cost-effective rate programs contributing to the total potential. The biggest contributing program is the TOU rate of EV Charging.

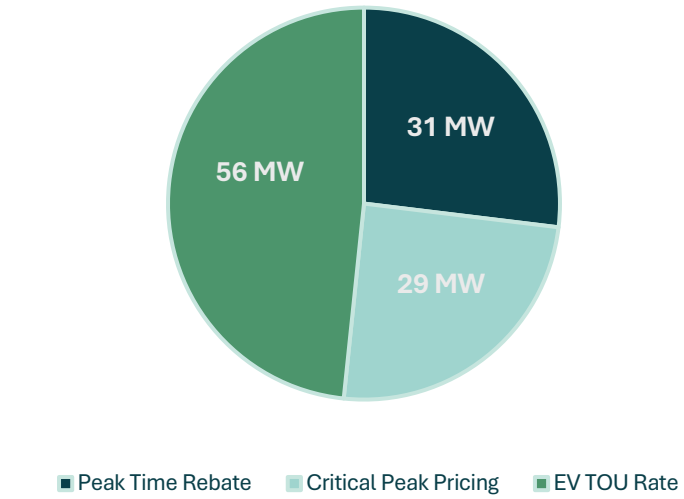


FIGURE 5-8. BREAKDOWN OF ADDITIONAL RATE DR FOR RESIDENTIAL SECTOR

Figure 5-9 compares the business sector Base Case to the Rate Sensitivity. An additional 105 MW of RAP potential was added in the Rate Sensitivity.

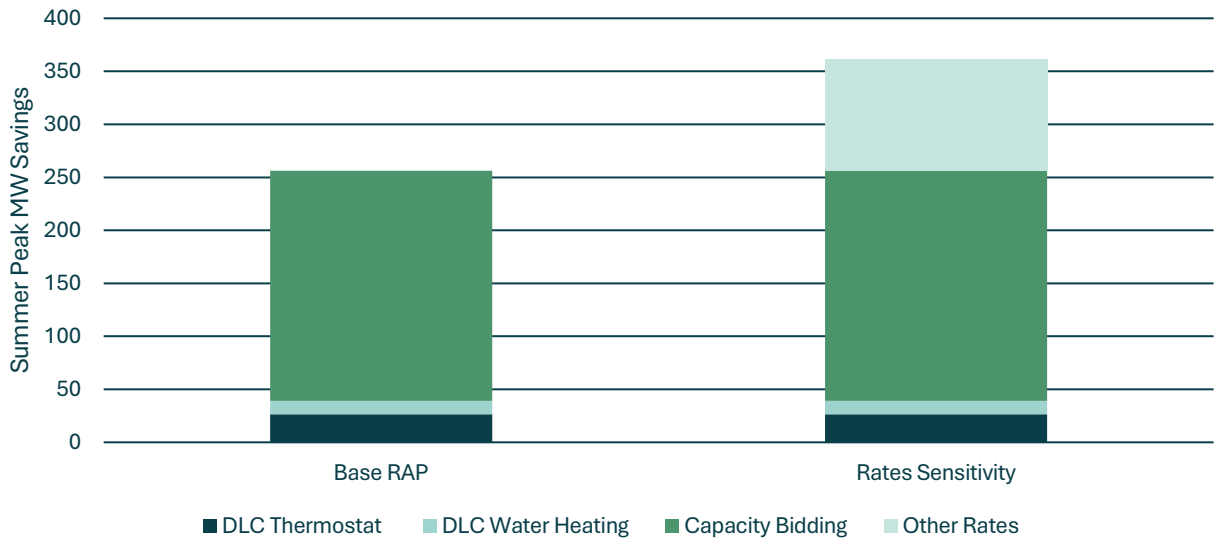


FIGURE 5-9. BUSINESS SECTOR BASE CASE RAP VS INCLUDING RATE SENSITVITY

Figure 5-10 shows a breakdown of the cost-effective rate programs contributing to the total potential. The biggest contributing program is the Critical Peak Pricing program.

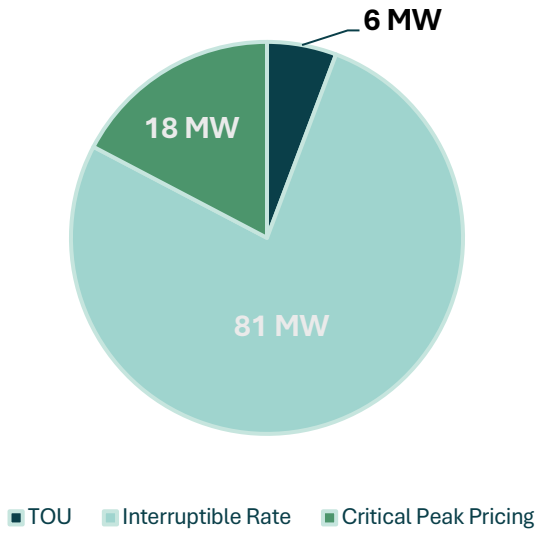


FIGURE 5-10. BREAKDOWN OF ADDITIONAL RATE DR FOR BUSINESS SECTOR

Cost-effectiveness of demand response measures was determined based on screening with the TRC test. Table 5-12 shows the residential and business sector TRC ratios for each program for MAP and RAP in the Rate Sensitivity.

TABLE 5-12. RATE SENSITIVITY MAP AND RAP TRC RATIOS[100]

Sector	Program	MAP TRC	RAP TRC
Residential	Electric Vehicle TOU	2.44	2.70
	Critical Peak Pricing Rate	7.30	8.82
	Peak Time Rebate	1.66	1.72
Business	Electric Vehicle TOU	0.03	0.02
	Time of Use Rate	3.36	3.22
	Critical Peak Pricing Rate	15.37	17.58
	Interruptible Rate	4.26	3.90
	Thermal Electric Storage Rate	0.05	0.03
	Golf Cart Charging Rate	1.37	0.99

[100] 20 CSR 4240-20.050 (4)(D)5B through D

06 DISTRIBUTED ENERGY RESOURCES POTENTIAL

This chapter focuses on additional DER technologies including CHP and Solar Photovoltaics (PV), and their potential in the Ameren Missouri service area under the current MEEIA cost-effectiveness framework. The market potential assessment for electric distributed energy resources (DER) included combined heat and power (CHP) and solar photovoltaic (PV) systems within Ameren Missouri service area for the period 2027 to 2046. Resources for this potential assessment study were limited to technologies that are behind-the-meter and owned by the customer. Market potential for supply-side resources were not considered within this assessment.

CHP systems generate electric power and useful thermal energy in a single, integrated system. Heat that is normally wasted in conventional power generation is recovered as useful thermal energy. Due to the integration of both power and thermal generation, CHP systems are more efficient than separate sources for electric power generation and thermal energy production. This provides environmental, economic, and energy system infrastructure benefits. Solar PV is a system that uses solar panels mounted on a rooftop of a home or business to generate electricity.

6.1 ANALYSIS APPROACH[101]

This section describes the overall methodology proposed to assess the electrical DER potential in the Ameren Missouri service area. The approach utilizes a bottom-up approach to estimate distributed energy resource potential by:

- Characterizing the applicable premises within each market sector, along with the premise-level energy consumption for average premise;
- Researching DER technology performance, including hourly profiles, along with installed and operating costs[102];
- Analysis of cost-effectiveness for each technology for each unique capacity and application[103];
- The TRC test, consistent with energy efficiency and demand response potential analysis along with the statute framework[104] was applied to consider as a DSM resource on equal footing with energy efficiency and demand response. No additional benefits for reliability or resilience were included in the analysis. It is GDS' understanding that reliability or resilience benefits are already included within the avoided electricity costs.
- Forecast achievable potential and program potential through application of customer adoption curve(s) for technologies that are cost-effective; and,
- Consider sensitivities through alternative scenarios with different unique inputs.

Many methodological activities and steps are similar to those performed in the energy efficiency potential study conducted within this report and are therefore not repeated.

6.1.1 Ameren Service Territory Characterization

The Ameren Missouri market sector and premise characterization within the DER potential assessment is aligned with the end-use energy consumption characterization used within the energy efficiency potential assessment, but the end-use properties are not as relevant. However, it is important to characterize premise type by annual energy consumption, as is this an important parameter to align with the technology generation capacity. While it is technically plausible, most end-users will not select technology capacities that are greater than annual electric energy consumption, as exporting electricity is not often cost-effective from the customer perspective. Table 6-1 and Table 6-2 summarize the energy consumption, percent of customers, and energy consumption shares for each cohort.

[101] 20 CSR 4240-20.050 (3)(I)
[102] 20 CSR 4240-22.050 (6)(B)
[103] Appendix F provides a list of technologies, key assumptions, and the results of the benefit-cost calculation results
[104] 20 CSR 4240-22.050 (5); The State of Missouri Revised Statutes, Chapter 393, Section 393.1075.1, states that "The commission shall consider the total resource cost test a preferred cost-effectiveness test."

Ameren Missouri customers with annual energy consumption less than 1,000 kWh were not considered for DER market potential.

TABLE 6-1 BUSINESS SECTOR COHORT CHARACTERIZATION

Business Thresholds	High End Energy (kwh) Threshold	Percent of Market Sector Customers	Percent of 2024 Energy Consumption by Market Sector
Petite	15,000	54.6%	2.1%
Very Small	100,000	31.6%	8.3%
Small	200,000	5.1%	4.8%
Small-Medium	500,000	4.7%	9.8%
Medium	750,000	1.3%	5.3%
Medium-Large	1,500,000	1.3%	9.3%
Large	4,000,000	1.0%	15.2%
Very Large	999,999,999	0.4%	45.2%

TABLE 6-2 RESIDENTIAL COHORT CHARACTERIZATION

Residential Thresholds	High End Energy (kwh) Threshold	Percent of Market Sector Customers	Percent of 2024 Energy Consumption by Market Sector
Small	4,500	9.5%	2.4%
Medium	10,000	36.7%	20.9%
Large	25,000	45.1%	54.3%
Very Large	9,999,999	8.7%	22.4%

For the combined heat and power technologies potential estimate, only a portion of the business sector population will be included. That is, only those customer segments whose electric and thermal load profiles allow for the application of CHP should be considered. Business customers in the Petite cohort are not expected to have the consistent electric and thermal loads necessary to support CHP.

6.1.2 Combined Heat & Power Technology

Estimates for each DER technology are unique, so the following narratives discuss the general methodology for each. In most CHP applications, a heat engine creates shaft power that drives an electrical generator (fuel cells can produce electrical power directly from electrochemical reactions). The waste heat from the engine is then recovered to provide steam or hot water to meet on-site needs. By combining the thermal and electrical energy generation in one process, the total efficiency of a CHP application far exceeds that of a separate plant and boiler system. Overall, the efficiency of CHP technologies can reach 75% or more, while simple-cycle electricity generation reaches only 40% and combined cycle generation typically achieves 50%. When considering both thermal and electric energy generation, CHP may require 25% less energy input to achieve the same energy output as a separate plant and boiler system. Figure 6-1 illustrates this point.

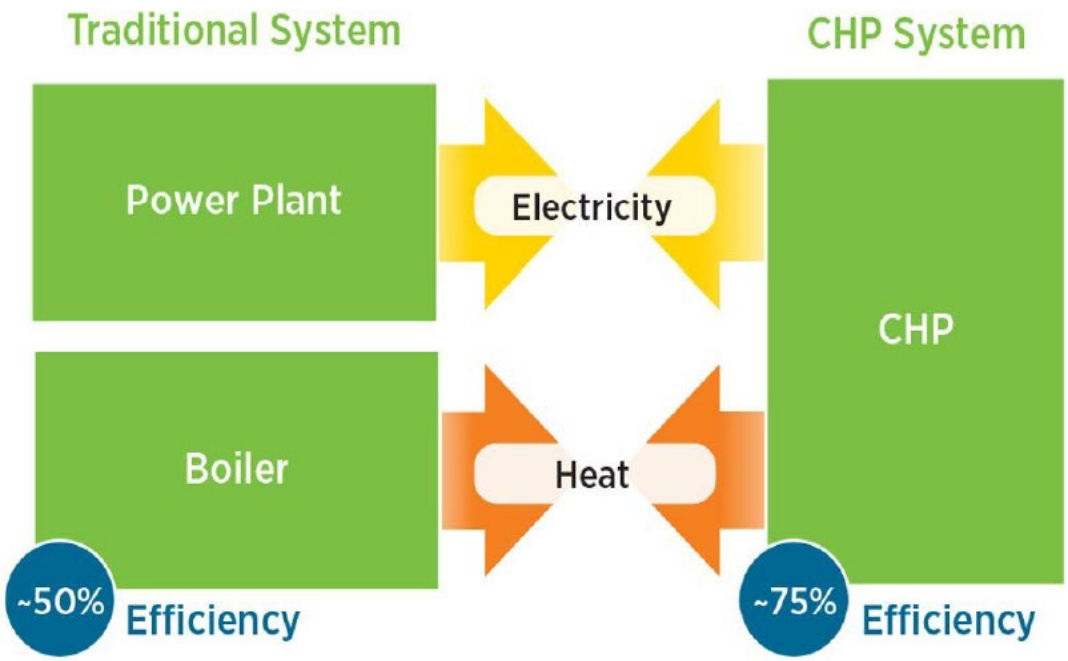


FIGURE 6-1: CHP ENERGY FLOW DIAGRAM

Common technologies used in CHP applications and explored in this study include:

- Steam turbines
- Gas turbines
- Micro turbines
- Fuel Cells
- Internal combustion engines

In a topping cycle system, fuel is first combusted to generate electricity. A portion of the heat left over from the electricity generation process is then converted into useful thermal energy (e.g. heating, hot water, or steam for industrial processes). A bottoming-cycle CHP system uses the reverse process. Fuel is first combusted to provide thermal input to industrial process equipment like a kiln or furnace, and the heat rejected from the process is then captured and used for power production. [105]

Applications with steady demand for electricity and thermal energy are potentially good economic targets for CHP deployment. Industrial applications, particularly in industries with continuous processing and high steam requirements, are very economic and represent a large share of existing CHP capacity today. Commercial applications such as hospitals, nursing homes, laundries, and hotels with large hot water needs are well suited for CHP. Institutional applications such as colleges and schools, prisons, and residential and recreational facilities are also excellent prospects for CHP.

As of 2025, there are four (4) existing operable CHP sites within the in Ameren Missouri service area, representing a total installed capacity of 100 MW.[106] CHP is generally dependent on natural gas availability, including pipeline capacity availability, and customer steam usage. Ameren Missouri assumes almost all electric customers also have access to

[105] U.S. Department of Energy, Combined Heat and Power (CHP) Technical Potential in the United States, March 2016, p. ii.
[106] U.S. DOE Combined Heat and Power Installation Database, https://doe.icfwebservices.com/chpdb/state/MO and discussions with Ameren Missouri.

natural gas either via the distribution system or the wholesale pipeline system. Ameren Missouri does not currently have predetermined financial incentives for CHP projects. However, Ameren Missouri can consider CHP projects submitted by business customers under the current Business Custom program. If a CHP project was submitted for consideration to receive an incentive via the Business Custom program, Ameren Missouri would then determine an appropriate incentive.

Selecting a specific CHP technology depends on several factors, which include but are not limited to power requirements, the duty cycle, space constraints, thermal energy needs, emission regulations, fuel availability, utility prices, and interconnection issues. Table 6-3 summarizes the CHP technologies evaluated in this study and their assumed operating parameters.

TABLE 6-3: CHP TECHNOLOGY COMPARISON[107]

Parameter	Internal Combustion Engine	Gas Turbine	Steam Turbine	Micro-Turbine	Fuel Cell
Size (kW)	50-5,000	500-50,000	10-100,000	30-250	200-2,000
Electric Efficiency	28-39%	25-40% (simple) 40-60% (combined)	5-15%	25-28%	36-42%
Overall Efficiency	73-79%	64-72%	~80%	67-72%	62%-67%
Fuels	Natural gas, biogas, propane, liquid fuels	Natural gas, biogas, propane, distillate oil	All	Natural gas, biogas, propane, distillate oil	Hydrogen, natural gas, propane
NOx Emissions (lb/MWh)	0.15-2.17	0.55-0.68	Function of boiler emissions	0.14-0.17	0.01-0.04
Uses for Heat Recovery	Hot water, low pressure steam, district heating	Direct heat, hot water, low- or high-pressure steam, district heating	Low- or high-pressure steam, district heating	Direct heat, hot water, low pressure steam	Hot water, low- or high-pressure steam
Thermal Output (Btu/kWh)	3,000-6,100	3,200-5,000	n/a	4,800-6,300	1,500-3,000
Useable Temp (°F)	200-500	500-1,100	n/a	400-650	140-700

Table 6-4 summarizes detailed CHP cost considerations and assumptions utilized in this analysis.[108]

TABLE 6-4: DETAILED CHP COST CONSIDERATION SUMMARY[109]

Technology Type	Size (kW)	Installed System Cost ($/W)[110]	Waste Heat Utilization (kBtu/kWh)	Capacity Factor	System Lifetime (years)	O&M Costs ($/kWh)
Fuel Cell	175	$15.50	2.6	0.76	20.0	$0.05
	500	$6.76				$0.04

[107] Combined Heat and Power Market Assessment. ICF International for the California Energy Commission, April 2010.
[108] 20 CSR 4240-20.050 (3)(G)5A
[109] Natural gas fuel costs were assumed to be $4.61/dekatherm; 2019 EIA Energy Outlook Assessment average industrial sector retail costs for years 2020 through 2030 in nominal dollars.
[110] Environmental and/or siting costs are not explicitly considered. For certain locations, these costs can be considerable and in addition to the installation costs estimated.

Technology Type	Size (kW)	Installed System Cost ($/W)[110]	Waste Heat Utilization (kBtu/kWh)	Capacity Factor	System Lifetime (years)	O&M Costs ($/kWh)
	800	$6.04				$0.06
	1,125	$5.26				$0.04
Gas Turbine	2,500	$3.32	6.0	0.78	20.0	$0.01
	3,000	$3.23	5.5			
	3,500	$3.09	5.2			
	5,000	$2.66	4.6			
	10,000	$1.82	3.7			
	15,000	$1.72	3.3			
	30,000	$1.45	2.8			
Micro Turbine	25	$3.63	5.9	0.42	10.0	$0.01
	100	$3.30	4.7			
	200	$2.92	4.3			
Reciprocating Engine	125	$2.88	5.0	0.36	20.0	$0.02
	350	$2.80	3.9			$0.02
	1,250	$2.49	3.0			$0.02
	3,000	$1.88	2.6			$0.02
	4,500	$1.73	2.5			$0.01
Steam Turbine	1,500	$5.00	32.4	0.45	20.0	$0.05
	3,500	$5.00	32.4			$0.05
	5,500	$5.00	32.4			$0.05

To estimate technical potential for CHP, the GDS Team first developed a screening process to identify probable CHP candidate premises. To effectively utilize CHP, a facility must have coincident electric and thermal energy requirements for a large load factor of the year. A continuous process industry with nearly constant steam or hot water demand electric load is an excellent target, such as a chemicals manufacturer or a hospital. Facilities with intermittent electric and thermal loads are progressively less attractive as the number of hours of coincident load diminishes. Hence our screening process will identify a minimum threshold kW level which represents feasible CHP opportunities.

A thermal factor was applied to potential candidate customer loads to reflect thermal load considerations in CHP sizing. In most cases, on-site thermal energy demand is smaller than electrical demand. Thus, CHP size is usually dictated by the thermal load in order to achieve proper efficiencies and adequate returns on investment. Using electric and thermal intensity data from prior studies, the GDS team used power to heat ratios for the prime mover CHP technology for different market segments to calculate the thermal factor as shown in following equation.

EQUATION 6-1: THERMAL FACTOR CALCULATION

$$Thermal\ Factor = \frac{P/H\ (CHP\ System)}{P/H\ (Customer\ Segment)}$$

A thermal factor of one (1.0) would result in the CHP system capacity being equal to the electric demand of the facility. A thermal factor of less than one would indicate that the application is thermally limited, and the resulting CHP system size would be below the electric demand of the facility. A thermal factor greater than one indicates that a CHP system sized

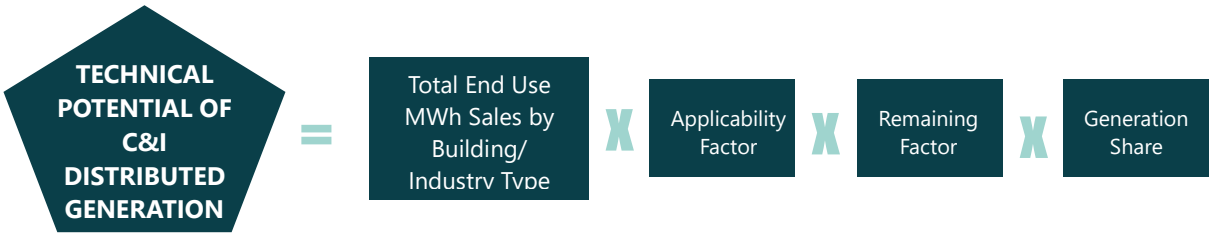
to the thermal load would produce more electricity than can be used on-site, resulting in excess power that could be exported to the grid. Any customer premises with an annual kWh consumption below an established threshold was removed from the analysis. The thermal factors and thresholds are intended to be reasonable values representative of the average building in each commercial segment that would be eligible to have a CHP technology installed onsite. A summary of the utilized thermal factors is listed in Table 6-5, as sourced from the DOE EPA CHP potential study.

TABLE 6-5: CHP POWER RATIOS BY SEGMENT

Industrial Segment	Heat to Power Ratio	Commercial Segment	Heat to Power Ratio
Chemicals	1.29	Education	0.75
Electrical Equipment Manufacturing	0.26	Health	0.94
Food Manufacturing	1.10	Public service	0.62
Primary Metals	0.33	Institutional	0.62
Paper	2.37	Grocery	0.20
Plastics Rubber	0.31	Lodging	0.84
Misc	1.34	Office	0.62
NonMetallic Mineral	0.25	Restaurant	0.48
General Equipment	0.25	Retail	0.37
Petroleum	3.83	Warehouse	0.68
Fabricated Metals	0.50	Misc.	0.68

After developing the screening method our team calculated the average building consumption for each commercial and industrial segment. Next, we estimated a building energy savings share percentage for each CHP technology based on its generation capacity. We applied those savings shares to the applicable share of the sector load to estimate technical potential. The core equation utilized in the technical potential analysis for each individual CHP technology is shown the equation below.

EQUATION 6-2: THERMAL FACTOR CALCULATION



Applicability Factor = the share of the premises where it is technically feasible to add CHP technology from an engineering perspective (e.g., it may not be possible to install exhaust flues or obtain necessary emission permits for premises).
Remaining Factor = the fraction of equipment that does not have existing CHP technologies (or other similar competing DER resource). This can be removed from the technical and economic potential, as there are a limited number of sites where CHP is viable and had not already been considered.
Generation Factor = the share of electric consumption resulting from CHP technology. This percentage is closely related to power-to-heat ratios that are unique for each CHP technology and premise type, based on expectations of thermal loads for processes and occupants. Additionally, care must be taken align the potential CHP technology capacity with a similar premise thermal and electric consumption. In order to accomplish this, multiple cohorts for applicable premise types will be developed based on standard CHP capacity ranges (i.e., 500kW, 1,000kW, etc).

6.1.3 Solar Photovoltaic

Photovoltaic systems utilize solar panels, a packaged collection of photovoltaic cells, to convert sunlight into electricity. A system is constructed with multiple solar panels, a DC/AC inverter, a racking system to hold the panels, and electrical system interconnections. These systems are often roof-mounted systems that face south-west, south, and/or, south-east. Systems can have a fixed tilt position or they can automatically adjust tilt to track the suns movement. This study analyzed the potential associated with roof-mounted systems installed on residential and business sector buildings. Additionally, for the business market segment, the team estimated potential for ground mounted (or covered parking) systems for a few specific business types, such as municipal facilities, parking enclosures, and some high-end hospitality facilities. Single axis tracking PV systems were also analyzed for business sector buildings. Integrated battery storage was analyzed as an additional configuration with each with solar PV system type. This study did not explore the market potential associated utility-scale solar PV installations.

The assessment of the market potential from distributed solar PV was estimated through the following steps:

- Characterize the existing and new residential, commercial, and industrial building stocks, including relevant parameters such as number of facilities, average number of floors, and average premise square footage by utility.
- Calculate the total available roof area feasible for installing solar PV systems from the forecast disaggregation analysis to characterize the existing and new residential, commercial, and industrial building stocks. Relevant characterized parameters include share of pitched/flat roofs and unusable area due to other rooftop equipment.
    - Premises with existing solar PV will be removed.
- Align the premise energy consumption using the premise cohorts in Table 6-1 and Table 6-2 with analyzed standard system sizes.
    - Residential: System size is limited by 100% of the average energy consumption of the cohort.
    - Non-Residential: System size is limited by the available roof area and expected power density (kW per square foot of roof area).
- Develop standardized solar PV system configurations to characterize performance and system costs.
    - System sizes for residential premises range from 3 to 25 kW (DC) and 3 to 2,000 kW (DC) for business premises.
    - Battery system sizes for each solar PV system size were selected to dispatch energy for 2-4 hours during low and/or non-generation time periods.
- Analyze the energy generation output, capacity factors, and hourly load shapes using proven calculation tools, such as PVWatts[111] and System Advisor Model (SAM)[112] simulations. System models were generated for St. Louis City and determined an average rooftop suitability present for 81% of buildings across the territory. The GDS team applied this suitability factor to each building segment.

Our approach to calculate technical potential estimates the total number of buildings in Ameren's territory with rooftops suitable for siting solar PV systems and calculating the solar PV system generation based on building characteristics. This calculation is computed using following equation:

EQUATION 6-3: SOLAR PV TECHNICAL POTENTIAL CALCULATION

$$PV\ Technical\ Potential = \Sigma(Homes\ with\ Suitable\ Rooftop \times PV\ System\ Generation)$$

The two key parameters in the equation were from multiple data sources relevant to Ameren's territory. We discuss our methods for defining these parameters below. To estimate the total number of buildings containing rooftop area suitable to host solar PV within Ameren's territory, the GDS team leveraged multiple data sources including the National

[111] PVWatts estimates solar PV energy production and costs. Developed by the National Renewable Energy Laboratory. (NREL) http://pvwatts.nrel.gov/

[112] SAM estimates houlry solar PV energy production and costs with more detailed inputs and outputs than PVwatts. Developed by the National Renewable Energy Laboratory. (NREL) http:// https://sam.nrel.gov/

Renewable Energy's (NREL) National Solar Radiation Database (NSRDB), Google's Project Sunroof, and customer account information provided by Ameren Missouri. We defined suitable rooftop based on NREL and Google models with the following key screening parameters:

- **Contiguous rooftop area size:** 4 contiguous panels
- **Rooftop orientation (tilt and azimuth):** All orientations permitted
- **Minimum solar exposure:** 75% of optimal orientation
- **Shading:** Accounts for trees, buildings, and other obstructions within 100-150 meters as well as obstructions on the roof
- **Existing solar PV:** Estimated based on aerial imagery



FIGURE 6-2: EXAMPLE OF GOOGLE PROJECT SUNROOF DETAIL

Our team relied on NREL's PVWatts (Version 6) and SAM tools to estimate system generation for both residential and commercial sited systems. PVWatts models PV power density based on site specific resource data sourced from NREL's LIDAR-based NSRDB to estimate total solar irradiance in conjunction with PV system specifications. For this analysis the following assumptions are summarized in Table 6-6.

TABLE 6-6: KEY ASSUMPTIONS IN SOLAR PV ANALYSIS[113]

Parameter	Assumptions
Module Type	Standard (Crystaline Silicon)
Residential System Sizes (Nominal DC Capacity)	3 kW, 5 kW, 7 kW, 10 kW, 25 kW, 50 kW
Business System Sizes (Nominal DC Capacity)	3 kW, 5kW, 7 kW, 10 kW, 25 kW, 50 kW, 100 kW, 250 kW, 500 kW, 1,000 kW, 2,000 kW
System losses	14.1%
Tilt (Fixed)	35 degrees
Azimuth (Residential)	168 degrees
Azimuth (Business)	180 degrees
Capacity Factor (Fixed)	16.3%
Capacity Factor (Tracking)	18.6

[113] 20 CSR 4240-20.050 20 CSR 4240-20.050(3)(G)1

Parameter	Assumptions
DC to AC size ratio	1.15
Inverter efficiency	96% (micro-inverter)
Battery Round-Trip Efficiency	85%
Technology Useful Life	20 years

As part of the analysis, our team calculated capacity factors for both residential and commercial buildings. Using rooftop orientation data from Google for various locations within Ameren's territory, the GDS team estimated an average residential system capacity factor weighted by varying rooftop orientations. The commercial capacity factor was based on an assumed flat-roof building. We applied the capacity factor to the system size and multiplied by 8,760 to estimate annual electricity generation.

To estimate economic potential for solar PV, pertinent data on system costs were gathered along with calculated generation benefits to use in the benefit-cost analysis which was conducted at the measure level. The GDS team relied on multiple data sources to determine the solar PV system costs for varying system sizes and configurations. We assessed system component costs based on data included the National Renewable Energy Laboratory's (NREL) Q1 2021 Benchmarking report[114] which provided detailed cost information on modules, inverters (by technology), structural and electrical balance of system, supply chain, permitting-inspection-interconnection, marketing, overhead, and profit. Cost parameters were adjusted these from a national level to Missouri-specific values by using various market data provided by Energy Sage[115]. This analysis produced an estimated installation cost per watt installed which was applied to various system sizes to estimate total installed cost. Additionally, O&M costs were included that scale with system size. Finally, we assumed the impact of the federal investment tax credit (ITC) to follow the existing schedule at the time of this report which equates to a 30% tax credit for commercial and residential systems by 2026.[116]

In addition to modeling solar PV system costs, the GDS team also estimated cost impacts for solar PV systems coupled with battery storage. As these systems are far less prevalent in both residential and commercial systems at the time of reporting, fewer published data on battery costs, balance of system costs, and maintenance were available. Moreover, the battery capacity is also variable based on the service need. Ultimately, on multiple data sources were used to assume an overall capital cost per kWh based on a 3- or 4-hour battery for various measure permutations. O&M costs were largely defined by a ten-year amortized battery replacement cost.

TABLE 6-7: ASSUMED SOLAR PV INSTALLATION COST (2026)[117]

Parameter	Assumptions
Residential	$2.80
Residential (Battery)	$3.20-$6.70
Business, roof mounted	$1.72
Business, roof mounted (Battery)	$1.98-$3.35
Business, ground mounted	$1.72
Business, ground mounted (Battery)	$1.84
Operations & Maintenance	$16/kw/yr
Operations & Maintenance (with battery)	$29/kw/yr

[114] U.S. Solar Photovoltaic System Cost Benchmark: Q1 2021. NREL, May 2025.
[115] Energysage Solar and Storage Marketplace Report, Spring 2025.
[116] 20 CSR 4240-22.050 (3)(G)5C, EO-2023-0099 1C (Special Contemporary Issues)
[117] 20 CSR 4240-20.050 (3)(G)5A

6.1.4 Customer Adoption

It is notable while the TRC test for solar PV systems doesn't meet a 1.0 cost-effectiveness threshold, Ameren customers install solar PV systems at their homes and businesses. Consequently, a baseline, business-as-usual (BAU) forecast was developed for integration into the IRP modeling along with expected customer adoption for maximum and realistic potential for those system configurations and premise types where technologies pass a cost-effectiveness threshold of TRC equal to 1.0 or greater. The customer adoption forecasts are based upon:

- Number of existing installed systems,
- Trend of existing system installation from 2015-2024,
- Willingness to participate and market adoption data collected from Ameren customers during the 2020 Ameren Missouri DSM Market Potential Study,
- Bass-diffusion curve and coefficients based upon the NREL dGen model[118] for the state of Missouri, EIA DGPV interconnection and Census data

Three adoption scenarios for CHP and solar PV installations are described below[119]:

- **Realistic Achievable Potential**;
  - up to 36% market adoption for the residential sector, and
  - up to 15% market adoption for the non-residential sector, and
- **Maximum Achievable Potential**;
  - up to 74% market adoption for the residential sector, and
  - up to 26% market adoption for the non-residential sector

6.2 DER POTENTIAL FINDINGS

This section of the report presents the Technical, Economic, Achievable (MAP and RAP) for CHP and Solar PV.

6.2.1 Combined Heat & Power

Table 6-8 summarizes the CHP cumulative potential estimates for electric demand and Table 6-9 for electric energy. 2046 technical market potential for CHP represents 23.4% of the 2046 business sector sales forecast and economic potential represents 5.4% of the 2046 business sector sales forecast.

TABLE 6-8: CUMULATIVE SUMMARY OF CHP ELECTRIC DEMAND MARKET POTENTIAL

Year	Technical (MW)	Economic (MW)	MAP (MW)	RAP (MW)
2029	12.2	5.4	5.0	4.0
2036	77.4	34.3	29.9	20.1
2046	348.7	154.4	115.7	53.6

TABLE 6-9: CUMULATIVE SUMMARY OF CHP ELECTRIC ENERGY MARKET POTENTIAL

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
2029	86,790	35,698	32,930	26,216
2036	551,195	225,521	196,943	132,551
2046	2,522,013	1,016,481	761,578	352,835

Figure 6-3 summarizes the shares of technical potential by CHP technology type. Fuel cells and gas turbines account for nearly three-quarters of the technical potential.

[118] https://www.nrel.gov/analysis/dgen/
[119] 20 CSR 4240-22.050 (3)(G)5B, 20 CSR 4240-22.050 (6)(C)1

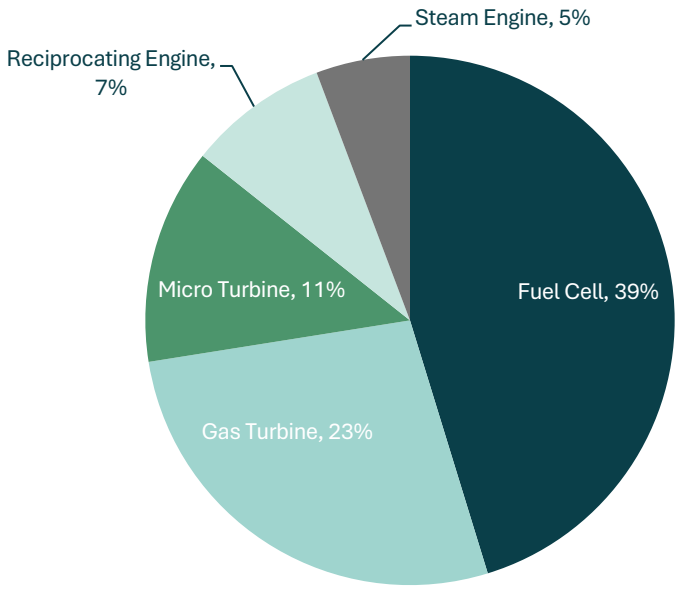


FIGURE 6-3: CHP 2046 TECHNICAL POTENTIAL TECHNOLOGY SHARES

Table 6-10 summarizes the cost effectiveness results for each technology and for each cost-effectiveness perspective. Costs included in the Utility Cost test (UCT) and Rate Impact Measure (RIM) test include incentives to the customer at a 30% share of the technology incremental cost. The Participant Test does not include the consideration of the customer incentive as representation of the customer decision-making process absent program intervention.

TABLE 6-10: SUMMARY OF CHP COST-EFFECTIVENESS[120]

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
Fuel Cell (175 - 1,125KW)	0.3 – 0.5	0.7 – 2.0	0.9 – 2.6	0.3 – 0.4
Gas Turbine (2,500 – 30,000KW)	0.6 – 1.1	2.9 – 5.2	1.7 – 3.0	0.5
Micro-Turbine (Gas) (25 – 200KW)	0.5	1.6 – 2.0	1.2 – 1.3	0.4
Reciprocating Engine (125 – 4,500KW)	0.5 – 0.7	1.7 – 2.7	1.3 – 1.8	0.5
Steam Turbine (1,500 – 5,000KW)	0.2	1.3	0.6	0.4

Large gas turbines, with capacity greater than 15 MW, are the technologies that are passing TRC cost-effectiveness. For all CHP technologies, the systems with the larger capacity are the most cost-effective with economies of scale.

It is notable that most of the CHP technologies do not pass cost-effectiveness screening under the TRC test following the MEEIA framework. This test is the primary cost-effectiveness criteria used to determine whether a utility sponsored program intervention is prudent. However, it may be the case that certain site location conditions have important performance parameters that allow for a favorable cost-effectiveness assessment for that specific site, even if the

[120] 20 CSR 4240-20.050 (5)(E); 20 CSR 4240-20.050 (5)(F)

average system and facility is not cost-effective as analyzed. Additionally, it is notable that for the many of the technologies are cost-effective from the participant cost test while failing the TRC test.

This analysis assumes that Ameren Missouri will continue to offer CHP technologies through the Business Custom program for upcoming years. Table 6-11 summarizes that expected budget that would need to be included within the Custom program to cover the CHP market achievable potential.

TABLE 6-11: CHP PROGRAM BUDGETS ($ IN MILLIONS)

Year	Program MAP Budget (Millions)	Program RAP Budget (Millions)
2036	$13.7	$5.5
2046	$29.7	$6.6

Program budgets reflect the following assumptions regarding CHP:

- For Realistic Achievable Potential (RAP), there is an assumed installation incentive of $200/kw up to $25,000 (or 40% of installed cost), until a project hit a $2M total rebate.
- For Maximum Achievable Potential (RAP), there is an assumed installation incentive of 100% of installed cost.
- Program administrative cost of 25% of the total incentive costs was assumed.

6.2.2 Solar Photovoltaics

Table 6-12 and Table 6-13 summarize the Solar PV cumulative energy potential estimates for electric generation for the residential and non-residential sectors respectively. Table 6-14 and Table 6-15 summarize the Solar PV cumulative demand potential estimates for the residential and non-residential sectors. 2046 technical market potential for Solar PV represents 28.3% of the 2046 residential and business sector sales forecast combined.

TABLE 6-12: SUMMARY OF RESIDENTIAL SOLAR PV ELECTRIC DEMAND MARKET POTENTIAL

Year	Technical DC Capacity (MW)	Technical Peak Capacity (MW)[121]	Economic (MW)	MAP (MW)	RAP (MW)
2029	274	116	0	0	0
2036	2,837	1,203	0	0	0
2046	4,566	1,936	0	0	0

TABLE 6-13: SUMMARY OF NON-RESIDENTIAL SOLAR PV ELECTRIC DEMAND MARKET POTENTIAL

Year	Technical DC Capacity (MW)	Technical Peak Capacity (MW)[122]	Economic (MW)	MAP (MW)	RAP (MW)
2029	26.5	11.7	0	0	0
2036	183	80.8	0	0	0
2046	1,018	449	0	0	0

TABLE 6-14: SUMMARY OF RESIDENTIAL SOLAR ELECTRIC ENERGY MARKET POTENTIAL

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
2036	4,043,280	0	0	0
2046	6,506,260	0	0	0

[121] This peak capacity represents the alternating current (AC) production between the hours of 16 and 18 and may not align with MISO Resource Adequacy models.

[122] This peak capacity represents the alternating current (AC) production between the hours of 16 and 18 and may not align with MISO Resource Adequacy models.

TABLE 6-15: SUMMARY OF COMMERCIAL SOLAR ELECTRIC ENERGY MARKET POTENTIAL

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
2036	273,199	0	0	0
2046	1,518,507	0	0	0

Table 6-16 summarizes the cost effectiveness results for each technology and for each cost-effectiveness perspective. Costs included in the Utility Cost Test (UCT) and Rate Impact Measure (RIM) test include incentives to the customer at a 30% share of the technology incremental cost. The participant cost test does not include incentive payments. This is a necessary assumption to identify likely participant decision-making, in the absence of a utility funded program intervention. The participant cost test also assumes that all energy produced is consumed on site.

TABLE 6-16: SUMMARY OF SOLAR PV COST-EFFECTIVENESS[123]

Solar PV Technologies	TRC Test Range	UCT Range	Participant Test Range	RIM Ratio Range
Residential Roof-mounted (3 – 25kW)	0.4 – 0.6	1.1 – 1.3	0.9 – 1.1	0.4
Residential Roof-mounted with Batteries (3-25kW)	0.4 – 0.6	0.7 – 0.8	0.9 – 1.0	0.3
Business Roof mounted (5 – 1,000kW)	0.6 – 0.8	1.1 – 2.1	1.6	0.4
Business Roof mounted with Batteries (5-1,000KW)	0.4 – 0.5	1.8 – 1.9	1.0 – 1.4	0.4 – 0.5
Business Ground mounted (100 KW-2MW)	0.7 – 0.8	1.9 – 2.2	1.4 – 1.6	0.4
Business Ground mounted with Batteries (100 KW-2MW)	0.6 – 0.7	1.9 – 2.0	1.3 – 1.4	0.4
Business Ground mounted Tracking (100 KW-2MW)	0.7 – 0.9	2.5 – 3.0	1.6 – 1.7	0.5
Business Ground mounted Tracking with Batteries (5-50KW)	0.7 – 0.8	2.0 – 2.2	1.3 – 1.4	0.4 – 0.5

It is notable that no Solar PV technologies pass cost-effectiveness screening under the TRC test following the MEEIA framework. This test is the primary cost-effectiveness criteria used to determine whether a utility sponsored program intervention is prudent. For all technologies, the systems with the larger capacity are more cost-effective largely because of the economies of scale. As systems approach small utility/neighborhood scale, over 2,000 KW, systems approach cost-effective. Consequently, while these customer-owned, behind-the-meter systems do not pass cost-effectiveness, readers should not conclude that solar PV is a resource where Ameren should not consider investment as there are alternative cost-effectiveness perspectives outside of the MEEIA framework.

Additionally, it is notable that for many of the technologies are cost-effective from the participant cost test perspective while failing the TRC test. While the participant cost is not an exact replica of a customer choice criteria, like a pay-back period, it is a reasonable proxy for customer decision making. With many technologies passing the participant cost test, this is congruent with industry interest and adoption of solar PV systems, in particular for large business sector customers.

The battery storage capacity and battery dispatch approach can have a significant impact on the hourly load. The battery was sized to be dispatch for up 3 to 4 hours of operation of approximately 20-25% of the solar PV DC capacity rating. The

[123] 20 CSR 4240-20.050 (5)(E); 20 CSR 4240-20.050 (5)(F)

dispatch model selected was a method that would be beneficial for the end-use customer, specifically to extend the solar production shape further into the late afternoon to reduce tariff demand charges and/or accommodate short-term weather events. It is assumed that the battery would be dispatched to 85% of the rated capacity and primarily on weekdays. Increasing the battery capacity to maximize the peak capacity benefits was considered, but the additional costs did not outweigh the additional benefits. Finally, the battery storage is assumed to be charged by the solar PV (and not re-charged by the electric grid). This approach ultimately shifts the production load shape and hour or two later into the afternoon.

6.3 SENSITIVITIES

As part of the market potential assessment for DERs, five sensitivities were analyzed to consider potentially different outcomes if input parameters effecting future participation or cost-effectiveness were to change from the original assumptions.[124] These sensitivities included:

- Higher and lower avoided energy costs
- IRP vintage avoided costs
- Higher avoided transmission and distribution costs
- All eligible DSM opt-out large business customers included

6.3.1 Avoided Energy Costs Sensitivity

Table 6-17 summarizes the market potential outcomes and changes if avoided energy costs were to increase by 35% or decrease by 25%. For combined heat and power technologies, the passing cost-effectiveness threshold includes gas turbines 5 MW and larger. For solar photovoltaics, residential systems do not pass the cost-effectiveness threshold and ground mounted commercial systems larger than 1,000 MW pass a TRC cost-effectiveness threshold of 1.0.

TABLE 6-17: SUMMARY OF MARKET POTENTIAL OUTCOMES WITH DIFFERENT AVOIDED ENERGY COSTS

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
Higher Avoided Energy Costs (35%)				
Combined Heat and Power (2046)	2,522,013	1,274,955	955,234	442,555
Percent difference to base scenario	0%	20%	20%	20%
Solar PV (2046)	8,024,767	16,326	11,585	6,253
Percent difference to base scenario	0%	n/a	n/a	n/a
Lower Avoided Energy Costs (25%)				
Combined Heat and Power (2046)	2,522,013	0	0	0
Percent difference to base scenario	0%	n/a	n/a	n/a
Solar PV (2046)	8,024,767	0	0	0
Percent difference to base scenario	0%	n/a	n/a	n/a

6.3.2 IRP Vintage Avoided Costs Sensitivity

Table 6-18 summarizes the market potential outcome with the avoided energy costs from the 2026 IRP vintage avoided costs. This change in avoided energy and demand costs does not change the cost-effectiveness threshold screen; therefore, the market potential remains unchanged.

[124] 20 CSR 4240-20.050 (6)(C)2

TABLE 6-18: SUMMARY OF CUMULATIVE MARKET POTENTIAL OUTCOMES WITH DIFFERENT AVOIDED COSTS

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
IRP Vintage Avoided Costs				
Combined Heat and Power (2046)	2,522,013	1,016,481	761,578	352,835
Percent difference to base scenario	0%	0%	0%	0%
Solar PV (2046)	8,024,767	0	0	0
Percent difference to base scenario	0%	0%	0%	0%

6.3.3 Avoided T&D Cost Sensitivity

Table 6-19 summarizes the market potential outcomes and changes if avoided transmission and distribution costs were zero for the next 10 years or if they were to increase by 200% or 500%. The later sensitivity is a proxy analysis for potential locational value where specific electric network component costs could be deferred or eliminated through the acquisition of DERs on that limited network.

TABLE 6-19: SUMMARY OF MARKET POTENTIAL OUTCOMES WITH DIFFERENT AVOIDED T&D COSTS

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
Higher Avoided Energy Costs (35%)				
Combined Heat and Power (2046)	2,522,013	1,168,953	875,815	405,760
Percent difference to base scenario	0%	15%	15%	15%
Solar PV (2046)	8,024,767	0	0	0
Percent difference to base scenario	0%	n/a	n/a	n/a
Lower Avoided Energy Costs (25%)				
Combined Heat and Power (2046)	2,522,013	1,274,955	955,234	442,555
Percent difference to base scenario	0%	20%	20%	20%
Solar PV (2046)	8,024,767	16,326	11,585	6,253
Percent difference to base scenario	0%	n/a	n/a	n/a

6.3.4 All Large Business Customer Opt-Outs Removed

Table 6-20 summarizes the market potential outcomes and changes if all eligible large business customers do not opt-out of DSM (largely rate class 11M). Solar PV does not substantially change, because the inclusion of these several hundred customers do not add much roof area.

TABLE 6-20: SUMMARY OF CUMULATIVE MARKET POTENTIAL OUTCOMES RELATED TO INCUDING LARGE CUSTOMER OPT-OUTS

Year	Technical (MWh)	Economic (MWh)	MAP (MWh)	RAP (MWh)
IRP Vintage Avoided Costs				
Combined Heat and Power (2046)	3,505,598	1,412,909	1,058,593	490,441
Percent difference to base scenario	39%	39%	39%	39%

07 COMBINED RESULTS

This section provides total cost-effectiveness, savings, and program budgets for each study, along with a combined total, where appropriate.

7.1 CUMULATIVE POTENTIAL SAVINGS

Table 7-1 provides cumulative program RAP results for energy savings across the 3-yr, 10-yr and 20-yr timeframes. The combined program RAP potential is more than 400,000 MWh by 2029, with more about two thirds of the potential from the business sector. By 2046 the combined program RAP is nearly 2.8 million MWh.

TABLE 7-1 COMBINED PROGRAM RAP ENERGY EFFICIENCY POTENTIAL

Sector/Component	2029	2036	2046
Residential EE	124,643	642,764	1,378,413
Business EE	265,988	790,575	1,057,711
Demand Response	0	0	0
Distributed Energy	26,216	132,551	352,835
Combined Total	**416,847**	**1,565,891**	**2,788,959**

Figure 7-1 shows breakdown of the contributions of each study component towards the 3-yr, 10-yr, and 20-yr program RAP savings as a percentage of total forecasted sales. The cumulative savings increases from 1.6% in 2029 to 10.5% by 2046. The residential sector accounts for 30% of the potential in 2029, rising to 49% by 2046, with most of the remaining potential from the business sector. Distributed energy accounts for 13% of the potential by 2046. Demand response does not contribute to the energy savings potential.[125]

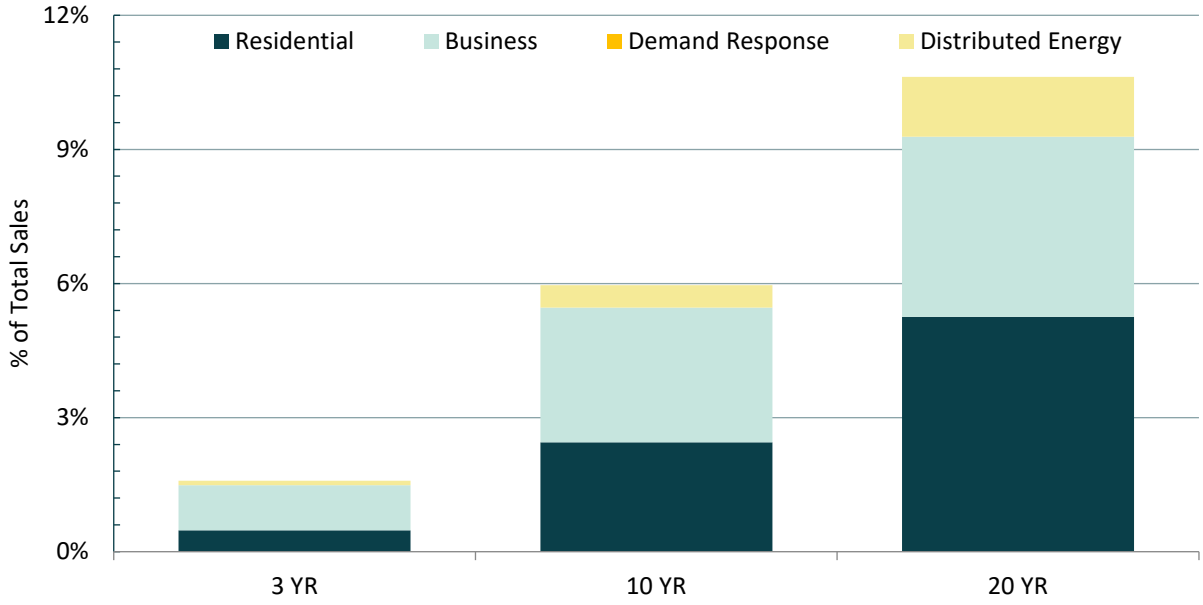


FIGURE 7-1: PROGRAM RAP ENERGY EFFICIENCY POTENTIAL BY STUDY COMPONENT

[125] Potential savings from DER installations would likely be attributed to the business custom program.

Table 7-2 provides the cumulative program RAP results for demand savings across the 3-yr, 10-yr and 20-yr timeframes. The combined program RAP potential is 436 MW by 2029, with more about three quarters from demand response. By 2046 the combined program RAP is 1,327 MW, with the residential EE and business EE components also contributing significant demand savings over 20 years. The demand response cumulative potential reflects both new adoption in the given year and the continued participation of customers who adopted the program in prior years.

TABLE 7-2 COMBINED PROGRAM RAP PEAK DEMAND REDUCTION POTENTIAL

Sector/Component	2029	2036	2046
Residential EE	55	263	508
Business EE	83	260	357
Demand Response	294	373	431
Distributed Energy	4	20	54
Combined Total	**436**	**916**	**1,349**

7.2 OVERALL SPENDING

Figure 7-2 shows the annual program RAP budgets for all study components at the 10-yr and 20-yr timeframes. Total budgets range from $144 million in 2036 to more than $183 million by 2046.

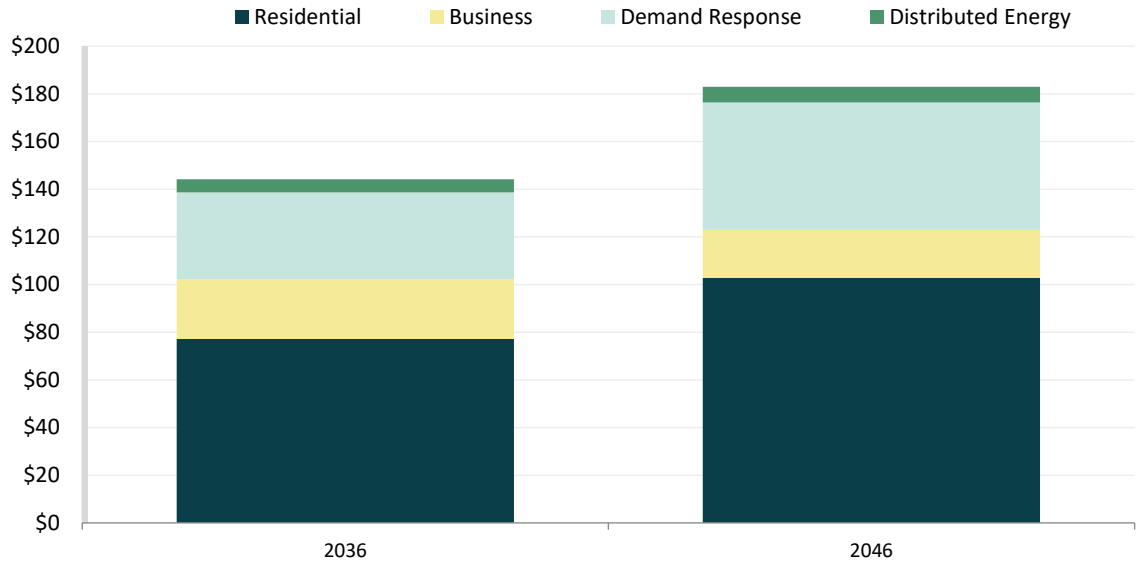


FIGURE 7-2: COMBINED PROGRAM RAP BUDGETS

7.3 ENERGY EFFICIENCY BENCHMARKING

As part of a review of the energy efficiency potential results, the GDS Team was tasked to update the benchmarking analysis (completed as part of the 2023 MPS) with the current 2026 MPS results for Ameren Missouri and any updated potential estimates available from the comparison utilities.

The GDS Team focuses the 2026 benchmarking comparison on recent potential data for neighboring states or other utilities in the region. The same jurisdictions included in the 2023 study were retained to the degree updates since the prior benchmarking study were available.

In reviewing the updated studies, GDS saw a trend in changes to the focus for studies. Historically, ten- or twenty-year timeframes were standard practice. Standard practice also emphasized technical, economic, and maximum achievable

potentials, in addition to forms of realistic potential. In these new studies, including those performed by GDS, there is greater emphasis placed on near-term scenarios that reflect program plan filing periods (ranging from roughly four to six years). Additionally, these near-term scenarios often reflect policy constraints that limit spending levels or have other requirements that direct spending or the source of savings. The goals of multiple scenarios are meant to provide a range of possible outcomes that reflect future portfolio design emphasizes or policy considerations. As the focus on the near-term is common, the nature of reported savings differs. These newer studies may focus on annual sector or portfolio savings, or cumulative savings across the near-term – the reporting elements differ which limits direct comparability, though still provide useful points for comparing Ameren Missouri's 2026 potential study results.

Table 7-3 provides a list of the potential studies included in the benchmarking analysis, as well high-level summaries of information. GDS observed that a number of studies focused on narrower windows of program achievable savings than in the past, with some not providing details on the technical/economic/maximum achievable potentials. As such, the benchmarking data emphasizes program achievable scenarios. Table 7-3 indicates the calendar period covering those scenarios, the average annual portfolio electricity savings (% of energy sales) in the calendar period, and primary benefit-cost test being used for each.

The GDS Team selected studies that were publicly available and provided enough methodological and reporting detail to allow for basic comparisons. With a variety of different consultants undertaking the potential studies that are available, differences across studies assumptions and methodologies, different regulatory environments, and different program design considerations can result in varying levels of estimated future potential savings. The GDS Team briefly reviewed the methodological considerations of these studies relative to the 2026 Ameren Missouri MPS to better understand the varying outcomes. Appendix G provides a summary review of each benchmarked study.

To the degree possible and to harmonize savings potential results, GDS utilized narrower timeframes that some studies allow for. Absent an extended forecast, a study with only a five-year time horizon cannot have savings compared to a study with a 20-year time horizon.

TABLE 7-3: BENCHMARKING OF ENERGY EFFICIENCY POTENTIAL TO OTHER UTILITIES

Study / Year	Years in Study	Program Achievable Scenario Focus	Scenario Total Annual Impact (% of energy sales)	B/C Test
Ameren Missouri / 2026[126]	20	2027-2032	0.2% LTR[127] 0.7% RAP	TRC
Ameren Illinois / 2024[128]	20	2026-2029	0.5%	TRC
Arkansas Statewide / 2025	6	2027-2032	1.0%	TRC
ComEd (IL) / 2024	20	2026-2029	1.0%	TRC
AES-Indiana (IN) / 2025	19	2027-2032	1.1%	UCT
Focus on Energy (WI) / 2025	6	2027-2032	0.7%	TRC

[126] Ameren Missouri's study covers 20 years. For purposes of making comparisons to the other studies, GDS selected a six-year period in which to compare average annual impacts. The Scenario Total Annual Impacts reflects the portfolio level of impact of energy efficiency from the "less than RAP" scenario on eligible energy sales, averaged over the six-year period.
[127] The "less than RAP" (LTR) scenario limits measures to those in the Ameren Missouri approved MEEIA plan. The RAP scenario includes those savings and additional cost-effective savings beyond the LTR scenario. Both are relevant for making comparisons to other studies.
[128] In the Illinois study (including ComEd), electrification provides a portion of the electric potential. Electric utilities are able to claim a policy-limited amount within their portfolio, with savings calculated on an equivalent MWh basis as derived from therm savings at the site level.

Study / Year	Years in Study	Program Achievable Scenario Focus	Scenario Total Annual Impact (% of energy sales)	B/C Test
Iowa Statewide / 2022	5	2024-2028	0.4%	SCT
Michigan Statewide / 2025	20	2026-2029	2.2%	UCT
Pennsylvania Statewide (PA) / 2024	5	2026-2030	0.4%	TRC
Evergy (MO) / 2023	20	2024-2029	0.3%	TRC

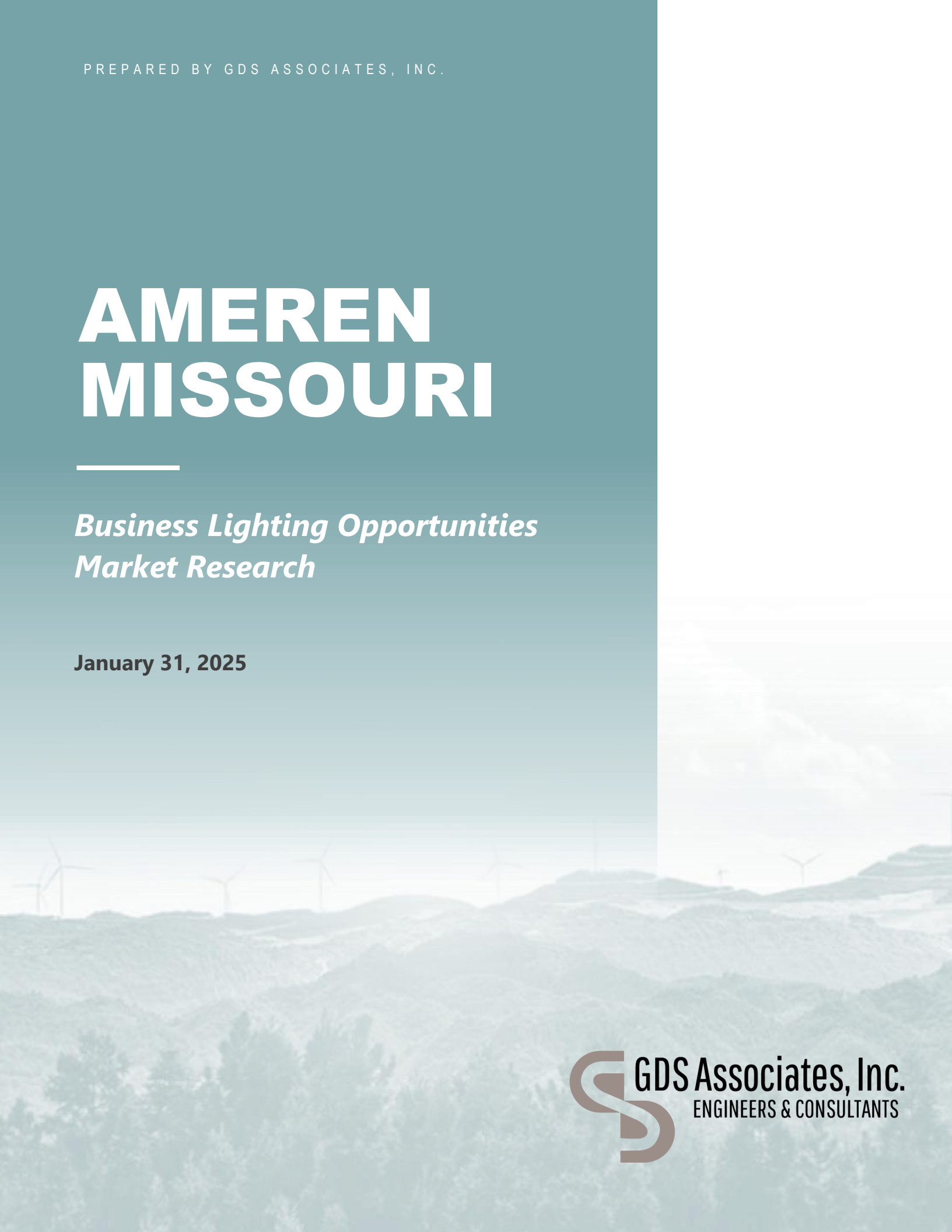
APPENDIX A. 2025 AMEREN BUSINESS LIGHTING OPPORTUNTIES REPORT

PREPARED BY GDS ASSOCIATES, INC.

AMEREN MISSOURI

Business Lighting Opportunities Market Research

January 31, 2025



GDS Associates, Inc.
ENGINEERS & CONSULTANTS

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1 Executive Summary

GDS Associates, Inc. (GDS) carried out market research for Ameren Missouri (Ameren) during the summer and fall of 2024. The purpose of the research was to understand two aspects of the market for energy efficient nonresidential lighting:

1) Estimate the saturation of commercial LED lighting within Ameren's nonresidential customers, and
2) Obtain perspectives from nonresidential lighting program trade allies on the current sales share of LEDs within their individual lighting sales.

The estimate for LED saturation was developed through online surveys with Ameren's nonresidential customers. The focus of the research was on linear and HID replacement lighting, both important elements of electricity loads associated with nonresidential lighting. The saturation of LED lighting informs the remaining energy efficiency opportunity for further efficiency gains within the nonresidential marketplace.

The customer survey results indicate that there are substantial ongoing opportunities for nonresidential customers to adopt LEDs. Overall, the results of the customer survey indicate that the lighting market is transitioning to LED lighting. However, while LEDs are just over 50% of linear lighting, and just under 50% of nonlinear lighting, the customer survey revealed that there remain a number of facilities that have little to no LEDs installed. On average, 38% of facilities estimated their saturation of low bay linear lighting (the most common lighting type in most business facilities) to be less than 20%. Further nearly 20% of facilities said they had no plans to convert their remaining lighting to LEDs. An additional 25% indicated they were in the process of steadily replacing inefficient lighting with LEDs, with roughly half of these respondents indicating that a lack of incentives would either slow/stop their planned conversions, or were uncertain how a lack of incentives would affect conversion plans.

Trade ally perspectives on current linear and HID replacement LED sales provide a snapshot in time of the market for nonresidential lighting. Additionally, trade ally perspectives offer insight into how trade allies perceive the role of Ameren's nonresidential lighting program on recent past and possible future sales. The trade ally perspectives do not include *all* nonresidential lighting trade allies and are not representative of nonparticipating market actors. The interviews did not attempt to capture trade ally perspectives on market saturation of LEDs nor attempt to characterize the entire market for energy efficient nonresidential lighting.

Trade ally interviews revealed that LEDs make up a substantial portion of respondent lighting sales, though also noting ongoing opportunities in the market and perceived value in the Ameren programs. Taken together, the results of each market research element align:

- The market has not fully adopted LEDs, with geographies and customer types that are lagging relative to other parts of the market,
- Trade allies and customers see ongoing opportunities with some risk of slowing LED adoption absent programs,
- Future lighting programs have a role to drive adoptions through reaching customer types or otherwise speeding LED purchases.

The results of the research are presented below, based on the two data collection efforts. First, customer research describes the results from the surveys and provides insight in the remaining opportunity for nonresidential lighting market to adopt LEDs. Second, the market actor research provides a snapshot of current LED sales shares and perspectives on Ameren programs.

2 Business Lighting Customer Online Survey Results

This section provides a summary of the market research performed by GDS Associates and conducted on behalf of Ameren Missouri regarding the status of nonresidential LED lighting in the Ameren territory marketplace. As part of the overall scope of work, GDS completed an online survey of Ameren business customers to better understand the status of efficient lighting opportunities across the service area.

The survey was offered to all Ameren Business customers with a known email address, excluding those who opt-out of marketing communications. Responses are provided for the Ameren business sector (in total), as well as by business type, geographic area, and economic community. Overall respondent firmographics and responses to LED lighting and lighting controls are included in future sections of this section. Last, a comparison of the market research results to other recent market studies conducted is also provided.

2.1 RECRUITMENT SAMPLE

Ameren Missouri provided a complete database of business class customers from the 2M, 3M, 4M and 11M rate classes. The database also had a flag for (1) whether or not the business class customers are opted out of the Energy Efficiency Investment Charge (EEIC), (2) had an email address, and (3) a preference for whether email communications were allowed. In total, there were 176,751 customers in the database. After removing customers without email addresses, and those customers with a preference to not allow email communications, the total number of customers was reduced to 109,040.

In addition, an "area crosswalk" was developed using data from the 2020 US Census that mapped customers, by zip-code, into the following area categories: Metro Area, Micro Area, Urban Area, and Rural Area. GDS also developed an "economic crosswalk" that mapped customers, by zip-code, into areas of economic need. The economic crosswalk was developed using the Economic Innovation Group's Distressed Communities Index[1] categories of: Prosperous, Comfortable, Mid-Tier, At-Risk, and Distressed.

As a final step in the development of the recruitment sample, GDS removed customers with duplicate emails or invalid emails. All customers in the remaining recruitment sample were invited to participate in the survey in an effort to ensure adequate responses from all business customer segments. Table 2-1 provides the final count of customers included in the final recruitment sample.

[1] The EIG Distressed Communities Index uses US Census American Community Survey (ACS) to sort zip codes, counties, and districts into the five quintiles of well-being described above. The seven components of the index are: education (High School Diploma), Housing Vacancy Rate, Unemployment Rate, Poverty Rate, Median Income Ratio, Changes in Employment, and Changes in Establishments.

TABLE 2-1: RECRUITMENT SAMPLE DEVELOPMENT

	# of Customers	Sales (GWh)
Total number of Records provided in the initial sample	176,501	18,023
Number of Records w/ Email Addresses	110,276	16,602
Number of Records w/ Email Addresses, excluding opt-outs and "do not contact" flag	109.040	12.097
Number of Customers after removing duplicate or invalid emails	57,682	7,683

Table 2-2 shows the distribution of records from the initial dataset as well as the final recruitment sample by area and economic crosswalks.

TABLE 2-2: RECRUITMENT SAMPLE BY AREA/ECONOMIC CROSSWALK

	All Records	Final Recruitment Sample
Area Crosswalk		
Metro	137,624	44,812
Micro	15,085	5,425
Urban	8,105	2,255
Rural	15,520	5,123
Economic Crosswalk		
Prosperous	44,235	13,541
Comfortable	40,417	13,620
Mid-Tier	23,701	7,581
At-Risk	26,171	8,617
Distressed	39,444	13,509

2.2 RECRUITMENT AND SURVEY INSTRUMENT CONSIDERATIONS

GDS used the Survey Monkey survey platform to email potential respondents and collect their survey responses. Customers selected for the survey received three emails: an initial invitation and two follow-up reminders approximately 6 days, and 7 days after the initial contact. Any customers who asked not to be removed from consideration for the survey were removed from the follow-up contact list.

Based on discussions with Ameren, no financial incentive was offered to business customers to respond to the survey. Instead, the online survey was kept brief, with an estimated completion time of 10 minutes and a total of twenty-six questions, to help ensure that customers would initiate and complete the survey.

In total, 1,113 customers initiated the survey and 534 customers completed the survey, for an initial response rate of 1.9% and a completed response rate of 48%.

Table 2-3 shows a breakdown of the response rate by area and economic crosswalks, as well as by customer building type.[2]

TABLE 2-3: RECRUITMENT SAMPLE VS. NUMBER OF COMPLETES

	Recruitment Sample	Responses (Initiated Survey)	Responses (Completed Survey)
Building Type			
Assembly (Entertainment/Faith)	2,788	105	57
Education	963	26	13
Food & Beverage	1,484	29	16
Government	790	47	18
Grocery/Convenience	210	12	6
Health	1,218	29	17
Lodging	1,335	47	15
Office	2,580	116	60
Retail	2,834	92	39
Warehouse	1,229	77	46
Misc,	40,319	454	200
Industrial/Agriculture	1,932	79	47
Area Crosswalk			
Metro	44,812	811	398
Micro	5,424	121	53
Urban	2,255	58	24
Rural	5,123	122	59
Economic Crosswalk			
Prosperous	13,541	246	118
Comfortable	13,620	252	126
Mid-Tier	7,581	142	65
At-Risk	8,617	184	93
Distressed	13,509	267	123

The final survey instrument included three main sections that included questions on: 1) Business firmographics, 2) Lighting Bulbs and Fixtures, and 3) Lighting Controls. The following sections summarize results for each of these sections.

2.3 FINDINGS - FIRMOGRAPHICS

Responses in this section refer to how a business is used or the size and age of the building. Select building types have been collapsed for space and/or where the sample size was limited. Respondent counts are shown in paratheses () within provided Figures.

[2] Customer building type assignment was based on customer SIC code.

Building Occupancy Area. The majority (76%) of respondents indicated that their organization currently occupies all the facility at the address associated with the Ameren account number. By building type, responses for occupying all the facility ranged from a low of 75% (lodging) to a high of 96% (education).

Occupancy characteristics were stable by geographic area and economic area, with 72%-81% of business customers occupying all of the building by geographic area and 72%-79% of business customers occupying all of the building by economic area.

FIGURE 2-1: BUILDING OCCUPANCY - BY BUILDING TYPE

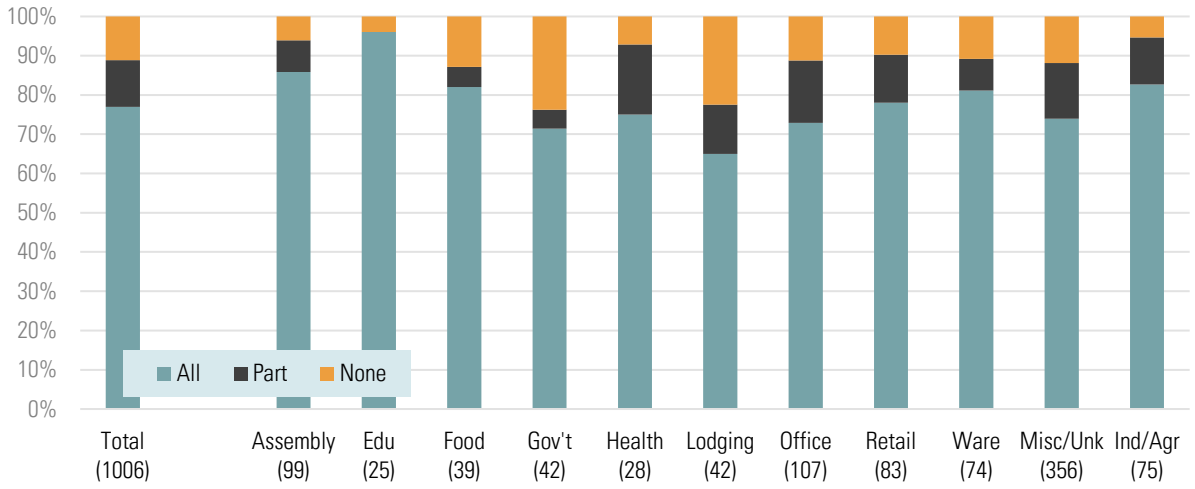
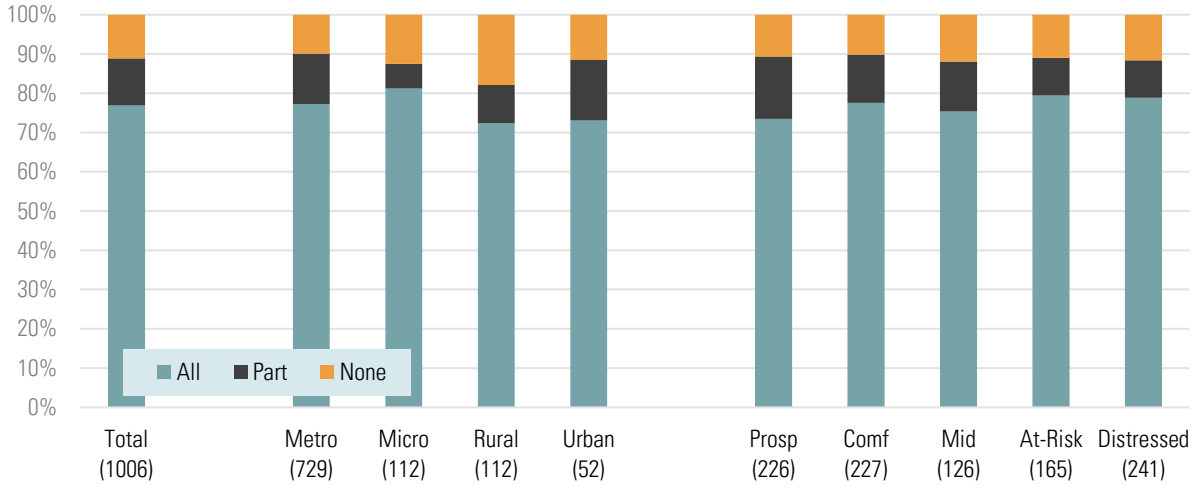


FIGURE 2-2: BUILDING OCCUPANCY - BY AREA AND ECONOMIC CROSSWALKS



Building Occupancy Status. 70% of buildings in the survey are owner-occupied, and the remaining buildings are leased. This varies by building type. Ninety-four percent (94%) of assembly buildings are owner-occupied, whereas only 60% of retail buildings are owner-occupied. Metro areas have a higher amount of leased buildings than the other geographic areas, with 35% of buildings being leased, as opposed to 15% to 17% of buildings in the other areas. There is a pattern of ownership among economic areas, with the percent of leased buildings being lower among more distressed areas.

FIGURE 2-3: OCCUPANCY STATUS OF BUILDING - BY BUILDING TYPE

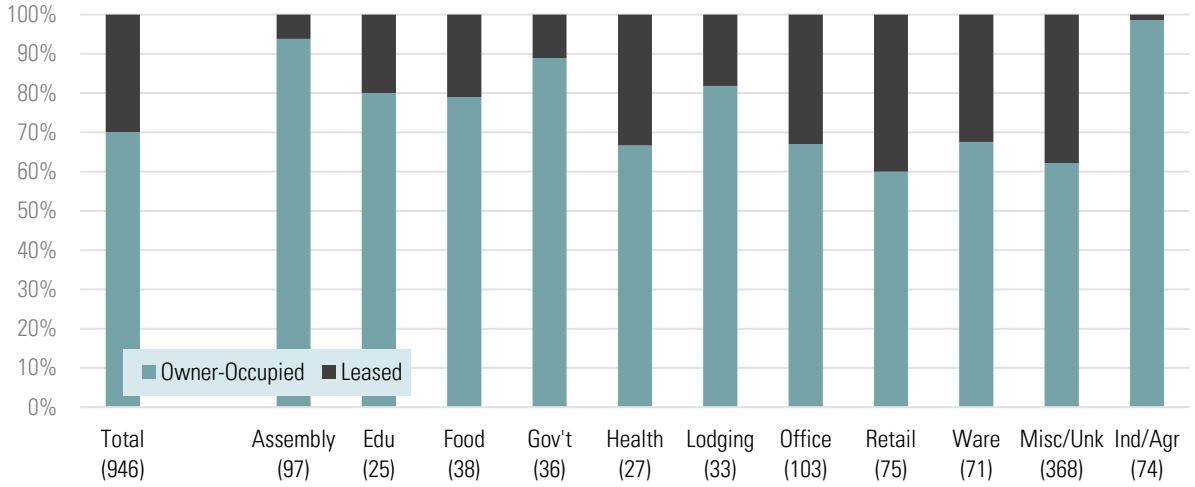
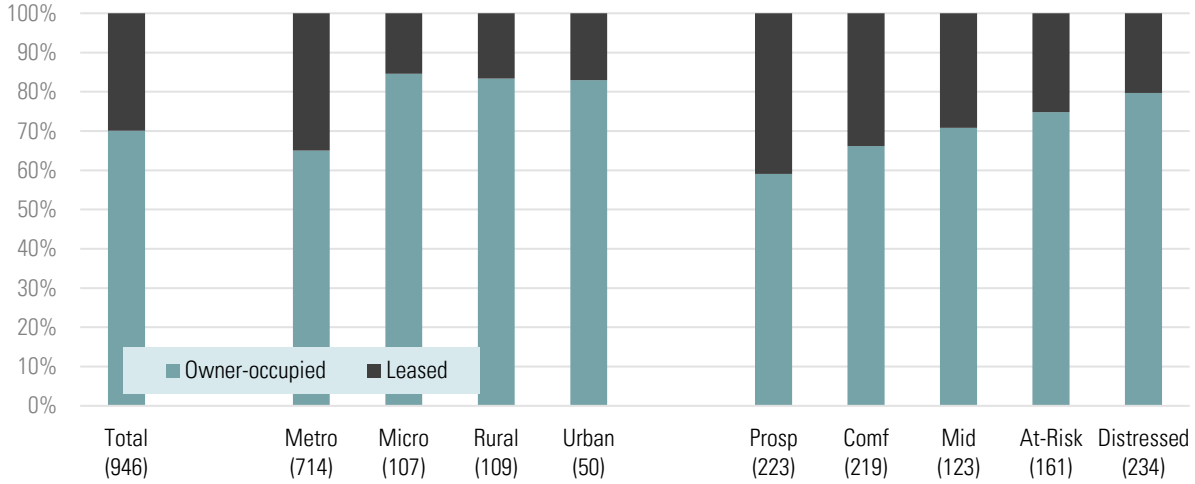
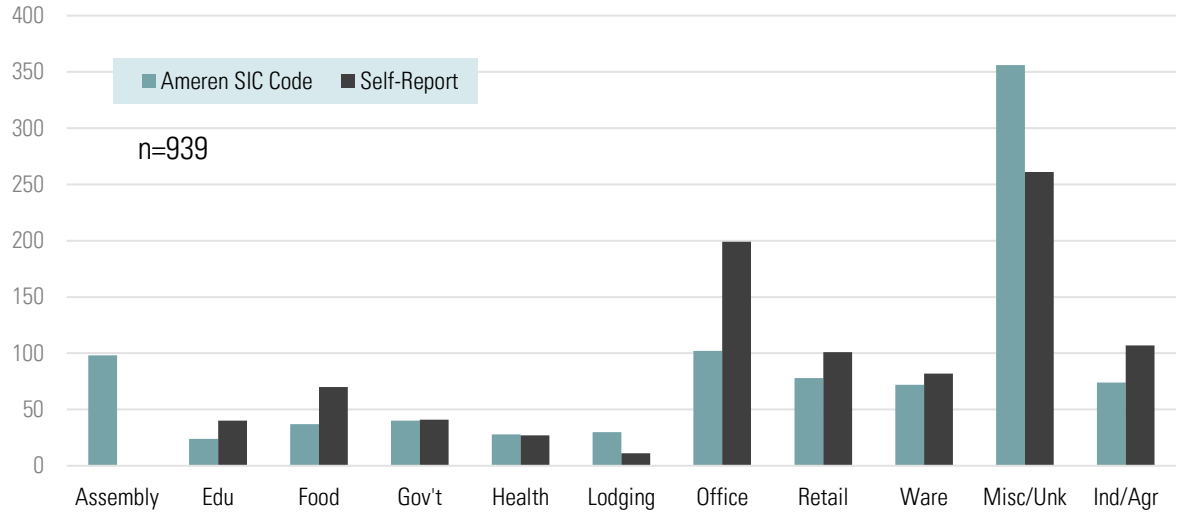


FIGURE 2-4: OCCUPANCY STATUS OF BUILDING - BY AREA AND ECONOMIC CROSSWALKS



Building Primary Use Type. Survey respondents were asked the primary use of their building. Self-reported primary use categorization often differed from the primary building type identified by the Ameren SIC code. There was general consistency among government, health, and warehouse buildings, but larger differences for offices, food services, and miscellaneous buildings. Note, however, that assembly (faith based/entertainment) was not a response option for self-report. While this report provides results by building type based on SIC code assignment, a complete dataset, including cross-tabulations by self-reported business was provided to Ameren Missouri.

FIGURE 2-5: AMEREN SIC CODE VERSUS SELF-REPORTED PRIMARY USE



Square Footage. The most common size of buildings in the survey (48%) is less than 5,000 square feet. Square footage varies by building type, as could be expected. Miscellaneous/unknown building type and retail have the smallest buildings, with 69% of miscellaneous/unknown and 64% of retail buildings having an area of less than 5,000 square feet. Assembly, industrial/agricultural, education, warehouses, and healthcare facilities have larger square footage.

FIGURE 2-6: SQUARE FOOTAGE OF BUILDING - BY BUILDING TYPE

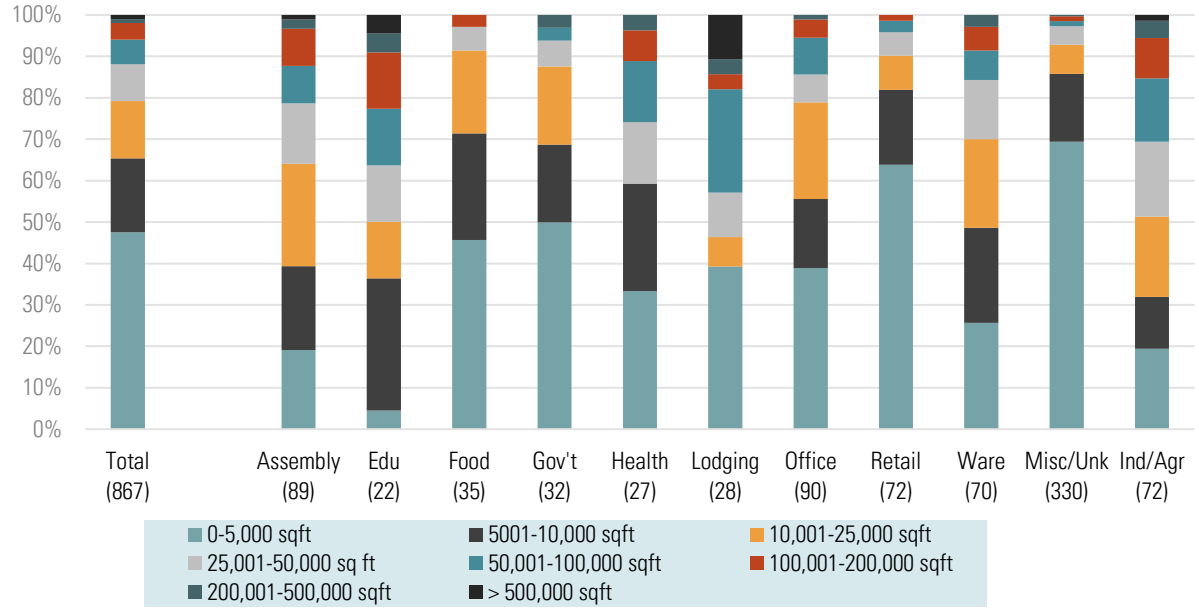
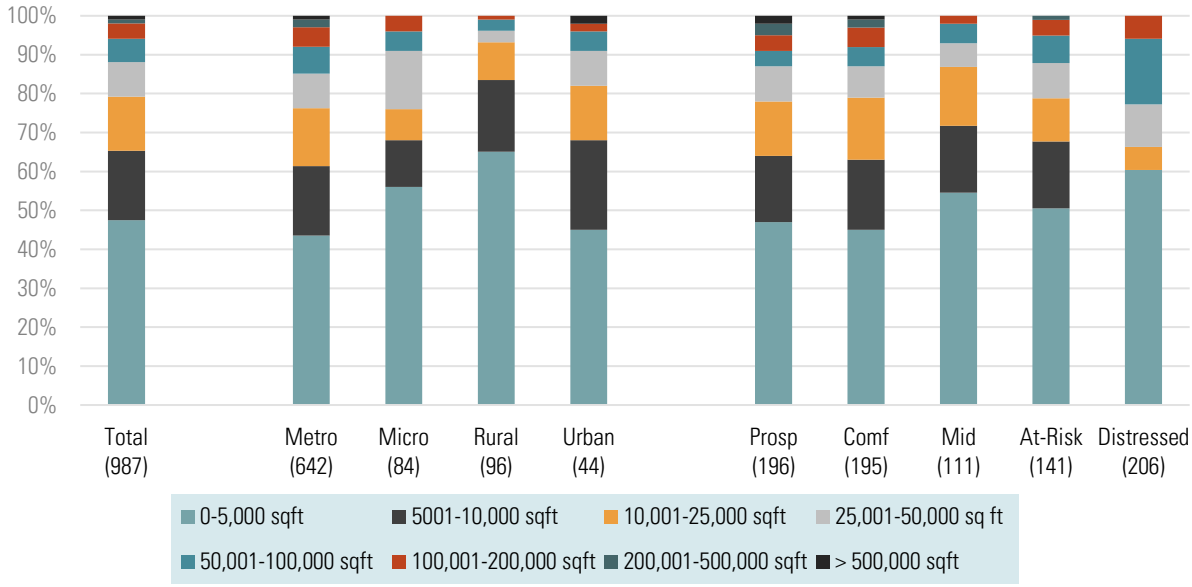


FIGURE 2-7: SQUARE FOOTAGE OF BUILDING - BY BUILDING TYPE



Building Age. Over half of the buildings in this survey were built between 1970 and 2009. Twenty-six percent (26%) of all the buildings are between 35 and 54 years old and 24% of all the buildings are between 15 and 34 years old. Results vary by building type, with food and retail building types generally having older buildings.

Results by geographic area stay close to the building average, with urban buildings averaging slightly younger than rural buildings. The percentage of older buildings increases for those in more distressed economic areas. 23% of buildings in prosperous areas are over 55 years old, where 50% of buildings in distressed areas are over 55 years old.

FIGURE 2-8: SQUARE FOOTAGE OF BUILDING - BY BUILDING TYPE

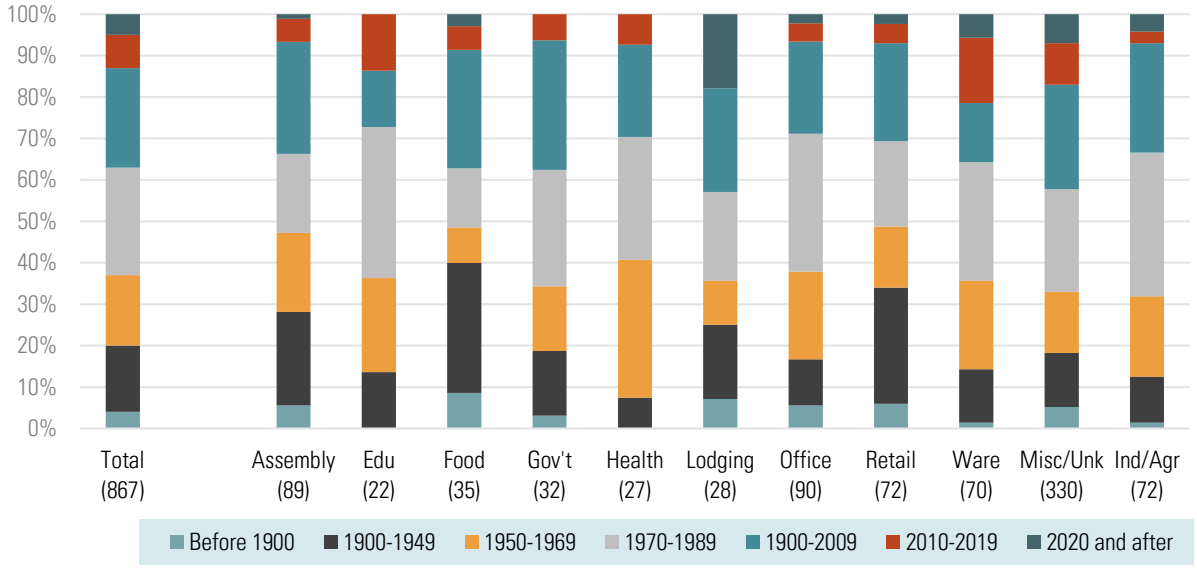
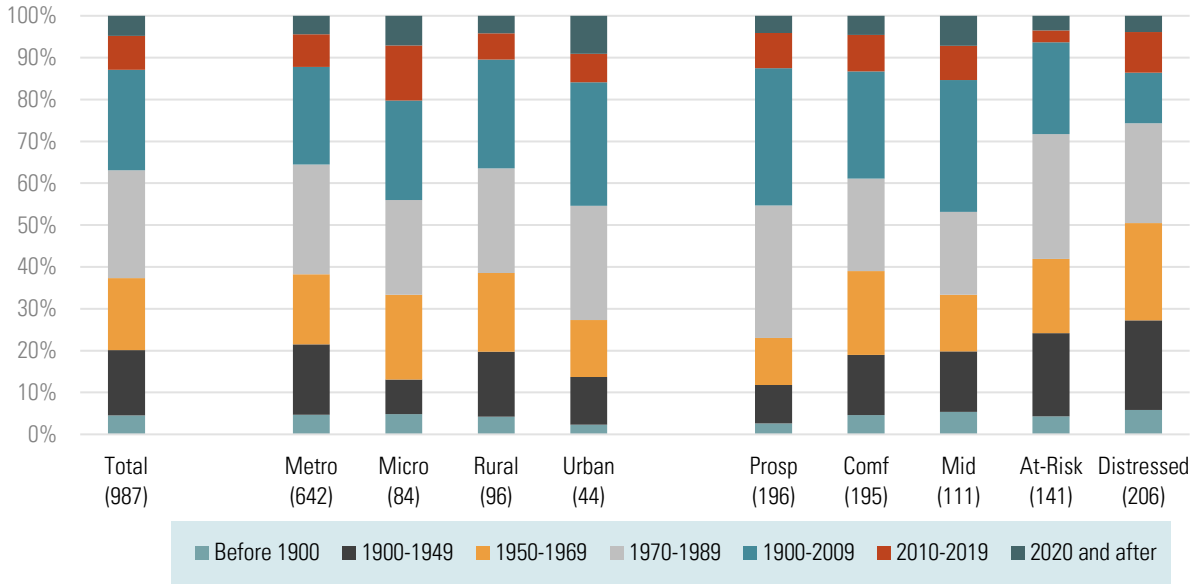


FIGURE 2-9: SQUARE FOOTAGE OF BUILDING - BY BUILDING TYPE



2.4 FINDINGS – BULBS AND FIXTURES

Responses in this section generally discuss the types of light bulbs and fixtures inside and directly outside a respondent's business facility. Responses also addressed a respondent's current plans to convert to LED lighting technologies. Select building types have been collapsed for space and/or where the sample size was limited. Respondent counts are shown in paratheses () within provided Figures.

Interior Lighting Fixture Type. Respondents were asked about the percentage of their facility's total floor area that is lit with following types of lamps:

1) High Bay Linear: fixture greater than 20 ft. high, w/ linear fluorscent/TLED or integrated LED panels)
2) High Bay Nonlinear: fixture greater than 20 ft. high w/ HIDs or nonlinear LEDs, such as corn-cobs)
3) Low Bay Linear: same as high bay linear, but at heights of less than 20 ft.
4) Low Bay Nonlinear: Incandescent, CFL, LED, or Halogen screw-based lights as well as downlights and recessed lights at heights of less than 20 ft.)
5) Other

Across all facilities, the majority of floorspace is lit with low bay linear lights (47.1%), followed by low bay nonlinear (23.1%), high bay linear (18%), high bay nonlinear (7.7%), and Other (4.2%). There are, however, some notable differences of lighting fixture type distributions across the various building types, with lodging demonstrating a high percentage of low-bay nonlinear (screw-based) lighting (71.3%), and warehouses and industrial/agriculture facilities indicating higher percentages of high-bay lighting.

Interior lighting fixture type distributions were more generally less variable by geographic and economic area, with low bay linear and low bay nonlinear lighting making up the two largest fixture types.

FIGURE 2-10: INTERIOR LIGHTING FIXTURE TYPE - BY BUILDING TYPE

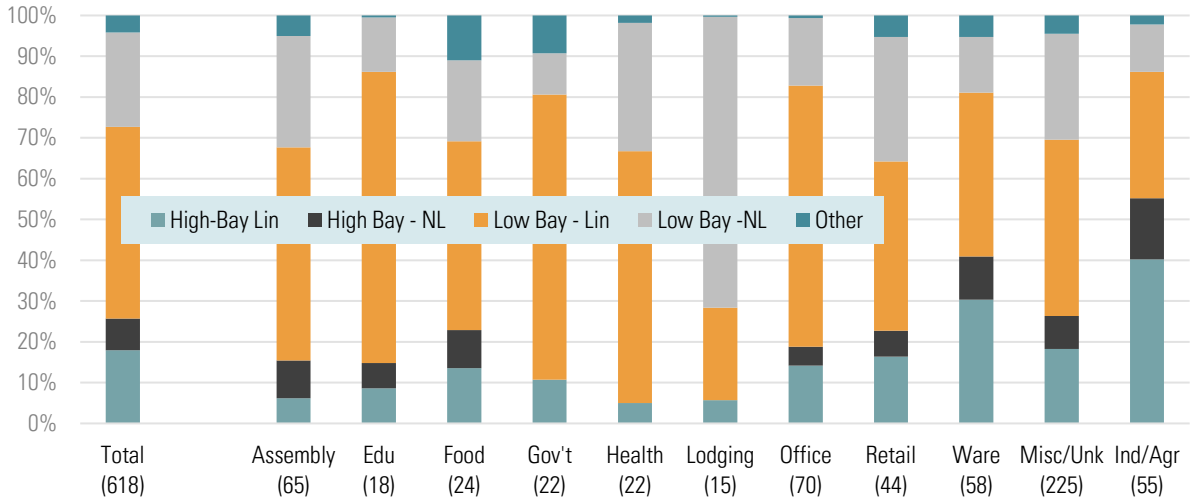
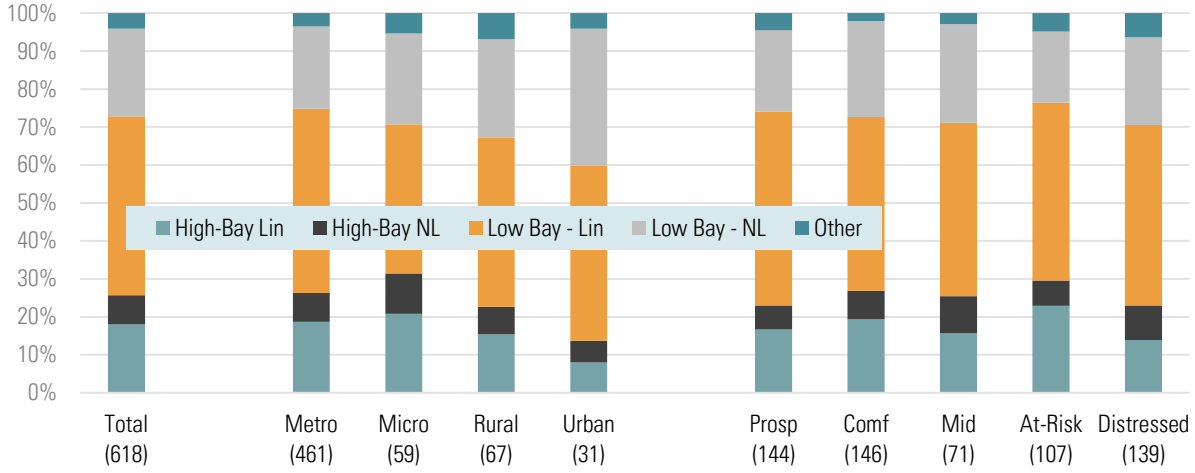


FIGURE 2-11: BUILDING OCCUPANCY - BY AREA AND ECONOMIC CROSSWALKS



Interior Lighting LED Saturation. Respondents were then asked, for each facility where the lighting type was present, what percentage of the lighting fixtures were already LEDs. Figure 2-12 shows the overall LED lighting saturation by fixture type across all respondents.[3] Across all four types, LED saturation ranged from 45% to 60%, with the common fixture type (low bay linear) having an average LED saturation of 53%.

The figure also shows that while there are a large percent of buildings with 80-100% LED saturation across each fixture type, there are also a significant percentage of buildings that have indicated that 0% of their lighting types have LEDs installed.

[3] Results by geographic and economic area are provided in an appendix.

FIGURE 2-12: INTERIOR LIGHTING LED SATURATION - BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE)

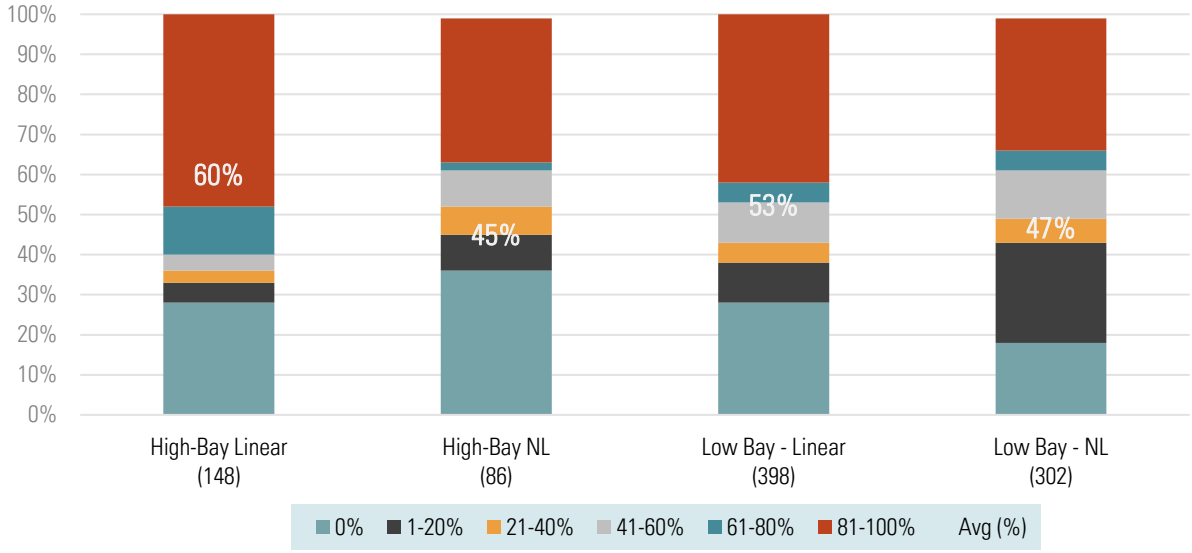


Table 2-4 through Table 2-7 provides the percentage of buildings with no LEDs and overall average LED saturation by fixture type and by building type, geographic area, and economic area. Note that facilities that indicated that they did not have any of a given fixture type are excluded from the tables and the associated limited number of responses. Focusing on low bay linear lighting (representing nearly 50% of all respondent-estimated lighting), Table 2-6 shows that offices, health facilities, and government buildings had the highest reported saturation of LED low bay linear lighting with lodging, miscellaneous/unknown, and food and beverage reporting less than 50% saturation of low bay linear lighting. The saturation across geographic area was stable. Businesses in at-risk and distressed communities also reported consistent levels of LED low bay saturation, potentially suggesting that outreach efforts in these areas have been successful.

TABLE 2-4: HIGH BAY LINEAR - PERCENT OF BUILDINGS WITH NO LEDS AND OVERALL AVG. SATURATION OF LEDS BY BUILDING TYPE AND AREA/ECONOMIC CROSSWALKS

	% w/ No LEDs	Avg LED Saturation (%)		% w/ No LEDs	Avg LED Saturation (%)
Total			Building Type		
All Buildings (n=148)	28%	60%	Assembly (n=8)	13%	84%
Area Crosswalk			Education (n=3)	0%	70%
Metro (n=113)	23%	62%	Food & Beverage (n=1)	0%	100%
Micro (n=14)	50%	44%	Government (n=3)	33%	67%
Urban (n=16)	31%	68%	Grocery/Convenience (n=3)	33%	63%
Rural (n=5)	60%	40%	Health (n=1)	0%	90%
Economic Crosswalk			Lodging (n=4)	25%	40%
Prosperous (n=32)	13%	75%	Office (n=17)	35%	57%
Comfortable (n=37)	30%	55%	Retail (n=10)	60%	30%
Mid-Tier (n=14)	29%	58%	Warehouse (n=21)	14%	75%
At-Risk (n=28)	25%	66%	Misc, (n=52)	37%	51%
Distressed (n=32)	41%	49%	Industrial/Agriculture (n=25)	12%	72%

TABLE 2-5: HIGH BAY NONLINEAR - PERCENT OF BUILDINGS WITH NO LEDS AND OVERALL AVG. SATURATION OF LEDS BY BUILDING TYPE AND AREA/ECONOMIC CROSSWALKS

	% w/ No LEDs	Avg LED Saturation (%)		% w/ No LEDs	Avg LED Saturation (%)
Total			Building Type		
All Buildings (n=86)	36%	45%	Assembly (n=14)	36%	36%
Area Crosswalk			Education (n=2)	50%	25%
Metro (n=67)	39%	60%	Food & Beverage (n=2)	0%	
Micro (n=9)	22%	41%	Government (n=0)	*	*
Urban (n=6)	17%	72%	Grocery/Convenience (n=0)	*	*
Rural (n=4)	50%	38%	Health (n=0)	*	*
Economic Crosswalk			Lodging (n=0)	*	*
Prosperous (n=19)	37%	47%	Office (n=12)	50%	42%
Comfortable (n=18)	39%	46%	Retail (n=6)	83%	0%
Mid-Tier (n=16)	25%	40%	Warehouse (n=13)	23%	62%
At-Risk (n=12)	33%	42%	Misc, (n=24)	33%	41%
Distressed (n=20)	40%	51%	Industrial/Agriculture (n=13)	23%	66%

TABLE 2-6: LOW BAY LINEAR - PERCENT OF BUILDINGS WITH NO LEDS AND OVERALL AVG. SATURATION OF LEDS BY BUILDING TYPE AND AREA/ECONOMIC CROSSWALKS

	% w/ No LEDs	Avg LED Saturation (%)		% w/ No LEDs	Avg LED Saturation (%)
Total			Building Type		
All Buildings (n=398)	28%	53%	Assembly (n=48)	19%	57%
Area Crosswalk			Education (n=12)	25%	59%
Metro (n=307)	27%	53%	Food & Beverage (n=12)	25%	49%
Micro (n=38)	32%	51%	Government (n=15)	27%	65%
Urban (n=37)	32%	55%	Grocery/Convenience (n=6)	33%	51%
Rural (n=16)	31%	52%	Health (n=14)	7%	69%
Economic Crosswalk			Lodging (n=35)	22%	38%
Prosperous (n=92)	26%	60%	Office (n=50)	14%	72%
Comfortable (n=97)	32%	44%	Retail (n=24)	38%	56%
Mid-Tier (n=45)	33%	51%	Warehouse (n=36)	25%	53%
At-Risk (n=66)	21%	55%	Misc, (n=132)	42%	41%
Distressed (n=93)	28%	55%	Industrial/Agriculture (n=40)	20%	53%

TABLE 2-7: LOW BAY NONLINEAR - PERCENT OF BUILDINGS WITH NO LEDS AND OVERALL AVG. SATURATION OF LEDS BY BUILDING TYPE AND AREA/ECONOMIC CROSSWALKS

	% w/ No LEDs	Avg LED Saturation (%)		% w/ No LEDs	Avg LED Saturation (%)
Total			Building Type		
All Buildings (n=302)	18%	47%	Assembly (n=40)	13%	37%
Area Crosswalk			Education (n=6)	50%	37%
Metro (n=218)	16%	46%	Food & Beverage (n=12)	0%	58%
Micro (n=30)	27%	42%	Government (n=10)	20%	35%
Urban (n=35)	20%	55%	Grocery/Convenience (n=1)	0%	5%
Rural (n=19)	26%	49%	Health (n=15)	20%	60%
Economic Crosswalk			Lodging (n=14)	0%	80%
Prosperous (n=64)	8%	53%	Office (n=28)	18%	44%
Comfortable (n=71)	20%	51%	Retail (n=22)	14%	60%
Mid-Tier (n=39)	21%	38%	Warehouse (n=21)	29%	47%
At-Risk (n=54)	15%	40%	Misc, (n=109)	23%	44%
Distressed (n=70)	24%	50%	Industrial/Agriculture (n=24)	29%	32%

LED Conversion Pacing and Potential Programmatic Impacts. Respondents were also asked how the facility is changing over to LED lighting over time, seeking to understand whether a comprehensive retrofit had already occurred (or occurred prior to moving into the facility space), whether a steady conversation was

underway (likely as bulbs burn out), or whether there were little to no known plans to convert any remaining LEDs. Across all buildings, 55% of respondents indicated their facility had largely converted to LEDs, with an additional 26% indicating that a steady conversion was underway. Roughly 20% indicated that they had no known plans to convert their remaining non-LEDs.

Figure 2-13 provides the responses to this question by building type and Figure 2-14 provides the responses by geographic and economic area.

FIGURE 2-13: LED CONVERSION PLANS - BY BUILDING TYPE

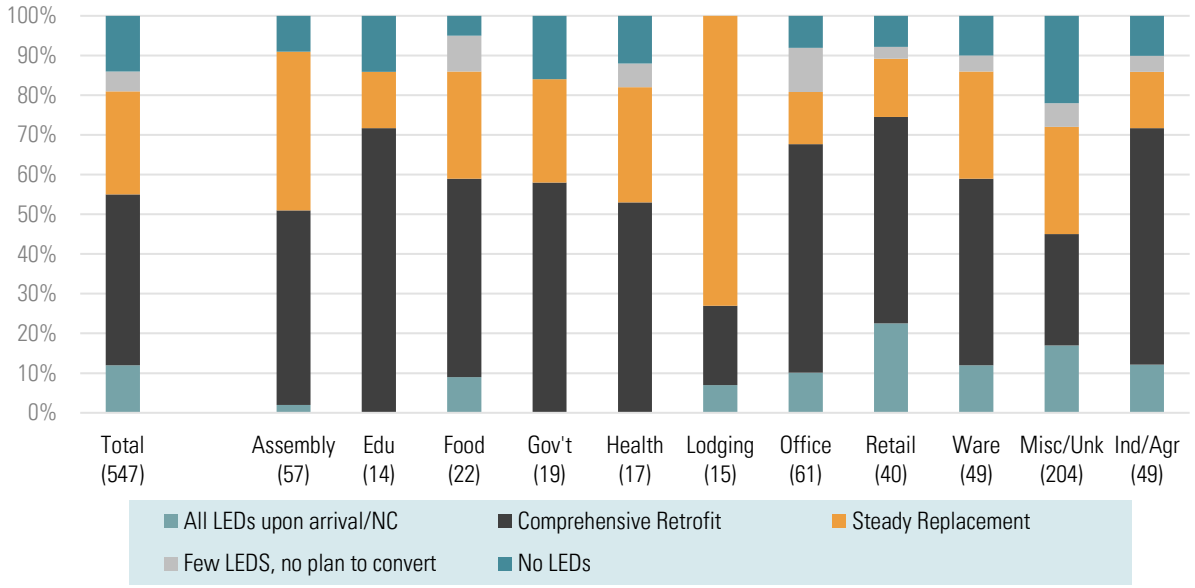
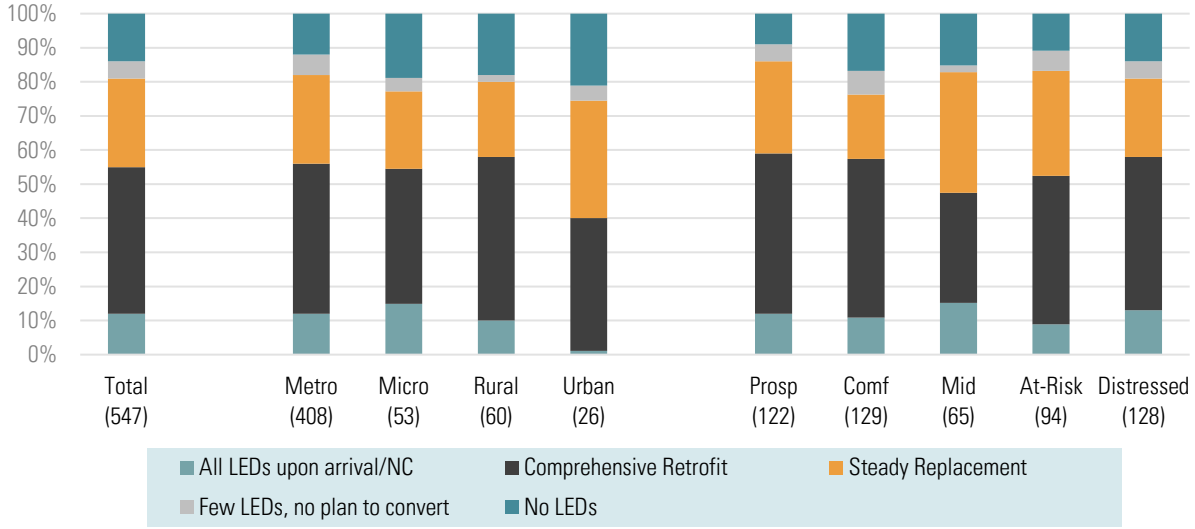
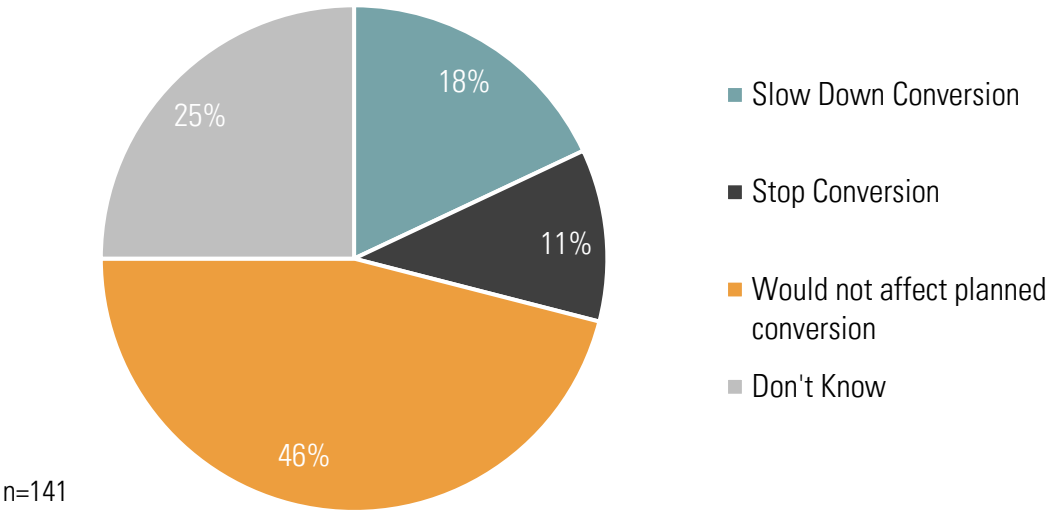


FIGURE 2-14: LED CONVERSION PLANS - BY AREA AND ECONOMIC CROSSWALKS



Of those respondents who indicated that their facility was steadily replacing old lamps with LEDs, the survey also asked whether the expected conversion would slow or stop if the utility no longer offers incentives or rebates the purchase and installation of LED lamps. Figure 2-15 indicates that 29% responded that it would likely slow down or halt their planned conversion, while 46% indicated that it would not affect the timing of their planned conversion, while an additional 25% did not know what impact no incentives would have on their plans for future LED conversions. Note that Figure 2-15 is for all respondents and the question was limited to only those who indicated that their facility was steadily replacing old lamps with LEDs.[4]

FIGURE 2-15: IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS



Exterior LED Lighting Saturation. Last in this section, respondents were asked about their saturation of LED lighting for exterior lighting fixtures (excluding lights provided by the municipality). This included exterior lighting for parking lots, parking garages, signs, or walkways. Table 2-8 provides estimated average LED saturation of all exterior lighting by the respondent across all building types, and broken out by building type, geographic area, and economic area. Also included in Table 2-8 is the estimated % of all exterior lighting that is on 24/7 throughout the year.

[4] Results by geographic and economic area are provided in an appendix.

TABLE 2-8: EXTERIOR LIGHTING LED SATURATION AND 24/7 LIGHTING BY BUILDING TYPE AND AREA/ECONOMIC CROSSWALKS

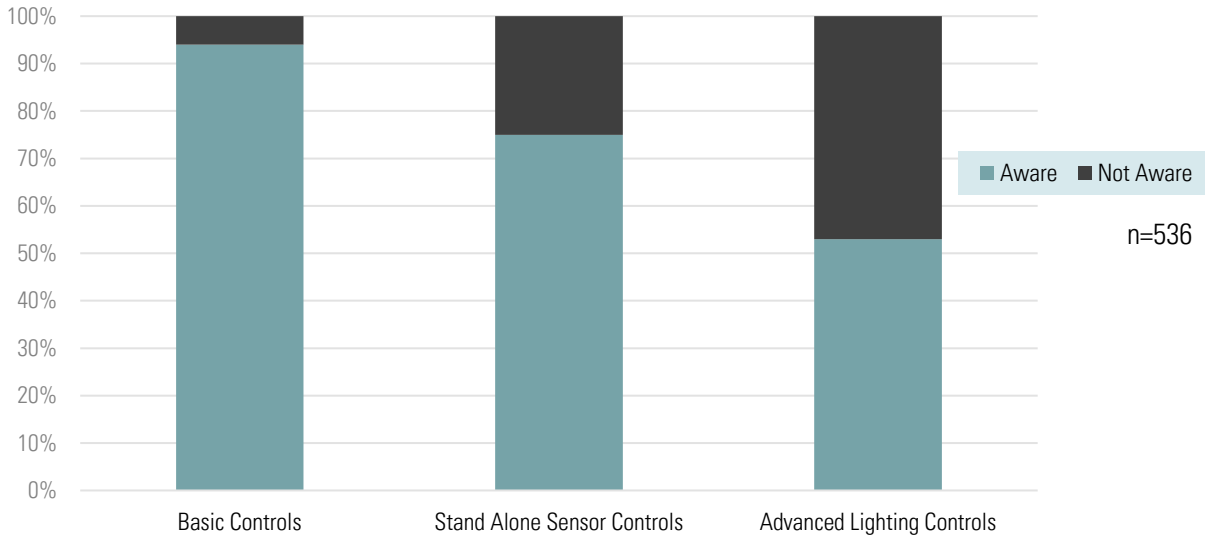
	Avg LED Saturation (%)	% of all exterior Lighting that is 24/7		Avg LED Saturation (%)	% of all exterior Lighting that is 24/7
Total			Building Type		
All Buildings (n=414)	63%	19%	Assembly (n=49)	68%	18%
Area Crosswalk			Education (n=13)	51%	32%
Metro (n=311)	62%	21%	Food & Beverage (n=11)	68%	12%
Micro (n=46)	68%	18%	Government (n=14)	63%	40%
Urban (n=40)	69%	11%	Grocery/Convenience (n=5)	60%	10%
Rural (n=17)	51%	7%	Health (n=16)	68%	18%
Economic Crosswalk			Lodging (n=13)	80%	39%
Prosperous (n=91)	66%	21%	Office (n=51)	66%	14%
Comfortable (n=106)	59%	17%	Retail (n=30)	63%	15%
Mid-Tier (n=50)	59%	22%	Warehouse (n=37)	54%	15%
At-Risk (n=66)	65%	21%	Misc, (n=135)	56%	20%
Distressed (n=95)	65%	18%	Industrial/Agriculture (n=40)	76%	17%

2.5 FINDINGS – LIGHTING CONTROLS

Responses in this section relate to respondent awareness of LED lighting controls, and awareness/attitudes regarding advanced lighting controls. Select building types have been collapsed for space and/or where the sample size was limited. Respondent counts are shown in paratheses () within provided Figures.

Lighting Control Awareness. The majority (94%) of survey respondents were already aware of basic lighting controls. Awareness decreased as respondents were asked about more advanced controls. 75% of respondents were previously aware of stand-alone sensor controls and only 53% of respondents were aware of advanced lighting controls. Awareness did not vary greatly based on geographic or economic area or building type.

FIGURE 2-16: LIGHTING CONTROL AWARENESS



Lighting Control Saturation. Of all survey respondents, 93% have basic controls, 47% have stand-alone sensor controls, and 12% have advanced controls. All building types have a saturation of basic controls of 91% or greater. Educational buildings have a higher saturation of stand-alone sensor controls than other building types, with 86% of education buildings having these controls. Assembly and government buildings have a higher saturation of advanced lighting controls than other building types, with 21% of buildings having these controls.

Urban areas have higher saturations of control than the other geographic areas. Basic control saturation is consistent among the economic areas, but prosperous, comfortable, and mid-tier areas had higher saturations for stand-alone sensor controls and advanced lighting controls.

FIGURE 2-17: LIGHTING CONTROL SATURATION – BY BUILDING TYPE

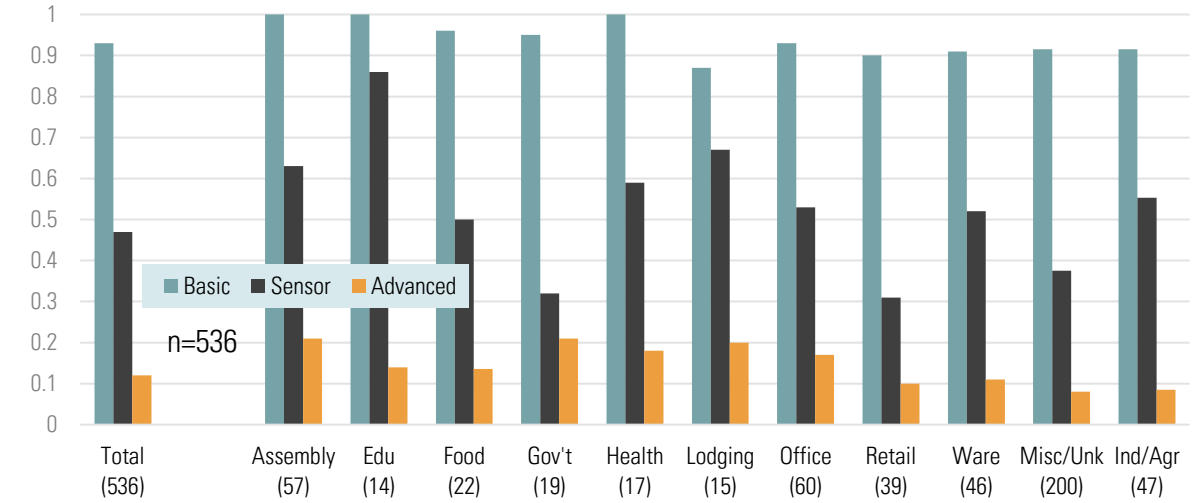
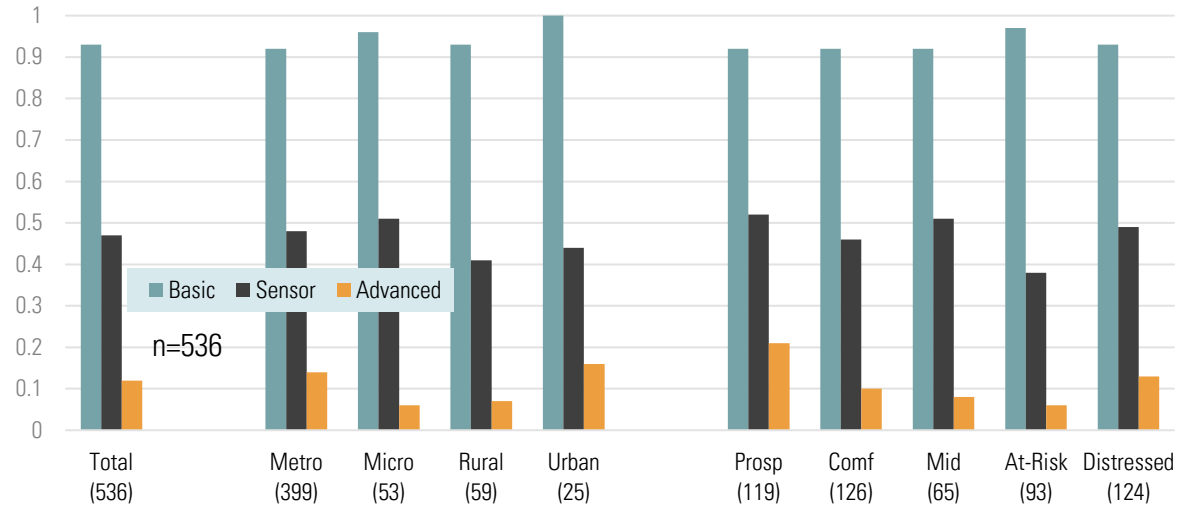
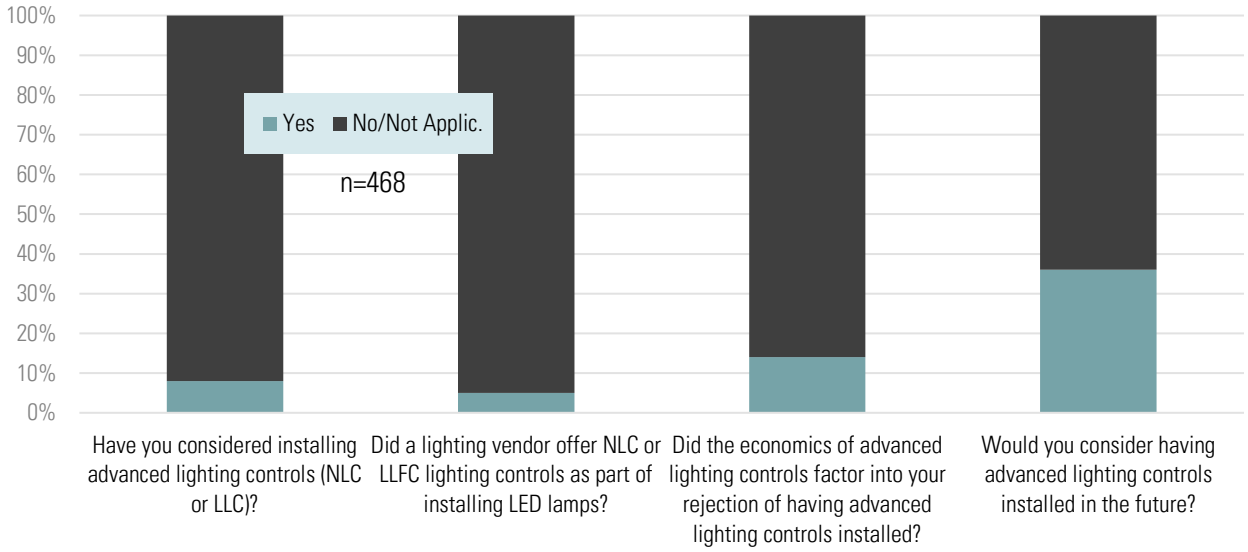


FIGURE 2-18: LIGHTING CONTROL SATURATION – BY AREA AND ECONOMIC CROSSWALKS



Advanced Lighting Controls. Survey participants who did not already have advanced lighting controls were asked if they had considered installing advanced lighting controls, if a lighting vendor offered to install lighting controls as part of installing LED lamps, if economics factored into the rejection of installing lighting controls, and if they would consider installing lighting controls in the future. Twelve percent (12%) of respondents had not considered installing lighting controls previously, but 56% said they would consider it in the future. Only 7% of lighting vendors had offered to install advanced controls as part of installing LEDs. Economics were a consideration for 28% of survey participants. Breakdowns by building type and geographic/economic area are included in the appendix.

FIGURE 2-19: ADVANCED LIGHTING CONTROLS – ATTITUDES AND AWARENESS



2.6 RECENT STUDY COMPARISONS

The 2020 primary market research conducted for Ameren Missouri did not collect LED lighting saturations, only collecting LED lighting penetration (i.e., the percentage of buildings with the presence of LED lighting). Overall 38% of buildings had some linear LEDs, with 35% of small businesses having some linear LEDs and 66% of medium/large businesses having linear LEDs. Similarly, 39% of buildings had some nonlinear LEDs (36% small business and 58% medium/large businesses). Comparatively, current Ameren businesses customers reported 72% penetration (at least one bulb/fixture) of LEDs for low bay linear lighting, and 82% and 64% penetration for low bay and high bay nonlinear lighting, respectively.

FIGURE 2-20: LED PENETRATION – 2020 VERSUS 2024 AMEREN MARKET RESEARCH

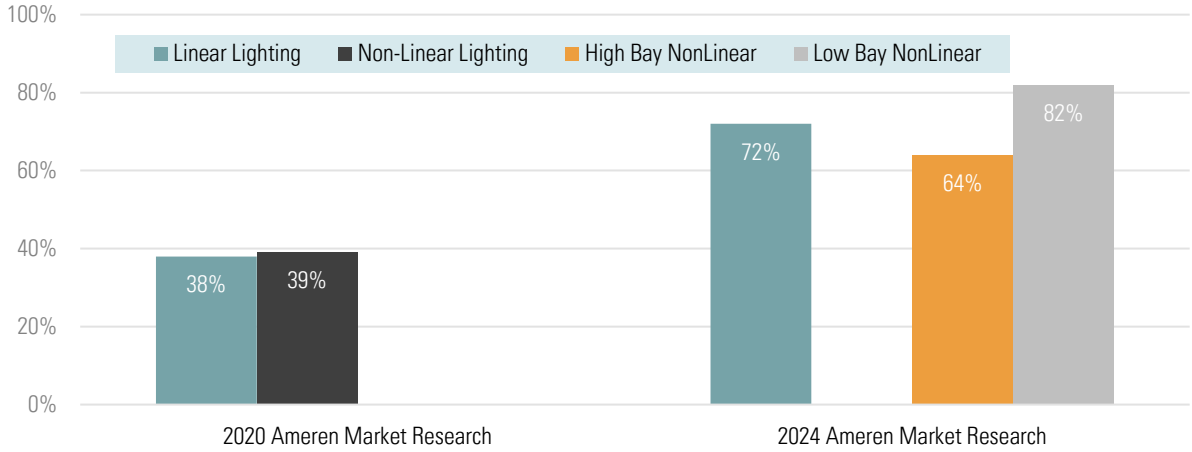
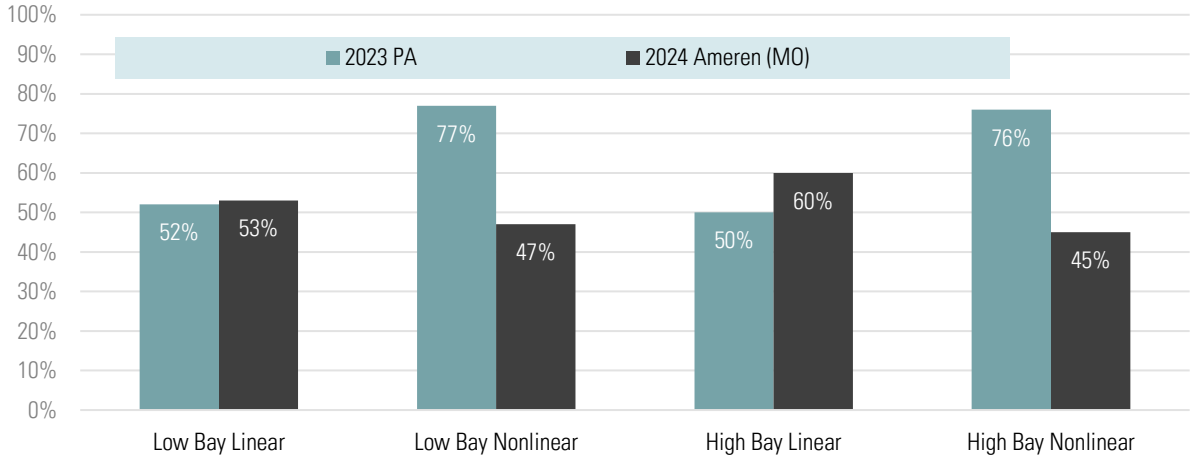


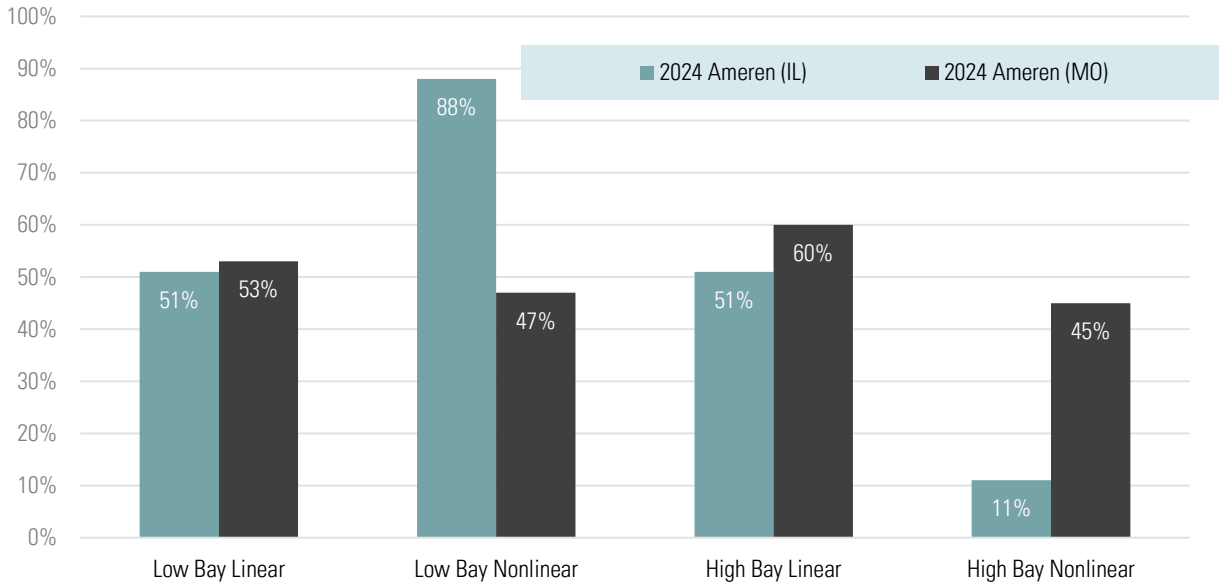
Figure 2-21 provides a comparison of the current 2024 Ameren respondents to the findings of the 2023 Pennsylvania baseline study that included site visits to quantify LED saturation. In general, there was relative consistency in the reported saturation of LED linear lighting across the studies, with lower reported saturation of nonlinear high bay and low bay LED lighting.

FIGURE 2-21: LED SATURATION – 2023 PENNSYLVANIA BASELINE VERSUS 2024 AMEREN MARKET RESEARCH



Last, GDS compared, where possible, the results of the Ameren Missouri survey to 2024 data collected in the Ameren Illinois service area. For Ameren Illinois, the survey data suggested that 51% of linear lighting was LED. Similarly, the saturation of LED lighting in nonlinear applications was 88% and 11% for low bay and high bay applications, respectively. In the Ameren Missouri survey, LED saturation in linear applications was only marginally higher than Ameren Illinois (53% for low bay applications, and 60% in more limited high bay applications). However, more substantial differences are noted for nonlinear lighting where the LED saturation was estimated between 45%-47% for Ameren Missouri.

FIGURE 2-22: LED SATURATION – 2024 AMEREN ILLINOIS VERSUS 2024 AMEREN MARKET RESEARCH



2.7 FINDINGS SUMMARY AND CONCLUSIONS

Overall, the results of the 2024 Ameren Missouri Baseline Lighting Survey suggest that the lighting market is transitioning to LED lighting. More than half of all linear lighting in business facilities is estimated to be LEDs, and more than 45% of nonlinear fixtures are also estimated to be LEDs. These saturation levels are generally consistent across geographic and economic areas, though there is some additional variability across building types (possibly driven by smaller respondent levels).

However, while LEDs are just over 50% of linear lighting, and just under 50% of nonlinear lighting, there remain a number of facilities that responded that they have little to no LEDs installed. On average, 38% of facilities estimated their saturation of low bay linear lighting (the most common lighting type in most business facilities) to be less than 20%. Further nearly 20% of facilities said they had no plans to convert their remaining lighting to LEDs. An additional 25% indicated they were in the process of steadily replacing inefficient lighting with LEDs, with roughly half of these respondents indicating that a lack of incentives

would either slow/stop their planned conversions, or were uncertain how a lack of incentives would affect conversion plans.

For lighting controls, most facilities employ basic and/or stand-alone lighting controls, only twelve percent (12%) indicated they had advanced lighting controls at their facility. In addition, for facilities without advanced lighting controls, many (47%) were unaware of them, and the majority (more than 85%) had never considered them and had not been offered them by a vendor.

Last, based on a review of recent studies that included an assessment of LED lighting saturation, there were general similarities in overall LED saturations (particularly among linear lighting) that suggests Ameren Missouri's programs have been successful in advancing the transition to LED lighting in pace with other jurisdictions that incentivize business LED lighting.

3 Market Actor Interviews

GDS completed semi-structured interviews with program trade allies active in the nonresidential lighting market. Data collection was conducted in October and November 2024 to understand the prevalence of linear and HID replacement LEDs in their nonresidential lighting sales.

Research involved conducting interviews with ten Ameren trade allies. The interview guide and questions were developed by GDS and reviewed by Ameren. GDS interviewed six electrical installer-contractors and four electrical distributors who were identified as trade allies of the Ameren nonresidential lighting programs.

The responding distributors and installer-contractors primarily serve the St. Louis metro area and Cape Girardeau metro area, with several also indicating service in mid-Missouri. Several indicated covering a wide area, including rural and southern Missouri. The number of Ameren projects in 2023 sold by the interviewed trade allies ranged from less than 5 to over 250, with a variety of non-residential customer types, spanning small businesses to large healthcare or warehouse facilities.

The purpose of the trade ally interviews was to understand the current state of LED lighting sales as a percent of overall current sales and learn their perspectives on the role that Ameren's nonresidential lighting programs have on those sales.

The results of the interviews provide a snapshot-in-time of "current" lighting sales from a sample of Ameren trade allies. Current lighting sales reflect time just prior to the interviews, though no specific date range was presented – respondents interpreted "current" in their own implicit ways, with results reflecting their perception of the "current market" as they defined it for themselves. In interpreting the results, GDS notes the following:

- Current lighting sales are a snapshot in time and do not reflect the overall market opportunity for remaining lighting efficiency upgrades. The companion customer survey provides data on the remaining opportunity.
- Trade allies do not represent the entire set of market actors that engage in the nonresidential lighting market. While the sample of trade allies exhibited a diversity in term of numbers of projects or associated energy savings, these trade allies were engaged with the Ameren program. The scope of the research was not intended to cover nonparticipating market actors. As such it should not be interpreted as representing the perspective of the Ameren nonresidential lighting market as a whole, and ultimately only represents the perceptions of the specific trade allies that were interviewed.
- A more complete perspective from market actors engaged with the nonresidential lighting market would require the inclusion of more program trade allies, add nonparticipating market actors making sales in Ameren's service territory, and mapping nonresidential lighting sales. Such a research plan would require substantial time, budget, and the use of incentives to reflect the value of time and data that respondents would be providing. Additionally, mapping the relationship of participating and nonparticipating distributors, retailers, and associated contractors to characterize the flow of

lighting sales within programs or outside would be necessary to understand the relative proportion of sales and the market actor perspectives on program impacts on those sales.

- Trade allies have their own perspectives, which is inevitably influenced by their engagement with Ameren's nonresidential lighting programs. Indeed, the purpose of such research is to understand those perspectives, which include any biases the respondents may have. Nonparticipating market actors have their own biases. One cannot remove bias from responses when the goal is to understand perceptions. This research should be understood as providing perspectives from a specific slice of market actors.

While the results of this market actor research represent a slice of the overall marketplace, the results are nevertheless useful. Program trade allies were able to provide their LED market sales shares. Trade allies are also able to provide perspectives of what they see as impacts of programs on their current and future market sales, along with insights about customers that they engage with in their sales processes. These perspectives are not comprehensive. For example, installer-contractors and distributors can only reflect on their sales perspective – installer contractors do not experience sales from customers that may replace lamps on their own, while neither type of trade ally has perspectives on sales occurring outside their sales channels. Furthermore, installer-contractors may only enter into a sales process with customers for whom the opportunity for lighting efficiency is viewed as attractive by the customer. This research and the approach are not intended to capture all possible sales of nonresidential lighting – only the experiences and perspectives of the market actors we spoke with. As such, with a focus on sales, the research is limited in its ability to address the nature of non-sales from these market actors.

The respondents indicated that both Ameren lighting incentives and trade ally assistance provided by Ameren representatives and program support tools are important to making LED lighting sales. Incentives are helping reduce overall project costs, with that helping trade allies sell a larger quantity of LED lighting than would otherwise be sold. Ameren lighting program representatives and Ameren's software application (app), offered to calculate lighting savings and payback, are also helping trade allies sell more LED lighting technology than they otherwise would. Both incentives and the use of Ameren software apps has helped trade allies expands the scope of lighting projects, with more lamps and fixtures being sold that were initially planned by the customers.

The results of the interviews show that LEDs occupy a high share of respondent lighting sales, with non-LED making up approximately 15 percent of current lighting sales (both linear and HID replacements). The market sales share for LEDs has grown in the last three to five years for distributors, while it has held steady for installer-contractors. Nevertheless, all respondents indicated ongoing opportunities for increasing the penetration of LED lighting into the nonresidential market, with Ameren's programs being a component of continued market penetration.

Interview respondents indicated that a wide range of customer types are currently purchasing LEDs, with several trade allies noting shifts in sales over time. These trade allies mentioned that they have recently been selling LEDs to more warehouses and small, diverse businesses than others. Trade allies indicated that some small businesses, as well as property owners that do not pay utility bills, are lagging in the rate of LED installations compared to other organizations. As LEDs experience ongoing market diffusion, customers with

barriers or who may not perceive value in making lighting changes can be expected to make up a greater share of the remaining potential.

Interviews also investigated the role of lighting controls in sales. The respondents were all familiar with lighting control technology. The installer-contractors tend to install simpler sensor-based systems, while distributors install more complicated network controls that require communication hubs and programming. Trade Allies reported both incentive and educational roles for Ameren when it comes to encouraging energy savings with networked lighting controls.

Below we describe the interview methodology, describe the respondent sample, and provide more detailed results.

3.1 METHODOLOGY

GDS sought to interview a total of ten Ameren trade allies for this market study. Ameren provided GDS with a database of 2023 trade ally lighting partners, which included forty-eight electrical installer-contractors and twenty-nine distributors. The database included information regarding each respondent's 2023 kWh program savings, program incentive dollars, and project counts.

GDS developed an interview guide to capture quantitative and qualitative information. The guide is provided in Appendix C. As semi-structured interviews, the guide is used to assist in the conversation with the respondents, but does not dictate specific response categories, other than for quantitative questions. GDS sent a total of 23 email recruitments to 13 installer-contractors and 10 distributors, indicating an overall response rate of 43 percent.

Table 3-1 describes the make-up of the respondents based on 2023 Ameren program data, indicating a wide range of program participation levels. Data is deliberately obscured to avoid disclosing respondent-specific data and violating anonymity expectations. Ranges of MWh savings, incentive dollars, and project counts are rounded.

TABLE 3-1: RESPONDING **TRADE ALLY CHARACTERISTICS, 2023 AMEREN BIZLIGHTING PROGRAM**

	Distributors (n=4)	Installer-contractors (n=6)
MWh Savings Range	150 to 5,000	65 to 4,000
MWh Savings Average	2,700	1,100
Incentive Dollars Range ($1,000)	$30 to $710	$7 to $310
Incentive Dollars Average ($1,000)	$290	$155
Number of Projects Range	<10 to >250	<5 to >45
Number of Projects Average	105	25

The geographical area of those interviewed spans the St. Louis metro area as well as mid-Missouri and southern Missouri. Three out of the four distributors and four out of the six installer-contractors serve the St.

Louis metro area. Two of the three distributors mentioned service to Cape Girardeau. Several indicated serving a wide geography, including mid-Missouri and rural areas.

In GDS's opinion, the mix of respondents covered a wide range of program activity levels and market engagement. From geographic coverage to the level of engagement with Ameren nonresidential lighting programs, the respondents were able to share a wide range of possible experiences in the nonresidential lighting market.

3.2 FINDINGS

The results of the interviews indicate that LED lighting is the most common form of lamp technology for current sales. On average, respondents indicated that LEDs make up 85 percent of linear lighting and 77 percent of HID lighting being sold during 2023 through October 2024. Respondents also indicated that Ameren incentives are important to selling larger LED projects, though, LEDs have become a standard lighting technology offered to their customers. Looking ahead to future lighting technologies like lighting controls, all interviewed are selling at least simple on-fixture or sensor control systems, with all interviewed distributors selling network lighting control systems.

LED Lighting Sales Shares

Respondents were asked to estimate their sales shares of LED lighting, differentiating between linear lamp or fixture replacements and HID lamp or fixture replacements. Table 3-2 presents the results for each respondent, along with information regarding program engagement and summary results. Table 3-2 reflects how each respondent considered current LED sales shares, with interviews occurring in early Fall 2024.

TABLE 3-2: CURRENT 2024 LED SALES SHARES, INTERVIEW RESPONDENTS

	Share of LEDs within linear	Share of LEDs within HID
Distributor 1	100%	100%
Distributor 2	70%	50%
Distributor 3	70%	80%
Distributor 4	80%	90%
Distributor Average	**80%**	**80%**
Installer-Contractor 1	90%	N/A[5]
Installer-Contractor 2	90%	50%
Installer-Contractor 3	100%	100%
Installer-Contractor 4	100%	100%
Installer-Contractor 5	100%	100%
Installer-Contractor 6	50%	100%
Installer-Contractor Average	**88%**	**90%**
Overall Average	**85%**	**85%**

[5] This installer-contractor did not have HID lamps as a core product offer.

The ratio of LED vs traditional lighting in the current share of sales was slightly higher for installer-contractors than distributors for linear lighting. HID lighting reflected the same sales pattern – somewhat higher shares for installer-contractors than distributors. That said, both types of market actors show similar shares of LED sales, with average current sales shares indicated as 85 percent for both lighting types.[6]

Program Effects – Incentives and Ameren Support

Participation in Ameren's incentive programs have increased sales of LEDs overall, according to interview participants. Respondents noted the following elements that Ameren offers helped to increase the market share of LED sales:

- Financial incentives
- Ameren's trade ally support strategies
- Ameren's energy savings and payback calculator software app

Ameren's historical LED lighting incentives allow the interviewed trade allies to sell more LED lamps and fixtures than they could sell without incentives. All interviewees noted that financial incentives, even if they are small, make a difference. One distributor noted that they don't think the adoption of LEDs would be as rapid without incentives, and "It would be more difficult to get antiquated bulbs and fixtures out [of buildings]." An installer-contractor mentioned that they receive project leads from Ameren, when asked about the role of Ameren incentives in their sales, they reported Ameren incentives play a "huge role." Interview respondents all indicated that they sold projects with higher quantities of LEDs due to Ameren incentives. Without the incentives, "people will only fix what's broken and not upgrade a whole set of lighting," according to one installer-contractor.

Respondents indicated that Ameren's incentive trade ally support strategies are improving sales of LEDs in a variety of ways. Both installer-contractors and distributors noted that they receive project leads and program assistance directly from Ameren representatives. One installer-contractor commented, "Teaming up is key in every sales approach. Keeping trade allies accountable, keeping Ameren accountable, you get better work and new ideas." Two of the trade allies that were interviewed mentioned that Ameren representatives helped them through the incentive process. One distributor who was interviewed mentioned education is key when making LED sales. Another distributor specifically mentioned that incentive programs offer an "opportunity to be co-branded with a larger corporation (Ameren) that people trust."

Several respondents noted that the support Ameren provides through their representatives and program information help to validate LED sales. Four out of the ten trade allies mentioned that educating their customers about energy cost savings and paybacks is useful in making a sale. One installer-contractor noted that they use the Ameren app to bid their jobs, and when asked what would happen if LED incentives went away replied, "People love the incentives even if it is just a little bit of money. I use the Ameren app to bid my jobs [because] it helps with the payback." A distributor mentioned that most medium to small businesses, when approached about Ameren incentives, "see the value in energy savings."

[6] GDS utilized the straight average of all respondents. A weighted average based on total lighting market sales volumes would be ideal but require a larger sample and sales mapping to be accurate.

LED Sales Share Over the Last Three to Five Years

The market share of LEDs has grown in the last three to five years for distributors but not for installer-contractors, with the difference suggesting an evolution in how each type of market actor has made sales and served customers. When asked if they have seen changes in the relative share of LED sales versus traditional lighting over the last three to five years, all distributors commented that the share of LED sales today is higher than three to five years ago. One distributor commented that recent sales share of LEDs has "grown dramatically." Another distributor noted that lighting sales have increased generally during the post-COVID era. This distributor noted they are "certainly selling more LEDs nowadays than during the pandemic," but qualified that was due to customers wanting to maintain social distancing during the pandemic.

Installer-contractors had a much different answer to the question about the market share of LEDs in the last three to five years. While one installer-contractor said they sold fewer LEDs three to five years ago, the other five installer-contractors all said their current sales share of LEDs is similar to what it was over the prior three to five years. Two expanded on the historical perspective, with one noting, "You'd have to go back 15 years ago for me to be selling traditional lighting. Otherwise, it's all been LEDs." Another installer-contractor said they were selling all traditional lighting in 2010 and that the sales share of LEDs three to five years ago "was similar to today."

Customer Types Leading LED Sales

Respondents were asked to reflect on customer types they observed as leading in the adoption of LEDs over others. Each respondent was able to reflect on their market and offered the following characteristics of customers that are leading current LED sales. These include:

- Warehouses
- Corporate organizations with sustainability initiatives
- Office buildings
- Retail spaces
- Health care facilities

The general view across the respondents was that LEDs were popular across customer types. Six of the ten respondents indicated that warehouses were easier to make LED sales to than others.

Customer Types Lagging LED Sales

Respondents were asked to reflect on customer types that they observed were lagging in the adoption of LED sales. Each respondent was able to reflect on their market and offered the following characteristics of customers that are lagging current LED sales. These include:

- Small businesses
- Commercial properties where the property manager or property owner does not pay the electricity bill
- Apartment complexes

Two trade allies who were interviewed mentioned that there are still small businesses that have not yet been approached by the Ameren incentive program, and that the small business program has been instrumental in

serving the small business segment. An installer-contractor mentioned that smaller businesses may be lagging in adoption of LEDs "because they don't know about them as much." Property owners who do not pay energy bills were cited by one installer-contractor and one distributor as lagging in LED adoption. The distributor noted, "Property managers are probably single consumers of LED tubes but there's a segment (apartment complexes) where they're not making the change." An installer-contractor also commented similarly, stating that property owners that do not pay the utility bills tend not to upgrade to LEDs, unless their rental unit has been vacant. If the unit has been vacant, this installer-contractor stated some property managers install LEDs in an effort to modernize their building and attract leasers.

Impact if Nonresidential Lighting Programs Were to End

Trade allies were asked how purchasing trends may change if, in theory, Ameren Nonresidential LED lighting incentives were to end. Seven out of ten interviewees responded with conviction that ending LED incentives will slow or even stop the sale of LED lighting. This sentiment was shared between both distributors and installer-contractors, regardless of their level of program activity. When asked if incentives will end, one installer-contractor with three Ameren lighting projects in 2023 stated, "People are not going to upgrade unless fixtures fail." One respondent with 22 Ameren lighting projects in 2023 noted that incentives push those customers that are slow to change.

One distributor and two installer-contractors indicated that a majority of their business is due to Ameren small business program incentives and noted that there are near-term opportunities to reach small businesses that currently have traditional lighting. These trade allies have completed between 8 and 22 Ameren lighting projects in 2023. The distributor commented that "contractors make a living selling with a rebate. [If incentives end] they would lose profitability, leave the industry, and overall less LEDs would be installed." Just one interview respondent, a distributor, noted that LED market sales share would remain the same if Ameren incentives were to end. This distributor had seventy Ameren lighting incentive projects in 2023 and stated the value of fluorescents is "short-sighted."

One installer-contractor commented that "the vast majority of people that can make an easy decision on it have made a decision [to install LED lighting]." This same installer said that they "would not have started the company without the incentives," but that the incentives are not as important today as they were three to four years ago. Another distributor noted that they "don't think the adoption [of LEDs] would be as rapid. It would be more difficult to get antiquated bulbs and fixtures out." These responses suggest that Ameren's programs have an influence in the diffusion of LED lighting into the nonresidential market, with lagging adopters potentially not moving forward or moving forward at a slower pace.

Advanced Lighting Controls

Respondents were asked about the future of lighting controls technology, if they offer advanced lighting controls, and possible roles for Ameren in the lighting controls market. All four distributors indicated experience with and sales of lighting controls, including networked lighting that require communication hubs and programming. Only one of the installer-contractors indicated installing programmable networked lighting controls. Five of the six installer-contractors that they currently install simple control technologies like occupancy sensors and fixtures with embedded occupancy sensors.

Of those more familiar with networked controls, one respondent commented that, "Networked controls get confusing when fixtures start to fail in the future. Nine out of ten times the maintenance manager may not understand the controls." In addition, a distributor mentioned that controls need to improve "before they'll be cost beneficial." This distributor went on to say that there are issues in capability between network brands, and that if a customer has an existing one brand of control system, the control system may not work if another brand's lighting equipment is retrofit to the system. This distributor further suggested that network lighting controls "need to be universal in communications and not proprietary," indicating a potential challenge for the future.

Trade allies are seeing opportunities for networked lighting sales. One distributor commented that networked controls are "the next wave for lighting and lighting efficiency. People have purchased LEDs or will in the near future… That's where networked lighting comes in and provides more flexibility and precision." One installer-contractor noted that they currently install daylighting controls, hallway dimming, and parking lot dimming networked controls that are programmed and operated using a smartphone or laptop.

Respondents provided feedback on how Ameren may play a role in encouraging networked and advanced lighting technology. The responses from the interviewed trade allies include the following:

- Workshop for trade allies on simple controls
- Education about advanced lighting technology to both trade allies and utility customers

Ameren can help customers and installers understand what networked controls are and the benefits they offer, according to the trade allies interviewed. A distributor said they have a hard time selling advanced lighting systems that are unfamiliar to their customers. In addition, an installer-contractor said, "If Ameren would do a workshop on simple controls, forget advanced, smaller guys like me would show more interest. A baby step to help companies become more familiar with controls."

Incentive strategies for advanced and networked controls were also suggested by trade allies. Interview respondents commented that costs may be a barrier for advanced lighting and that incentives will encourage a networked lighting purchase decision. The interviewed trade allies indicated that they are familiar with simple vacancy-type lighting controls offered by Ameren, but they are not aware of any advanced lighting control incentives. An installer-contractor recognizes that, "there are a lot of savings potential there [with lighting controls]," and the paybacks can be "amazing" when incorporating controls with lighting retrofits.

Possible Future LED Program Areas for Ameren to Focus On

During the interviews we explored trade ally perspectives on areas Ameren's lighting programs could focus on. These include nonresidential market segments that trade allies felt were lagging in the adoption of LEDs such as small businesses, and rental properties that may experience split incentive barriers. Advanced lighting controls offer a new opportunity for program development and drive additional savings.

Summary Interview Findings

The results of the interviews indicate that LEDs have a high current market share in for both linear and HID lighting sold in the Ameren territory. In addition, interview respondents indicated that Ameren programs play an ongoing role in the sales and installation of LED lighting. While LED lighting makes up a high share of

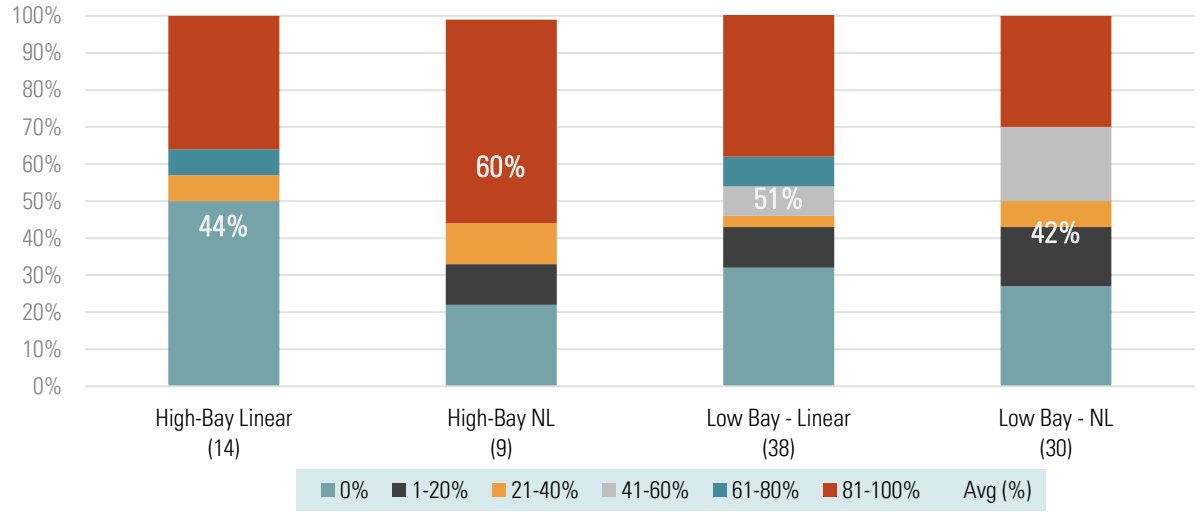
current lighting sales, trade allies indicated that ongoing support form Ameren programs may help maintain that sales trend. Some areas of the nonresidential lighting market were noted as lagging in LED adoptions and with opportunities to expand future sales. Advanced lighting controls are a relatively new opportunity that Ameren may be able to drive additional lighting energy savings.

APPENDIX A. Additional Online Customer Survey Results

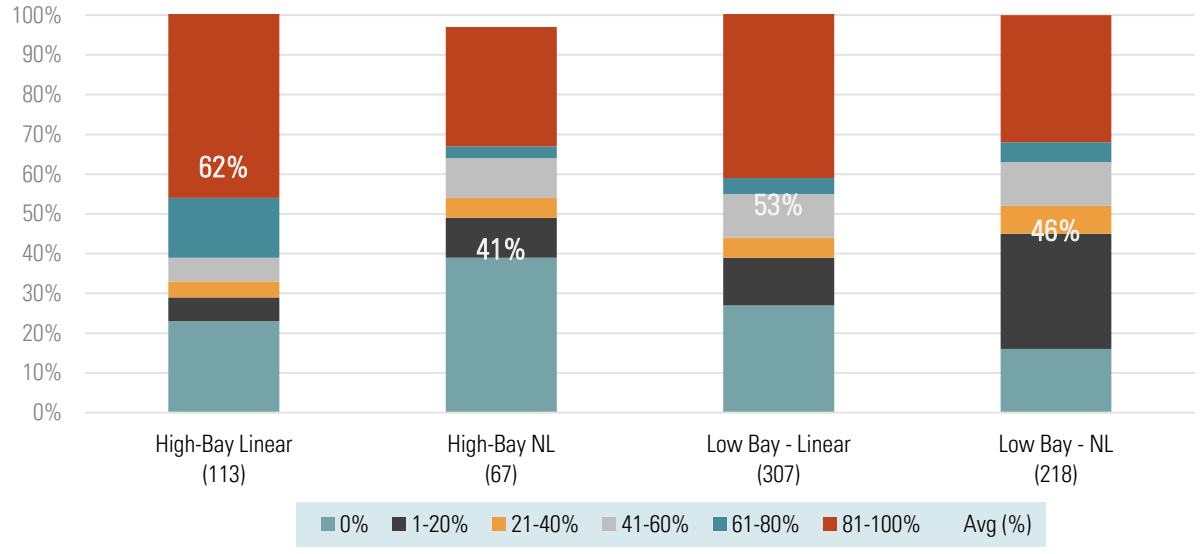
The majority of the tables and figures provides summary results for all respodents as well as breakouts by geographic and economic region. However, a select few results are summarized, for space savings purposes, in the main body report for all respondents only. This appendix provides additional metrics for these datapoints by economic and geographic region, but note reduced sample sizes for select responses.

FIGURE 2-12 by Geographic/Economic Area

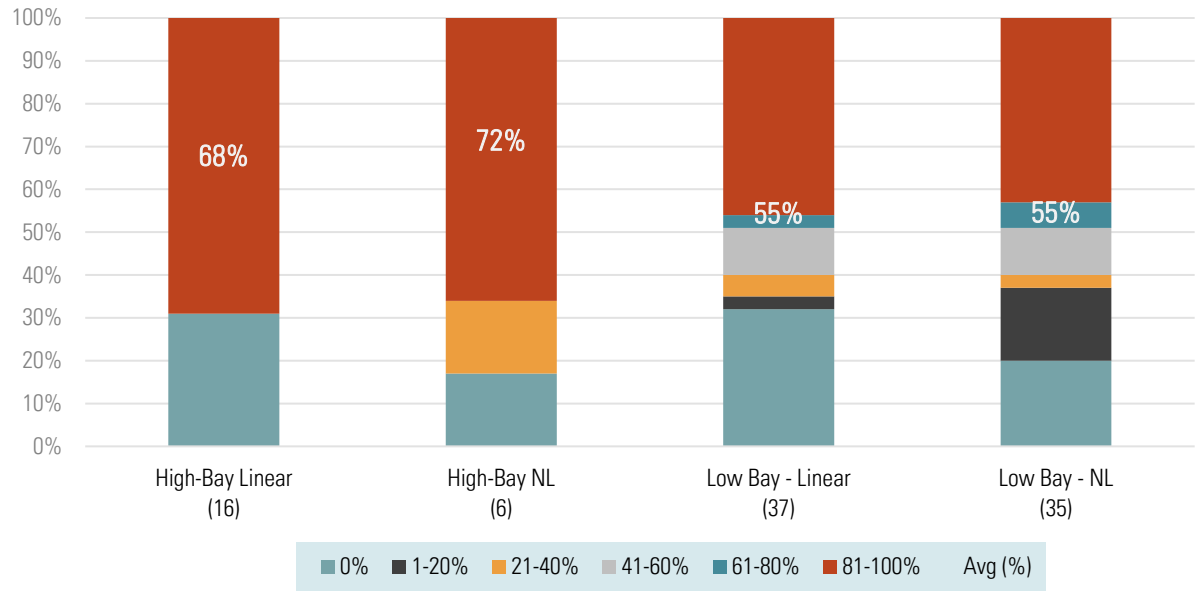
INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – MICRO AREA



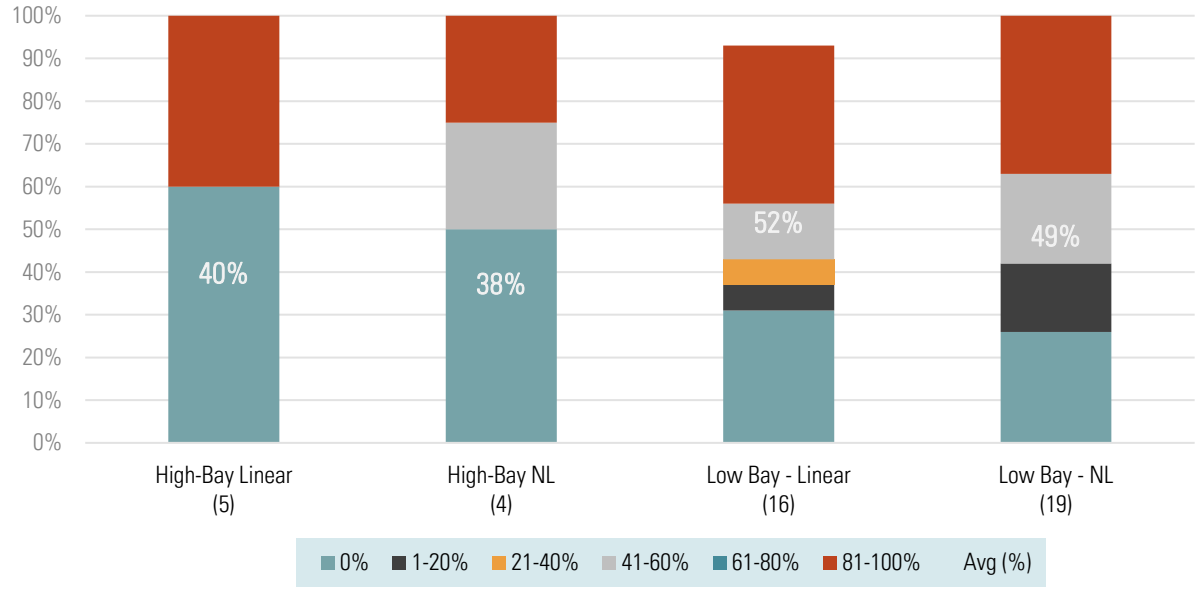
INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – METRO AREA



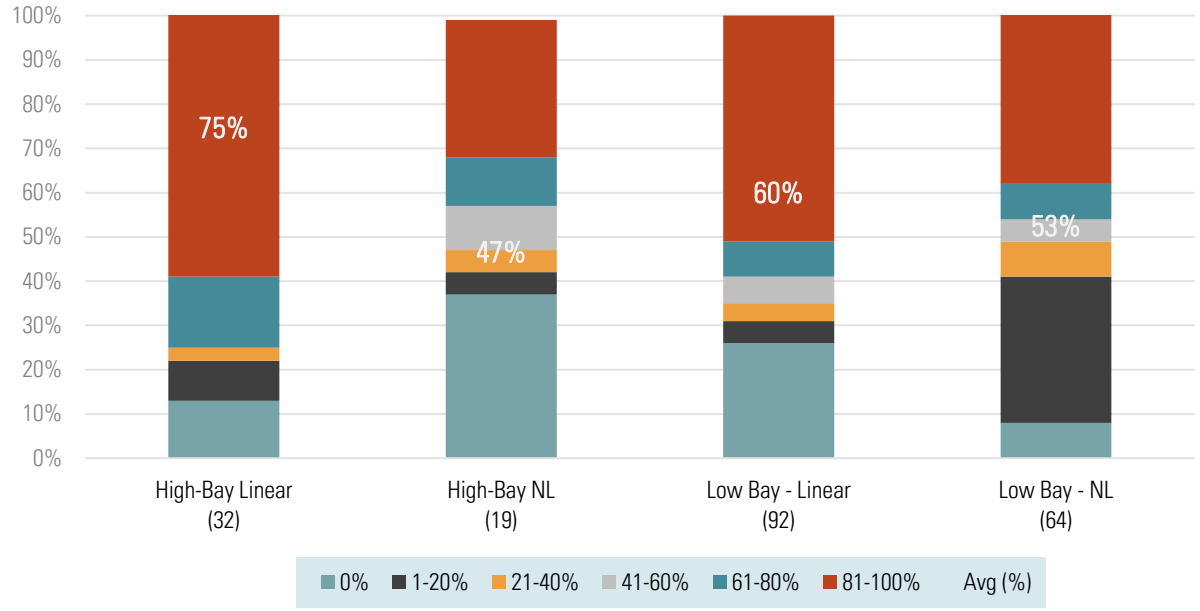
INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – RURAL AREA



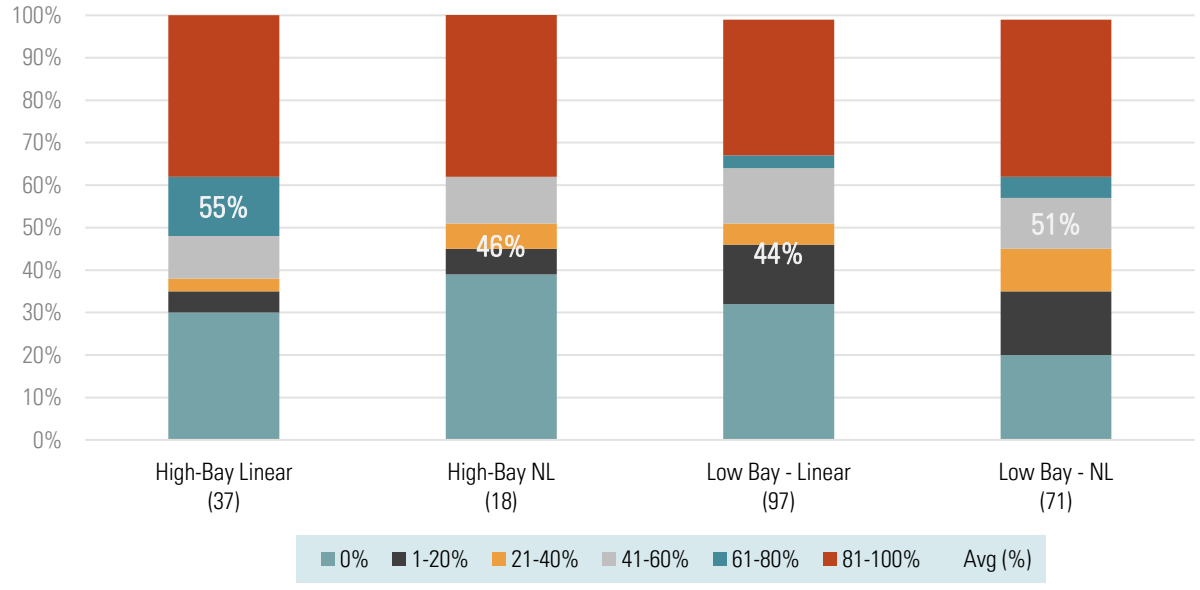
INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – URBAN AREA



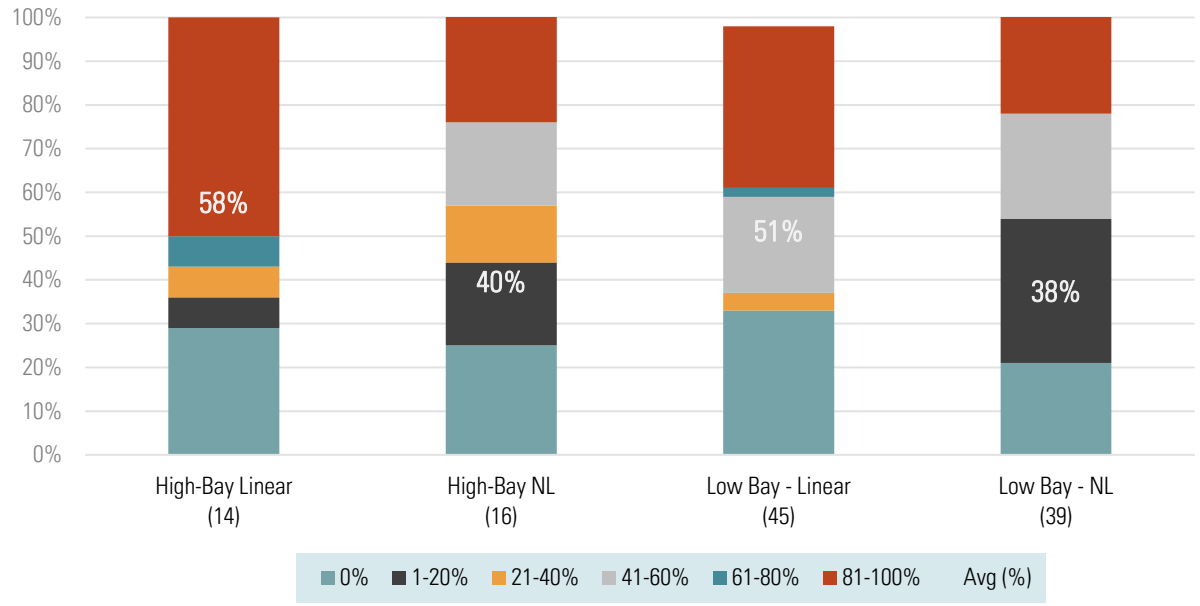
INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – PROSPEROUS



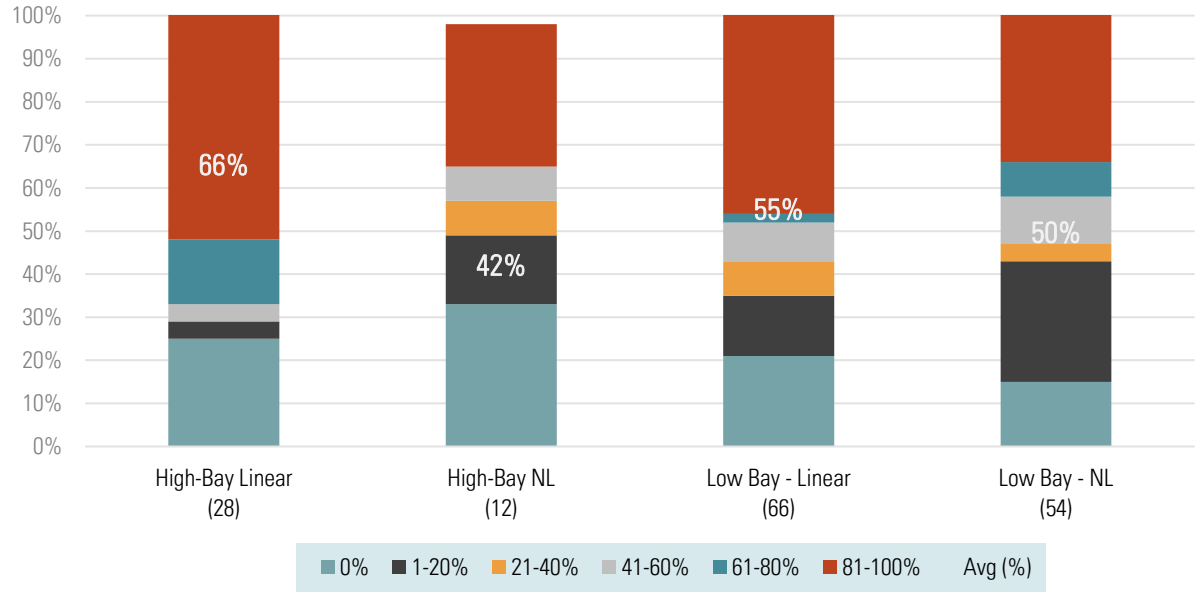
INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – COMFORTABLE



INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – MID-TIER



INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – AT RISK



INTERIOR LIGHTING LED SATURATION – BY FIXTURE TYPE (LED DISTRIBUTION AND OVERALL AVERAGE) – DISTRESSED

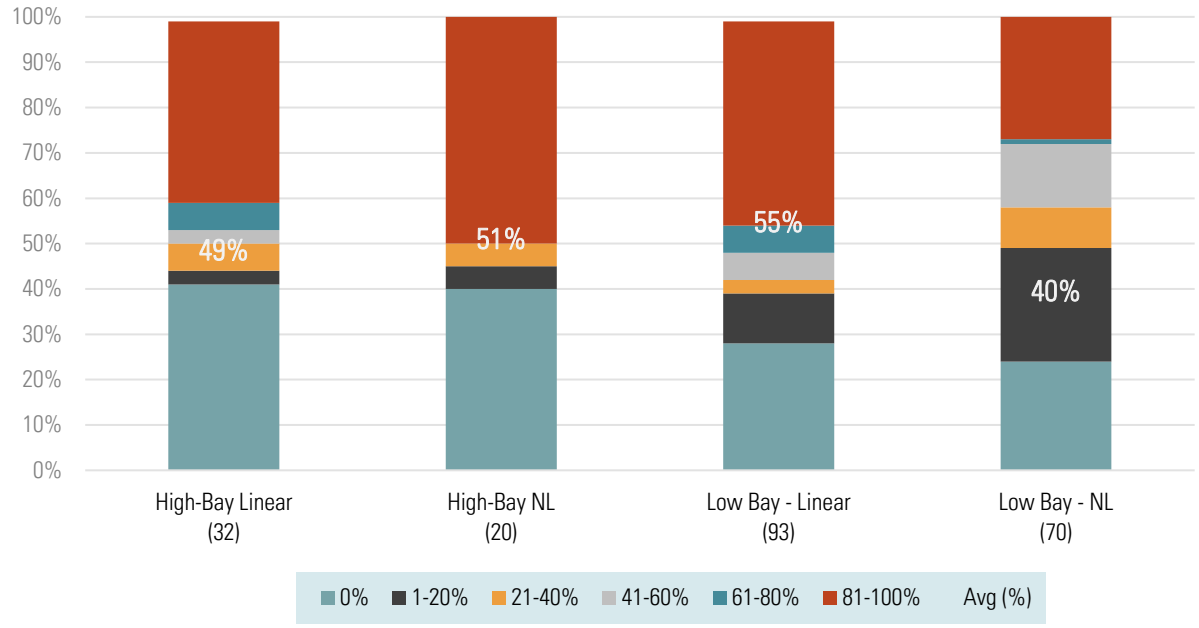
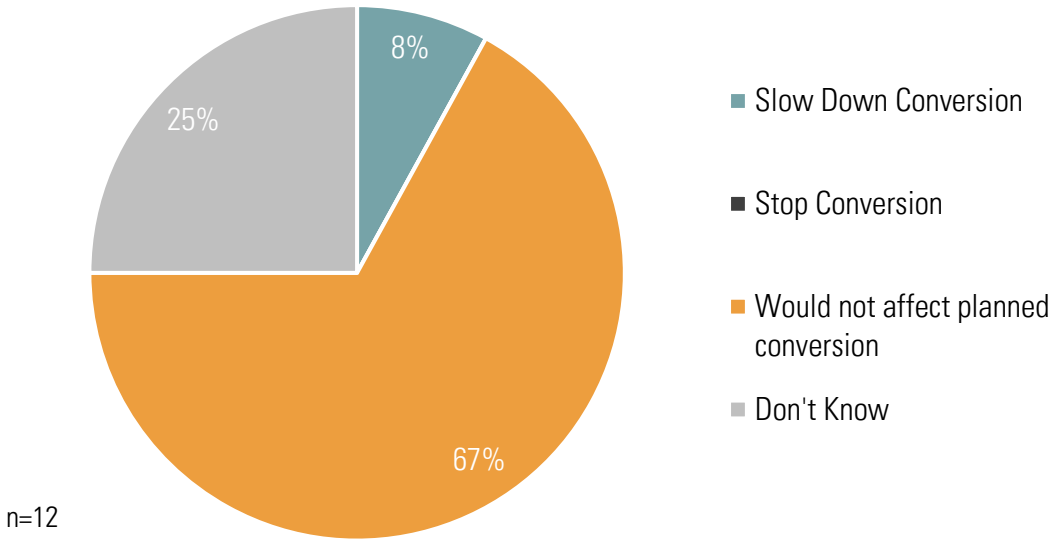


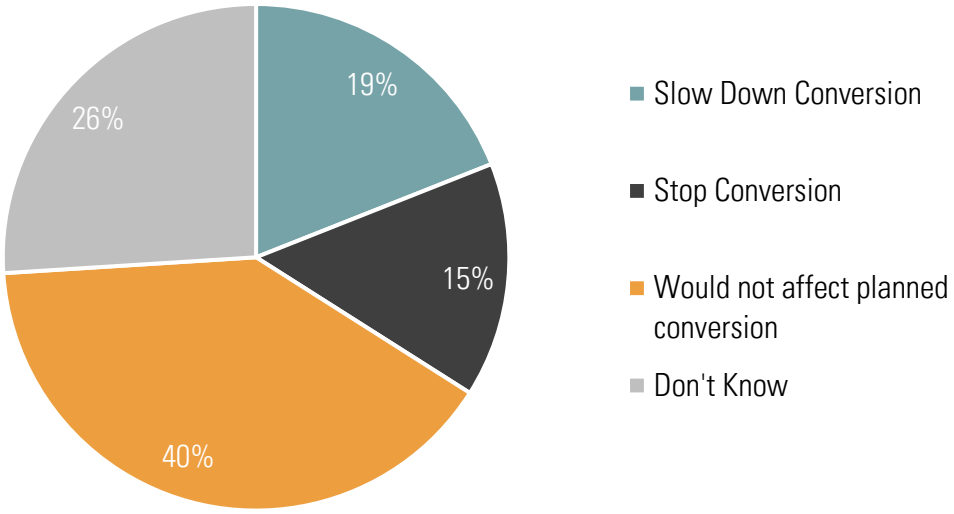
FIGURE 2-15 by Geographic/Economic Area

IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – MICRO AREA



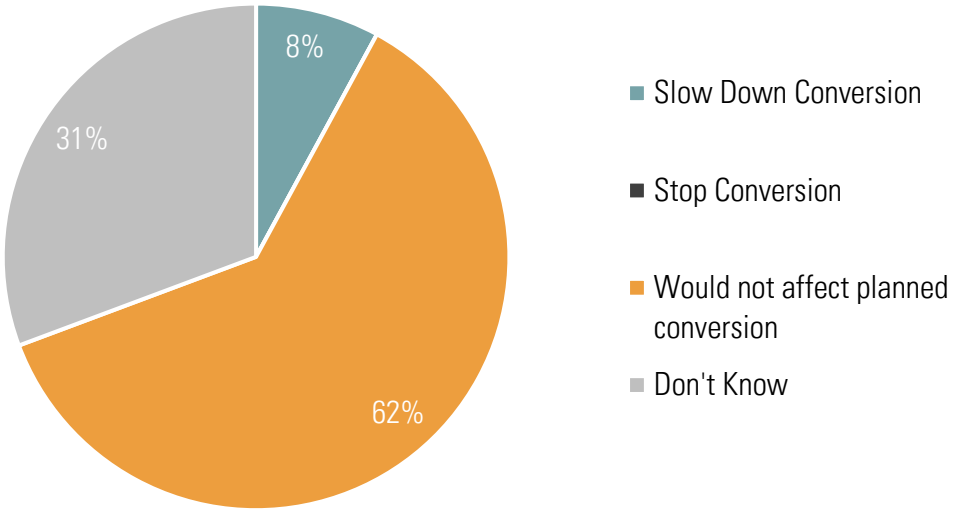
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – METRO AREA



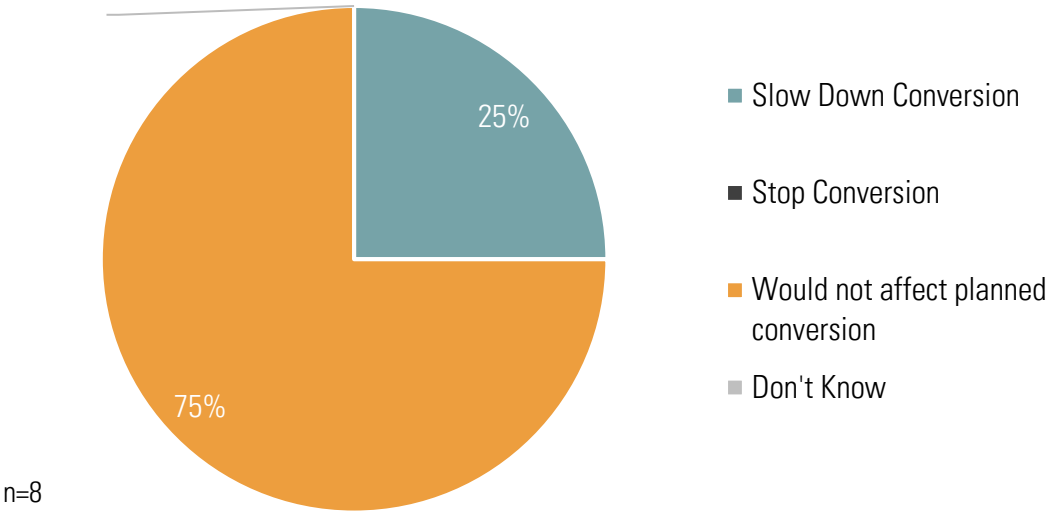
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – RURAL AREA



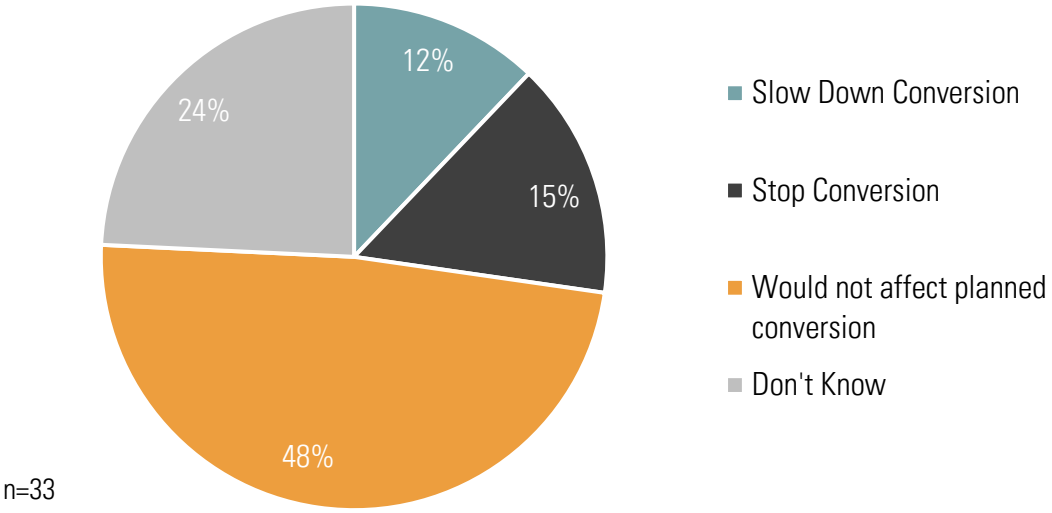
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – URBAN AREA



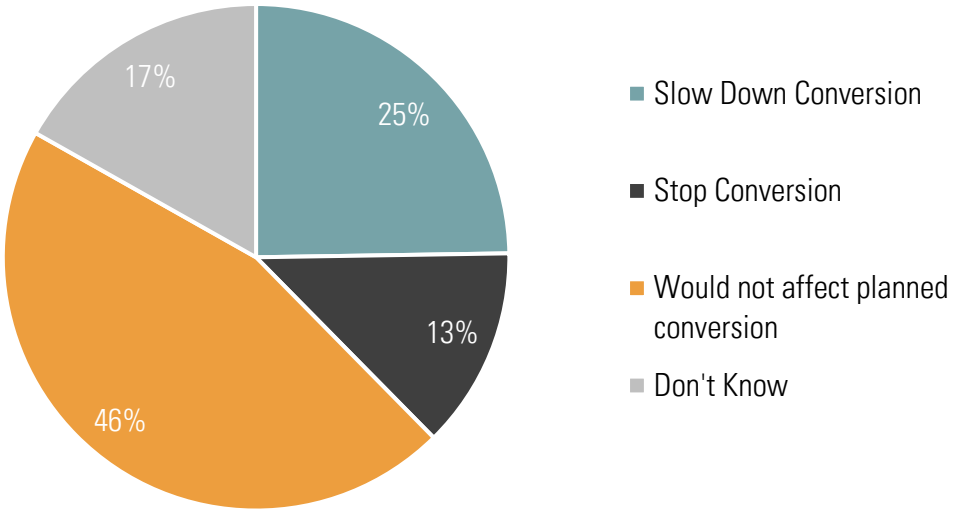
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – PROSPEROUS



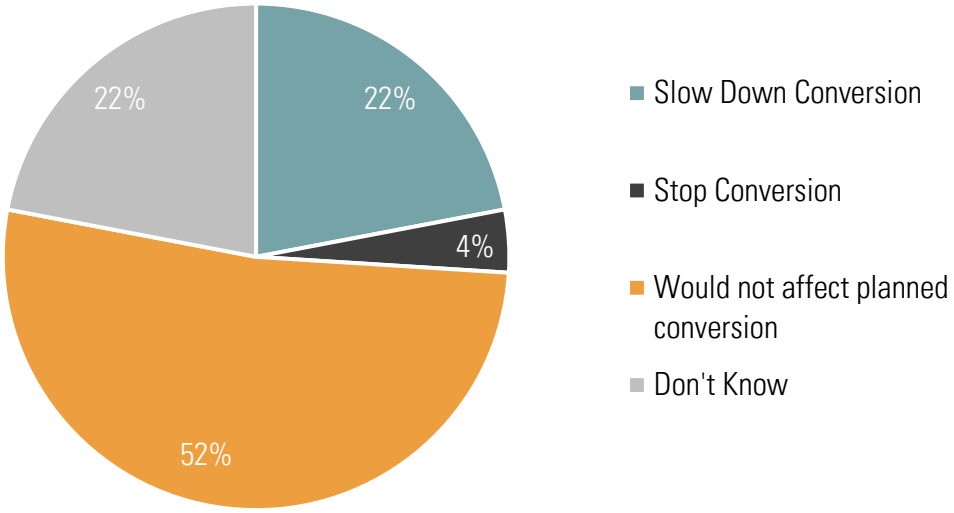
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – COMFORTABLE



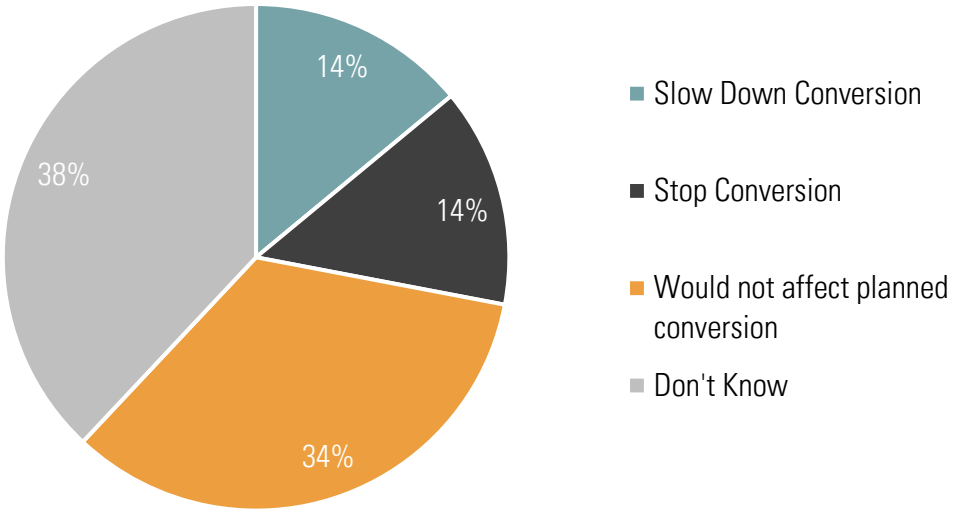
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – MID-TIER



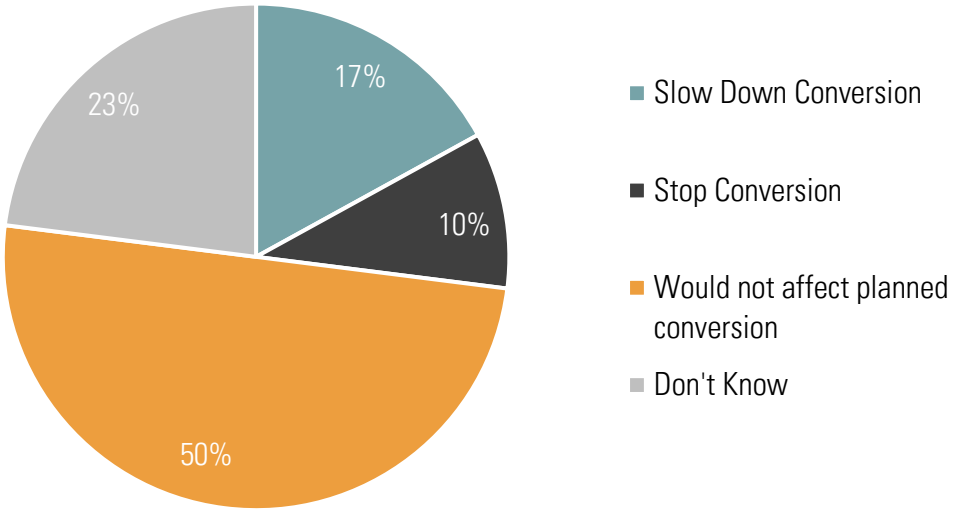
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IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – AT RISK



n=29

IMPACT OF REDUCED INCENTIVES OF FUTURE PLANNED LED CONVERSIONS – DISTRESSED



n=30

APPENDIX B. Online Customer Survey Instrument

Introduction

Thank you for expressing interest in participating in this survey about the BizSavers Program! The results of this survey will be used to inform and improve energy efficiency programs delivered though Ameren Missouri. Your responses will be kept anonymous and only reported in aggregate with other responses. All personally identifiable information will be kept strictly confidential.

You can use a computer, tablet, or smartphone to complete the survey. If you have any questions or require technical support, please contact the Ameren Missouri Business Center at (877)426-3736.
We look forward to your feedback. Thank you very much for your participation!

Screener and Eligibility

As an Ameren Missouri customer, you are invited to help inform future efficiency incentives by completing this survey regarding the lighting equipment and building characteristics of your facility.

1. Are you able to answer basic questions about the lighting equipment and building characteristics of your facility?

   01. Yes
   02. No

[ASK IF Q1 = 02]

2. Is there someone else who might be more knowledgeable about the lighting equipment at your facility?
   01. Yes
   02. No [THANK AND TERMINATE]

[ASK IF Q2 = 01]

3. Could you provide that person's email address so we may contact them?
   01 [Open ended email address] Thank you! We will resend the invitation to participate in this survey to the identified individual. [THANK AND TERMINATE]
   02 I am unable to refer another individual at this time. [THANK AND TERMINATE]

Occupancy Verification

4. How much of the facility located at <ADDRESS> does your organization currently occupy?

(*If you manage the facility but do not occupy it – like vacation rentals, housing or office space – answer "none" here*)

   01. All
   02. Part
   03. None
   99. Don't know [THANK AND TERMINATE]

5. Please choose the occupancy status of this building:

   03. Owner-occupied
   04. Leased
   99. Don't know

6. Is this building occupied and operation year-round?

   01. Yes
   02. No
   99. Don't know

Business Segment

7. Please choose the answer that best describes the primary use of this building:
   01 Office or progressional services *(excluding government services – private sector only)*
   02 Government or public administration *(if your facility is an office in the government sector, use this category)*
   03 Education *(e.g., colleges, technical schools and universities as well as K-12 education, early childcare)*
   04 Retail or personal services *(personal services include salons, barbers, etc.)*
   05 Grocery or convenience store
   06 Warehousing and/or distribution
   07 Health *(e.g., medical offices, dental offices, hospitals, medical laboratories)*
   08 Lodging *(e.g., hotel, motel, bed & breakfast)*
   09 Housing *(e.g., rental housing, vacation rentals/condos, senior housing, assisted living, multifamily)*
   10 Restaurant or food service
   11 Other Commercial
   12 Agriculture
   13 Manufacturing/Industrial Facility

[ASK IF Q7 = 04]

8. Please choose the answer the best describes this retail building:
   03 Big-box store (i.e., Target, Wal-Mart, etc.)
   04 Stand-alone small retail store
   05 Small retail store attached to larger complex
   06 Other (please describe): _____
   99 Don't Know

9. What is the approximate floor area of this business in square feet?
   01. 0 to 5,000 square feet
   02. 5,001 to 10,000 square feet
   03. 10,001 to 25,000 square feet
   04. 25,001 to 50,000 square feet
   05. 50,001 to 100,000 square feet
   06. 100,001 to 200,000 square feet
   07. 200,001 to 500,000 square feet

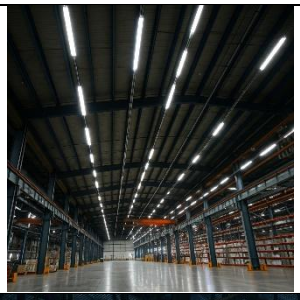
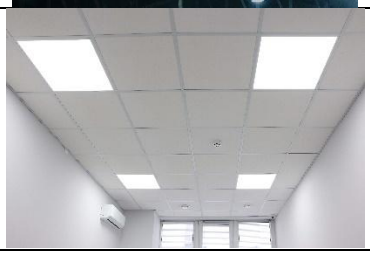
08. Over 500,000 square feet

10. In what range of years was this facility built?

09. Before 1900
10. Between 1900 and 1949
11. Between 1950 and 1969
12. Between 1970 and 1989
13. Between 1990 and 2009
14. Between 2010 and 2019
15. 2020 or after

Installed Lighting Questions

11. Thinking about the **interior lighting** in your facility, about what **percentage** of your facility's total floor area is lit with the following types of lamps? [WHOLE NUMBERS ONLY, NUMERIC OPEN END ,0-100, MUST SUM TO 100] Please give your best guess estimate for each type. If you do not have a given light type, then please enter 0. Otherwise, please enter numbers between 1 and 100.

Picture	Types of lamps	Percent
	High Bay Linear (*Fixture greater than 20ft high, with linear fluorescent/TLED or integrated LED panels*)	
	High-Bay Non-Linear (*Fixtures greater than 20 ft, with HIDs or non-linear LEDs, such as corn cobs*)	
	Low-Bay Linear (*same as high-bay linear, but at heights of less than 20 ft*)	

	Low-Bay Non-Linear (*CFLs, LED, Incandescent, and Halogen screw-based lights as well as downlights/recessed lights at heights less than 20 ft*)	
	Other	

12: For the following types of lamps, what **percentage** are LEDs? [WHOLE NUMBERS ONLY, NUMERIC OPEN END ,0-100, MUST SUM TO 100]

Please give your best guess estimate for each type. If you do not have a given light type, then please enter 0. Otherwise, please enter numbers between 1 and 100.

Types of lamps	Percent (0 to 100)
High Bay Linear (Fixture greater than 20ft high, with linear fluorescent/TLED or integrated LED panels)	
High-Bay Non-Linear (Fixtures greater than 20 ft, with HIDs or non-linear LEDs, such as corn cobs)	
Low-Bay Linear (same as high-bay linear, but at heights of less than 20 ft)	
Low-Bay Non-Linear (CFLs, LED, Incandescent, and Halogen screw-based lights as well as downlights/recessed lights at heights less than 20 ft)	
Other	

13. We'd like to understand how your facility may be changing over to LED lighting. Please select the response that best represents how your facility may or may not have been adopting LED lighting.

01. Only LEDs were installed throughout the facility when we moved in/building was constructed.
02. Our facility doesn't have any LED lights.
03. Our facility has a few LED lamps, but we have no plans to convert the rest.
04. We've been steadily replacing old lamps with LEDs.
05. We have completed a comprehensive replacement of our old lights with LEDs, and most or all of our lights are LEDs.

[ASK IF 13= 04]

14. In your opinion, would this steady conversion slow or stop if your utility no longer offered incentives or rebates to purchase and install high efficiency LED lamps?

01. It would slow down the pace that we convert to LED lights
02. It would stop our conversion to LED lights
03. It would not affect the timing of our conversion to LED lights
99. Don't Know

15. Does this facility have any exterior lighting, not including street lighting provided by the town? (*This may include lighting for parking lots, parking garages, signs, or walkways*)

01. Yes
02. No
98. Don't know

[ASK IF Q15=01]

16. What percentage of these exterior lights would you estimate are LEDs? Please provide your best estimate and enter a number between 0 and 100.

_____ Percent

[ASK IF Q15=01]

17. What percentage of your facilities exterior lighting (*not including street lighting provided by the town*) are on 24/7? Please provide your best estimate and enter a number between 0 and 100.

_____ Percent

Lighting Controls

We'd like to ask a few questions about how lighting is controlled in your facility and understand your perspective on **lighting controls**.

There are three types of lighting controls:

Basic Controls	Manual switch, manual dimmer, time clock
Stand-alone Sensor Controls	Occupancy sensor, daylight sensor
Advanced Lighting Controls (includes Luminaire level lighting controls and networked lighting controls)	Wired or Wireless networked fixture-level integrated occupancy and daylight sensors; high-end trim; fixtures can be controlled independently or as a zone

18: Prior to this explanation, were you familiar with these different types of lighting controls?

A	Basic Controls	Y/N
B	Stand-alone Sensor Controls	Y/N
C	Advanced Lighting Controls	Y/N

19: Which of the following lighting controls do you have installed at your facility?

A	Basic Controls	Y/N
B	Stand-alone Sensor Controls	Y/N
C	Advanced Lighting Controls	Y/N

[Ask Q20 through Q23 if Q19.C. = "N"]

20. As part of replacing your lamps with LEDs have you considered installing advanced lighting controls like networked lighting controls (NLC) or luminaire-level lighting controls (LLLC)?

01. Yes
02. No
99. Don't Know
100. Not applicable

21: Did a lighting vendor offer NLC or LLLC lighting controls as part of installing LED lamps?

01. Yes
02. No
99. Don't Know
100. Not applicable

22: Did the economics of advanced lighting controls (*simple payback, ROI*) factor into your rejection of having advanced lighting controls installed?

01. Yes
02. No
99. Don't Know
100. Not applicable

23: Would you consider having advanced lighting controls installed in the future?

01. Yes
02. No
99. Don't Know

[Ask Q24 through Q25 if Q19.C. = "Y"]

24. Were economics part of your decision to install advanced lighting controls?

01. Yes
02. No
99. Don't Know

25. How satisfied are you with your advanced lighting controls?

01. Extremely satisfied
02. Very satisfied
03. Somewhat satisfied
04. Slightly satisfied
05. Not satisfied at all
99. Don't Know

Closing

26. Please leave any additional comments you may have here:
_____ [text box]

APPENDIX C. Market Actor Interview Guide

This interview guide is organized in several sections:

A. Introduction
B. Market Actor Background Information
C. LED lighting market sales share and penetration
D. Marketplace considerations for future LED lighting opportunities
E. Closing

A. Introduction

Thank you for taking time to speak with us today. We are working with Ameren Missouri to understand the status of LED lighting technology in the Ameren Missouri service territory. Our main focus is to get your perceptions on the current share of LEDs installed in nonresidential facilities and the current market sales share of LED technologies compared to traditional lighting technologies. The results of the research will help AmerenMO adjust their energy efficiency programs to reflect these market conditions.

We welcome any insight and suggestions you may have that can help inform AmerenMO on the status of LEDs in their service territory. While we have a batch of questions to ask, this is meant to be a discussion.

Do you have any questions before we start?

B. Background

I'd like to start with a few questions about your role at [Company] and how [Company] serves the nonresidential marketplace with lighting technologies or services.

0. What area do you serve?
1. What is your current role at [Company]?

We sell commercial / industrial electrical.

2. Does your company provide lighting installation services?
3. What lighting technologies or services does your company offer its customers?
4. How do you go about making sales of these technologies or services?
5. Are there any particular segments/types of organizations within the commercial and industrial sector you focus on or see most of your sales coming from? For example, do you focus on schools, industrial, hospitals, etc.?

C. LED Market Sales Share and Penetration

We're interested in understanding the relative share of lighting technologies sales that are LEDs compared to other types of traditional lighting.

Note: General Service Lighting (a.k.a. screw-in lamps) are not part of energy efficiency programs. Only ask about linear and HID lighting.

1. In thinking about your markets for lighting, I'd like to focus first on traditional linear lighting technologies. Within linear lighting categories, what would you estimate your sales share in 2023 and 2024 are (%) of the following:

_____ T-12 lamps or fixtures

_____ T-8 lamps or fixtures

_____ T-5 lamps or fixtures

_____ LED lamps or fixtures (that would replace T-12, T-8, or T-5

_____ Other types of linear lighting [If mentioned, ask for description]

Let's pivot over the HID lighting – these would sodium lamps, mercury vapor, metal halide, and similar technologies.

For HID lighting, please give us your best estimate of your sales share in 2023 and 2024 (%) of the following:

_____ Sodium vapor lamps

_____ Mercury vapor lamps

_____ Metal halide lamps now do bypass

_____LED lamps or fixtures that would replace other HID lighting

_____ Other types of HID lighting technologies [If mentioned, ask for description]

2. Thank you. The current sales share is a snapshot of where the market is at a point in time. Thinking back over the last 3 to 5 years, have you seen changes in the relative share of sales to nonresidential customers that are going to LEDs compared to traditional lighting technologies? What have you seen?

3. In what you've seen in the market for LED lighting, are there particular customer types that you see dominating the purchase of LEDs? [Probe: Why do you think that is?]

4. Are there customer types that you think may be lagging in their adoption of LED lighting? [Probe: Why do you think that is?]

D. Marketplace Considerations for Future LED Lighting Opportunities

We'd like to pivot to talk about the future of energy efficient lighting.

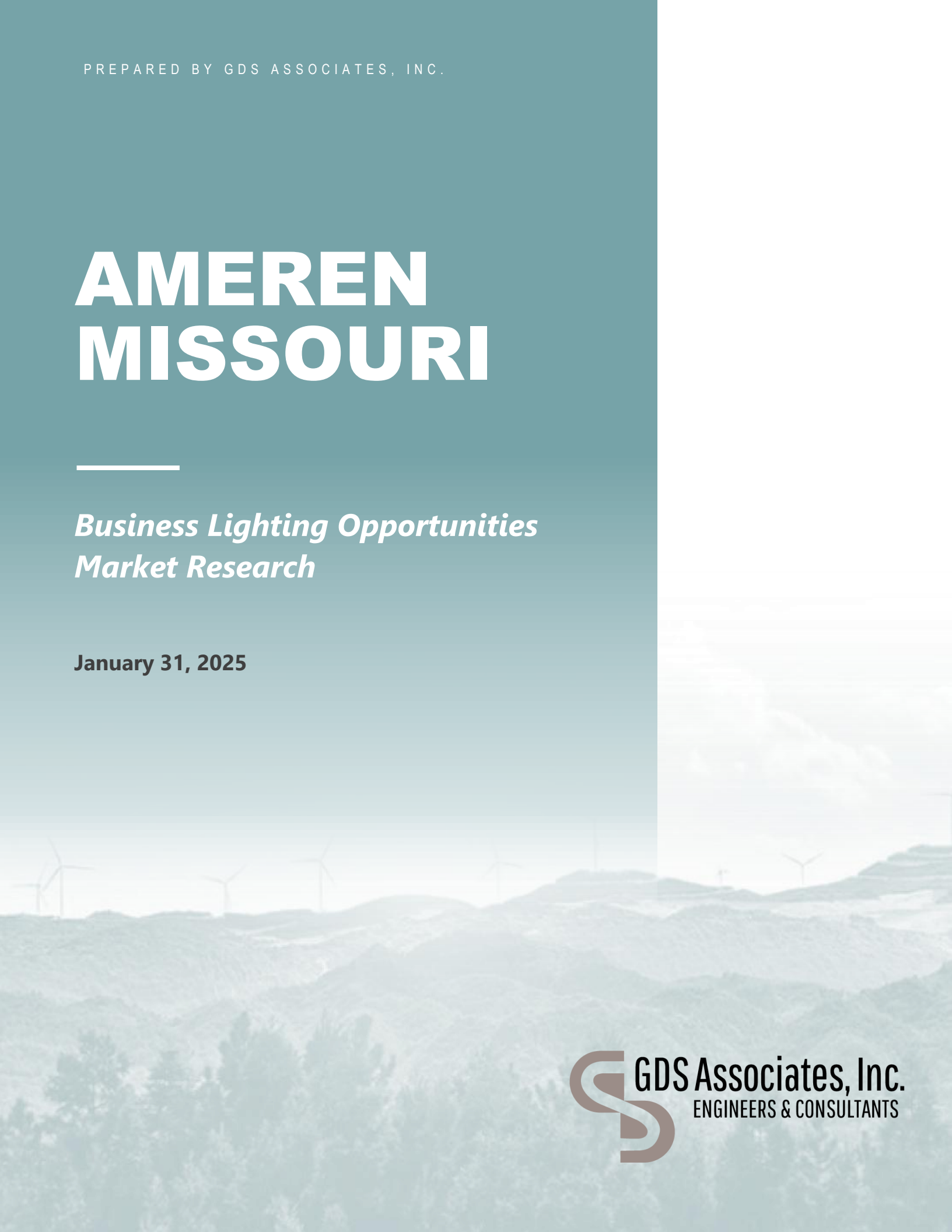
1. In your view, what has been the role and importance of Ameren Missouri's programs that promote and incentivize LED lighting technologies? [Probe: Expand on any particular application, technology or customer segments.]

PREPARED BY GDS ASSOCIATES, INC.

AMEREN MISSOURI

Business Lighting Opportunities Market Research

January 31, 2025



GDS Associates, Inc.
ENGINEERS & CONSULTANTS

APPENDIX B. 2026 MARKET RESEARCH REPORT

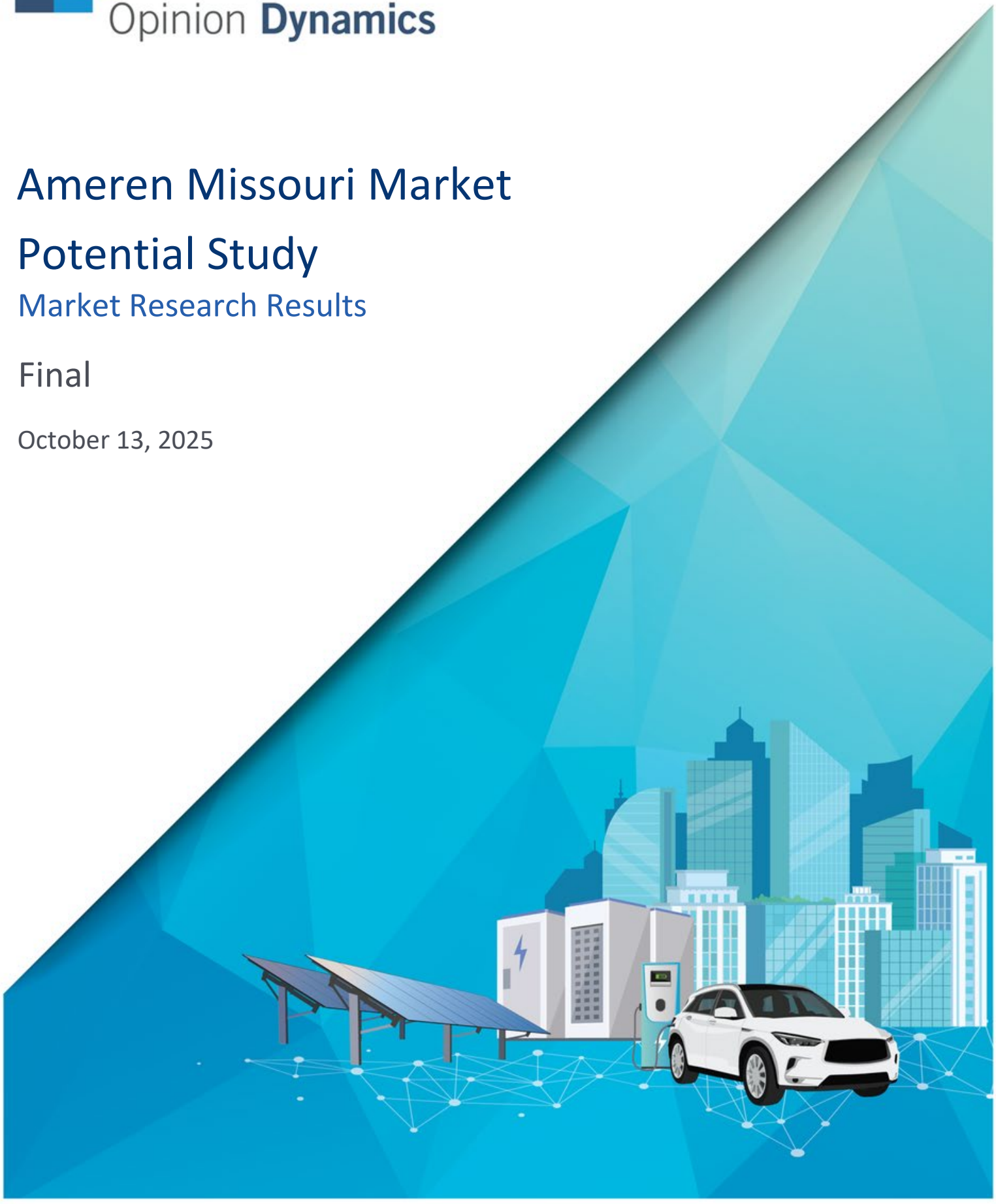
Opinion Dynamics

Ameren Missouri Market Potential Study

Market Research Results

Final

October 13, 2025



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1. Baseline Market Research Overview

This report summarizes the methodologies and key results for the baseline market research in support of Ameren Missouri's 2026 Market Potential Study. The objectives of this research were based on a gap analysis and subsequent prioritization of data needs conducted by GDS associates.[1] The research objectives were developed in coordination with Ameren Missouri and were refined based on feedback from regulatory stakeholders.[2] They include the assessment of the following:

- the penetration and saturation of key energy using equipment;
- characteristics of key equipment (e.g., level of efficiency, capacity) and building shell;
- site conditions related to distributed energy resources (DER);
- customer characteristics (i.e., demographics/firmographics), attitudes (e.g., awareness of/interest in energy efficiency and Ameren Missouri programs), and key customer behaviors (e.g., occupancy patterns); and
- customer willingness to adopt select enduses/measures and program offerings.

We addressed these research objectives through primary data collection with residential and business customers.

Primary Data Collection

In the residential sector, we conducted two primary data collection activities: (1) an online survey with residential customers, and (2) virtual on-site visits with residential customers. The residential customer research targeted homeowners and tenants in the following key segments: income-eligible and non-income-eligible customers, and customers occupying single family and multifamily homes. In Table 1, we present the total residential survey completes by housing type and income status.

Table 1. Residential Survey and Virtual On-Site Completes

Segment	Customer Survey Completes			Customer Virtual On-Site Visit Completes		
	Single Family	Multifamily	Total	Single Family	Multifamily	Total
Income-Eligible (80% AMI)	303	461	764	36	19	55
Non-Income-Eligible Customers	278	732	1,010	41	20	61
Total	**581**	**1,193**	**1,774**	**77**	**39**	**116**

Primary data collection in the business sector was limited to an online survey with business and multifamily customers. The business research covered two primary segments (small usage and medium/large usage) and within each primary segment, we further classified the sample within the following eight business segments: office/government, industrial, retail/entertainment, food sales/service, education, health, multifamily, and other. In Table 2, we present completes by primary segment and sector.

[1] GDS Associates is the prime contractor of this study, to which Opinion Dynamics is subcontracted.

[2] Opinion Dynamics presented the planned market research scope of work at an in-person stakeholder meeting on April 10, 2025 and finalized the scope following receipt of stakeholder comments.

Table 2. Business Survey Completes

Program	Survey Completes (Penetration and Saturation)			Survey Completes (Adoption Rates)		
	Small Business	Med/Large Business	Total	Small Business	Med/Large Business	Total
Retail/Entertainment	155	20	**175**	122	18	**140**
Office/Government	128	26	**154**	102	18	**120**
Industrial	48	36	**84**	40	32	**72**
Food Sales/ Service	48	20	**68**	33	15	**48**
Health	30	7	**37**	22	5	**27**
Education	9	16	**25**	6	11	**17**
Other	108	18	**126**	86	15	**101**
Multifamily	46	4	**50**	38	3	**41**
Total	**572**	**147**	**719**	**449**	**117**	**566**

Data Analysis

We developed penetration, saturation and adoption curve estimates for four residential segments: (1) single family income-eligible, (2) single family non-income-eligible, (3) multifamily income-eligible, and (4) multifamily non-income-eligible, for two business size categories: (1) small business and (2) medium/large business, and for eight business segments (1) office/government, (2) industrial, (3) retail/entertainment, (4) food sales/service, (5) education, (6) health, (7) multifamily, and (8) other.

Penetration and saturation concepts are defined as follows:

- **Penetration:** A percentage representing the proportion of customers that have one or more of a particular piece of equipment. It is calculated by dividing the number of customers with one or more of a piece of equipment by the total number of customers responding to that question. For example, non-income-eligible residential customers had a room air conditioner penetration rate of 13%, meaning that 13 out of every 100 non-income-eligible households have at least one room air conditioner in their home.
- **Saturation:** A number representing how many of a particular piece of equipment are present, on average, among all customers. It is calculated by dividing the total number of a particular piece of equipment by the total number of customers (*including* those who do not have the equipment). For example, the saturation rate of showerheads (water fixtures) in non-income-eligible customer homes was 1.84, meaning that on average each non-income-eligible home has 1.84 showerheads. Note that saturation is presented as an average per all homes in the stratum, as opposed to per all homes in the stratum with the equipment.

Residential single family and multifamily penetration and saturation data was collected in the residential online survey and adjusted, where necessary, by virtual on-site visit results. In some cases, which will be noted, penetration and saturation data is based directly on on-site visit data.

Business penetration and saturation data is based on online survey data only.

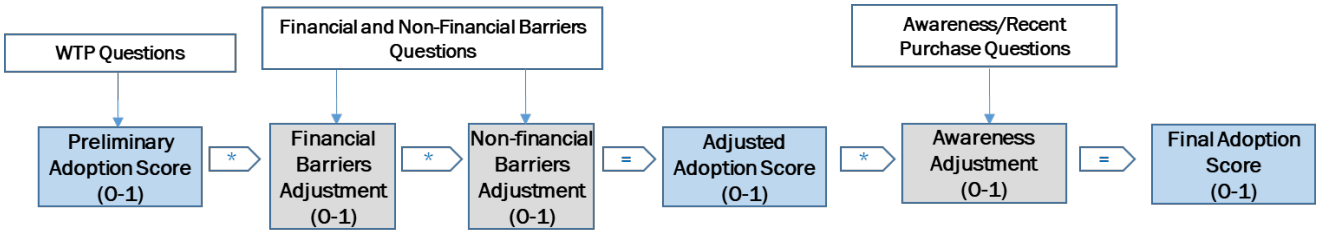
Penetration and saturation results are shown in Section 3.

Adoption rate calculations were based on a battery of questions which assessed (1) the respondent's willingness to adopt energy efficiency technologies or participate in demand response programs in scenarios with varying levels of

program support, (2) the magnitude of the respondent's financial and non-financial barriers to adoption/participation, and (3) their awareness of Ameren Missouri energy efficiency programs and/or high efficiency technologies. Adoption rates were calculated based on the equation shown in Figure 1.

Final adoption rates are shown in Section 4.

Figure 1. Adoption Curve Equation



Report Organization

The remainder of this report is organized as follows:

- **Section 2: Methodology** presents the methodology for the primary data collection efforts and for the development of penetration and saturation results and adoption curves.
- **Section 3: Summary of Key Penetration and Saturation Results** present high level penetration and saturation results for the residential and business sectors, by key segments.
- **Section 4: Summary of Adoption Curve Results** presents residential and business adoption curves, by key segments.
- **Appendix A: Survey Instruments and Residential Penetration and Saturation by Segment** presents all final survey instruments, as well as more detailed residential penetration and saturation results, by segment.

2. Methodology

Key baseline market research activities included extensive primary data collection, development of penetration and saturation estimates for key equipment, and development of adoption curves for key enduses. The following sections present details about each of these activities.

2.1 Primary Data Collection – Residential Sector

For the residential sector, we conducted two primary data collection activities:

- An online survey with residential customers
- Virtual on-site visits with residential customers

2.1.1 Residential Customer Research

The residential customer research targeted homeowners and tenants in the following key segments: income-eligible and non-income-eligible customers, and customers occupying single family and multifamily homes. Income-eligible was defined by household size and 80% of area median income. Residential baseline data was collected through a residential customer online survey and customer on-site visits. In total, we completed 1,774 online survey interviews and 116 virtual on-site visits.

Residential Customer Online Survey

The residential customer survey collected home characteristics, equipment penetration for key enduses – such as heating, cooling, water heating, water fixtures, insulation, smart power strips, thermostats, major appliances, solar PV systems, pool pumps, and electric vehicles – and information on barriers and willingness to adopt a range of energy efficient measures at varying incentive levels.

We invited customers to participate in the online survey through an email invitation. Outreach was conducted in three waves, with the first wave including 4,000 invitations in each segment, and the second and third waves tailored based on the response rates observed in the first wave. In total, we sent 30,835 survey invitations with a target of completing 1,400 interviews. We followed up with two reminder emails for those customers who did not respond to the survey. We offered residential customers a $25 Tango gift card for their participation in the online survey.

We stratified the sample into two primary segments (income-eligible and non-income-eligible), with a target to complete approximately 700 interviews in each segment. Within both segments, we further targeted 350 completes with both single family and multifamily customers (see Table 3).

Ameren Missouri's customer data does not contain information that would allow us to segment the population into the four study segments. We therefore developed flags that identified likely income-eligible and multifamily customers, as follows:

- **Income-eligible:** To target income-eligible households that are 80% below area median income (AMI), we used census data at the census tract level to select areas with over half of residents earning under $50,000 annually. These census tracts include customers at various income levels, but customers are more likely to be income-eligible households.

- **Multifamily:** We identified multifamily based on the existing housing type flag provided by Ameren, augmented by identifying duplicate addresses, homeowner names that are likely business names, and addresses with unit or apartment numbers, which suggests that there may be multiple units within a building.

Overall, 1,774 residential customers completed the survey, with a response rate of 6.3%. We exceeded the survey target of 700 for both housing type segments. Table 3 summarizes survey targets and survey completes, by segment.

Table 3. Survey Quota Targets and Completes

	Survey Targets			Survey Completes		
	Single Family	Multifamily	Total	Single Family	Multifamily	Total
Income-Eligible Customers (80% AMI)	350	350	**700**	459	476	**935**
Non-Income-Eligible Customers	350	350	**700**	481	358	**839**
Total	**700**	**700**	**1,400**	**940**	**834**	**1,774**

Residential Virtual On-site Visits

The residential virtual on-site visits collected detailed information on building characteristics as well as the penetration, saturation, and characteristics of key energy using equipment (including heating, cooling, and water heating equipment; insulation; refrigeration equipment, cooking equipment; clothes washers; smart strips; pool pumps; solar PV systems; electric vehicles, windows and doors).

We developed the sample of on-site visits from the respondents to the residential online survey (a nested sampling approach). We recruited customers within the online survey to participate in the virtual on-site visits.

The target number of completed virtual on-site visits was 140. We came close to reaching our target of 70 visits with income-eligible customers and 70 visits with non-income-eligible customers. We also came close to achieving representative samples of single family and multifamily homes (see Table 4).

Table 4. On-Site Visit Targets and Completes

	On-Site Visit Targets			On-Site Visit Completes		
	Single Family	Multifamily	Total	Single Family	Multifamily	Total
Income-Eligible Customers (80% AMI)	45	25	**70**	36	19	**55**
Non-Income-Eligible Customers	45	25	**70**	41	20	**61**
Total	**90**	**50**	**140**	**77**	**39**	**116**

Residential Population

At the beginning of the survey, respondents were asked to confirm or revise their initial housing and income segment assignments. Once the survey was completed, we compared initial segments to self-reported segments and developed population adjustment factors to reach a more precise classification in the original population (Table 5).

Table 5. Ameren Missouri Residential Population Estimates

Column	Single Family	Multifamily	Total
Income-Eligible Customers (80% AMI)	282,586	81,308	363,893
Non-Income-Eligible Customers	588,474	71,540	660,015
Total	**871,060**	**152,848**	**1,023,908**

2.2 Primary Data Collection – Business Sector

Primary data collection in the business sector was limited to an online survey with business customers. The survey collected business and facility characteristics, as well as equipment penetrations for key enduses, such as heating, cooling, water heating, refrigeration, thermostats, and on-site generation (including solar PV systems).[3] The business online survey also collected information on barriers to energy efficiency and willingness-to-adopt energy efficient measures under various incentive offerings.

We stratified the survey sample into two primary segments (small usage and medium/large usage) and within each primary segment, we further classified the sample within the following eight business segments: office/government, industrial, retail/entertainment, food sales/service, education, health, multifamily, and other.

Our sampling unit was the business-premise, which is defined as a unique business or organization at a unique location. We developed the study-eligible population of business-premises in Ameren Missouri's service territory using two steps:

- We identified and consolidated accounts with either the same name and address, or with similar names and addresses, using "fuzzy text matching" algorithms and geocoding.
- We identified and excluded accounts that were out of scope for this study (e.g., communication towers, cable boxes, municipal/street lighting, or residential premises) or had missing or very low (i.e., less than 200 kWh a year) usage. Excluded accounts represented 29% of all business accounts and 17% of annualized usage.[4]

We then segmented the population into the survey strata, i.e., business segment and usage category, as follows:

- **Business segment** assignments were primarily driven by the four-digit Standard Industry Classification (SIC) code provided in the Ameren Missouri customer data (available for 77% of business-premises). Where SIC codes were missing or inconclusive, we relied on a word-association algorithm to assign each business-premise a predicted probability of belonging to each segment, based on the known segments of other business-premises. In cases where this probability reached a critical threshold, we assigned a likely initial segment to the business premise (21% of business premises). Overall, we made a business segment assignment for 77% of business-premises. For the remaining 23%, we were unable to assign a segment.
- **Usage category** was assigned based on the following criteria:

[3] Notably lighting is not covered by the business sector research because Ameren has recently completed a lighting-specific study from which contemporary lighting market data can be drawn.

[4] Some large electric customers may elect to "opt-out" and not participate in Ameren Missouri's energy efficiency programs. The 2019 Ameren Missouri Market Potential Study market research excluded such opt-out customers entirely. In the current study, opt-out customers were included in the sample. While opt-out customers were still *excluded* from the penetration and saturation calculations, they were included in the adoption rate calculations.

- Small Business: Defined as all business-premises that (1) have at least one account which is served under a 2M rate class and (2) have no accounts currently served under a 4M or 11M rate class OR (3) have annual energy usage over 1,000,000 kWh per year.
- Medium/Large Business: All business-premises not categorized as a small business.

One key piece of information collected in the business online survey is business segment. At the beginning of the survey respondents with a segment assignment were asked to confirm their initial segment assignments or provide a revised segment, while survey respondents without a segment assignment were asked to report their business segment. Once the survey was completed, we compared initial segments to self-reported segments and developed population adjustment factors to correct for likely misclassification in the original population.

Table 6 below provides the summary of the final (adjusted) business-premise counts, by business segment and usage category.

Table 6. Business Final Population Summary

Segment	Business-Premises		
	Small Business	Med/Large Business	Total
Office/Government	23,990	1,613	**25,603**
Retail/Entertainment	13,300	1,407	**14,707**
Industrial	8,484	1,690	**10,174**
Food Sales/ Service	4,576	1,323	**5,899**
Health	2,770	609	**3,379**
Education	2,032	1,124	**3,156**
Other	27,730	1,407	**29,137**
Multifamily	10,419	112	**10,531**
Total	**93,301**	**9,285**	**102,586**

Note: Includes a small number of opt-out customers (748)

We invited customers to participate in the online survey through an email invitation (if an email address was available) or, subsequently, through a letter invitation mailed to their facility.[5] We invited 24,114 businesses to respond to the survey (including 18,443 emails and 7,696 letters, with 2,025 businesses receiving both) with a target of completing 1,000 surveys (see Table 7). We followed up the letter outreach with reminder postcards. To encourage survey completion, we entered all respondents who completed the survey into a drawing for one of one hundred $100 incentives.

Table 7. Survey Quota Targets

Business Segment	Small Business	Medium/Large Business	Total
Office/Government	70	80	150
Retail/Entertainment	70	50	120
Industrial	70	80	150
Food Sales/Service	70	50	120
Health	50	35	85

[5] We intended to rely on email outreach only, however, we received a limited number of survey completions from the medium/large segment in response to email outreach. In consultation with Ameren, we then supplemented email outreach with a direct mail letter and postcard to the medium/large segment customers to address the shortfall. While we still fell short of the target number of medium/large completions, we achieved a higher enough response rate to produce statistically valid results (see Section 2.3.1).

Business Segment	Small Business	Medium/Large Business	Total
Education	50	35	85
Other	70	80	150
Multifamily	105	35	140
Total	**555**	**445**	**1,000**

In total, 566 business customers completed the online survey, for a response rate of 2.3%. In addition, 153 customers responded to all penetration and saturation questions but dropped out of the survey prior to the adoption questions. As a result, our analysis included a total of 719 responses for the penetration and saturation calculations, but only 566 responses for the adoption calculations (see Table 8).

Table 8. Business Survey Completes

Segment	Survey Completes (Penetration and Saturation)			Survey Completes (Adoption Rates)		
	Small Business	Med/Large Business	Total	Small Business	Med/Large Business	Total
Office/Government	128	26	**154**	102	18	**120**
Retail/Entertainment	155	20	**175**	122	18	**140**
Industrial	48	36	**84**	40	32	**72**
Food Sales/ Service	48	20	**68**	33	15	**48**
Health	30	7	**37**	22	5	**27**
Education	9	16	**25**	6	11	**17**
Other	108	18	**126**	86	15	**101**
Multifamily	46	4	**50**	38	3	**41**
Total	**572**	**147**	**719**	**449**	**117**	**566**

2.3 Penetration and Saturation Methodology

Penetration and saturation results presented in Section 3 are based on the data collected in the primary data collection efforts described above. Penetration and saturation concepts are defined as follows:

- **Penetration:** A percentage representing the proportion of customers that have one or more of a particular piece of equipment. It is calculated by dividing the number of customers with one or more of a piece of equipment by the total number of customers responding to that question. For example, non-income-eligible residential customers had a room air conditioner penetration rate of 13%, meaning that 13 out of every 100 non-income-eligible households have at least one room air conditioner in their home.
- **Saturation:** A number representing how many of a particular piece of equipment are present, on average, among all customers. It is calculated by dividing the total number of a particular piece of equipment by the total number of customers (*including* those who do not have the equipment). For example, the saturation rate of showerheads (water fixtures) in non-income-eligible customer homes was 1.84, meaning that on average each non-income-eligible home has 1.84 showerheads. Note that saturation is presented as an average per all homes in the stratum, as opposed to per all homes in the stratum with the equipment.

Residential single family and multifamily penetration and saturation data was collected in the residential online survey and adjusted, where necessary, by on-site visit results. In some cases, which will be noted, penetration and saturation data is based directly on on-site visit data.

Business penetration and saturation data is based on online survey data only.

2.3.1 Sampling Precision

The sampling precision target for this study was the industry-standard 90% confidence at 10% relative precision (often referred to as "90/10") for key equipment types. However, precision estimates for individual baseline study results generally vary widely because the two drivers of precision (the number of observations and the variance in responses) can vary dramatically from question to question. While the penetration estimates for most major equipment types (i.e., the share of all homes or businesses with that equipment) can typically meet the 90/10 precision threshold, saturation estimates and equipment characteristics often do not, especially if the equipment is rare (e.g., chillers) or the number of widgets varies widely from business to business or home to home (e.g., the number of water fixtures). As such, it is impossible to report a single precision level for an entire survey (or other research effort). Instead, the detailed data tables generated for this study include the standard error for all estimates of penetration, saturation, and equipment characteristics.

2.4 Adoption Curve Methodology

As a part of the 2026 baseline market research, we developed adoption curves for major enduses and segments within the residential and business sectors.

2.4.1 Residential Adoption Curve Methodology

We developed estimates for four residential segments: (1) single family income-eligible, (2) single family non-income-eligible, (3) multifamily income-eligible, and (4) multifamily non-income-eligible.

Results are based on responses to the online residential customer survey.

Measures Covered by Primary Research

We developed adoption curves for the energy efficiency measures and demand response (DR) programs shown in Table 9.

Table 9. Measures/Programs Included in Primary Research

Measures/program	Applicability
EE Equipment	

Measures/program	Applicability
Heating/CAC system (Non-heat pump)	Homeowners without electric furnaces or boilers
HVAC heat pumps	Homeowners with electric furnaces or boilers
HP water heater	Homeowners with electric water heaters
Major appliances	Owners and decision-makers
Insulation	Homeowners
DR Programs	
Central AC control	Residential customers who are homeowners and have central air conditioning
Water heater control	Residential customers who are homeowners and have electric water heaters
Winter heating control	Residential customers who are homeowners and have electric heaters
Time-of-use rates	Residential customers who are individually billed
Electric vehicle charging control	Residents who own electric vehicles

Adoption Curve Inputs

Adoption curves are based on three types of survey questions: (1) willingness-to-participate (WTP) at different incentive levels, (2) barriers to adopting energy efficient equipment, and (3) awareness of Ameren Missouri programs.

Willingness-to-Participate

Direct WTP questions are the starting point of measure/program-specific adoption curve calculations. WTP questions focus on potential financial barriers to measure adoption/program participation. For each item, we asked respondents to rate the likelihood that they would purchase the energy efficient version of the equipment, or participate in the DR program, at various incentive levels, including no incentive and an incentive that covers the full incremental (or total) cost.

The scales for the WTP questions were five-point labeled scales. Table 10 shows the response options and the likelihood factor associated with each option. This likelihood factor represents the Preliminary Adoption Score for each survey respondent.

Table 10. Residential WTP Response Options and Scoring

Response Option	Preliminary Adoption Score
1 – Not at all likely	0.00
2 – Slightly likely	0.25
3 – Somewhat Likely	0.50
4 – Moderately likely	0.75
5 – Extremely likely	1.00

Barriers to Adoption

The survey presented respondents with common measure/program-specific financial and non-financial barriers to measure adoption/program participation and asked them to rate these barriers on a five-point labeled scale, where 1 means "Not a barrier," 2 means "Slight barrier," 3 means "Somewhat of a barrier," 4 means "Moderate barrier," and 5 means "Extreme barrier."

Responses to financial and non-financial barrier questions were used to make adjustments to the Preliminary Adoption Score, if (1) the respondent identified at least one significant barrier (defined as a barrier that was given a response of 4 for a "Moderate barrier" or 5 for an "Extreme barrier") and (2) their likelihood response to the WTP question for adoption without an incentive was greater than a 2 (i.e., more than "slightly likely"). Both financial and non-financial barrier adjustments were made on a stepwise scale because the barrier to choosing the efficient option is lessened as more of the incremental cost is covered.

Table 11 summarizes the financial and non-financial barrier adjustment factors at the different incentive levels covered in the survey. Since these adjustment factors are multiplied by the Preliminary Adoption Score, a lower factor means a greater adjustment. The adjustments for significant financial barriers are greater than for non-financial barriers because there is more of a contradiction between their WTP and barrier responses. For example, it would be a contradiction if a respondent indicated that a financial barrier was an "extreme barrier" to the adoption of the energy efficient option but then also said that they would adopt the energy efficient option without an incentive. We apply financial and non-financial barrier adjustments to the Preliminary Adoption Score results in the Adjusted Adoption Score.

Table 11. Residential Barrier Adjustments

Incentive Level	Financial Barrier Factor	Non-Financial Barrier Factor
0%	0.0	0.5
25%	0.2	0.6
50%	0.4	0.7
75%	0.6	0.8
100%	0.8	0.9

Awareness of Ameren Missouri Programs

A final barrier to program participation is awareness of Ameren Missouri's programs and the available incentives. Once aware of the programs, customers might have no barriers to participation, but they can only participate if they know that programs and incentives exist. The Adjusted Adoption Score represents the likely action of customers, once they know about the program/incentives. To reflect that some customers who might otherwise participate will not be aware of the program, the survey included two types of questions: (1) current awareness of Ameren Missouri programs/incentives and (2) whether the respondent is a "recent market participant," defined as having purchased/installed a similar measure in the past three years.

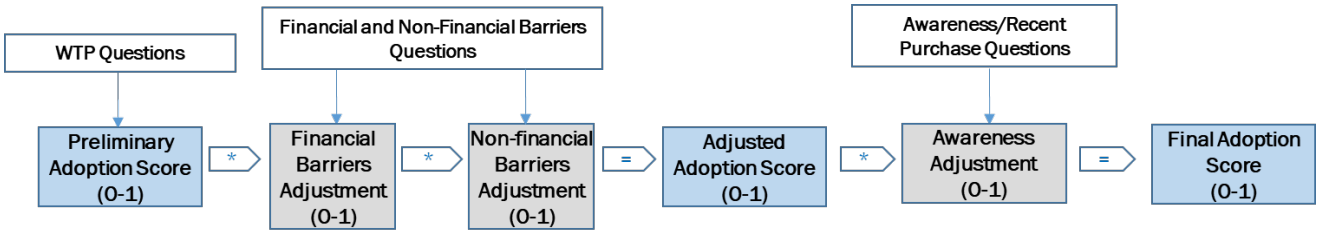
We developed an overall measure-specific awareness adjustment factor for each measure/program. This factor represents the percentage of recent market participants that are aware of Ameren Missouri programs/incentives. The awareness adjustment is based on recent market participants, rather than all survey respondents, because some customers who are not currently aware of the programs are likely to become aware of them, once they are in the market for a certain piece of equipment. For example, somebody may not know about the programs/incentives at the time of the survey, but once their HVAC system breaks, they might find out from their contractor that program incentives

are available. As such, awareness of recent market participants better reflects the likely level of awareness at the time of decision-making around the installation of energy efficient equipment and program participation.

Application of the awareness adjustment factor to the Adjusted Adoption Score results in the Final Adoption Score.

The graphic (Figure 1) below illustrates how the different types of survey responses are combined to develop residential adoption curves.

Figure 2. Residential Adoption Curve Equation



Aggregation Across Respondents

For each measure/program, we calculated overall self-reported adoption percentages as the average of all respondents' Final Adoption Scores, by segment (if sample sizes allowed). While this report presents the detailed findings by segment, we also developed aggregated adoption curves, separately for income-eligible and non-income-eligible, and for single family and multifamily. When calculating aggregated results, we applied sample weights to adjust for oversampling of multifamily and income-eligible customers.

2.4.2 Business Adoption Curve Methodology

We developed adoption curve estimates for two business segments: (1) small business and (2) medium/large business. Business adoption curves are based on responses to the online customer survey.

Measures/Programs Covered by Primary Research

We developed adoption curves for the energy efficiency enduses and DR programs shown in Table 12.

Table 12. Business Measures/Programs Included in Primary Research

Measures/program	Applicability
EE Equipment	
HVAC measures Water heating measures Refrigeration measures	Business customers who have the enduse/measure and have decision-making authority over the enduse/measure
DR Programs	
All DR Programs	Customers who occupy the sampled facility (i.e., excludes property managers)
Custom DR program	Medium/large business with at least 100 kW peak demand
Central AC control	Small business customers who have CAC
Water heater control	Small business customers who have electric water heaters

Measures/program	Applicability
Time-of-use rates	All business customers

Adoption Curve Inputs

Similar to residential adoption curves, business adoption curves are based on three types of survey questions: (1) WTP at different payback periods, (2) barriers to adopting energy efficient equipment, and (3) awareness of Ameren Missouri programs. While adoption rates for all business enduses/programs rely on these three factors, there are slight differences in how adoption rates are calculated for energy efficiency enduses and for DR programs. These differences are noted below.

Willingness-to-Participate

Direct WTP questions are the starting point of enduse/program-specific adoption curve calculations. WTP questions focus on potential financial barriers to energy efficiency for major and minor energy-related investments without specifying a particular measure or enduse. Separately for major and minor investments, we asked respondents to rate the likelihood they would replace failed equipment with an energy efficient model under a range of different payback period assumptions. The range of different payback periods reflects different incentive levels from Ameren Missouri, which reduce the initial investment by different amounts, holding all else constant. For DR programs, the WTP questions assessed participation at various incentive levels, including no incentive.

The scales for the WTP questions are five-point labeled scales. Table 13 shows the response options and the likelihood factor associated with each option. This likelihood factor represents the Preliminary Adoption Score for each survey respondent.

Table 13. Business WTP Response Options and Scoring

Response Option	Preliminary Adoption Score
1 – Not at all likely	0.00
2 – Slightly likely	0.25
3 – Somewhat Likely	0.50
4 – Moderately likely	0.75
5 – Extremely likely	1.00

Barriers to Adoption

The survey presented respondents with enduse/program-specific financial and non-financial barriers to measure adoption/program participation and asked them to rate these barriers on a five-point labeled scale, where 1 means " Not a barrier," 2 means "Slight barrier," 3 means "Somewhat of a barrier," 4 means "Moderate barrier," and 5 means "Extreme barrier."

For **energy efficiency measures**, responses to financial and non-financial barrier questions were used to calibrate a respondent's Preliminary Adoption Scores to a particular enduse.

For the Financial Barriers Adjustment, we relied on enduse calibration factors that represent the relative financial barrier of an enduse compared to the financial barriers across all enduses. For each enduse, this factor was calculated as the average (across all respondents) of the highest financial barrier given for the enduse divided by average (across all respondents) of the highest financial barrier given for all enduses. We developed separate factors for major and

minor purchases and by business size (see Table 14). The Financial Barriers Adjustment recognizes that the financial barriers customers face for a given enduse could be higher or lower than average. This calibration is necessary because the Preliminary Adoption Score is not enduse specific, and only differentiates between major and minor purchases.

Table 14. Business Energy Efficiency Financial Barrier Adjustments

Usage Category	End Use	Major Purchases	Minor Purchases
Small Usage	HVAC	0.9900	0.9900
	Refrigeration	0.8555	0.8555
	Water Heating	1.1033	1.1033
Medium/Large Usage	HVAC	0.9859	0.9859
	Refrigeration	0.9901	0.9901
	Water Heating	1.0268	1.0268

The non-financial barrier questions were used to develop an additional adjustment factor, if the respondent identified at least one significant non-financial barrier (defined as a barrier that was given a response of 4 for a "Moderate barrier" or 5 for an "Extreme barrier"). The non-financial barrier adjustment was made on a stepwise scale because the barrier to choosing the efficient option is lessened as more of the incremental cost is covered (see Table 15).

Table 15. Business Energy Efficiency Non-Financial Barrier Adjustments

Payback Period	Non-Financial Barrier Factor
10 years	0.5
5 years	0.6
3 years	0.7
1 year	0.8
0 years	0.9

Applying financial and non-financial barrier adjustments to the Preliminary Adoption Score results in the Adjusted Adoption Score.

For DR programs, the use of financial and non-financial barrier questions in the adoption algorithm was similar to the residential methodology: We made adjustments to the Preliminary Adoption Score if (1) the respondent identified at least one significant barrier (defined as a barrier that was given a response of 4 for a "Moderate barrier" or 5 for an "Extreme barrier") and (2) their likelihood response to the WTP question for adoption without an incentive was greater than a 2 (i.e., more than "slightly likely"). Both financial and non-financial barrier adjustments were made on a stepwise scale because the barrier to choosing the efficient option is lessened as more of the incremental cost is covered.

Table 16 summarizes the financial and non-financial barrier adjustment factors at the different incentive levels covered in the survey, by program. Since these adjustment factors are multiplied by the Preliminary Adoption Score, a lower factor means a greater adjustment. The adjustments for significant financial barriers are greater than for non-financial barriers because there is more of a contradiction between their response and barriers. Applying financial and non-financial barrier adjustments to the Preliminary Adoption Score results in the Adjusted Adoption Score.

Table 16. Business DR Barrier Adjustments

Incentive Level (by Program)			Adjustment	
Custom DR	Time of Use Rates	CAC/DHW DR	Financial Barrier Factor	Non-Financial Barrier Factor
-	-	$0	0.0	0.5
$0	3% lower than current rates	$15	0.2	0.6
$25 per kW	4% lower than current rates	$25	0.4	0.7
$50 per kW	6% lower than current rates	$35	0.6	0.8
$100 per kW	8% lower than current rates	$50	0.8	0.9

Awareness of Ameren Missouri Programs

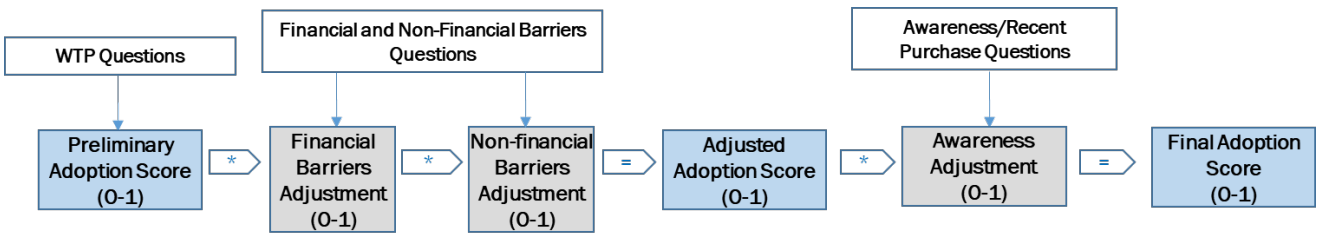
A final barrier to program participation is awareness of Ameren Missouri's programs and the available incentives. Once aware of the programs, customers might have no barriers to participation, but they can only participate if they know that programs and incentives exist. The Adjusted Adoption Score represents the likely action of customers, once they know about the program/incentives. To reflect that some customers who might otherwise participate will not be aware of the program, the survey included two types of questions: (1) current awareness of Ameren Missouri programs/incentives and (2) whether the respondent is a "recent market participant," defined as having purchased/installed a similar measure in the past three years.

We developed an overall measure-specific awareness adjustment factor for each measure/program. This factor represents the percentage of recent market participants that are aware of Ameren Missouri programs/incentives. The awareness adjustment is based on recent market participants, rather than all survey respondents, because some customers who are not currently aware of the programs are likely to become aware of them, once they are in the market for a certain piece of equipment. For example, somebody may not know about the programs/incentives at the time of the survey, but once their HVAC system breaks, they might find out from their contractor that program incentives are available. As such, awareness of recent market participants better reflects the likely level of awareness at the time of decision-making around the installation of energy efficient equipment and program participation.

Application of the awareness adjustment factor to the Adjusted Adoption Score results in the Final Adoption Score.

The graphic below (Figure 3) illustrates how the different types of survey responses are combined to develop business adoption curves.

Figure 3. Business Adoption Curve Equation



Aggregation Across Respondents

For each enduse/program, we calculated overall self-reported adoption percentages as the average of all respondents' Final Adoption Score, by usage category. We applied sample weights to adjust for oversampling of some business segments.

3. Summary of Key Penetration and Saturation Results

3.1 Residential Penetration and Saturation Results

Table 17 presents weighted and onsite-adjusted penetration and saturation results for income-eligible and non-income-eligible customers. The full results by the more granular segments – i.e., income-eligible single family (LI-SF), income-eligible multifamily (LI-MF), non-income-eligible single family (NLI-SF), and non-income-eligible multifamily (NLI-MF) – are presented in Appendix A.

Table 17. Residential Penetration and Saturation Results by Income-Eligible and Non-Income-Eligible

Enduse/Equipment	Penetration		Saturation	
	Income-Eligible	Non-Income-Eligible	Income-Eligible	Non-Income-Eligible
Heating				
Has Dedicated Heating	91%	95%	–	–
Has Shared Heating	9%	5%	–	–
Primary Heating Fuel – Electricity	46%	35%	–	–
Primary Heating Fuel – Fuel Oil	<1%	<1%	–	–
Primary Heating Fuel – Natural Gas	51%	62%	–	–
Primary Heating Fuel – Propane	2%	2%	–	–
Primary Heating Fuel – Other	1%	<1%	–	–
Dedicated Furnace	78%	86%	–	–
Dedicated Boiler	3%	3%	–	–
Dedicated Heat Pump	10%	11%	–	–
Dedicated Ductless Heat Pump	2%	3%	–	–
Dedicated Electric Baseboard	4%	2%	–	–
Dedicated Portable Electric Heater	18%	17%	–	–
Dedicated Other	<1%	1%	–	–
Cooling				
Has Central AC	88%	97%	0.86	1.17
Has Dedicated AC	82%	93%	0.86	0.99
Has Room AC	19%	13%	0.55	0.12
Water Heating				
Has Dedicated Water Heating	90%	95%	–	–
Has Shared Water Heating	10%	5%	–	–
Dedicated Water Heater Fuel Type – Electric	40%	33%	–	–
Dedicated Water Heater Fuel Type – Fuel Oil	<1%	<1%	–	–
Dedicated Water Heater Fuel Type – Natural Gas	50%	60%	–	–

Enduse/Equipment	Penetration		Saturation	
	Income-Eligible	Non-Income-Eligible	Income-Eligible	Non-Income-Eligible
Dedicated Water Heater Fuel Type – Propane	<1%	1%	–	–
Dedicated Water Heater Fuel Type – Other	<1%	<1%	–	–
Dedicated Type of Water Heater – Conventional Storage Tank	87%	90%	–	–
Dedicated Type of Water Heater – Heat Pump Water Heater	1%	2%	–	–
Dedicated Type of Water Heater – Indirect/Combination System	1%	<1%	–	–
Dedicated Type of Water Heater – Tankless Water Heater	1%	3%	–	–
Dedicated Type of Water Heater – Other	<1%	<1%	–	–
Major Appliances				
Has Refrigerator	100%	100%	1.26	1.47
Primary Refrigerator Has Through Door Ice Maker	20%	42%	–	–
Primary Refrigerator Type – Bottom Freezer Top Fridge	9%	27%	–	–
Primary Refrigerator Type – Side-By-Side Fridge/Freezer	15%	26%	–	–
Primary Refrigerator Type – Single Door Fridge	1%	1%	–	–
Primary Refrigerator Type – Small Fridge Less Than 3 Feet High	<1%	<1%	–	–
Primary Refrigerator Type – Top Freezer Bottom Fridge	76%	46%	–	–
Primary Refrigerator Type – Wine Cooler	<1%	<1%	–	–
Has Secondary Refrigerator	20%	36%	–	–
Has Tertiary Refrigerator	4%	9%	–	–
Has Freezer	34%	38%	0.37	0.42
Has Any Washer	81%	93%	0.86	0.94
Has a Dedicated Clothes Washer	75%	91%	–	–
Has Clothes Washer in Common Area	6%	3%	–	–
Has Range	92%	90%	–	–
Has Stove	12%	8%	–	–
Has Oven	8%	7%	–	–
Building Envelope				
Has Attic/Top Floor	85%	93%	–	–
Has Insulated Attic/Top Floor	81%	90%	–	–
Has Basement	64%	83%	–	–
Has Insulated Basement Walls	45%	62%	–	–

Enduse/Equipment	Penetration		Saturation	
	Income-Eligible	Non-Income-Eligible	Income-Eligible	Non-Income-Eligible
Has Insulated Basement Ceiling	45%	57%	–	–
Has Insulated Exterior Walls	88%	94%	–	–
Has Single-Pane Windows	31%	14%	–	–
Has Single-Pane with Storm Window	18%	8%	–	–
Has Double-Pane Windows	39%	62%	–	–
Has Double-Pane with Storm Windows	10%	14%	–	–
Has Triple-Pane Windows	2%	2%	–	–
Has Storm Door	64%	54%	–	–
Majority of Exterior Doors – Single-Pane Glass Door	6%	3%	–	–
Majority of Exterior Doors – Double-Pane Glass Door	7%	12%	–	–
Majority of Exterior Doors – Triple-Pane Glass Door	1%	2%	–	–
Majority of Exterior Doors – Hollow Core	17%	11%	–	–
Majority of Exterior Doors – Insulated Metal or Fiberglass	32%	38%	–	–
Majority of Exterior Doors – Solid Wood	38%	36%	–	–
Solar				
Homeowner Has Solar Panels	<1%	1%	–	–
Homeowner Has Battery Storage	<1%	2%	–	–
Electric Vehicles				
Owns an Electric Vehicle	<1%	7%	0.01	0.13
Home Has Charging Equipment	<1%	4%	–	–
Thermostats				
Has Thermostat	96%	99%	1.12	1.24
Manual	35%	20%	0.32	0.17
Programmable	68%	52%	0.66	0.57
Smart	27%	44%	0.14	0.49
Pool Pumps				
Has an Inground Pool	<1%	4%	0.01	0.05
Has a Pool Pump	<1%	4%	0.01	0.04
Smart Strips				
Has Smart Strip	61%	60%	1.53	1.61
Water Fixtures				
Has Showerhead	100%	100%	1.39	1.84
Has Faucet	100%	100%	2.94	3.85

3.2 Business Penetration Results

Table 18 presents weighted penetration results for all study-eligible business customers as well as by small and medium/large usage.

Table 18. Business Penetration and Saturation Results Overall and by Small and Medium/Large Businesses

Enduse/Equipment	Penetration		
	Overall	Small Business	Med/Large Business
Heating			
Has Heating	91%	91%	98%
Natural Gas	45%	42%	73%
Electricity	74%	74%	69%
Propane	8%	8%	5%
Fuel Oil	1%	1%	1%
Other	2%	2%	1%
Natural Gas – Primary	35%	34%	48%
Electricity – Primary	51%	51%	46%
Propane – Primary	4%	4%	2%
Fuel Oil – Primary	<1%	<1%	<1%
Other – Primary	1%	1%	2%
Primary - Electric resistance heaters	4%	3%	7%
Primary - Electric Furnace	27%	28%	14%
Primary - Electric Heat Pump	17%	17%	23%
Primary - Electric Unit Heater	3%	3%	2%
Primary - Fuel Oil Furnace	<1%	<1%	<1%
Primary - Natural Gas Boiler	1%	<1%	14%
Primary - Natural Gas Furnace	32%	31%	34%
Primary - Natural Gas Other Equipment	2%	2%	<1%
Primary - Other Fuel Boiler	<1%	<1%	2%
Primary - Other Fuel Furnace	1%	1%	<1%
Primary - Other Fuel Heat Pump	<1%	<1%	<1%
Primary – Other Fuel Other Equipment	<1%	<1%	<1%
Primary - Propane Furnace	3%	3%	2%
Primary - Propane Unit Heater	1%	1%	<1%
Cooling			
Has Air Conditioning	89%	88%	99%
Any AC Equipment	88%	87%	96%
Packaged System AC	39%	30%	90%
Split System AC	44%	43%	53%
Heat Pump with Ducts	14%	13%	18%
Heat Pump without Ducts	5%	4%	10%
Chiller	4%	2%	19%

Enduse/Equipment	Penetration		
	Overall	Small Business	Med/Large Business
Window or Wall AC	22%	23%	18%
Water Heating			
Has Water Heating Equipment	84%	84%	95%
Primary - Natural Gas	26%	19%	62%
Primary - Electricity	57%	62%	34%
Primary - Propane	2%	3%	<1%
Storage Water Heater with Dedicated Heater	74%	74%	84%
Indirect Storage Water Heater	2%	1%	8%
Tankless Water Heater	11%	11%	12%
Heat Pump Water Heater	2%	1%	3%
Refrigeration			
Has Commercial Refrigeration	16%	13%	47%
Refrigerated Non-Display Cases	12%	10%	36%
Refrigerated Display Cases	7%	6%	21%
Display Case Night Covers	1%	1%	3%
Commercial Refrigerated Walk-ins	8%	5%	35%
Walk-In Strip Curtains	2%	1%	10%
Thermostats			
Manual Thermostats	23%	23%	21%
Programable Thermostats	21%	21%	27%
Smart Thermostats	60%	58%	76%
On-Site Generation			
Any On-Site Generation	7%	6%	23%
Renewable Energy Generation	2%	1%	3%
Emergency/Backup Generation	6%	4%	23%
Cogeneration/CHP	<1%	<1%	<1%
Energy Storage	2%	2%	5%
Facility and Business Characteristics			
Own or Partially Own	57%	55%	73%
Lease/Rent	43%	45%	27%
Only Manage, Neither Lease nor Own	<1%	<1%	<1%
Occupy Facility (All)	67%	65%	87%
Occupy Facility (Partial)	20%	21%	8%
Do Not Occupy Facility (Manage Only)	13%	31%	5%
Electric Vehicles			
Has a Charging Station	3%	3%	4%
Building Management Systems			
Does Facility Have BMS	3%	1%	22%
Dedicated Person or Team Manage BMS	2%	1%	17%
SEM Practiced At Facility	3%	2%	13%

Enduse/Equipment	Penetration		
	Overall	Small Business	Med/Large Business
Facility Commissioned When Built	27%	26%	45%
Facility Recommissioned In Past 5 Years	15%	14%	23%
Compressed Air			
Facility uses Compressed Air	23%	22%	42%
Adjustable Speed Drives	4%	3%	11%
No Loss Condensate	3%	2%	13%
Efficient Air Nozzle	7%	7%	14%
Leak Detection and Repair	12%	11%	24%
Retro Commissioning	2%	2%	5%

4. Summary of Adoption Curve Results

4.1 Residential Adoption Curve Results

This section provides residential adoption curve results for the single family income-eligible (LI-SF) and non-income-eligible (NLI-SF) segments as well as for the multifamily income-eligible (LI-MF) and non-income-eligible (NLI-MF) segments. Adoption curves are based on three types of survey questions: (1) willingness-to-participate (WTP) at different incentive levels, (2) barriers to adopting energy-efficient equipment, and (3) awareness of Ameren Missouri programs. The Adjusted Adoption Score, calculated based on the WTP responses and barriers to adopting energy-efficient equipment, represents the likely action of customers once they know about the program/incentives. The Final Adoption Score, presented below, incorporates the awareness adjustment factor reduction, reflecting that customers can only choose to participate if they know that programs and incentives exist.

Refer to Section 2.4 for further details on the adoption curve methodology.

Table 19. Adoption Curve Results

Segment / End Use	Incentive Level				
	0%	25%	50%	75%	100%
Non-Income-Eligible SF					
HVAC	25%	39%	49%	59%	66%
Heat Pump	23%	36%	45%	54%	64%
Water Heating	7%	12%	17%	23%	30%
Appliances	22%	30%	39%	49%	58%
Insulation	14%	31%	45%	59%	72%
Income-Eligible SF					
HVAC	15%	22%	29%	36%	44%
Heat Pump	8%	18%	26%	35%	44%
Water Heating	6%	8%	12%	17%	22%
Appliances	12%	20%	26%	33%	42%
Insulation	7%	18%	26%	35%	50%
Non-Income-Eligible MF					
HVAC	21%	31%	42%	55%	61%
Heat Pump	9%	21%	30%	44%	57%
Water Heating	4%	7%	10%	15%	19%
Appliances	23%	32%	36%	41%	49%
Insulation	7%	13%	22%	34%	49%
Income-Eligible MF					
HVAC	10%	9%	23%	35%	33%
Heat Pump	9%	20%	29%	36%	40%
Water Heating	2%	3%	4%	5%	8%
Appliances	14%	20%	24%	31%	38%
Insulation	12%	16%	23%	28%	34%

Table 20. Demand Response Central AC Adoption Curve Results

Segment	Incentive Level				
	$0	Annual incentive of $20	Annual incentive of $30	Annual incentive of $45	Annual incentive of $60
NLI-SF	14%	17%	19%	24%	30%
LI-SF	12%	14%	16%	20%	25%
NLI-MF	15%	15%	18%	24%	29%
LI-MF	7%	9%	10%	13%	17%

Table 21. Demand Response Winter Heating Adoption Curve Results

Segment	Incentive Level				
	$0	Annual incentive of $20	Annual incentive of $30	Annual incentive of $45	Annual incentive of $60
NLI-SF	15%	17%	20%	24%	30%
LI-SF	13%	15%	17%	20%	26%
NLI-MF	17%	17%	21%	27%	30%
LI-MF	7%	7%	8%	11%	13%

Table 22. Demand Response Water Heating Adoption Curve Results

Segment	Incentive Level				
	$0	Annual incentive of $20	Annual incentive of $30	Annual incentive of $45	Annual incentive of $60
NLI-SF	7%	11%	14%	18%	25%
LI-SF	7%	9%	12%	15%	21%
NLI-MF	4%	9%	12%	15%	21%
LI-MF	5%	7%	8%	11%	14%

Table 23. Demand Response TOU Adoption Curve Results

Segment	Incentive Level			
	8 cents/kWh off-peak rate	6 cents/kWh off-peak rate	4 cents/kWh off-peak rate	3 cents/kWh off-peak rate
NLI-SF	20%	25%	29%	34%
LI-SF	16%	19%	23%	26%
NLI-MF	19%	22%	29%	33%
LI-MF	16%	19%	23%	26%

Table 24. Demand Response Electric Vehicle Adoption Curve Results

Program	Yes, I might participate in such a program	Maybe, I would want to learn more about the program before deciding	No, I would not participate in such a program
Rates program offering lower electric rates at non-peak (daytime) hours	65%	30%	5%
DLC program that allows Ameren to adjust charging rate or pause charging rate during period of congestion	57%	34%	10%

Note: Only asked of respondents with EVs

4.2 Business Adoption Curve Results

In this section we provide business adoption curve results by Small Business and Medium/Large Business.

Table 25. Business Energy Efficiency Adoption Curve Results

Segment / End Use	Payback period				
	10 Years	5 Years	3 Years	1 Year	0 Years
HVAC					
Major Investment					
Small Business	16%	19%	21%	23%	27%
Medium / Large Business	19%	22%	26%	28%	31%
Minor Investment					
Small Business	16%	20%	23%	28%	32%
Medium / Large Business	16%	19%	24%	27%	30%
Refrigeration					
Major Investment					
Small Business	12%	15%	15%	18%	22%
Medium / Large Business	18%	21%	24%	27%	30%
Minor Investment					
Small Business	12%	15%	18%	21%	25%
Medium / Large Business	17%	20%	23%	25%	30%
Water Heating					
Major Investment					
Small Business	20%	22%	24%	26%	28%
Medium / Large Business	22%	24%	27%	28%	31%
Minor Investment					
Small Business	20%	24%	26%	29%	33%
Medium / Large Business	18%	21%	25%	27%	30%

Table 26. Central AC DR Adoption Curve Results

Segment	Annual Incentive				
	$0	$15	$25	$35	$50
Small Business	7%	8%	9%	10%	12%
Medium / Large Business					

Table 27. Water Heating DR Adoption Curve Results

Segment	Annual Incentive				
	$0	$15	$25	$35	$50
Small Business	5%	7%	9%	10%	14%
Medium / Large Business					

Table 28. Custom DR Adoption Curve Results

Segment	Annual Incentive			
	$0	$25	$50	$100
Small Business				
Medium / Large Business	18%	37%	47%	57%

Table 29. Custom DR Season of Interest

Segment	Summer	Fall	Winter	Spring
Small Business				
Medium / Large Business	70%	52%	72%	49%

Table 30. Time of Use Adoption Curve Results

Segment	Off-Peak Rate			
	3% lower than current rates	4% lower than current rates	6% lower than current rates	8% lower than current rates
Small Business	8%	9%	12%	15%
Medium / Large Business	9%	10%	14%	17%

Appendix A.Survey Instruments & Full Residential Penetration and Saturation Results

Survey Instruments

Residential Web Survey



Ameren Missouri Baseline Study - Res

Residential On-Site Survey



Ameren Missouri Baseline Study - Res

Business Web Survey



Ameren Missouri Baseline Study - Bus

Residential Penetration and Saturation Results by Segment

Enduse/Equipment	Penetration				Saturation			
	LI-SF	LI-MF	NLI-SF	NLI-MF	LI-SF	LI-MF	NLI-SF	NLI-MF
Heating								
Has Dedicated Heating	92%	87%	96%	89%	–	–	–	–
Has Shared Heating	8%	13%	4%	11%	–	–	–	–
Primary Heating Fuel – Electricity	41%	66%	32%	67%	–	–	–	–
Primary Heating Fuel – Fuel Oil	<1%	<1%	<1%	<1%	–	–	–	–
Primary Heating Fuel – Natural Gas	56%	33%	65%	33%	–	–	–	–
Primary Heating Fuel – Propane	2%	<1%	2%	<1%	–	–	–	–
Primary Heating Fuel – Other	1%	<1%	<1%	<1%	–	–	–	–
Dedicated Furnace	81%	70%	86%	81%	–	–	–	–
Dedicated Boiler	2%	4%	3%	3%	–	–	–	–

Enduse/Equipment	Penetration				Saturation			
	LI-SF	LI-MF	NLI-SF	NLI-MF	LI-SF	LI-MF	NLI-SF	NLI-MF
Dedicated Heat Pump	10%	11%	11%	9%	–	–	–	–
Dedicated Ductless Heat Pump	2%	1%	3%	<1%	–	–	–	–
Dedicated Electric Baseboard	3%	9%	2%	1%	–	–	–	–
Dedicated Portable Electric Heater	19%	13%	18%	11%	–	–	–	–
Dedicated Other	<1%	1%	<1%	<1%	–	–	–	–
Cooling								
Has Central AC	88%	87%	97%	94%	0.89	0.75	1.20	0.94
Has Dedicated AC	83%	78%	94%	87%	0.86	0.75	1.00	0.94
Has Room AC	18%	21%	13%	15%	2.50	1.00	1.00	2.00
Water Heating								
Has Dedicated Water Heating	93%	80%	96%	86%	–	–	–	–
Has Shared Water Heating	7%	20%	4%	14%	–	–	–	–
Dedicated Water Heater Fuel Type – Electric	38%	48%	31%	56%	–	–	–	–
Dedicated Water Heater Fuel Type – Fuel Oil	<1%	<1%	<1%	<1%	–	–	–	–
Dedicated Water Heater Fuel Type – Natural Gas	55%	32%	63%	30%	–	–	–	–
Dedicated Water Heater Fuel Type – Propane	<1%	<1%	2%	<1%	–	–	–	–
Dedicated Water Heater Fuel Type – Other	<1%	<1%	<1%	<1%	–	–	–	–
Dedicated Type of Water Heater – Conventional Storage Tank	90%	77%	91%	83%	–	–	–	–
Dedicated Type of Water Heater – Heat Pump Water Heater	1%	2%	2%	1%	–	–	–	–
Dedicated Type of Water Heater – Indirect/Combination System	<1%	<1%	<1%	<1%	–	–	–	–
Dedicated Type of Water Heater – Tankless Water Heater	1%	<1%	3%	<1%	–	–	–	–
Dedicated Type of Water Heater – Other	<1%	<1%	<1%	<1%	–	–	–	–

Enduse/Equipment	Penetration				Saturation			
	LI-SF	LI-MF	NLI-SF	NLI-MF	LI-SF	LI-MF	NLI-SF	NLI-MF
Major Appliances								
Has Refrigerator	100%	100%	100%	100%	1..31	1.08	1.51	1.12
Primary Refrigerator Has Through Door Ice Maker	24%	8%	45%	18%	–	–	–	–
Primary Refrigerator Type – Bottom Freezer Top Fridge	11%	3%	29%	10%	–	–	–	–
Primary Refrigerator Type – Side-By-Side Fridge/Freezer	17%	7%	27%	13%	–	–	–	–
Primary Refrigerator Type – Single Door Fridge	1%	1%	1%	<1%	–	–	–	–
Primary Refrigerator Type – Small Fridge Less Than 3 Feet High	<1%	<1%	<1%	<1%	–	–	–	–
Primary Refrigerator Type – Top Freezer Bottom Fridge	72%	89%	41%	79%	–	–	–	–
Primary Refrigerator Type – Wine Cooler	<1%	<1%	<1%	<1%	–	–	–	–
Has Secondary Refrigerator	24%	6%	39%	9%	–	–	–	–
Has Tertiary Refrigerator	4%	1%	10%	2%	–	–	–	–
Has Freezer	40%	16%	41%	11%	0.43	0.17	0.46	0.12
Has Any Washer	85%	68%	94%	85%	0.95	0.55	0.95	0.82
Has a Dedicated Clothes Washer	83%	51%	92%	76%	–	–	–	–
Has Clothes Washer in Common Area	2%	17%	2%	9%	–	–	–	–
Has Range	91%	95%	90%	93%	–	–	–	–
Has Stove	13%	9%	8%	8%	–	–	–	–
Has Oven	9%	6%	7%	5%	–	–	–	–
Building Envelope								
Has Attic/Top Floor	88%	64%	94%	60%	–	–	–	–
Has Insulated Attic/Top Floor	83%	61%	91%	56%	–	–	–	–
Has Basement	66%	45%	85%	30%	–	–	–	–
Has Insulated Basement Walls	51%	40%	64%	22%	–	–	–	–
Has Insulated Basement Ceiling	46%	39%	58%	21%	–	–	–	–
Has Insulated Exterior Walls	88%	84%	94%	89%	–	–	–	–
Has Single-Pane Windows	30%	45%	14%	25%	–	–	–	–

Enduse/Equipment	Penetration				Saturation			
	LI-SF	LI-MF	NLI-SF	NLI-MF	LI-SF	LI-MF	NLI-SF	NLI-MF
Has Single-Pane with Storm Windows	18%	9%	8%	7%	–	–	–	–
Has Double-Pane Windows	40%	29%	62%	57%	–	–	–	–
Has Double-Pane with Storm Windows	9%	16%	15%	11%	–	–	–	–
Has Triple-Pane Windows	2%	2%	2%	0%	–	–	–	–
Has Storm Door	68%	25%	55%	38%	–	–	–	–
Majority of Exterior Doors – Single-Pane Glass Door	6%	8%	3%	2%	–	–	–	–
Majority of Exterior Doors – Double-Pane Glass Door	7%	8%	13%	6%	–	–	–	–
Majority of Exterior Doors – Triple-Pane Glass Door	<1%	<1%	<1%	<1%	–	–	–	–
Majority of Exterior Doors – Hollow Core	17%	16%	11%	20%	–	–	–	–
Majority of Exterior Doors – Insulated Metal or Fiberglass	33%	27%	38%	40%	–	–	–	–
Majority of Exterior Doors – Solid Wood	37%	41%	36%	32%	–	–	–	–
Solar								
Homeowner Has Solar Panels	<1%	<1%	1%	<1%	–	–	–	–
Homeowner Has Battery Storage	0%	<1%	2%	<1%	–	–	–	–
Electric Vehicles								
Owns an Electric Vehicle	<1%	1%	7%	3%	–	0.05	0.14	–
Home Has Charging Equipment	<1%	<1%	5%	<1%	–	–	–	–
Thermostats								
Has Thermostat	97%	96%	99%	99%	1.13	1.11	1.26	1.04
Pool Pumps								
Has an Inground Pool	<1%	2%	4%	4%	0.01	0.03	0.05	0.06
Has a Pool Pump	0%	1%	4%	3%	0.01	0.02	0.04	0.04
Smart Strips								
Has Smart Strip	62%	59%	59%	62%	1.59	1.34	1.61	1.55
Water Fixtures								
Has Showerhead	100%	100%	100%	100%	1.45	1.17	1.90	1.38
Has Faucet	100%	100%	100%	100%	3.08	2.47	3.98	2.75

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APPENDIX C. RESIDENTIAL SECTOR ENERGY EFFICIENCY DETAILS

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
1001	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	NLI	MO	405	56%	225	0.03	0.03	9	$22	100%	100%	AIR PUR-1	12%	25%	1.4	1.4	4.7
1002	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	SFIE	SF	LI	MO	405	56%	225	0.03	0.03	9	$22	100%	100%	AIR PUR-2	12%	25%	5.2	5.2	14.8
1003	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	N/A	NC	405	56%	225	0.03	0.03	9	$22	100%	100%	AIR PUR-3	12%	0%	1.4	1.4	4.7
1004	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	NLI	MO	405	56%	225	0.03	0.03	9	$22	100%	100%	AIR PUR-4	12%	25%	1.4	1.4	4.7
1005	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	MFIE	MF	LI	MO	405	56%	225	0.03	0.03	9	$22	100%	100%	AIR PUR-5	12%	25%	4.3	4.3	12.4
1006	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	N/A	NC	405	56%	225	0.03	0.03	9	$22	100%	100%	AIR PUR-6	12%	0%	1.4	1.4	4.7
1007	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	NLI	MO	523	57%	297	0.03	0.04	9	$92	100%	100%	AIR PUR-1	12%	25%	1.4	1.4	4.7
1008	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	SFIE	SF	LI	MO	523	57%	297	0.03	0.04	9	$92	100%	100%	AIR PUR-2	12%	25%	1.7	1.7	5.4
1009	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	N/A	NC	523	57%	297	0.03	0.04	9	$92	100%	100%	AIR PUR-3	12%	0%	1.4	1.4	4.7
1010	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	NLI	MO	523	57%	297	0.03	0.04	9	$92	100%	100%	AIR PUR-4	12%	25%	1.4	1.4	4.7
1011	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	MFIE	MF	LI	MO	523	57%	297	0.03	0.04	9	$92	100%	39%	AIR PUR-5	12%	25%	1.7	4.3	4.8
1012	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	N/A	NC	523	57%	297	0.03	0.04	9	$92	100%	100%	AIR PUR-6	12%	0%	1.4	1.4	4.7
1013	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	NLI	MO	893	63%	559	0.06	0.07	9	$45	100%	100%	AIR PUR-1	12%	25%	1.4	1.4	4.7
1014	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	SFIE	SF	LI	MO	893	63%	559	0.06	0.07	9	$45	100%	100%	AIR PUR-2	12%	25%	6.5	6.5	18.2
1015	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	N/A	NC	893	63%	559	0.06	0.07	9	$45	100%	100%	AIR PUR-3	12%	0%	1.4	1.4	4.7
1016	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	NLI	MO	893	63%	559	0.06	0.07	9	$45	100%	100%	AIR PUR-4	12%	25%	1.4	1.4	4.7
1017	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	MFIE	MF	LI	MO	893	63%	559	0.06	0.07	9	$45	100%	100%	AIR PUR-5	12%	25%	4.3	4.3	12.4
1018	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	N/A	NC	893	63%	559	0.06	0.07	9	$45	100%	100%	AIR PUR-6	12%	0%	1.4	1.4	4.7
1019	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	NLI	MO	296	44%	131	0.01	0.02	9	$8	100%	100%	AIR PUR-1	12%	25%	1.4	1.4	4.7
1020	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	SFIE	SF	LI	MO	296	44%	131	0.01	0.02	9	$8	100%	100%	AIR PUR-2	12%	25%	8.0	8.0	22.2
1021	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	N/A	NC	296	44%	131	0.01	0.02	9	$8	100%	100%	AIR PUR-3	12%	0%	1.4	1.4	4.7
1022	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	NLI	MO	296	44%	131	0.01	0.02	9	$8	100%	100%	AIR PUR-4	12%	25%	1.4	1.4	4.7
1023	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	MFIE	MF	LI	MO	296	44%	131	0.01	0.02	9	$8	100%	100%	AIR PUR-5	12%	25%	4.3	4.3	12.4
1024	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	N/A	NC	296	44%	131	0.01	0.02	9	$8	100%	100%	AIR PUR-6	12%	0%	1.4	1.4	4.7
1025	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	NLI	MO	1,095	12%	131	0.01	0.02	12	$10	100%	100%	DEHUM-1	23%	85%	1.7	1.7	5.7
1026	Appliances	ENERGY STAR Dehumidifier	SFIE	SF	LI	MO	1,095	12%	131	0.01	0.02	12	$10	100%	100%	DEHUM-2	23%	85%	8.3	8.3	24.1
1027	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	N/A	NC	1,095	12%	131	0.01	0.02	12	$10	100%	100%	DEHUM-3	23%	0%	1.7	1.7	5.7
1028	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	NLI	MO	1,095	12%	131	0.01	0.02	12	$10	100%	100%	DEHUM-4	23%	85%	1.7	1.7	5.7
1029	Appliances	ENERGY STAR Dehumidifier	MFIE	MF	LI	MO	1,095	12%	131	0.01	0.02	12	$10	100%	100%	DEHUM-5	23%	85%	5.3	5.3	15.6
1030	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	N/A	NC	1,095	12%	131	0.01	0.02	12	$10	100%	100%	DEHUM-6	23%	0%	1.7	1.7	5.7
1031	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	NLI	MO	1,095	17%	188	0.02	0.02	12	$75	100%	93%	DEHUM-1	23%	85%	1.6	1.7	5.3
1032	Appliances	ENERGY STAR Most Efficient Dehumidifier	SFIE	SF	LI	MO	1,095	17%	188	0.02	0.02	12	$75	100%	100%	DEHUM-2	23%	85%	1.6	1.6	5.4
1033	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	N/A	NC	1,095	17%	188	0.02	0.02	12	$75	100%	93%	DEHUM-3	23%	0%	1.6	1.7	5.3
1034	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	NLI	MO	1,095	17%	188	0.02	0.02	12	$75	100%	93%	DEHUM-4	23%	85%	1.6	1.7	5.3
1035	Appliances	ENERGY STAR Most Efficient Dehumidifier	MFIE	MF	LI	MO	1,095	17%	188	0.02	0.02	12	$75	100%	30%	DEHUM-5	23%	85%	1.6	5.3	4.7
1036	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	N/A	NC	1,095	17%	188	0.02	0.02	12	$75	100%	93%	DEHUM-6	23%	0%	1.6	1.7	5.3
1037	Appliances	Dehumidifier Recycling	N/A	SF	N/A	Recycle	534	100%	534	0.06	0.07	7	$5	100%	35%	DEHUM-7	23%	0%	45.2	129.0	115.6
1038	Appliances	Dehumidifier Recycling	N/A	MF	N/A	Recycle	534	100%	534	0.06	0.07	7	$5	100%	35%	DEHUM-8	23%	0%	45.2	129.0	115.6
1039	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER1	1,017	63%	644	0.08	0.07	5	$28	100%	35%	REFRIG-1	151%	25%	7.3	20.8	18.2
1040	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER2	1,017	4%	42	0.01	0.00	10	$0	100%	35%	REFRIG-1	151%	25%	#DIV/0!	1.0	#DIV/0!
1041	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER3	1,017	4%	42	0.01	0.00	15	$0	100%	35%	REFRIG-1	151%	25%	#DIV/0!	1.0	#DIV/0!
1042	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER1	1,017	63%	644	0.08	0.07	5	$28	100%	100%	REFRIG-2	131%	25%	0.2	0.2	1.5
1043	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER2	1,017	4%	42	0.01	0.00	10	$0	100%	35%	REFRIG-2	131%	25%	#DIV/0!	1.0	#DIV/0!
1044	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER3	1,017	4%	42	0.01	0.00	15	$0	100%	100%	REFRIG-2	131%	25%	0.1	0.1	1.2
1045	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER1	1,017	63%	644	0.08	0.07	5	$28	100%	35%	REFRIG-3	112%	25%	7.3	20.8	18.2
1046	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER2	1,017	4%	42	0.01	0.00	10	$0	100%	35%	REFRIG-3	112%	25%	#DIV/0!	1.0	#DIV/0!
1047	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER3	1,017	4%	42	0.01	0.00	15	$0	100%	35%	REFRIG-3	112%	25%	#DIV/0!	1.0	#DIV/0!
1048	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER1	1,017	63%	644	0.08	0.07	5	$28	100%	100%	REFRIG-4	108%	25%	0.9	0.9	3.2
1049	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER2	1,017	4%	42	0.01	0.00	10	$0	100%	35%	REFRIG-4	108%	25%	#DIV/0!	1.0	#DIV/0!
1050	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER3	1,017	4%	42	0.01	0.00	15	$0	100%	100%	REFRIG-4	108%	25%	0.1	0.1	1.4
1051	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER1	1,672	78%	1,299	0.17	0.14	5	$28	100%	35%	REFRIG-1	151%	25%	14.7	41.9	36.3
1052	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER2	1,672	2%	42	0.01	0.00	10	$0	100%	35%	REFRIG-1	151%	25%	#DIV/0!	1.0	#DIV/0!
1053	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER3	1,672	2%	42	0.01	0.00	15	$0	100%	35%	REFRIG-1	151%	25%	#DIV/0!	1.0	#DIV/0!
1054	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER1	1,672	78%	1,299	0.17	0.14	5	$28	100%	100%	REFRIG-2	131%	25%	0.4	0.4	2.0
1055	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER2	1,672	2%	42	0.01	0.00	10	$0	100%	35%	REFRIG-2	131%	25%	#DIV/0!	1.0	#DIV/0!
1056	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER3	1,672	2%	42	0.01	0.00	15	$0	100%	100%	REFRIG-2	131%	25%	0.1	0.1	1.2
1057	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER1	1,672	78%	1,299	0.17	0.14	5	$28	100%	35%	REFRIG-3	112%	25%	14.7	41.9	36.3
1058	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER2	1,672	2%	42	0.01	0.00	10	$0	100%	35%	REFRIG-3	112%	25%	#DIV/0!	1.0	#DIV/0!
1059	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER3	1,672	2%	42	0.01	0.00	15	$0	100%	35%	REFRIG-3	112%	25%	#DIV/0!	1.0	#DIV/0!
1060	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER1	1,672	78%	1,299	0.17	0.14	5	$28	100%	100%	REFRIG-4	108%	25%	1.8	1.8	5.5

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
1061	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER2	1,672	2%	42	0.01	0.00	10	$0	100%	35%	REFRIG-4	108%	25%	#DIV/0!	1.0	#DIV/0!
1062	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER3	1,672	2%	42	0.01	0.00	15	$0	100%	100%	REFRIG-4	108%	25%	0.1	0.1	1.4
1063	Appliances	Refrigerator Recycling	N/A	SF	N/A	Recycle	901	100%	901	0.12	0.10	7	$50	100%	35%	REF RECYCLE	8%	0%	7.5	21.6	19.8
1064	Appliances	Refrigerator Recycling	N/A	MF	N/A	Recycle	901	100%	901	0.12	0.10	7	$50	100%	35%	REF RECYCLE	2%	0%	7.5	21.6	19.8
1065	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	NLI	MO	272	10%	27	0.00	0.00	21	$5	100%	35%	FRZ-1	46%	19%	5.2	14.7	15.4
1066	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	LI	MO	272	10%	27	0.00	0.00	21	$5	100%	35%	FRZ-2	43%	19%	5.2	14.7	15.4
1067	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	N/A	NC	272	10%	27	0.00	0.00	21	$5	100%	35%	FRZ-3	45%	0%	5.2	14.7	15.4
1068	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	NLI	MO	272	10%	27	0.00	0.00	21	$5	100%	35%	FRZ-4	12%	19%	5.2	14.7	15.4
1069	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	LI	MO	272	10%	27	0.00	0.00	21	$5	100%	35%	FRZ-5	17%	19%	5.2	14.7	15.4
1070	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	N/A	NC	272	10%	27	0.00	0.00	21	$5	100%	35%	FRZ-6	15%	0%	5.2	14.7	15.4
1071	Appliances	Freezer Recycling	N/A	SF	N/A	Recycle	905	100%	905	0.15	0.08	7	$50	100%	35%	FRZ RECYCLE	8%	0%	7.7	22.1	19.9
1072	Appliances	Freezer Recycling	N/A	MF	N/A	Recycle	905	100%	905	0.15	0.08	7	$50	100%	35%	FRZ RECYCLE	2%	0%	7.7	22.1	19.9
1073	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	NLI	MO	547	26%	141	0.02	0.04	14	$85	100%	35%	CW-1	92%	74%	1.4	4.1	3.7
1074	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	LI	MO	547	26%	141	0.02	0.04	14	$85	100%	35%	CW-2	83%	74%	1.4	4.1	3.7
1075	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	N/A	NC	547	26%	141	0.02	0.04	14	$85	100%	35%	CW-3	91%	0%	1.4	4.1	3.7
1076	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	NLI	MO	547	26%	141	0.02	0.04	14	$85	100%	35%	CW-4	63%	74%	1.4	4.1	3.7
1077	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	LI	MO	547	26%	141	0.02	0.04	14	$85	100%	35%	CW-5	51%	74%	1.4	4.1	3.7
1078	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	N/A	NC	547	26%	141	0.02	0.04	14	$85	100%	35%	CW-6	75%	0%	1.4	4.1	3.7
1079	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	NLI	MO	769	28%	213	0.03	0.03	14	$75	100%	35%	CD-1	73%	7%	2.2	6.4	6.1
1080	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	LI	MO	769	28%	213	0.03	0.03	14	$75	100%	35%	CD-2	73%	7%	2.2	6.4	6.1
1081	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	N/A	NC	769	28%	213	0.03	0.03	14	$75	100%	35%	CD-3	73%	0%	2.2	6.4	6.1
1082	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	NLI	MO	769	28%	213	0.03	0.03	14	$75	100%	35%	CD-4	73%	7%	2.2	6.4	6.1
1083	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	LI	MO	769	28%	213	0.03	0.03	14	$75	100%	35%	CD-5	73%	7%	2.2	6.4	6.1
1084	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	N/A	NC	769	28%	213	0.03	0.03	14	$75	100%	35%	CD-6	73%	0%	2.2	6.4	6.1
1085	Appliances	Heat Pump Dryer	N/A	SF	NLI	MO	769	57%	435	0.07	0.07	14	$900	100%	35%	CD-1	73%	7%	0.4	1.1	1.3
1086	Appliances	Heat Pump Dryer	N/A	SF	LI	MO	769	57%	435	0.07	0.07	14	$900	100%	35%	CD-2	73%	7%	0.4	1.1	1.3
1087	Appliances	Heat Pump Dryer	N/A	SF	N/A	NC	769	57%	435	0.07	0.07	14	$900	100%	35%	CD-3	73%	0%	0.4	1.1	1.3
1088	Appliances	Heat Pump Dryer	N/A	MF	NLI	MO	769	57%	435	0.07	0.07	14	$900	100%	35%	CD-4	73%	7%	0.4	1.1	1.3
1089	Appliances	Heat Pump Dryer	N/A	MF	LI	MO	769	57%	435	0.07	0.07	14	$900	100%	35%	CD-5	73%	7%	0.4	1.1	1.3
1090	Appliances	Heat Pump Dryer	N/A	MF	N/A	NC	769	57%	435	0.07	0.07	14	$900	100%	35%	CD-6	73%	0%	0.4	1.1	1.3
1091	Appliances	Ultrasonic Clothes Dryer	N/A	SF	NLI	MO	769	10%	77	0.01	0.01	14	$150	100%	35%	CD-1	73%	0%	0.4	1.2	1.4
1092	Appliances	Ultrasonic Clothes Dryer	N/A	SF	LI	MO	769	10%	77	0.01	0.01	14	$150	100%	35%	CD-2	73%	0%	0.4	1.2	1.4
1093	Appliances	Ultrasonic Clothes Dryer	N/A	SF	N/A	NC	769	10%	77	0.01	0.01	14	$150	100%	35%	CD-3	73%	0%	0.4	1.2	1.4
1094	Appliances	Ultrasonic Clothes Dryer	N/A	MF	NLI	MO	769	10%	77	0.01	0.01	14	$150	100%	35%	CD-4	73%	0%	0.4	1.2	1.4
1095	Appliances	Ultrasonic Clothes Dryer	N/A	MF	LI	MO	769	10%	77	0.01	0.01	14	$150	100%	35%	CD-5	73%	0%	0.4	1.2	1.4
1096	Appliances	Ultrasonic Clothes Dryer	N/A	MF	N/A	NC	769	10%	77	0.01	0.01	14	$150	100%	35%	CD-6	73%	0%	0.4	1.2	1.4
1097	Appliances	ENERGY STAR Dishwasher	N/A	SF	NLI	MO	307	22%	67	0.01	0.01	11	$30	100%	35%	DISH-1	71%	74%	1.4	4.1	4.0
1098	Appliances	ENERGY STAR Dishwasher	N/A	SF	LI	MO	307	22%	67	0.01	0.01	11	$30	100%	35%	DISH-2	71%	74%	1.4	4.1	4.0
1099	Appliances	ENERGY STAR Dishwasher	N/A	SF	N/A	NC	307	22%	67	0.01	0.01	11	$30	100%	35%	DISH-3	71%	0%	1.4	4.1	4.0
1100	Appliances	ENERGY STAR Dishwasher	N/A	MF	NLI	MO	307	22%	67	0.01	0.01	11	$30	100%	35%	DISH-4	71%	74%	1.4	4.1	4.0
1101	Appliances	ENERGY STAR Dishwasher	N/A	MF	LI	MO	307	22%	67	0.01	0.01	11	$30	100%	35%	DISH-5	71%	74%	1.4	4.1	4.0
1102	Appliances	ENERGY STAR Dishwasher	N/A	MF	N/A	NC	307	22%	67	0.01	0.01	11	$30	100%	35%	DISH-6	71%	0%	1.4	4.1	4.0
2001	Behavior	Home Energy Reports	N/A	SF	NLI	MO	12,195	1%	122	0.01	0.02	1	$1	100%	35%	BEH-1	100%	0%	8.0	22.9	18.6
2002	Behavior	Home Energy Reports	N/A	SF	LI	MO	12,195	1%	122	0.01	0.02	1	$1	100%	35%	BEH-2	100%	0%	8.0	22.9	18.6
2003	Behavior	Home Energy Reports	N/A	SF	N/A	NC	12,195	1%	122	0.01	0.02	1	$1	100%	35%	BEH-3	100%	0%	8.0	22.9	18.6
2004	Behavior	Home Energy Reports	N/A	MF	NLI	MO	6,098	1%	61	0.01	0.01	1	$1	100%	35%	BEH-4	100%	0%	4.0	11.5	9.5
2005	Behavior	Home Energy Reports	N/A	MF	LI	MO	6,098	1%	61	0.01	0.01	1	$1	100%	35%	BEH-5	100%	0%	4.0	11.5	9.5
2006	Behavior	Home Energy Reports	N/A	MF	N/A	NC	6,098	1%	61	0.01	0.01	1	$1	100%	35%	BEH-6	100%	0%	4.0	11.5	9.5
3001	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	17,615	4%	739	0.31	0.21	20	$246	100%	100%	AIR SEAL-1	21%	90%	4.2	4.2	8.2
3002	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	17,615	2%	430	0.18	0.12	20	$143	100%	100%	AIR SEAL-2	30%	78%	0.8	0.8	2.3
3003	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	20,314	2%	367	0.16	0.11	20	$134	100%	100%	AIR SEAL-3	57%	84%	4.2	4.2	8.2
3004	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	20,314	1%	254	0.11	0.07	20	$92	100%	100%	AIR SEAL-4	53%	91%	3.9	3.9	7.7
3005	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	PAYS	SF	NLI	Retrofit	3,723	3%	123	0.05	0.04	20	$246	100%	19%	AIR SEAL-5	65%	90%	0.8	4.2	1.5
3006	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	SFIE	SF	LI	Retrofit	3,723	2%	72	0.03	0.02	20	$143	100%	100%	AIR SEAL-6	56%	78%	0.1	0.1	1.2
3007	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	PAYS	MF	NLI	Retrofit	2,499	2%	56	0.02	0.02	20	$134	100%	15%	AIR SEAL-7	33%	84%	0.7	4.2	1.3
3008	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	MFIE	MF	LI	Retrofit	2,499	2%	39	0.02	0.01	20	$92	100%	17%	AIR SEAL-8	33%	91%	0.7	3.9	1.3
3009	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	11,090	6%	637	0.27	0.18	20	$246	100%	96%	AIR SEAL-9	11%	90%	4.0	4.2	7.9
3010	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11,090	3%	370	0.16	0.11	20	$143	100%	100%	AIR SEAL-10	11%	78%	0.6	0.6	2.1
3011	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	12,773	2%	278	0.12	0.08	20	$134	100%	77%	AIR SEAL-11	10%	84%	3.3	4.2	6.4
3012	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	MFIE	MF	LI	Retrofit	12,773	2%	193	0.08	0.06	20	$92	100%	83%	AIR SEAL-12	13%	91%	3.3	3.9	6.4

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
3013	Building Shell	Door Sweep	PAYS	SF	NLI	Retrofit	-	0%	28	0.01	0.01	15	$15	100%	100%	SWEEP-1	100%	90%	2.4	2.4	5.0
3014	Building Shell	Door Sweep	SFIE	SF	LI	Retrofit	-	0%	28	0.01	0.01	15	$15	100%	100%	SWEEP-2	100%	78%	2.4	2.4	5.0
3015	Building Shell	Door Sweep	PAYS	MF	NLI	Retrofit	-	0%	28	0.01	0.01	15	$15	100%	100%	SWEEP-3	100%	84%	2.4	2.4	5.0
3016	Building Shell	Door Sweep	MFIE	MF	LI	Retrofit	-	0%	28	0.01	0.01	15	$15	100%	75%	SWEEP-4	100%	91%	2.4	3.2	4.8
3017	Building Shell	Weatherstripping: 17' Roll	N/A	SF	NLI	Retrofit	-	0%	19	0.01	0.01	20	$5	100%	35%	STRIP-1	100%	90%	5.9	16.8	10.4
3018	Building Shell	Weatherstripping: 17' Roll	SFIE	SF	LI	Retrofit	-	0%	19	0.01	0.01	20	$5	100%	100%	STRIP-2	100%	78%	5.9	5.9	11.1
3019	Building Shell	Weatherstripping: 17' Roll	N/A	MF	NLI	Retrofit	-	0%	19	0.01	0.01	20	$5	100%	35%	STRIP-3	100%	84%	5.9	16.8	10.4
3020	Building Shell	Weatherstripping: 17' Roll	MFIE	MF	LI	Retrofit	-	0%	19	0.01	0.01	20	$5	100%	100%	STRIP-4	100%	91%	3.9	3.9	7.7
3021	Building Shell	Duct Insulation - Electric Heating	PAYS	SF	NLI	Retrofit	17,615	5%	912	0.39	0.26	20	$169	100%	100%	DUCT INSUL-	21%	43%	4.2	4.2	8.2
3022	Building Shell	Duct Insulation - Electric Heating	SFIE	SF	LI	Retrofit	17,615	5%	912	0.39	0.26	20	$169	100%	100%	DUCT INSUL-	30%	30%	2.6	2.6	5.4
3023	Building Shell	Duct Insulation - Gas Heating	PAYS	SF	NLI	Retrofit	3,723	3%	100	0.04	0.03	20	$169	100%	22%	DUCT INSUL-	65%	45%	0.9	4.2	1.8
3024	Building Shell	Duct Insulation - Gas Heating	SFIE	SF	LI	Retrofit	3,723	3%	100	0.04	0.03	20	$169	100%	100%	DUCT INSUL-	56%	36%	0.3	0.3	1.5
3025	Building Shell	Duct Repair (Sealing) - Electric Heating SF	PAYS	SF	NLI	Retrofit	17,615	1%	197	0.08	0.06	20	$322	100%	23%	DUCT SEAL-	21%	86%	1.0	4.2	1.9
3026	Building Shell	Duct Repair (Sealing) - Electric Heating SF	SFIE	SF	LI	Retrofit	17,615	1%	197	0.08	0.06	20	$322	100%	100%	DUCT SEAL-	30%	70%	0.4	0.4	1.7
3027	Building Shell	Duct Repair (Sealing) - Gas Heating SF	PAYS	SF	NLI	Retrofit	3,723	1%	40	0.02	0.01	20	$322	100%	5%	DUCT SEAL-	65%	86%	0.2	4.2	0.4
3028	Building Shell	Duct Repair (Sealing) - Gas Heating SF	SFIE	SF	LI	Retrofit	3,723	1%	40	0.02	0.01	20	$322	100%	100%	DUCT SEAL-	56%	70%	0.1	0.1	1.1
3029	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	PAYS	MF	NLI	Retrofit	20,314	0%	82	0.04	0.02	20	$161	100%	19%	DUCT SEAL-	57%	79%	0.8	4.2	1.6
3030	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	MFIE	MF	LI	Retrofit	20,314	0%	82	0.04	0.02	20	$161	100%	20%	DUCT SEAL-	53%	59%	0.8	3.9	1.6
3031	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	PAYS	MF	NLI	Retrofit	2,499	1%	17	0.01	0.01	20	$161	100%	4%	DUCT SEAL-	33%	79%	0.2	4.2	0.3
3032	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	MFIE	MF	LI	Retrofit	2,499	1%	17	0.01	0.01	20	$161	100%	4%	DUCT SEAL-	33%	59%	0.2	3.9	0.3
3033	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	17,615	6%	1,033	0.44	0.30	30	$2,406	100%	16%	CEIL-1	21%	91%	0.8	5.2	1.6
3034	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	17,615	4%	637	0.27	0.18	30	$1,484	100%	68%	CEIL-2	30%	83%	0.8	1.2	2.1
3035	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	3,723	4%	159	0.07	0.05	30	$2,406	100%	2%	CEIL-3	65%	91%	0.1	5.2	0.2
3036	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	3,723	3%	98	0.04	0.03	30	$1,484	100%	68%	CEIL-4	56%	83%	0.1	0.2	0.9
3037	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	11,090	6%	692	0.29	0.20	30	$2,406	100%	11%	CEIL-5	11%	91%	0.6	5.2	1.1
3038	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11,090	4%	427	0.18	0.12	30	$1,484	100%	68%	CEIL-6	11%	83%	0.6	0.8	1.7
3039	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	20,314	4%	820	0.35	0.24	30	$1,910	100%	16%	CEIL-7	57%	56%	0.8	5.2	1.6
3040	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	20,314	3%	591	0.25	0.17	30	$1,376	100%	17%	CEIL-8	53%	61%	0.8	4.9	1.6
3041	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	2,499	5%	126	0.05	0.04	30	$1,910	100%	2%	CEIL-9	33%	56%	0.1	5.2	0.2
3042	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2,499	4%	91	0.04	0.03	30	$1,376	100%	3%	CEIL-10	33%	61%	0.1	4.9	0.3
3043	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	12,773	4%	550	0.23	0.16	30	$1,910	100%	11%	CEIL-11	10%	56%	0.6	5.2	1.1
3044	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	12,773	3%	396	0.17	0.11	30	$1,376	100%	12%	CEIL-12	13%	61%	0.6	4.9	1.1
3045	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	17,615	10%	1,691	0.72	0.49	30	$1,317	100%	48%	CEIL-1	21%	91%	2.5	5.2	4.8
3046	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	17,615	6%	1,043	0.44	0.30	30	$812	100%	100%	CEIL-2	30%	83%	2.0	2.0	4.5
3047	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	3,723	7%	250	0.11	0.07	30	$1,317	100%	7%	CEIL-3	65%	91%	0.4	5.2	0.7
3048	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	3,723	4%	154	0.07	0.04	30	$812	100%	100%	CEIL-4	56%	83%	0.3	0.3	1.5
3049	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	11,090	10%	1,135	0.48	0.33	30	$1,317	100%	32%	CEIL-5	11%	91%	1.7	5.2	3.3
3050	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11,090	6%	700	0.30	0.20	30	$812	100%	100%	CEIL-6	11%	83%	1.3	1.3	3.3
3051	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	20,314	7%	1,342	0.57	0.39	30	$1,045	100%	48%	CEIL-7	57%	56%	2.5	5.2	4.8
3052	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	20,314	5%	967	0.41	0.28	30	$753	100%	51%	CEIL-8	53%	61%	2.5	4.9	4.9
3053	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	2,499	8%	198	0.08	0.06	30	$1,045	100%	7%	CEIL-9	33%	56%	0.4	5.2	0.7
3054	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2,499	6%	143	0.06	0.04	30	$753	100%	8%	CEIL-10	33%	61%	0.4	4.9	0.7
3055	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	12,773	7%	901	0.38	0.26	30	$1,045	100%	32%	CEIL-11	10%	56%	1.7	5.2	3.3
3056	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	12,773	5%	649	0.28	0.19	30	$753	100%	34%	CEIL-12	13%	61%	1.7	4.9	3.3
3057	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	17,615	10%	1,816	0.77	0.53	30	$1,907	100%	35%	CEIL-1	21%	91%	1.8	5.2	3.6
3058	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	17,615	6%	1,120	0.48	0.32	30	$1,176	100%	86%	CEIL-2	30%	83%	1.8	2.1	4.1
3059	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	3,723	7%	272	0.12	0.08	30	$1,907	100%	5%	CEIL-3	65%	91%	0.3	5.2	0.5
3060	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	3,723	5%	168	0.07	0.05	30	$1,176	100%	86%	CEIL-4	56%	83%	0.3	0.3	1.3
3061	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	11,090	11%	1,214	0.52	0.35	30	$1,907	100%	24%	CEIL-5	11%	91%	1.2	5.2	2.4
3062	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11,090	7%	749	0.32	0.22	30	$1,176	100%	86%	CEIL-6	11%	83%	1.2	1.4	3.0
3063	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	20,314	7%	1,442	0.61	0.42	30	$1,514	100%	35%	CEIL-7	57%	56%	1.8	5.2	3.6
3064	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	20,314	5%	1,038	0.44	0.30	30	$1,090	100%	38%	CEIL-8	53%	61%	1.8	4.9	3.6
3065	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	2,499	9%	216	0.09	0.06	30	$1,514	100%	5%	CEIL-9	33%	56%	0.3	5.2	0.5
3066	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2,499	6%	156	0.07	0.05	30	$1,090	100%	6%	CEIL-10	33%	61%	0.3	4.9	0.5
3067	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	12,773	8%	964	0.41	0.28	30	$1,514	100%	24%	CEIL-11	10%	56%	1.2	5.2	2.4
3068	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	12,773	5%	694	0.30	0.20	30	$1,090	100%	25%	CEIL-12	13%	61%	1.2	4.9	2.4
3069	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	17,615	11%	1,918	0.82	0.56	30	$2,917	100%	24%	CEIL-1	21%	91%	1.3	5.2	2.5
3070	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	17,615	7%	1,183	0.50	0.34	30	$1,799	100%	56%	CEIL-2	30%	83%	1.3	2.3	2.8
3071	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	3,723	8%	284	0.12	0.08	30	$2,917	100%	4%	CEIL-3	65%	91%	0.2	5.2	0.4
3072	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	3,723	5%	175	0.07	0.05	30	$1,799	100%	56%	CEIL-4	56%	83%	0.2	0.3	0.9

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
3073	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	11,090	12%	1,294	0.55	0.37	30	$2,917	100%	16%	CEIL-5	11%	91%	0.9	5.2	1.7
3074	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11,090	7%	798	0.34	0.23	30	$1,799	100%	56%	CEIL-6	11%	83%	0.9	1.5	2.1
3075	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	20,314	7%	1,523	0.65	0.44	30	$2,316	100%	24%	CEIL-7	57%	56%	1.3	5.2	2.5
3076	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	20,314	5%	1,097	0.47	0.32	30	$1,668	100%	26%	CEIL-8	53%	61%	1.3	4.9	2.5
3077	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	2,499	9%	225	0.10	0.07	30	$2,316	100%	4%	CEIL-9	33%	56%	0.2	5.2	0.4
3078	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2,499	6%	162	0.07	0.05	30	$1,668	100%	4%	CEIL-10	33%	61%	0.2	4.9	0.4
3079	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	12,773	8%	1,027	0.44	0.30	30	$2,316	100%	16%	CEIL-11	10%	56%	0.9	5.2	1.7
3080	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	12,773	6%	740	0.32	0.21	30	$1,668	100%	18%	CEIL-12	13%	61%	0.9	4.9	1.7
3081	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	17,615	11%	1,998	0.85	0.58	30	$3,882	100%	19%	CEIL-1	21%	91%	1.0	5.2	1.9
3082	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	17,615	7%	1,232	0.52	0.36	30	$2,394	100%	42%	CEIL-2	30%	83%	1.0	2.4	2.2
3083	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	3,723	8%	295	0.13	0.09	30	$3,882	100%	3%	CEIL-3	65%	91%	0.1	5.2	0.3
3084	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	3,723	5%	182	0.08	0.05	30	$2,394	100%	42%	CEIL-4	56%	83%	0.1	0.3	0.7
3085	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	11,090	12%	1,339	0.57	0.39	30	$3,882	100%	13%	CEIL-5	11%	91%	0.7	5.2	1.3
3086	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11,090	7%	826	0.35	0.24	30	$2,394	100%	42%	CEIL-6	11%	83%	0.7	1.6	1.6
3087	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	20,314	5%	1,065	0.45	0.31	30	$2,069	100%	19%	CEIL-7	57%	56%	1.0	5.2	1.9
3088	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	20,314	6%	1,142	0.49	0.33	30	$2,220	100%	21%	CEIL-8	53%	61%	1.0	4.9	2.0
3089	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	2,499	6%	157	0.07	0.05	30	$2,069	100%	3%	CEIL-9	33%	56%	0.1	5.2	0.3
3090	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2,499	7%	169	0.07	0.05	30	$2,220	100%	3%	CEIL-10	33%	61%	0.1	4.9	0.3
3091	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	12,773	6%	714	0.30	0.21	30	$2,069	100%	13%	CEIL-11	10%	56%	0.7	5.2	1.3
3092	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	12,773	6%	766	0.33	0.22	30	$2,220	100%	14%	CEIL-12	13%	61%	0.7	4.9	1.3
3093	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Heat Pump Heating	SFIE	SF	LI	Retrofit	11,090	0%	46	0.02	0.01	15	$12	100%	100%	ROOF-1	11%	10%	5.1	5.1	9.5
3094	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Non-Electric Heating	SFIE	SF	LI	Retrofit	3,723	3%	109	0.05	0.03	15	$12	100%	100%	ROOF-2	56%	10%	12.2	12.2	21.2
3095	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Heat Pump Heating	SFIE	SF	LI	Retrofit	11,090	0%	21	0.01	0.01	15	$12	100%	100%	ROOF-1	11%	10%	2.3	2.3	4.8
3096	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Non-Electric Heating	SFIE	SF	LI	Retrofit	3,723	1%	49	0.02	0.01	15	$12	100%	100%	ROOF-2	56%	10%	5.5	5.5	10.1
3097	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Heat Pump Heating	SFIE	SF	LI	Retrofit	11,090	0%	15	0.01	0.00	15	$12	100%	100%	ROOF-1	11%	10%	1.7	1.7	3.7
3098	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Non-Electric Heating	SFIE	SF	LI	Retrofit	3,723	1%	35	0.01	0.01	15	$12	100%	100%	ROOF-2	56%	10%	4.0	4.0	7.5
3099	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Heat Pump Heating	SFIE	SF	LI	Retrofit	11,090	1%	84	0.04	0.02	15	$12	100%	100%	ROOF-1	11%	10%	9.4	9.4	16.6
3100	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Non-Electric Heating	SFIE	SF	LI	Retrofit	3,723	5%	200	0.09	0.06	15	$12	100%	100%	ROOF-2	56%	10%	22.5	22.5	38.2
3101	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Heat Pump Heating	MFIE	MF	LI	Retrofit	12,773	0%	23	0.01	0.01	15	$7	100%	100%	ROOF-3	13%	10%	3.2	3.2	6.4
3102	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Non-Electric Heating	MFIE	MF	LI	Retrofit	2,499	2%	55	0.02	0.02	15	$7	100%	100%	ROOF-4	33%	10%	3.2	3.2	6.4
3103	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Heat Pump Heating	MFIE	MF	LI	Retrofit	12,773	0%	10	0.00	0.00	15	$7	100%	53%	ROOF-3	13%	10%	1.7	3.2	3.4
3104	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Non-Electric Heating	MFIE	MF	LI	Retrofit	2,499	1%	24	0.01	0.01	15	$7	100%	100%	ROOF-4	33%	10%	3.2	3.2	6.4
3105	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Heat Pump Heating	MFIE	MF	LI	Retrofit	12,773	0%	8	0.00	0.00	15	$7	100%	42%	ROOF-3	13%	10%	1.4	3.2	2.7
3106	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Non-Electric Heating	MFIE	MF	LI	Retrofit	2,499	1%	18	0.01	0.01	15	$7	100%	99%	ROOF-4	33%	10%	3.2	3.2	6.3
3107	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Heat Pump Heating	MFIE	MF	LI	Retrofit	12,773	0%	45	0.02	0.01	15	$7	100%	100%	ROOF-3	13%	10%	3.2	3.2	6.4
3108	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Non-Electric Heating	MFIE	MF	LI	Retrofit	2,499	4%	108	0.05	0.03	15	$7	100%	100%	ROOF-4	33%	10%	3.2	3.2	6.4
3109	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	17,615	1%	227	0.10	0.07	30	$772	100%	35%	FLOOR-1	21%	58%	0.6	1.6	1.4
3110	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	17,615	1%	140	0.06	0.04	30	$476	100%	100%	FLOOR-2	30%	46%	0.3	0.3	1.5
3111	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	3,723	1%	23	0.01	0.01	30	$772	100%	35%	FLOOR-3	65%	21%	0.1	0.2	0.5
3112	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	3,723	0%	14	0.01	0.00	30	$476	100%	100%	FLOOR-4	56%	39%	0.0	0.0	1.0
3113	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	11,090	1%	125	0.05	0.04	30	$772	100%	35%	FLOOR-5	11%	58%	0.3	0.9	0.9
3114	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	11,090	1%	77	0.03	0.02	30	$476	100%	100%	FLOOR-6	11%	46%	0.2	0.2	1.3
3115	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	17,615	13%	2,327	0.99	0.67	30	$772	100%	35%	FLOOR-1	21%	21%	5.9	16.7	10.6
3116	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	17,615	8%	1,435	0.61	0.42	30	$476	100%	100%	FLOOR-2	30%	39%	2.8	2.8	6.0
3117	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	3,723	7%	272	0.12	0.08	30	$772	100%	35%	FLOOR-3	65%	58%	0.7	2.0	1.6
3118	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	3,723	5%	168	0.07	0.05	30	$476	100%	100%	FLOOR-4	56%	46%	0.3	0.3	1.6
3119	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	11,090	14%	1,544	0.66	0.45	30	$772	100%	35%	FLOOR-5	11%	21%	3.9	11.1	7.2
3120	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	11,090	9%	952	0.41	0.28	30	$476	100%	100%	FLOOR-6	11%	39%	1.9	1.9	4.3
3121	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	NLI	Retrofit	11,090	8%	887	0.38	0.26	30	$3,665	100%	35%	BASEMENT-	11%	64%	0.5	1.3	1.2
3122	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	LI	Retrofit	11,090	8%	887	0.38	0.26	30	$3,665	100%	35%	BASEMENT-	11%	51%	0.5	1.3	1.2
3123	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	NLI	Retrofit	12,773	3%	444	0.19	0.13	30	$1,833	100%	35%	BASEMENT-	10%	22%	0.5	1.3	1.2
3124	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	LI	Retrofit	12,773	3%	444	0.19	0.13	30	$1,833	100%	35%	BASEMENT-	13%	40%	0.5	1.3	1.2
3125	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	17,615	9%	1,544	0.66	0.45	30	$3,665	100%	35%	BASEMENT-	21%	64%	0.8	2.3	1.8
3126	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	LI	Retrofit	17,615	9%	1,544	0.66	0.45	30	$3,665	100%	35%	BASEMENT-	30%	51%	0.8	2.3	1.8
3127	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	20,314	4%	772	0.33	0.22	30	$1,833	100%	35%	BASEMENT-	57%	22%	0.8	2.3	1.8
3128	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	LI	Retrofit	20,314	4%	772	0.33	0.22	30	$1,833	100%	35%	BASEMENT-	53%	40%	0.8	2.3	1.8
3129	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	3,723	1%	41	0.02	0.01	30	$3,665	100%	35%	BASEMENT-	65%	64%	0.0	0.1	0.4
3130	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	LI	Retrofit	3,723	1%	41	0.02	0.01	30	$3,665	100%	35%	BASEMENT-1	56%	51%	0.0	0.1	0.4
3131	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	2,499	1%	20	0.01	0.01	30	$1,833	100%	35%	BASEMENT-1	33%	22%	0.0	0.1	0.4
3132	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	LI	Retrofit	2,499	1%	20	0.01	0.01	30	$1,833	100%	35%	BASEMENT-1	33%	40%	0.0	0.1	0.4

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
3133	Building Shell	Wall Insulation - Heat pump	N/A	SF	NLI	Retrofit	11,090	11%	1,219	0.52	0.35	30	$1,335	100%	35%	WALL-1	11%	94%	1.8	5.1	3.5
3134	Building Shell	Wall Insulation - Heat pump	N/A	SF	LI	Retrofit	11,090	11%	1,219	0.52	0.35	30	$1,335	100%	35%	WALL-2	11%	88%	1.8	5.1	3.5
3135	Building Shell	Wall Insulation - Heat pump	N/A	MF	NLI	Retrofit	12,773	5%	661	0.28	0.19	30	$723	100%	35%	WALL-3	10%	89%	1.8	5.1	3.5
3136	Building Shell	Wall Insulation - Heat pump	N/A	MF	LI	Retrofit	12,773	5%	661	0.28	0.19	30	$723	100%	35%	WALL-4	13%	84%	1.8	5.1	3.5
3137	Building Shell	Wall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	17,615	11%	1,935	0.82	0.56	30	$1,335	100%	35%	WALL-5	21%	94%	2.8	8.0	5.3
3138	Building Shell	Wall Insulation - Electric furnace	N/A	SF	LI	Retrofit	17,615	11%	1,935	0.82	0.56	30	$1,335	100%	35%	WALL-6	30%	88%	2.8	8.0	5.3
3139	Building Shell	Wall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	20,314	5%	1,049	0.45	0.30	30	$723	100%	35%	WALL-7	57%	89%	2.8	8.0	5.3
3140	Building Shell	Wall Insulation - Electric furnace	N/A	MF	LI	Retrofit	20,314	5%	1,049	0.45	0.30	30	$723	100%	35%	WALL-8	53%	84%	2.8	8.0	5.3
3141	Building Shell	Wall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	3,723	10%	374	0.16	0.11	30	$1,335	100%	35%	WALL-9	65%	94%	0.5	1.6	1.3
3142	Building Shell	Wall Insulation - Gas Heating	N/A	SF	LI	Retrofit	3,723	10%	374	0.16	0.11	30	$1,335	100%	35%	WALL-10	56%	88%	0.5	1.6	1.3
3143	Building Shell	Wall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	2,499	8%	198	0.08	0.06	30	$723	100%	35%	WALL-11	33%	89%	0.5	1.5	1.3
3144	Building Shell	Wall Insulation - Gas Heating	N/A	MF	LI	Retrofit	2,499	8%	198	0.08	0.06	30	$723	100%	35%	WALL-12	33%	84%	0.5	1.5	1.3
3145	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	NLI	Retrofit	-	0%	53	0.02	0.02	20	$6	100%	100%	FOAM-1	100%	90%	13.9	13.9	24.9
3146	Building Shell	Spray Foam Insulation: 12 oz. Can	SFIE	SF	LI	Retrofit	-	0%	53	0.02	0.02	20	$6	100%	100%	FOAM-2	100%	78%	13.9	13.9	24.9
3147	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	N/A	NC	-	0%	53	0.02	0.02	20	$6	100%	100%	FOAM-3	100%	0%	13.9	13.9	24.9
3148	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	NLI	Retrofit	-	0%	53	0.02	0.02	20	$6	100%	100%	FOAM-4	100%	84%	13.9	13.9	24.9
3149	Building Shell	Spray Foam Insulation: 12 oz. Can	MFIE	MF	LI	Retrofit	-	0%	53	0.02	0.02	20	$6	100%	100%	FOAM-5	100%	91%	3.9	3.9	7.7
3150	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	N/A	NC	-	0%	53	0.02	0.02	20	$6	100%	100%	FOAM-6	100%	0%	13.9	13.9	24.9
3151	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	17,615	7%	1,185	0.50	0.34	20	$1,908	100%	35%	STORM-1	21%	23%	1.0	2.8	2.0
3152	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	17,615	4%	689	0.29	0.20	20	$1,109	100%	100%	STORM-2	30%	28%	1.0	1.0	2.7
3153	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	17,615	4%	642	0.27	0.19	20	$1,034	100%	35%	STORM-3	57%	18%	1.0	2.8	2.0
3154	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	17,615	3%	444	0.19	0.13	20	$715	100%	25%	STORM-4	53%	24%	1.0	3.9	1.9
3155	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	17,615	20%	3,547	1.51	1.03	20	$1,908	100%	35%	STORM-5	21%	23%	2.9	8.3	5.3
3156	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	17,615	12%	2,062	0.88	0.60	20	$1,109	100%	100%	STORM-6	30%	28%	2.9	2.9	6.0
3157	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	17,615	11%	1,922	0.82	0.56	20	$1,034	100%	35%	STORM-7	57%	18%	2.9	8.3	5.3
3158	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	17,615	8%	1,330	0.57	0.39	20	$715	100%	74%	STORM-8	53%	24%	2.9	3.9	5.7
3159	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	17,615	6%	1,128	0.48	0.33	20	$1,908	100%	35%	STORM-1	21%	23%	0.9	2.6	1.9
3160	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	17,615	4%	656	0.28	0.19	20	$1,109	100%	100%	STORM-2	30%	28%	0.9	0.9	2.6
3161	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	17,615	3%	611	0.26	0.18	20	$1,034	100%	35%	STORM-3	57%	18%	0.9	2.6	1.9
3162	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	17,615	2%	423	0.18	0.12	20	$715	100%	24%	STORM-4	53%	24%	0.9	3.9	1.8
3163	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	17,615	20%	3,545	1.51	1.03	20	$1,908	100%	35%	STORM-5	21%	23%	2.9	8.3	5.3
3164	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	17,615	12%	2,061	0.88	0.60	20	$1,109	100%	100%	STORM-6	30%	28%	2.9	2.9	6.0
3165	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	17,615	11%	1,921	0.82	0.56	20	$1,034	100%	35%	STORM-7	57%	18%	2.9	8.3	5.3
3166	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	17,615	8%	1,329	0.57	0.39	20	$715	100%	74%	STORM-8	53%	24%	2.9	3.9	5.7
3167	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	3,723	6%	210	0.09	0.06	20	$1,908	100%	35%	STORM-9	65%	23%	0.2	0.5	0.6
3168	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	3,723	3%	122	0.05	0.04	20	$1,109	100%	100%	STORM-10	56%	28%	0.2	0.2	1.3
3169	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	3,723	3%	114	0.05	0.03	20	$1,034	100%	35%	STORM-11	33%	18%	0.2	0.5	0.6
3170	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	3,723	2%	79	0.03	0.02	20	$715	100%	4%	STORM-12	33%	24%	0.2	3.9	0.3
3171	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	3,723	12%	435	0.19	0.13	20	$1,908	100%	35%	STORM-13	65%	23%	0.4	1.0	1.0
3172	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	3,723	7%	253	0.11	0.07	20	$1,109	100%	100%	STORM-14	56%	28%	0.4	0.4	1.6
3173	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	3,723	6%	236	0.10	0.07	20	$1,034	100%	35%	STORM-15	33%	18%	0.4	1.0	1.0
3174	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	3,723	4%	163	0.07	0.05	20	$715	100%	9%	STORM-16	33%	24%	0.4	3.9	0.7
3175	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	3,723	5%	175	0.07	0.05	20	$1,908	100%	35%	STORM-9	65%	23%	0.1	0.4	0.6
3176	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	3,723	3%	101	0.04	0.03	20	$1,109	100%	100%	STORM-10	56%	28%	0.1	0.1	1.2
3177	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	3,723	3%	95	0.04	0.03	20	$1,034	100%	35%	STORM-11	33%	18%	0.1	0.4	0.6
3178	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	3,723	2%	65	0.03	0.02	20	$715	100%	4%	STORM-12	33%	24%	0.1	3.9	0.3
3179	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	3,723	12%	435	0.19	0.13	20	$1,908	100%	35%	STORM-13	65%	23%	0.4	1.0	1.0
3180	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	3,723	7%	253	0.11	0.07	20	$1,109	100%	100%	STORM-14	56%	28%	0.4	0.4	1.6
3181	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	3,723	6%	236	0.10	0.07	20	$1,034	100%	35%	STORM-15	33%	18%	0.4	1.0	1.0
3182	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	3,723	4%	163	0.07	0.05	20	$715	100%	9%	STORM-16	33%	24%	0.4	3.9	0.7
3183	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	11,090	7%	813	0.35	0.24	20	$1,908	100%	35%	STORM-17	11%	23%	0.7	1.9	1.5
3184	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	11,090	4%	473	0.20	0.14	20	$1,109	100%	100%	STORM-18	11%	28%	0.7	0.7	2.1
3185	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	11,090	4%	441	0.19	0.13	20	$1,034	100%	35%	STORM-19	13%	18%	0.7	1.9	1.5
3186	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	11,090	3%	305	0.13	0.09	20	$715	100%	17%	STORM-20	12%	24%	0.7	3.9	1.3
3187	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	11,090	21%	2,356	1.00	0.68	20	$1,908	100%	35%	STORM-21	11%	23%	1.9	5.5	3.7
3188	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	11,090	12%	1,370	0.58	0.40	20	$1,109	100%	100%	STORM-22	11%	28%	1.9	1.9	4.3
3189	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	11,090	12%	1,277	0.54	0.37	20	$1,034	100%	35%	STORM-23	13%	18%	1.9	5.5	3.7
3190	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	11,090	8%	883	0.38	0.26	20	$715	100%	49%	STORM-24	12%	24%	1.9	3.9	3.8
3191	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	11,090	7%	762	0.32	0.22	20	$1,908	100%	35%	STORM-17	11%	23%	0.6	1.8	1.4
3192	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	11,090	4%	443	0.19	0.13	20	$1,109	100%	100%	STORM-18	11%	28%	0.6	0.6	2.1

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
3193	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	11,090	4%	413	0.18	0.12	20	$1,034	100%	35%	STORM-19	13%	18%	0.6	1.8	1.4
3194	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	11,090	3%	286	0.12	0.08	20	$715	100%	16%	STORM-20	12%	24%	0.6	3.9	1.2
3195	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	11,090	21%	2,356	1.00	0.68	20	$1,908	100%	35%	STORM-21	11%	23%	1.9	5.5	3.7
3196	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	11,090	12%	1,370	0.58	0.40	20	$1,109	100%	100%	STORM-22	11%	28%	1.9	1.9	4.3
3197	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	11,090	12%	1,277	0.54	0.37	20	$1,034	100%	35%	STORM-23	13%	18%	1.9	5.5	3.7
3198	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	11,090	8%	883	0.38	0.26	20	$715	100%	49%	STORM-24	12%	24%	1.9	3.9	3.8
3199	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	NLI	Retrofit	11,090	3%	294	0.13	0.09	40	$10,605	100%	35%	WINDOW-1	11%	86%	0.1	0.2	0.5
3200	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	LI	Retrofit	11,090	3%	294	0.13	0.09	40	$10,605	100%	35%	WINDOW-2	11%	70%	0.1	0.2	0.5
3201	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	NLI	Retrofit	12,773	1%	159	0.07	0.05	40	$5,746	100%	35%	WINDOW-3	10%	75%	0.1	0.2	0.5
3202	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	LI	Retrofit	12,773	1%	159	0.07	0.05	40	$5,746	100%	35%	WINDOW-4	13%	55%	0.1	0.2	0.5
3203	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	NLI	Retrofit	17,615	3%	444	0.19	0.13	40	$10,605	100%	35%	WINDOW-5	21%	86%	0.1	0.3	0.5
3204	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	LI	Retrofit	17,615	3%	444	0.19	0.13	40	$10,605	100%	35%	WINDOW-6	30%	70%	0.1	0.3	0.5
3205	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	NLI	Retrofit	20,314	1%	240	0.10	0.07	40	$5,746	100%	35%	WINDOW-7	57%	75%	0.1	0.3	0.5
3206	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	LI	Retrofit	20,314	1%	240	0.10	0.07	40	$5,746	100%	35%	WINDOW-8	53%	55%	0.1	0.3	0.5
3207	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	NLI	Retrofit	3,723	4%	158	0.07	0.05	40	$10,605	100%	35%	WINDOW-9	65%	86%	0.0	0.1	0.4
3208	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	LI	Retrofit	3,723	4%	158	0.07	0.05	40	$10,605	100%	35%	WINDOW-10	56%	70%	0.0	0.1	0.4
3209	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	NLI	Retrofit	2,499	3%	85	0.04	0.02	40	$5,746	100%	35%	WINDOW-11	33%	75%	0.0	0.1	0.4
3210	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	LI	Retrofit	2,499	3%	85	0.04	0.02	40	$5,746	100%	35%	WINDOW-12	33%	55%	0.0	0.1	0.4
3211	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	NLI	Retrofit	11,090	2%	197	0.08	0.06	10	$600	100%	35%	CELL SHADE-	11%	86%	0.3	0.9	0.8
3212	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	LI	Retrofit	11,090	2%	197	0.08	0.06	10	$600	100%	35%	CELL SHADE-	11%	70%	0.3	0.9	0.8
3213	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	NLI	Retrofit	12,773	1%	187	0.08	0.05	10	$240	100%	35%	CELL SHADE-	10%	75%	0.7	2.1	1.5
3214	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	LI	Retrofit	12,773	1%	187	0.08	0.05	10	$240	100%	35%	CELL SHADE-	13%	55%	0.7	2.1	1.5
3215	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	NLI	Retrofit	17,615	2%	324	0.14	0.09	10	$600	100%	35%	CELL SHADE-	21%	86%	0.5	1.5	1.2
3216	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	LI	Retrofit	17,615	2%	324	0.14	0.09	10	$600	100%	35%	CELL SHADE-	30%	70%	0.5	1.5	1.2
3217	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	NLI	Retrofit	20,314	2%	314	0.13	0.09	10	$240	100%	35%	CELL SHADE-	57%	75%	1.3	3.6	2.3
3218	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	LI	Retrofit	20,314	2%	314	0.13	0.09	10	$240	100%	35%	CELL SHADE-	53%	55%	1.3	3.6	2.3
3219	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	NLI	Retrofit	3,723	3%	130	0.06	0.04	10	$600	100%	35%	CELL SHADE-	65%	86%	0.2	0.6	0.7
3220	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	LI	Retrofit	3,723	3%	130	0.06	0.04	10	$600	100%	35%	CELL SHADE-	56%	70%	0.2	0.6	0.7
3221	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	NLI	Retrofit	2,499	4%	95	0.04	0.03	10	$240	100%	35%	CELL SHADE-	33%	75%	0.4	1.1	0.9
3222	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	LI	Retrofit	2,499	4%	95	0.04	0.03	10	$240	100%	35%	CELL SHADE-	33%	55%	0.4	1.1	0.9
3223	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	12,195	6%	671	0.29	0.19	25	$1,327	100%	35%	NANO-1	100%	0%	0.9	2.6	1.9
3224	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	6,098	6%	335	0.14	0.10	25	$1,327	100%	35%	NANO-2	100%	0%	0.4	1.3	1.1
3225	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	12,195	20%	2,439	1.04	0.71	25	$6,310	100%	35%	NANO-3	100%	0%	0.7	2.0	1.5
3226	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	6,098	20%	1,220	0.52	0.35	25	$6,310	100%	35%	NANO-4	100%	0%	0.3	1.0	0.9
3227	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	12,195	30%	3,659	1.56	1.06	25	$1,313	100%	35%	NANO-5	100%	0%	4.9	14.1	8.9
3228	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	6,098	30%	1,829	0.78	0.53	25	$1,313	100%	35%	NANO-6	100%	0%	2.5	7.1	4.6
3229	Building Shell	Floor Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	12,195	2%	244	0.10	0.07	25	$1,269	100%	35%	NANO-7	100%	0%	0.3	1.0	0.9
3230	Building Shell	Floor Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	6,098	2%	122	0.05	0.04	25	$1,269	100%	35%	NANO-8	100%	0%	0.2	0.5	0.6
3231	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	12,195	2%	244	0.10	0.07	25	$169	100%	35%	NANO-9	100%	0%	2.6	7.3	4.8
3232	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	6,098	2%	122	0.05	0.04	25	$169	100%	35%	NANO-10	100%	0%	1.3	3.7	2.6
3233	Building Shell	Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	12,195	14%	1,707	0.73	0.49	25	$3,426	100%	35%	NANO-11	100%	0%	0.9	2.5	1.9
3234	Building Shell	Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	6,098	14%	854	0.36	0.25	25	$3,426	100%	35%	NANO-12	100%	0%	0.4	1.3	1.1
4001	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	NLI	MO	8,952	11%	1,027	0.28	0.39	18	$135	100%	92%	HP-HP-1	11%	52%	5.2	5.6	19.8
4002	HVAC	ASHP-SEER15_ROF_SF	PAYS	SF	LI	MO	8,952	11%	1,027	0.28	0.39	18	$135	100%	100%	HP-HP-2	11%	52%	0.6	0.6	2.0
4003	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	N/A	NC	8,952	11%	1,027	0.28	0.39	18	$135	100%	92%	HP-HP-3	11%	0%	10.2	11.1	19.8
4004	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER1	11,090	34%	3,779	1.02	1.43	6	$132	100%	100%	HP-HP-1	11%	52%	1.0	1.0	2.4
4005	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER2	11,090	9%	1,033	0.28	0.39	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4006	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER3	11,090	9%	1,033	0.28	0.39	18	$135	100%	100%	HP-HP-1	11%	52%	10.3	10.3	20.0
4007	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER1	11,090	34%	3,779	1.02	1.43	6	$132	100%	100%	HP-HP-2	11%	52%	1.0	1.0	2.4
4008	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER2	11,090	9%	1,033	0.28	0.39	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4009	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER3	11,090	9%	1,033	0.28	0.39	18	$135	100%	100%	HP-HP-2	11%	52%	10.3	10.3	20.0
4010	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	NLI	MO	6,986	1%	85	0.02	0.03	18	$135	100%	8%	HP-HP-4	10%	25%	0.8	11.1	1.6
4011	HVAC	ASHP-SEER15_ROF_MF	PAYS	MF	LI	MO	6,986	1%	85	0.02	0.03	18	$135	100%	100%	HP-HP-5	13%	25%	0.0	0.0	1.1
4012	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	N/A	NC	6,986	1%	85	0.02	0.03	18	$135	100%	8%	HP-HP-6	12%	0%	0.8	11.1	1.6
4013	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER1	12,773	37%	4,747	1.28	1.80	6	$132	100%	100%	HP-HP-4	10%	25%	1.2	1.2	2.8
4014	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER2	12,773	12%	1,497	0.40	0.57	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4015	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER3	12,773	12%	1,497	0.40	0.57	18	$135	100%	100%	HP-HP-4	10%	25%	14.9	14.9	28.6
4016	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER1	12,773	37%	4,747	1.28	1.80	6	$132	100%	100%	HP-HP-5	13%	25%	5.3	5.3	8.8
4017	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER2	12,773	12%	1,497	0.40	0.57	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4018	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER3	12,773	12%	1,497	0.40	0.57	18	$135	100%	100%	HP-HP-5	13%	25%	11.2	11.2	21.7

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4019	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	NLI	MO	8,952	15%	1,349	0.36	0.51	18	$421	100%	39%	HP-HP-1	11%	52%	4.3	11.1	8.4
4020	HVAC	ASHP-SEER16_ROF_SF	PAYS	SF	LI	MO	8,952	15%	1,349	0.36	0.51	18	$421	100%	100%	HP-HP-2	11%	52%	0.7	0.7	2.3
4021	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	N/A	NC	8,952	15%	1,349	0.36	0.51	18	$421	100%	39%	HP-HP-3	11%	0%	4.3	11.1	8.4
4022	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER1	11,090	37%	4,077	1.10	1.54	6	$418	100%	100%	HP-HP-1	11%	52%	1.0	1.0	2.5
4023	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER2	11,090	12%	1,320	0.35	0.50	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4024	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER3	11,090	12%	1,320	0.35	0.50	18	$421	100%	100%	HP-HP-1	11%	52%	4.2	4.2	8.8
4025	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER1	11,090	37%	4,077	1.10	1.54	6	$418	100%	100%	HP-HP-2	11%	52%	1.0	1.0	2.5
4026	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER2	11,090	12%	1,320	0.35	0.50	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4027	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER3	11,090	12%	1,320	0.35	0.50	18	$421	100%	100%	HP-HP-2	11%	52%	4.2	4.2	8.8
4028	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	NLI	MO	6,986	15%	1,065	0.29	0.40	18	$421	100%	31%	HP-HP-4	10%	25%	3.4	11.1	6.6
4029	HVAC	ASHP-SEER16_ROF_MF	PAYS	MF	LI	MO	6,986	15%	1,065	0.29	0.40	18	$421	100%	100%	HP-HP-5	13%	25%	0.6	0.6	2.1
4030	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	N/A	NC	6,986	15%	1,065	0.29	0.40	18	$421	100%	31%	HP-HP-6	12%	0%	3.4	11.1	6.6
4031	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER1	12,773	34%	4,334	1.16	1.64	6	$418	100%	100%	HP-HP-4	10%	25%	1.1	1.1	2.6
4032	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER2	12,773	12%	1,541	0.41	0.58	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4033	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER3	12,773	12%	1,541	0.41	0.58	18	$421	100%	100%	HP-HP-4	10%	25%	4.9	4.9	10.1
4034	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER1	12,773	34%	4,334	1.16	1.64	6	$418	100%	100%	HP-HP-5	13%	25%	5.3	5.3	8.8
4035	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER2	12,773	12%	1,541	0.41	0.58	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4036	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER3	12,773	12%	1,541	0.41	0.58	18	$421	100%	44%	HP-HP-5	13%	25%	4.9	11.2	9.5
4037	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	NLI	MO	8,952	22%	1,937	0.52	0.73	18	$630	100%	37%	HP-HP-1	11%	52%	4.1	11.1	8.0
4038	HVAC	ASHP-SEER17_ROF_SF	PAYS	SF	LI	MO	8,952	22%	1,937	0.52	0.73	18	$630	100%	100%	HP-HP-2	11%	52%	1.0	1.0	2.9
4039	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	N/A	NC	8,952	22%	1,937	0.52	0.73	18	$630	100%	37%	HP-HP-3	11%	0%	4.1	11.1	8.0
4040	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER1	11,090	40%	4,441	1.19	1.68	6	$627	100%	100%	HP-HP-1	11%	52%	1.1	1.1	2.7
4041	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER2	11,090	15%	1,691	0.45	0.64	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4042	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER3	11,090	15%	1,691	0.45	0.64	18	$630	100%	100%	HP-HP-1	11%	52%	3.6	3.6	7.7
4043	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER1	11,090	40%	4,441	1.19	1.68	6	$627	100%	100%	HP-HP-2	11%	52%	1.1	1.1	2.7
4044	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER2	11,090	15%	1,691	0.45	0.64	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4045	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER3	11,090	15%	1,691	0.45	0.64	18	$630	100%	100%	HP-HP-2	11%	52%	3.6	3.6	7.7
4046	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	NLI	MO	6,986	21%	1,453	0.39	0.55	18	$630	100%	28%	HP-HP-4	10%	25%	3.1	11.1	6.0
4047	HVAC	ASHP-SEER17_ROF_MF	PAYS	MF	LI	MO	6,986	21%	1,453	0.39	0.55	18	$630	100%	100%	HP-HP-5	13%	25%	0.8	0.8	2.4
4048	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	N/A	NC	6,986	21%	1,453	0.39	0.55	18	$630	100%	28%	HP-HP-6	12%	0%	3.1	11.1	6.0
4049	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER1	12,773	25%	3,168	0.85	1.20	6	$627	100%	100%	HP-HP-4	10%	25%	0.8	0.8	2.2
4050	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER2	12,773	10%	1,329	0.36	0.50	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4051	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER3	12,773	10%	1,329	0.36	0.50	18	$627	100%	100%	HP-HP-4	10%	25%	2.9	2.9	6.3
4052	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER1	12,773	25%	3,168	0.85	1.20	6	$627	100%	61%	HP-HP-5	13%	25%	3.2	5.3	5.3
4053	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER2	12,773	10%	1,329	0.36	0.50	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4054	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER3	12,773	10%	1,329	0.36	0.50	18	$627	100%	25%	HP-HP-5	13%	25%	2.9	11.2	5.5
4055	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	NLI	MO	8,952	25%	2,268	0.61	0.86	18	$855	100%	32%	HP-HP-1	11%	52%	3.6	11.1	6.9
4056	HVAC	ASHP-SEER18_ROF_SF	PAYS	SF	LI	MO	8,952	25%	2,268	0.61	0.86	18	$855	100%	100%	HP-HP-2	11%	52%	1.2	1.2	3.3
4057	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	N/A	NC	8,952	25%	2,268	0.61	0.86	18	$855	100%	32%	HP-HP-3	11%	0%	3.6	11.1	6.9
4058	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER1	11,090	48%	5,309	1.43	2.01	6	$852	100%	100%	HP-HP-1	11%	52%	1.3	1.3	3.0
4059	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER2	11,090	20%	2,252	0.60	0.85	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4060	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER3	11,090	20%	2,252	0.60	0.85	18	$855	100%	100%	HP-HP-1	11%	52%	3.5	3.5	7.5
4061	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER1	11,090	48%	5,309	1.43	2.01	6	$852	100%	100%	HP-HP-2	11%	52%	1.3	1.3	3.0
4062	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER2	11,090	20%	2,252	0.60	0.85	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4063	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER3	11,090	20%	2,252	0.60	0.85	18	$855	100%	100%	HP-HP-2	11%	52%	3.5	3.5	7.5
4064	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	NLI	MO	6,986	22%	1,527	0.41	0.58	18	$855	100%	22%	HP-HP-4	10%	25%	2.4	11.1	4.7
4065	HVAC	ASHP-SEER18_ROF_MF	PAYS	MF	LI	MO	6,986	22%	1,527	0.41	0.58	18	$855	100%	100%	HP-HP-5	13%	25%	0.8	0.8	2.5
4066	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	N/A	NC	6,986	22%	1,527	0.41	0.58	18	$855	100%	22%	HP-HP-6	12%	0%	2.4	11.1	4.7
4067	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER1	12,773	38%	4,797	1.29	1.81	6	$852	100%	100%	HP-HP-4	10%	25%	1.2	1.2	2.8
4068	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER2	12,773	15%	1,871	0.50	0.71	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4069	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER3	12,773	15%	1,871	0.50	0.71	18	$855	100%	100%	HP-HP-4	10%	25%	2.9	2.9	6.4
4070	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER1	12,773	38%	4,797	1.29	1.81	6	$852	100%	68%	HP-HP-5	13%	25%	3.6	5.3	5.9
4071	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER2	12,773	15%	1,871	0.50	0.71	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4072	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER3	12,773	15%	1,871	0.50	0.71	18	$855	100%	26%	HP-HP-5	13%	25%	2.9	11.2	5.7
4073	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	NLI	MO	8,952	28%	2,517	0.68	0.95	18	$1,081	100%	28%	HP-HP-1	11%	52%	3.1	11.1	6.1
4074	HVAC	ASHP-SEER19_ROF_SF	PAYS	SF	LI	MO	8,952	28%	2,517	0.68	0.95	18	$1,081	100%	100%	HP-HP-2	11%	52%	1.4	1.4	3.5
4075	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	N/A	NC	8,952	28%	2,517	0.68	0.95	18	$1,081	100%	28%	HP-HP-3	11%	0%	3.1	11.1	6.1
4076	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER1	11,090	55%	6,139	1.65	2.32	6	$1,078	100%	100%	HP-HP-1	11%	52%	1.5	1.5	3.3
4077	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER2	11,090	27%	2,980	0.80	1.13	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4078	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER3	11,090	27%	2,980	0.80	1.13	18	$1,081	100%	100%	HP-HP-1	11%	52%	3.7	3.7	7.9

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4079	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER1	11,090	55%	6,139	1.65	2.32	6	$1,078	100%	100%	HP-HP-2	11%	52%	1.5	1.5	3.3
4080	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER2	11,090	27%	2,980	0.80	1.13	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4081	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER3	11,090	27%	2,980	0.80	1.13	18	$1,081	100%	100%	HP-HP-2	11%	52%	3.7	3.7	7.9
4082	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	NLI	MO	6,986	23%	1,592	0.43	0.60	18	$1,081	100%	18%	HP-HP-4	10%	25%	2.0	11.1	3.8
4083	HVAC	ASHP-SEER19_ROF_MF	PAYS	MF	LI	MO	6,986	23%	1,592	0.43	0.60	18	$1,081	100%	100%	HP-HP-5	13%	25%	0.9	0.9	2.6
4084	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	N/A	NC	6,986	23%	1,592	0.43	0.60	18	$1,081	100%	18%	HP-HP-6	12%	0%	2.0	11.1	3.8
4085	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER1	12,773	26%	3,307	0.89	1.25	6	$1,078	100%	100%	HP-HP-4	10%	25%	0.8	0.8	2.2
4086	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER2	12,773	11%	1,468	0.39	0.56	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4087	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER3	12,773	11%	1,468	0.39	0.56	18	$1,081	100%	100%	HP-HP-4	10%	25%	1.8	1.8	4.4
4088	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER1	12,773	26%	3,307	0.89	1.25	6	$1,078	100%	37%	HP-HP-5	13%	25%	1.9	5.3	3.2
4089	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER2	12,773	11%	1,468	0.39	0.56	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4090	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER3	12,773	11%	1,468	0.39	0.56	18	$1,081	100%	16%	HP-HP-5	13%	25%	1.8	11.2	3.5
4091	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	NLI	MO	8,952	29%	2,597	0.70	0.98	18	$1,081	100%	29%	HP-HP-1	11%	52%	3.2	11.1	6.3
4092	HVAC	ASHP-SEER20_ROF_SF	PAYS	SF	LI	MO	8,952	29%	2,597	0.70	0.98	18	$1,081	100%	100%	HP-HP-2	11%	52%	1.4	1.4	3.6
4093	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	N/A	NC	8,952	29%	2,597	0.70	0.98	18	$1,081	100%	29%	HP-HP-3	11%	0%	3.2	11.1	6.3
4094	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER1	11,090	44%	4,830	1.30	1.83	6	$1,078	100%	100%	HP-HP-1	11%	52%	1.2	1.2	2.8
4095	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER2	11,090	21%	2,323	0.62	0.88	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4096	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER3	11,090	21%	2,323	0.62	0.88	18	$1,081	100%	100%	HP-HP-1	11%	52%	2.9	2.9	6.3
4097	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER1	11,090	44%	4,830	1.30	1.83	6	$1,078	100%	100%	HP-HP-2	11%	52%	1.2	1.2	2.8
4098	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER2	11,090	21%	2,323	0.62	0.88	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4099	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER3	11,090	21%	2,323	0.62	0.88	18	$1,081	100%	100%	HP-HP-2	11%	52%	2.9	2.9	6.3
4100	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	NLI	MO	6,986	24%	1,651	0.44	0.62	18	$1,081	100%	18%	HP-HP-4	10%	25%	2.1	11.1	4.0
4101	HVAC	ASHP-SEER20_ROF_MF	PAYS	MF	LI	MO	6,986	24%	1,651	0.44	0.62	18	$1,081	100%	100%	HP-HP-5	13%	25%	0.9	0.9	2.6
4102	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	N/A	NC	6,986	24%	1,651	0.44	0.62	18	$1,081	100%	18%	HP-HP-6	12%	0%	2.1	11.1	4.0
4103	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER1	12,773	26%	3,366	0.90	1.27	6	$1,078	100%	100%	HP-HP-4	10%	25%	0.8	0.8	2.3
4104	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER2	12,773	12%	1,527	0.41	0.58	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4105	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER3	12,773	12%	1,527	0.41	0.58	18	$1,081	100%	100%	HP-HP-4	10%	25%	1.9	1.9	4.5
4106	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER1	12,773	26%	3,366	0.90	1.27	6	$1,078	100%	37%	HP-HP-5	13%	25%	2.0	5.3	3.3
4107	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER2	12,773	12%	1,527	0.41	0.58	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4108	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER3	12,773	12%	1,527	0.41	0.58	18	$1,081	100%	17%	HP-HP-5	13%	25%	1.9	11.2	3.7
4109	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	NLI	MO	8,952	36%	3,254	0.87	1.23	18	$1,081	100%	36%	HP-HP-1	11%	52%	4.0	11.1	7.8
4110	HVAC	ASHP-SEER21_ROF_SF	PAYS	SF	LI	MO	8,952	36%	3,254	0.87	1.23	18	$1,081	100%	100%	HP-HP-2	11%	52%	1.7	1.7	4.2
4111	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	N/A	NC	8,952	36%	3,254	0.87	1.23	18	$1,081	100%	36%	HP-HP-3	11%	0%	4.0	11.1	7.8
4112	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER1	11,090	54%	6,040	1.62	2.28	6	$1,078	100%	100%	HP-HP-1	11%	52%	1.5	1.5	3.2
4113	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER2	11,090	29%	3,226	0.87	1.22	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4114	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER3	11,090	29%	3,226	0.87	1.22	18	$1,081	100%	100%	HP-HP-1	11%	52%	4.0	4.0	8.4
4115	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER1	11,090	54%	6,040	1.62	2.28	6	$1,078	100%	100%	HP-HP-2	11%	52%	1.5	1.5	3.2
4116	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER2	11,090	29%	3,226	0.87	1.22	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4117	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER3	11,090	29%	3,226	0.87	1.22	18	$1,081	100%	100%	HP-HP-2	11%	52%	4.0	4.0	8.4
4118	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	NLI	MO	6,986	24%	1,704	0.46	0.64	18	$1,081	100%	19%	HP-HP-4	10%	25%	2.1	11.1	4.1
4119	HVAC	ASHP-SEER21_ROF_MF	PAYS	MF	LI	MO	6,986	24%	1,704	0.46	0.64	18	$1,081	100%	100%	HP-HP-5	13%	25%	0.9	0.9	2.7
4120	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	N/A	NC	6,986	24%	1,704	0.46	0.64	18	$1,081	100%	19%	HP-HP-6	12%	0%	2.1	11.1	4.1
4121	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER1	12,773	27%	3,419	0.92	1.29	6	$1,078	100%	100%	HP-HP-4	10%	25%	0.9	0.9	2.3
4122	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER2	12,773	12%	1,580	0.42	0.60	12	$0	100%	35%	HP-HP-4	10%	25%	#DIV/0!	1.0	#DIV/0!
4123	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER3	12,773	12%	1,580	0.42	0.60	18	$1,081	100%	100%	HP-HP-4	10%	25%	2.0	2.0	4.6
4124	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER1	12,773	27%	3,419	0.92	1.29	6	$1,078	100%	38%	HP-HP-5	13%	25%	2.0	5.3	3.3
4125	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER2	12,773	12%	1,580	0.42	0.60	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4126	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER3	12,773	12%	1,580	0.42	0.60	18	$1,081	100%	18%	HP-HP-5	13%	25%	2.0	11.2	3.8
4127	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	NLI	MO	12,432	50%	6,216	1.67	2.35	18	$7,509	100%	10%	HP-HP-1	11%	52%	1.1	11.1	2.2
4128	HVAC	GSHP-EER23_ROF_SF	PAYS	SF	LI	MO	12,432	50%	6,216	1.67	2.35	18	$7,509	100%	67%	HP-HP-2	11%	52%	1.1	1.7	2.7
4129	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	N/A	NC	12,432	50%	6,216	1.67	2.35	18	$7,509	100%	10%	HP-HP-3	11%	0%	1.1	11.1	2.2
4130	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER1	11,090	82%	9,060	2.43	3.43	6	$6,249	100%	80%	HP-HP-1	11%	52%	0.9	1.1	2.1
4131	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER2	11,090	54%	6,042	1.62	2.29	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4132	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER3	11,090	54%	6,042	1.62	2.29	18	$7,509	100%	100%	HP-HP-1	11%	52%	1.1	1.1	3.0
4133	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER1	11,090	82%	9,060	2.43	3.43	6	$6,249	100%	80%	HP-HP-2	11%	52%	0.9	1.1	2.1
4134	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER2	11,090	54%	6,042	1.62	2.29	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4135	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER3	11,090	54%	6,042	1.62	2.29	18	$7,509	100%	100%	HP-HP-2	11%	52%	1.1	1.1	3.0
4136	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	NLI	MO	5,568	17%	944	0.25	0.36	18	$1,081	100%	11%	HP-HP-4	10%	25%	1.2	11.1	2.3
4137	HVAC	DFHP-SEER19-ROF_MF	MFIE	MF	LI	MO	5,568	17%	944	0.25	0.36	18	$1,081	100%	52%	HP-HP-5	13%	25%	1.2	2.2	2.7
4138	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	N/A	NC	5,568	17%	944	0.25	0.36	18	$1,081	100%	11%	HP-HP-6	12%	0%	1.2	11.1	2.3

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4139	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	NLI	MO	5,568	26%	1,470	0.40	0.56	18	$1,081	100%	16%	HP-HP-4	10%	25%	1.8	11.1	3.5
4140	HVAC	DFHP-SEER20-ROF_MF	MFIE	MF	LI	MO	5,568	26%	1,470	0.40	0.56	18	$1,081	100%	82%	HP-HP-5	13%	25%	1.8	2.2	4.2
4141	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	N/A	NC	5,568	26%	1,470	0.40	0.56	18	$1,081	100%	16%	HP-HP-6	12%	0%	1.8	11.1	3.5
4142	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	NLI	MO	5,568	37%	2,085	0.56	0.79	18	$1,081	100%	23%	HP-HP-4	10%	25%	2.6	11.1	5.0
4143	HVAC	DFHP-SEER21-ROF_MF	MFIE	MF	LI	MO	5,568	37%	2,085	0.56	0.79	18	$1,081	100%	100%	HP-HP-5	13%	25%	2.2	2.2	5.1
4144	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	N/A	NC	5,568	37%	2,085	0.56	0.79	18	$1,081	100%	23%	HP-HP-6	12%	0%	2.6	11.1	5.0
4145	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	NLI	MO	3,401	34%	1,169	0.31	0.44	18	$544	100%	26%	HP-HP-1	11%	52%	2.9	11.1	5.6
4146	HVAC	Mini/MultiSplitASHP_ROF_SF	SFIE	SF	LI	MO	3,401	34%	1,169	0.31	0.44	18	$544	100%	100%	HP-HP-2	11%	52%	0.5	0.5	1.9
4147	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	N/A	NC	3,401	34%	1,169	0.31	0.44	18	$544	100%	26%	HP-HP-3	11%	0%	2.9	11.1	5.6
4148	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER1	11,090	24%	2,614	0.70	0.99	6	$684	100%	100%	HP-HP-1	11%	52%	1.6	1.6	3.4
4149	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER2	11,090	12%	1,384	0.37	0.52	12	$0	100%	35%	HP-HP-1	11%	52%	#DIV/0!	1.0	#DIV/0!
4150	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER3	11,090	12%	1,384	0.37	0.52	18	$544	100%	100%	HP-HP-1	11%	52%	3.4	3.4	7.3
4151	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER1	11,090	24%	2,614	0.70	0.99	6	$684	100%	100%	HP-HP-2	11%	52%	0.5	0.5	1.8
4152	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER2	11,090	12%	1,384	0.37	0.52	12	$0	100%	35%	HP-HP-2	11%	52%	#DIV/0!	1.0	#DIV/0!
4153	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER3	11,090	12%	1,384	0.37	0.52	18	$544	100%	37%	HP-HP-2	11%	52%	3.4	9.3	6.7
4154	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	NLI	MO	3,845	26%	982	0.26	0.37	18	$668	100%	18%	HP-HP-4	10%	25%	2.0	11.1	3.8
4155	HVAC	Mini/MultiSplitASHP_ROF_MF	PAYS	MF	LI	MO	3,845	26%	982	0.26	0.37	18	$668	100%	100%	HP-HP-5	13%	25%	1.3	1.3	3.4
4156	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	N/A	NC	3,845	26%	982	0.26	0.37	18	$668	100%	18%	HP-HP-6	12%	0%	2.0	11.1	3.8
4157	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER1	12,773	23%	2,937	0.79	1.11	6	$1,381	100%	50%	HP-HP-4	10%	25%	1.3	2.7	2.5
4158	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER2	12,773	11%	1,345	0.36	0.51	12	$0	100%	35%	HP-HP-5	10%	25%	#DIV/0!	1.0	#DIV/0!
4159	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER3	12,773	11%	1,345	0.36	0.51	18	$668	100%	100%	HP-HP-6	10%	25%	2.7	2.7	6.0
4160	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER1	12,773	23%	2,937	0.79	1.11	6	$1,381	100%	72%	HP-HP-4	13%	25%	1.3	1.9	2.7
4161	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER2	12,773	11%	1,345	0.36	0.51	12	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4162	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER3	12,773	11%	1,345	0.36	0.51	18	$668	100%	24%	HP-HP-6	13%	25%	2.7	11.2	5.2
4163	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	NLI	MO	1,842	7%	128	0.03	0.05	15	$85	100%	18%	HP-HP-4	10%	25%	1.8	9.9	3.4
4164	HVAC	PTHP-SEER12-ROF_MF	MFIE	MF	LI	MO	1,842	7%	128	0.03	0.05	15	$85	100%	100%	HP-HP-5	13%	25%	0.1	0.1	1.2
4165	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	N/A	NC	1,842	7%	128	0.03	0.05	15	$85	100%	18%	HP-HP-6	12%	0%	1.8	9.9	3.4
4166	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER1	3,403	50%	1,689	0.45	0.64	5	$225	100%	50%	HP-HP-4	10%	25%	4.1	8.3	6.3
4167	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER2	3,403	4%	128	0.03	0.05	10	$0	100%	35%	HP-HP-5	10%	25%	#DIV/0!	1.0	#DIV/0!
4168	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER3	3,403	4%	128	0.03	0.05	15	$85	100%	100%	HP-HP-6	10%	25%	1.8	1.8	4.2
4169	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER1	3,403	50%	1,689	0.45	0.64	5	$225	100%	100%	HP-HP-4	13%	25%	0.2	0.2	1.2
4170	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER2	3,403	4%	128	0.03	0.05	10	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4171	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER3	3,403	4%	128	0.03	0.05	15	$85	100%	100%	HP-HP-6	13%	25%	0.1	0.1	1.2
4172	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	NLI	MO	1,842	11%	195	0.05	0.07	15	$85	100%	28%	HP-HP-4	10%	25%	2.7	9.9	5.2
4173	HVAC	PTHP-SEER13-ROF_MF	MFIE	MF	LI	MO	1,842	11%	195	0.05	0.07	15	$85	100%	100%	HP-HP-5	13%	25%	0.2	0.2	1.3
4174	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	N/A	NC	1,842	11%	195	0.05	0.07	15	$85	100%	28%	HP-HP-6	12%	0%	2.7	9.9	5.2
4175	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER1	3,403	52%	1,756	0.47	0.66	5	$225	100%	50%	HP-HP-4	10%	25%	4.3	8.6	6.5
4176	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER2	3,403	6%	195	0.05	0.07	10	$0	100%	35%	HP-HP-5	10%	25%	#DIV/0!	1.0	#DIV/0!
4177	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER3	3,403	6%	195	0.05	0.07	15	$85	100%	100%	HP-HP-6	10%	25%	2.7	2.7	5.9
4178	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER1	3,403	52%	1,756	0.47	0.66	5	$225	100%	100%	HP-HP-4	13%	25%	0.2	0.2	1.3
4179	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER2	3,403	6%	195	0.05	0.07	10	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4180	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER3	3,403	6%	195	0.05	0.07	15	$85	100%	100%	HP-HP-6	13%	25%	0.2	0.2	1.3
4181	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	NLI	MO	1,842	15%	276	0.07	0.10	15	$85	100%	39%	HP-HP-4	10%	25%	3.9	9.9	7.4
4182	HVAC	PTHP-SEER14-ROF_MF	MFIE	MF	LI	MO	1,842	15%	276	0.07	0.10	15	$85	100%	100%	HP-HP-5	13%	25%	0.3	0.3	1.5
4183	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	N/A	NC	1,842	15%	276	0.07	0.10	15	$85	100%	39%	HP-HP-6	12%	0%	3.9	9.9	7.4
4184	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER1	3,403	54%	1,837	0.49	0.69	5	$225	100%	50%	HP-HP-4	10%	25%	4.5	9.0	6.8
4185	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER2	3,403	8%	276	0.07	0.10	10	$0	100%	35%	HP-HP-5	10%	25%	#DIV/0!	1.0	#DIV/0!
4186	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER3	3,403	8%	276	0.07	0.10	15	$85	100%	100%	HP-HP-6	10%	25%	3.9	3.9	8.0
4187	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER1	3,403	54%	1,837	0.49	0.69	5	$225	100%	100%	HP-HP-4	13%	25%	0.2	0.2	1.3
4188	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER2	3,403	8%	276	0.07	0.10	10	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4189	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER3	3,403	8%	276	0.07	0.10	15	$85	100%	100%	HP-HP-6	13%	25%	0.3	0.3	1.5
4190	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	NLI	MO	1,842	19%	351	0.09	0.13	15	$85	100%	50%	HP-HP-4	10%	25%	5.0	9.9	9.4
4191	HVAC	PTHP-SEER15-ROF_MF	MFIE	MF	LI	MO	1,842	19%	351	0.09	0.13	15	$85	100%	100%	HP-HP-5	13%	25%	0.3	0.3	1.6
4192	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	N/A	NC	1,842	19%	351	0.09	0.13	15	$85	100%	50%	HP-HP-6	12%	0%	5.0	9.9	9.4
4193	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER1	3,403	56%	1,913	0.51	0.72	5	$225	100%	50%	HP-HP-4	10%	25%	4.7	9.4	7.1
4194	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER2	3,403	10%	351	0.09	0.13	10	$0	100%	35%	HP-HP-5	10%	25%	#DIV/0!	1.0	#DIV/0!
4195	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER3	3,403	10%	351	0.09	0.13	15	$85	100%	100%	HP-HP-6	10%	25%	5.0	5.0	9.9
4196	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER1	3,403	56%	1,913	0.51	0.72	5	$225	100%	100%	HP-HP-4	13%	25%	0.2	0.2	1.3
4197	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER2	3,403	10%	351	0.09	0.13	10	$0	100%	35%	HP-HP-5	13%	25%	#DIV/0!	1.0	#DIV/0!
4198	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER3	3,403	10%	351	0.09	0.13	15	$85	100%	100%	HP-HP-6	13%	25%	0.3	0.3	1.6

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4199	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	54%	9,233	1.02	4.31	18	$3,335	100%	75%	HP-EF-1	21%	0%	3.4	4.5	7.6
4200	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	54%	9,233	1.02	4.31	18	$3,335	100%	37%	HP-EF-2	30%	0%	3.4	9.0	7.3
4201	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	54%	9,233	1.02	4.31	18	$3,335	100%	75%	HP-EF-3	24%	0%	3.4	4.5	7.6
4202	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	58%	10,304	1.14	4.81	6	$3,236	100%	77%	HP-EF-1	21%	0%	2.0	2.6	3.7
4203	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	49%	8,566	0.95	4.00	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4204	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	49%	8,566	0.95	4.00	18	$3,335	100%	75%	HP-EF-3	21%	0%	3.1	4.2	7.1
4205	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	58%	10,304	1.14	4.81	6	$3,236	100%	100%	HP-EF-2	30%	0%	1.3	1.3	2.9
4206	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	49%	8,566	0.95	4.00	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4207	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	49%	8,566	0.95	4.00	18	$3,335	100%	37%	HP-EF-2	30%	0%	3.1	8.4	6.8
4208	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	53%	7,091	0.78	3.31	18	$2,961	100%	84%	HP-EF-4	57%	0%	2.9	3.5	6.8
4209	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	53%	7,091	0.78	3.31	18	$2,961	100%	84%	HP-EF-5	53%	0%	2.9	3.5	6.8
4210	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	53%	7,091	0.78	3.31	18	$2,961	100%	84%	HP-EF-6	55%	0%	2.9	3.5	6.8
4211	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	60%	12,288	1.36	5.74	6	$3,477	100%	72%	HP-EF-4	57%	0%	2.2	3.1	4.0
4212	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	50%	10,195	1.13	4.76	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4213	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	50%	10,195	1.13	4.76	18	$2,961	100%	84%	HP-EF-4	57%	0%	4.2	5.0	9.4
4214	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	60%	12,288	1.36	5.74	6	$3,477	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4215	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	50%	10,195	1.13	4.76	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4216	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	50%	10,195	1.13	4.76	18	$2,961	100%	100%	HP-EF-5	53%	0%	4.2	4.2	9.6
4217	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	56%	9,568	1.06	4.47	18	$3,623	100%	69%	HP-EF-1	21%	0%	3.2	4.7	7.3
4218	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	56%	9,568	1.06	4.47	18	$3,623	100%	34%	HP-EF-2	30%	0%	3.2	9.4	6.9
4219	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	56%	9,568	1.06	4.47	18	$3,623	100%	69%	HP-EF-3	24%	0%	3.2	4.7	7.3
4220	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	60%	10,496	1.16	4.90	6	$3,497	100%	71%	HP-EF-1	21%	0%	1.9	2.6	3.5
4221	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	50%	8,734	0.97	4.08	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4222	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	50%	8,734	0.97	4.08	18	$3,623	100%	69%	HP-EF-3	21%	0%	2.9	4.3	6.7
4223	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	60%	10,496	1.16	4.90	6	$3,497	100%	100%	HP-EF-2	30%	0%	1.3	1.3	2.9
4224	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	50%	8,734	0.97	4.08	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4225	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	50%	8,734	0.97	4.08	18	$3,623	100%	34%	HP-EF-2	30%	0%	2.9	8.5	6.3
4226	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	56%	7,587	0.84	3.55	18	$3,277	100%	76%	HP-EF-4	57%	0%	2.8	3.7	6.5
4227	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	56%	7,587	0.84	3.55	18	$3,277	100%	76%	HP-EF-5	53%	0%	2.8	3.7	6.5
4228	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	56%	7,587	0.84	3.55	18	$3,277	100%	76%	HP-EF-6	55%	0%	2.8	3.7	6.5
4229	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	57%	11,534	1.28	5.39	6	$3,682	100%	68%	HP-EF-4	57%	0%	2.0	2.9	3.6
4230	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	48%	9,846	1.09	4.60	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4231	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	48%	9,846	1.09	4.60	18	$123	100%	100%	HP-EF-4	57%	0%	4.8	4.8	10.8
4232	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	57%	11,534	1.28	5.39	6	$3,682	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4233	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	48%	9,846	1.09	4.60	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4234	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	48%	9,846	1.09	4.60	18	$123	100%	100%	HP-EF-5	53%	0%	98.0	98.0	200.2
4235	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	66%	11,305	1.25	5.28	18	$4,073	100%	61%	HP-EF-1	21%	0%	3.4	5.5	7.5
4236	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	66%	11,305	1.25	5.28	18	$4,073	100%	31%	HP-EF-2	30%	0%	3.4	11.1	7.2
4237	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	66%	11,305	1.25	5.28	18	$4,073	100%	61%	HP-EF-3	24%	0%	3.4	5.5	7.5
4238	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	64%	11,188	1.24	5.23	6	$3,784	100%	66%	HP-EF-1	21%	0%	1.9	2.8	3.4
4239	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	54%	9,473	1.05	4.43	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4240	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	54%	9,473	1.05	4.43	18	$4,073	100%	61%	HP-EF-3	21%	0%	2.8	4.6	6.4
4241	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	64%	11,188	1.24	5.23	6	$3,784	100%	100%	HP-EF-2	30%	0%	1.4	1.4	3.0
4242	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	54%	9,473	1.05	4.43	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4243	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	54%	9,473	1.05	4.43	18	$4,073	100%	31%	HP-EF-2	30%	0%	2.8	9.3	6.1
4244	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	48%	6,513	0.72	3.04	18	$3,238	100%	77%	HP-EF-4	57%	0%	2.5	3.2	5.8
4245	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	48%	6,513	0.72	3.04	18	$3,238	100%	77%	HP-EF-5	53%	0%	2.5	3.2	5.8
4246	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	48%	6,513	0.72	3.04	18	$3,238	100%	77%	HP-EF-6	55%	0%	2.5	3.2	5.8
4247	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	40%	8,046	0.89	3.76	6	$3,397	100%	74%	HP-EF-4	57%	0%	1.5	2.0	2.9
4248	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	35%	7,092	0.78	3.31	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4249	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	35%	7,092	0.78	3.31	18	$3,238	100%	77%	HP-EF-4	57%	0%	2.7	3.5	6.2
4250	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	40%	8,046	0.89	3.76	6	$3,397	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4251	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	35%	7,092	0.78	3.31	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4252	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	35%	7,092	0.78	3.31	18	$3,238	100%	100%	HP-EF-5	53%	0%	2.7	2.7	6.4
4253	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	64%	11,059	1.22	5.17	18	$4,172	100%	60%	HP-EF-1	21%	0%	3.2	5.4	7.2
4254	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	64%	11,059	1.22	5.17	18	$4,172	100%	30%	HP-EF-2	30%	0%	3.2	10.8	6.9
4255	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	64%	11,059	1.22	5.17	18	$4,172	100%	60%	HP-EF-3	24%	0%	3.2	5.4	7.2
4256	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	72%	12,644	1.40	5.91	6	$4,148	100%	60%	HP-EF-1	21%	0%	1.9	3.2	3.4
4257	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	61%	10,718	1.19	5.01	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4258	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	61%	10,718	1.19	5.01	18	$4,172	100%	60%	HP-EF-3	21%	0%	3.1	5.2	7.0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4259	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	72%	12,644	1.40	5.91	6	$4,148	100%	100%	HP-EF-2	30%	0%	1.5	1.5	3.3
4260	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	61%	10,718	1.19	5.01	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4261	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	61%	10,718	1.19	5.01	18	$4,172	100%	30%	HP-EF-2	30%	0%	3.1	10.5	6.7
4262	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	80%	10,721	1.19	5.01	18	$4,171	100%	60%	HP-EF-4	57%	0%	3.1	5.2	7.0
4263	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	80%	10,721	1.19	5.01	18	$4,171	100%	60%	HP-EF-5	53%	0%	3.1	5.2	7.0
4264	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	80%	10,721	1.19	5.01	18	$4,171	100%	60%	HP-EF-6	55%	0%	3.1	5.2	7.0
4265	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	36%	7,222	0.80	3.37	6	$3,313	100%	75%	HP-EF-4	57%	0%	1.4	1.8	2.8
4266	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	27%	5,502	0.61	2.57	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4267	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	27%	5,502	0.61	2.57	18	$4,171	100%	60%	HP-EF-4	57%	0%	1.6	2.7	3.9
4268	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	36%	7,222	0.80	3.37	6	$3,313	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4269	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	27%	5,502	0.61	2.57	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4270	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	27%	5,502	0.61	2.57	18	$4,171	100%	100%	HP-EF-5	53%	0%	1.6	1.6	4.3
4271	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	66%	11,280	1.25	5.27	18	$4,392	100%	57%	HP-EF-1	21%	0%	3.1	5.5	7.0
4272	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	66%	11,280	1.25	5.27	18	$4,392	100%	28%	HP-EF-2	30%	0%	3.1	11.0	6.7
4273	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	66%	11,280	1.25	5.27	18	$4,392	100%	57%	HP-EF-3	24%	0%	3.1	5.5	7.0
4274	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	89%	15,708	1.74	7.34	6	$4,903	100%	51%	HP-EF-1	21%	0%	2.0	3.9	3.5
4275	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	79%	13,988	1.55	6.54	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4276	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	79%	13,988	1.55	6.54	18	$4,392	100%	57%	HP-EF-3	21%	0%	3.9	6.8	8.5
4277	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	89%	15,708	1.74	7.34	6	$4,903	100%	100%	HP-EF-2	30%	0%	1.9	1.9	3.9
4278	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	79%	13,988	1.55	6.54	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4279	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	79%	13,988	1.55	6.54	18	$4,392	100%	28%	HP-EF-2	30%	0%	3.9	13.7	8.2
4280	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	50%	6,656	0.74	3.11	18	$3,689	100%	68%	HP-EF-4	57%	0%	2.2	3.3	5.2
4281	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	50%	6,656	0.74	3.11	18	$3,689	100%	68%	HP-EF-5	53%	0%	2.2	3.3	5.2
4282	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	50%	6,656	0.74	3.11	18	$3,689	100%	68%	HP-EF-6	55%	0%	2.2	3.3	5.2
4283	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	40%	8,176	0.90	3.82	6	$3,848	100%	65%	HP-EF-4	57%	0%	1.3	2.1	2.6
4284	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	36%	7,222	0.80	3.37	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4285	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	36%	7,222	0.80	3.37	18	$3,689	100%	68%	HP-EF-4	57%	0%	2.4	3.5	5.5
4286	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	40%	8,176	0.90	3.82	6	$3,848	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4287	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	36%	7,222	0.80	3.37	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4288	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	36%	7,222	0.80	3.37	18	$3,689	100%	100%	HP-EF-5	53%	0%	2.4	2.4	5.9
4289	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	64%	11,041	1.22	5.16	18	$4,329	100%	58%	HP-EF-1	21%	0%	3.1	5.4	6.9
4290	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	64%	11,041	1.22	5.16	18	$4,329	100%	29%	HP-EF-2	30%	0%	3.1	10.8	6.6
4291	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	64%	11,041	1.22	5.16	18	$4,329	100%	58%	HP-EF-3	24%	0%	3.1	5.4	6.9
4292	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	65%	11,382	1.26	5.32	6	$4,189	100%	60%	HP-EF-1	21%	0%	1.7	2.9	3.1
4293	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	56%	9,883	1.09	4.62	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4294	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	56%	9,883	1.09	4.62	18	$4,329	100%	58%	HP-EF-3	21%	0%	2.8	4.8	6.3
4295	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	65%	11,382	1.26	5.32	6	$4,189	100%	100%	HP-EF-2	30%	0%	1.4	1.4	3.1
4296	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	56%	9,883	1.09	4.62	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4297	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	56%	9,883	1.09	4.62	18	$4,329	100%	29%	HP-EF-2	30%	0%	2.8	9.7	6.0
4298	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	57%	7,635	0.84	3.57	18	$3,845	100%	65%	HP-EF-4	57%	0%	2.4	3.7	5.6
4299	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	57%	7,635	0.84	3.57	18	$3,845	100%	65%	HP-EF-5	53%	0%	2.4	3.7	5.6
4300	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	57%	7,635	0.84	3.57	18	$3,845	100%	65%	HP-EF-6	55%	0%	2.4	3.7	5.6
4301	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	41%	8,232	0.91	3.85	6	$3,848	100%	65%	HP-EF-4	57%	0%	1.3	2.1	2.6
4302	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	36%	7,277	0.81	3.40	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4303	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	36%	7,277	0.81	3.40	18	$3,845	100%	65%	HP-EF-4	57%	0%	2.3	3.6	5.4
4304	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	41%	8,232	0.91	3.85	6	$3,848	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4305	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	36%	7,277	0.81	3.40	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4306	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	36%	7,277	0.81	3.40	18	$3,845	100%	100%	HP-EF-5	53%	0%	2.3	2.3	5.7
4307	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	17,158	78%	13,377	1.48	6.25	18	$4,679	100%	53%	HP-EF-1	21%	0%	3.5	6.5	7.6
4308	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17,158	78%	13,377	1.48	6.25	18	$4,679	100%	27%	HP-EF-2	30%	0%	3.5	13.1	7.4
4309	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	17,158	78%	13,377	1.48	6.25	18	$4,679	100%	53%	HP-EF-3	24%	0%	3.5	6.5	7.6
4310	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	17,615	82%	14,521	1.61	6.78	6	$4,645	100%	54%	HP-EF-1	21%	0%	2.0	3.6	3.4
4311	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	17,615	74%	12,986	1.44	6.07	12	$0	100%	35%	HP-EF-2	21%	0%	#DIV/0!	1.0	#DIV/0!
4312	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	17,615	74%	12,986	1.44	6.07	18	$4,679	100%	53%	HP-EF-3	21%	0%	3.4	6.4	7.4
4313	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	17,615	82%	14,521	1.61	6.78	6	$4,645	100%	100%	HP-EF-2	30%	0%	1.8	1.8	3.6
4314	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	17,615	74%	12,986	1.44	6.07	12	$0	100%	35%	HP-EF-2	30%	0%	#DIV/0!	1.0	#DIV/0!
4315	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	17,615	74%	12,986	1.44	6.07	18	$4,679	100%	27%	HP-EF-2	30%	0%	3.4	12.7	7.2
4316	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13,440	50%	6,726	0.74	3.14	18	$3,689	100%	68%	HP-EF-4	57%	0%	2.2	3.3	5.2
4317	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	13,440	50%	6,726	0.74	3.14	18	$3,689	100%	68%	HP-EF-5	53%	0%	2.2	3.3	5.2
4318	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	13,440	50%	6,726	0.74	3.14	18	$3,689	100%	68%	HP-EF-6	55%	0%	2.2	3.3	5.2

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4319	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	20,314	41%	8,282	0.92	3.87	6	$3,848	100%	65%	HP-EF-4	57%	0%	1.4	2.1	2.7
4320	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	20,314	36%	7,327	0.81	3.42	12	$0	100%	35%	HP-EF-4	57%	0%	#DIV/0!	1.0	#DIV/0!
4321	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	20,314	36%	7,327	0.81	3.42	18	$3,689	100%	68%	HP-EF-4	57%	0%	2.4	3.6	5.6
4322	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	20,314	41%	8,282	0.92	3.87	6	$3,848	100%	100%	HP-EF-5	53%	0%	0.8	0.8	2.2
4323	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	20,314	36%	7,327	0.81	3.42	12	$0	100%	35%	HP-EF-5	53%	0%	#DIV/0!	1.0	#DIV/0!
4324	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	20,314	36%	7,327	0.81	3.42	18	$3,689	100%	100%	HP-EF-5	53%	0%	2.4	2.4	5.9
4325	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	NLI	MO	24,047	74%	17,830	1.97	8.33	18	$10,390	100%	21%	HP-EF-1	57%	0%	2.1	10.1	4.5
4326	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	MFIE	MF	LI	MO	24,047	74%	17,830	1.97	8.33	18	$10,390	100%	48%	HP-EF-2	53%	0%	2.1	4.4	4.7
4327	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	N/A	NC	24,047	74%	17,830	1.97	8.33	18	$10,390	100%	21%	HP-EF-3	55%	0%	2.1	10.1	4.5
4328	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER1	21,964	93%	20,510	2.27	9.58	6	$10,006	100%	50%	HP-EF-1	57%	0%	1.3	2.6	2.4
4329	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER2	21,964	79%	17,342	1.92	8.10	12	$0	100%	35%	HP-EF-2	57%	0%	#DIV/0!	1.0	#DIV/0!
4330	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER3	21,964	79%	17,342	1.92	8.10	18	$10,390	100%	100%	HP-EF-3	57%	0%	2.0	2.0	5.1
4331	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER1	21,964	93%	20,510	2.27	9.58	6	$10,006	100%	100%	HP-EF-2	53%	0%	0.8	0.8	2.2
4332	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER2	21,964	79%	17,342	1.92	8.10	12	$0	100%	35%	HP-EF-2	53%	0%	#DIV/0!	1.0	#DIV/0!
4333	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER3	21,964	79%	17,342	1.92	8.10	18	$10,390	100%	100%	HP-EF-2	53%	0%	2.0	2.0	5.1
4334	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	6,675	67%	4,443	0.49	2.08	18	$544	100%	100%	HP-EF-1	21%	52%	3.6	3.6	8.4
4335	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	6,675	67%	4,443	0.49	2.08	18	$544	100%	100%	HP-EF-2	30%	52%	1.6	1.6	4.3
4336	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	6,675	67%	4,443	0.49	2.08	18	$544	100%	100%	HP-EF-3	24%	0%	3.6	3.6	8.4
4337	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	8,643	68%	5,898	0.65	2.76	6	$627	100%	100%	HP-EF-1	21%	52%	2.5	2.5	4.7
4338	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	8,643	60%	5,170	0.57	2.42	12	$0	100%	35%	HP-EF-2	21%	52%	#DIV/0!	1.0	#DIV/0!
4339	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	8,643	60%	5,170	0.57	2.42	18	$544	100%	100%	HP-EF-3	21%	52%	4.2	4.2	9.6
4340	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	8,643	68%	5,898	0.65	2.76	6	$627	100%	100%	HP-EF-2	30%	52%	1.1	1.1	2.6
4341	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	8,643	60%	5,170	0.57	2.42	12	$0	100%	35%	HP-EF-2	30%	52%	#DIV/0!	1.0	#DIV/0!
4342	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	8,643	60%	5,170	0.57	2.42	18	$544	100%	100%	HP-EF-2	30%	52%	1.9	1.9	4.8
4343	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	6,492	63%	4,097	0.45	1.91	18	$668	100%	100%	HP-EF-1	57%	25%	5.0	5.0	11.2
4344	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	LI	MO	6,492	63%	4,097	0.45	1.91	18	$668	100%	100%	HP-EF-2	53%	25%	5.0	5.0	11.2
4345	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	6,492	63%	4,097	0.45	1.91	18	$668	100%	100%	HP-EF-3	55%	0%	5.0	5.0	11.2
4346	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	9,167	70%	6,438	0.71	3.01	6	$1,320	100%	76%	HP-EF-1	57%	25%	3.1	4.0	5.3
4347	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	9,167	62%	5,682	0.63	2.65	12	$0	100%	35%	HP-EF-2	57%	25%	#DIV/0!	1.0	#DIV/0!
4348	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	9,167	62%	5,682	0.63	2.65	18	$668	100%	100%	HP-EF-3	57%	25%	6.9	6.9	15.1
4349	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER1	9,167	70%	6,438	0.71	3.01	6	$1,320	100%	76%	HP-EF-2	53%	25%	3.1	4.0	5.3
4350	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER2	9,167	62%	5,682	0.63	2.65	12	$0	100%	35%	HP-EF-2	53%	25%	#DIV/0!	1.0	#DIV/0!
4351	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER3	9,167	62%	5,682	0.63	2.65	18	$668	100%	100%	HP-EF-2	53%	25%	10.2	10.2	21.7
4352	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	4,340	61%	2,627	0.29	1.23	15	$85	100%	100%	HP-EF-1	57%	0%	9.1	9.1	18.7
4353	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	4,340	61%	2,627	0.29	1.23	15	$85	100%	100%	HP-EF-2	53%	0%	2.3	2.3	5.5
4354	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	4,340	61%	2,627	0.29	1.23	15	$85	100%	100%	HP-EF-3	55%	0%	9.1	9.1	18.7
4355	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4,847	65%	3,133	0.35	1.46	5	$225	100%	50%	HP-EF-1	57%	0%	7.8	15.6	11.3
4356	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	4,847	54%	2,627	0.29	1.23	10	$0	100%	35%	HP-EF-2	57%	0%	#DIV/0!	1.0	#DIV/0!
4357	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	4,847	54%	2,627	0.29	1.23	15	$85	100%	100%	HP-EF-3	57%	0%	34.1	34.1	67.3
4358	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	4,847	65%	3,133	0.35	1.46	5	$225	100%	100%	HP-EF-2	53%	0%	0.3	0.3	1.5
4359	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	4,847	54%	2,627	0.29	1.23	10	$0	100%	35%	HP-EF-2	53%	0%	#DIV/0!	1.0	#DIV/0!
4360	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	4,847	54%	2,627	0.29	1.23	15	$85	100%	100%	HP-EF-2	53%	0%	2.3	2.3	5.5
4361	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	4,340	62%	2,693	0.30	1.26	15	$85	100%	100%	HP-EF-1	57%	0%	9.1	9.1	18.7
4362	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	4,340	62%	2,693	0.30	1.26	15	$85	100%	100%	HP-EF-2	53%	0%	2.4	2.4	5.6
4363	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	4,340	62%	2,693	0.30	1.26	15	$85	100%	100%	HP-EF-3	55%	0%	9.1	9.1	18.7
4364	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4,847	66%	3,200	0.35	1.50	5	$225	100%	50%	HP-EF-1	57%	0%	8.0	15.9	11.5
4365	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	4,847	56%	2,693	0.30	1.26	10	$0	100%	35%	HP-EF-2	57%	0%	#DIV/0!	1.0	#DIV/0!
4366	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	4,847	56%	2,693	0.30	1.26	15	$225	100%	100%	HP-EF-3	57%	0%	13.2	13.2	26.7
4367	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	4,847	66%	3,200	0.35	1.50	5	$225	100%	100%	HP-EF-2	53%	0%	0.3	0.3	1.5
4368	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	4,847	56%	2,693	0.30	1.26	10	$0	100%	35%	HP-EF-2	53%	0%	#DIV/0!	1.0	#DIV/0!
4369	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	4,847	56%	2,693	0.30	1.26	15	$225	100%	100%	HP-EF-2	53%	0%	2.4	2.4	5.6
4370	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	4,340	64%	2,775	0.31	1.30	15	$85	100%	100%	HP-EF-1	57%	0%	9.1	9.1	18.7
4371	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	4,340	64%	2,775	0.31	1.30	15	$85	100%	100%	HP-EF-2	53%	0%	2.4	2.4	5.8
4372	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	4,340	64%	2,775	0.31	1.30	15	$85	100%	100%	HP-EF-3	55%	0%	9.1	9.1	18.7
4373	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4,847	68%	3,281	0.36	1.53	5	$225	100%	50%	HP-EF-1	57%	0%	8.2	16.3	11.8
4374	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	4,847	57%	2,775	0.31	1.30	10	$0	100%	35%	HP-EF-2	57%	0%	#DIV/0!	1.0	#DIV/0!
4375	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	4,847	57%	2,775	0.31	1.30	15	$85	100%	100%	HP-EF-3	57%	0%	36.0	36.0	71.0
4376	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	4,847	68%	3,281	0.36	1.53	5	$225	100%	100%	HP-EF-2	53%	0%	0.3	0.3	1.5
4377	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	4,847	57%	2,775	0.31	1.30	10	$0	100%	35%	HP-EF-2	53%	0%	#DIV/0!	1.0	#DIV/0!
4378	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	4,847	57%	2,775	0.31	1.30	15	$85	100%	100%	HP-EF-2	53%	0%	2.4	2.4	5.8

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4379	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	4,340	66%	2,850	0.32	1.33	15	$85	100%	100%	HP-EF-1	57%	0%	9.1	9.1	18.7
4380	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	4,340	66%	2,850	0.32	1.33	15	$85	100%	100%	HP-EF-2	53%	0%	2.5	2.5	5.9
4381	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	4,340	66%	2,850	0.32	1.33	15	$85	100%	100%	HP-EF-3	55%	0%	9.1	9.1	18.7
4382	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4,847	69%	3,357	0.37	1.57	5	$225	100%	50%	HP-EF-1	57%	0%	8.4	16.7	12.1
4383	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	4,847	59%	2,850	0.32	1.33	10	$0	100%	35%	HP-EF-2	57%	0%	#DIV/0!	1.0	#DIV/0!
4384	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	4,847	59%	2,850	0.32	1.33	15	$85	100%	100%	HP-EF-3	57%	0%	37.0	37.0	72.9
4385	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	4,847	69%	3,357	0.37	1.57	5	$225	100%	100%	HP-EF-2	53%	0%	0.3	0.3	1.5
4386	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	4,847	59%	2,850	0.32	1.33	10	$0	100%	35%	HP-EF-2	53%	0%	#DIV/0!	1.0	#DIV/0!
4387	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	4,847	59%	2,850	0.32	1.33	15	$85	100%	100%	HP-EF-2	53%	0%	2.5	2.5	5.9
4388	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	NLI	MO	2,307	11%	263	0.25	0.00	18	$453	100%	7%	CAC-1	97%	52%	1.1	15.5	1.5
4389	HVAC	CAC-SEER15_ROF_SF	PAYS	SF	LI	MO	2,307	11%	263	0.25	0.00	18	$453	100%	100%	CAC-2	88%	52%	0.2	0.2	1.3
4390	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	N/A	NC	2,307	11%	263	0.25	0.00	18	$453	100%	7%	CAC-3	94%	0%	1.1	15.5	1.5
4391	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER1	3,723	57%	2,108	1.98	0.00	6	$527	100%	100%	CAC-1	97%	52%	0.7	0.7	2.0
4392	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER2	3,723	7%	273	0.26	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4393	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER3	3,723	7%	273	0.26	0.00	18	$453	100%	100%	CAC-1	97%	52%	1.1	1.1	2.5
4394	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER1	3,723	57%	2,108	1.98	0.00	6	$527	100%	100%	CAC-2	88%	52%	0.3	0.3	1.4
4395	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER2	3,723	7%	273	0.26	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4396	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER3	3,723	7%	273	0.26	0.00	18	$453	100%	100%	CAC-2	88%	52%	0.4	0.4	1.5
4397	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	NLI	MO	1,553	11%	166	0.16	0.00	18	$453	100%	4%	CAC-4	94%	25%	0.7	15.5	1.0
4398	HVAC	CAC-SEER15_ROF_MF	MFIE	MF	LI	MO	1,553	11%	166	0.16	0.00	18	$453	100%	4%	CAC-5	87%	25%	0.7	15.7	1.0
4399	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	N/A	NC	1,553	11%	166	0.16	0.00	18	$453	100%	4%	CAC-6	91%	0%	0.7	15.5	1.0
4400	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER1	2,499	70%	1,760	1.65	0.00	6	$527	100%	100%	CAC-4	94%	25%	0.6	0.6	1.8
4401	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER2	2,499	9%	213	0.20	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4402	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER3	2,499	9%	213	0.20	0.00	18	$453	100%	100%	CAC-4	94%	25%	0.9	0.9	2.2
4403	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER1	2,499	70%	1,760	1.65	0.00	6	$527	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4404	HVAC	CAC-SEER15_ER1_MF	PAYS	MF	LI	ER2	2,499	9%	213	0.20	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4405	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER3	2,499	9%	213	0.20	0.00	18	$453	100%	6%	CAC-5	87%	25%	0.9	15.7	1.2
4406	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	NLI	MO	2,307	16%	363	0.34	0.00	18	$635	100%	7%	CAC-1	97%	52%	1.1	15.5	1.5
4407	HVAC	CAC-SEER16_ROF_SF	PAYS	SF	LI	MO	2,307	16%	363	0.34	0.00	18	$635	100%	100%	CAC-2	88%	52%	0.3	0.3	1.5
4408	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	N/A	NC	2,307	16%	363	0.34	0.00	18	$635	100%	7%	CAC-3	94%	0%	1.1	15.5	1.5
4409	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER1	3,723	59%	2,184	2.05	0.00	6	$709	100%	100%	CAC-1	97%	52%	0.7	0.7	2.0
4410	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER2	3,723	10%	367	0.34	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4411	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER3	3,723	10%	367	0.34	0.00	18	$635	100%	100%	CAC-1	97%	52%	1.1	1.1	2.4
4412	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER1	3,723	59%	2,184	2.05	0.00	6	$709	100%	100%	CAC-2	88%	52%	0.3	0.3	1.5
4413	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER2	3,723	10%	367	0.34	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4414	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER3	3,723	10%	367	0.34	0.00	18	$635	100%	100%	CAC-2	88%	52%	0.6	0.6	1.7
4415	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	NLI	MO	1,553	22%	349	0.33	0.00	18	$635	100%	7%	CAC-4	94%	25%	1.0	15.5	1.4
4416	HVAC	CAC-SEER16_ROF_MF	MFIE	MF	LI	MO	1,553	22%	349	0.33	0.00	18	$635	100%	7%	CAC-5	87%	25%	1.0	15.7	1.4
4417	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	N/A	NC	1,553	22%	349	0.33	0.00	18	$635	100%	7%	CAC-6	91%	0%	1.0	15.5	1.4
4418	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER1	2,499	76%	1,903	1.79	0.00	6	$709	100%	100%	CAC-4	94%	25%	0.6	0.6	1.9
4419	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER2	2,499	13%	324	0.30	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4420	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER3	2,499	13%	324	0.30	0.00	18	$635	100%	100%	CAC-4	94%	25%	1.0	1.0	2.3
4421	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER1	2,499	76%	1,903	1.79	0.00	6	$709	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4422	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER2	2,499	13%	324	0.30	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4423	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER3	2,499	13%	324	0.30	0.00	18	$635	100%	6%	CAC-5	87%	25%	1.0	15.7	1.3
4424	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	NLI	MO	2,307	24%	549	0.52	0.00	18	$891	100%	7%	CAC-1	97%	52%	1.2	15.5	1.6
4425	HVAC	CAC-SEER17_ROF_SF	PAYS	SF	LI	MO	2,307	24%	549	0.52	0.00	18	$891	100%	100%	CAC-2	88%	52%	0.5	0.5	1.7
4426	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	N/A	NC	2,307	24%	549	0.52	0.00	18	$891	100%	7%	CAC-3	94%	0%	1.2	15.5	1.6
4427	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER1	3,723	64%	2,382	2.24	0.00	6	$965	100%	100%	CAC-1	97%	52%	0.8	0.8	2.1
4428	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER2	3,723	14%	530	0.50	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4429	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER3	3,723	14%	530	0.50	0.00	18	$891	100%	100%	CAC-1	97%	52%	1.1	1.1	2.5
4430	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER1	3,723	64%	2,382	2.24	0.00	6	$965	100%	100%	CAC-2	88%	52%	0.4	0.4	1.5
4431	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER2	3,723	14%	530	0.50	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4432	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER3	3,723	14%	530	0.50	0.00	18	$891	100%	100%	CAC-2	88%	52%	0.8	0.8	2.1
4433	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	NLI	MO	1,553	29%	452	0.43	0.00	18	$891	100%	6%	CAC-4	94%	25%	1.0	15.5	1.3
4434	HVAC	CAC-SEER17_ROF_MF	MFIE	MF	LI	MO	1,553	29%	452	0.43	0.00	18	$891	100%	6%	CAC-5	87%	25%	1.0	15.7	1.3
4435	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	N/A	NC	1,553	29%	452	0.43	0.00	18	$891	100%	6%	CAC-6	91%	0%	1.0	15.5	1.3
4436	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER1	2,499	78%	1,937	1.82	0.00	6	$965	100%	100%	CAC-4	94%	25%	0.6	0.6	1.9
4437	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER2	2,499	16%	407	0.38	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4438	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER3	2,499	16%	407	0.38	0.00	18	$891	100%	100%	CAC-4	94%	25%	0.9	0.9	2.1

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4439	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER1	2,499	78%	1,937	1.82	0.00	6	$965	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4440	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER2	2,499	16%	407	0.38	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4441	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER3	2,499	16%	407	0.38	0.00	18	$891	100%	5%	CAC-5	87%	25%	0.9	15.7	1.2
4442	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	NLI	MO	2,307	29%	661	0.62	0.00	18	$921	100%	9%	CAC-1	97%	52%	1.3	15.5	1.9
4443	HVAC	CAC-SEER18_ROF_SF	PAYS	SF	LI	MO	2,307	29%	661	0.62	0.00	18	$921	100%	100%	CAC-2	88%	52%	0.6	0.6	1.8
4444	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	N/A	NC	2,307	29%	661	0.62	0.00	18	$921	100%	9%	CAC-3	94%	0%	1.3	15.5	1.9
4445	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER1	3,723	68%	2,518	2.37	0.00	6	$995	100%	100%	CAC-1	97%	52%	0.8	0.8	2.2
4446	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER2	3,723	18%	662	0.62	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4447	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER3	3,723	18%	662	0.62	0.00	18	$921	100%	100%	CAC-1	97%	52%	1.4	1.4	2.8
4448	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER1	3,723	68%	2,518	2.37	0.00	6	$995	100%	100%	CAC-2	88%	52%	0.4	0.4	1.5
4449	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER2	3,723	18%	662	0.62	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4450	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER3	3,723	18%	662	0.62	0.00	18	$921	100%	100%	CAC-2	88%	52%	1.0	1.0	2.3
4451	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	NLI	MO	1,553	26%	397	0.37	0.00	18	$921	100%	5%	CAC-4	94%	25%	0.8	15.5	1.1
4452	HVAC	CAC-SEER18_ROF_MF	MFIE	MF	LI	MO	1,553	26%	397	0.37	0.00	18	$921	100%	5%	CAC-5	87%	25%	0.8	15.7	1.1
4453	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	N/A	NC	1,553	26%	397	0.37	0.00	18	$921	100%	5%	CAC-6	91%	0%	0.8	15.5	1.1
4454	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER1	2,499	85%	2,129	2.00	0.00	6	$995	100%	100%	CAC-4	94%	25%	0.7	0.7	2.0
4455	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER2	2,499	20%	496	0.47	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4456	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER3	2,499	20%	496	0.47	0.00	18	$921	100%	100%	CAC-4	94%	25%	1.0	1.0	2.3
4457	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER1	2,499	85%	2,129	2.00	0.00	6	$995	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4458	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER2	2,499	20%	496	0.47	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4459	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER3	2,499	20%	496	0.47	0.00	18	$921	100%	6%	CAC-5	87%	25%	1.0	15.7	1.4
4460	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	NLI	MO	2,307	45%	1,037	0.98	0.00	18	$921	100%	14%	CAC-1	97%	52%	2.1	15.5	2.9
4461	HVAC	CAC-SEER19_ROF_SF	PAYS	SF	LI	MO	2,307	45%	1,037	0.98	0.00	18	$921	100%	100%	CAC-2	88%	52%	1.0	1.0	2.3
4462	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	N/A	NC	2,307	45%	1,037	0.98	0.00	18	$921	100%	14%	CAC-3	94%	0%	2.1	15.5	2.9
4463	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER1	3,723	93%	3,469	3.26	0.00	6	$995	100%	100%	CAC-1	97%	52%	1.1	1.1	2.6
4464	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER2	3,723	27%	1,002	0.94	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4465	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER3	3,723	27%	1,002	0.94	0.00	18	$921	100%	100%	CAC-1	97%	52%	2.0	2.0	3.7
4466	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER1	3,723	93%	3,469	3.26	0.00	6	$995	100%	100%	CAC-2	88%	52%	0.5	0.5	1.7
4467	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER2	3,723	27%	1,002	0.94	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4468	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER3	3,723	27%	1,002	0.94	0.00	18	$921	100%	100%	CAC-2	88%	52%	1.5	1.5	3.0
4469	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	NLI	MO	1,553	29%	458	0.43	0.00	18	$921	100%	6%	CAC-4	94%	25%	0.9	15.5	1.3
4470	HVAC	CAC-SEER19_ROF_MF	MFIE	MF	LI	MO	1,553	29%	458	0.43	0.00	18	$921	100%	6%	CAC-5	87%	25%	0.9	15.7	1.3
4471	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	N/A	NC	1,553	29%	458	0.43	0.00	18	$921	100%	6%	CAC-6	91%	0%	0.9	15.5	1.3
4472	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER1	2,499	56%	1,403	1.32	0.00	6	$995	100%	100%	CAC-4	94%	25%	0.5	0.5	1.7
4473	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER2	2,499	18%	458	0.43	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4474	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER3	2,499	18%	458	0.43	0.00	18	$921	100%	100%	CAC-4	94%	25%	0.9	0.9	2.2
4475	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER1	2,499	56%	1,403	1.32	0.00	6	$995	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4476	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER2	2,499	18%	458	0.43	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4477	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER3	2,499	18%	458	0.43	0.00	18	$921	100%	6%	CAC-5	87%	25%	0.9	15.7	1.3
4478	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	NLI	MO	2,307	42%	969	0.91	0.00	18	$1,006	100%	12%	CAC-1	97%	52%	1.8	15.5	2.5
4479	HVAC	CAC-SEER20_ROF_SF	PAYS	SF	LI	MO	2,307	42%	969	0.91	0.00	18	$1,006	100%	100%	CAC-2	88%	52%	0.9	0.9	2.2
4480	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	N/A	NC	2,307	42%	969	0.91	0.00	18	$1,006	100%	12%	CAC-3	94%	0%	1.8	15.5	2.5
4481	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER1	3,723	76%	2,828	2.66	0.00	6	$1,080	100%	100%	CAC-1	97%	52%	0.9	0.9	2.3
4482	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER2	3,723	25%	935	0.88	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4483	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER3	3,723	25%	935	0.88	0.00	18	$1,006	100%	100%	CAC-1	97%	52%	1.7	1.7	3.3
4484	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER1	3,723	76%	2,828	2.66	0.00	6	$1,080	100%	100%	CAC-2	88%	52%	0.4	0.4	1.6
4485	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER2	3,723	25%	935	0.88	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4486	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER3	3,723	25%	935	0.88	0.00	18	$1,006	100%	100%	CAC-2	88%	52%	1.4	1.4	2.9
4487	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	NLI	MO	1,553	33%	513	0.48	0.00	18	$1,006	100%	6%	CAC-4	94%	25%	1.0	15.5	1.3
4488	HVAC	CAC-SEER20_ROF_MF	MFIE	MF	LI	MO	1,553	33%	513	0.48	0.00	18	$1,006	100%	6%	CAC-5	87%	25%	1.0	15.7	1.3
4489	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	N/A	NC	1,553	33%	513	0.48	0.00	18	$1,006	100%	6%	CAC-6	91%	0%	1.0	15.5	1.3
4490	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER1	2,499	57%	1,436	1.35	0.00	6	$1,080	100%	100%	CAC-4	94%	25%	0.5	0.5	1.7
4491	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER2	2,499	21%	513	0.48	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4492	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER3	2,499	21%	513	0.48	0.00	18	$1,006	100%	100%	CAC-4	94%	25%	1.0	1.0	2.3
4493	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER1	2,499	57%	1,436	1.35	0.00	6	$1,080	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4494	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER2	2,499	21%	513	0.48	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4495	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER3	2,499	21%	513	0.48	0.00	18	$1,006	100%	6%	CAC-5	87%	25%	1.0	15.7	1.3
4496	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	NLI	MO	2,307	46%	1,068	1.00	0.00	18	$1,240	100%	10%	CAC-1	97%	52%	1.6	15.5	2.2
4497	HVAC	CAC-SEER21_ROF_SF	PAYS	SF	LI	MO	2,307	46%	1,068	1.00	0.00	18	$1,240	100%	100%	CAC-2	88%	52%	1.0	1.0	2.3
4498	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	N/A	NC	2,307	46%	1,068	1.00	0.00	18	$1,240	100%	10%	CAC-3	94%	0%	1.6	15.5	2.2

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4499	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER1	3,723	73%	2,724	2.56	0.00	6	$1,194	100%	100%	CAC-1	97%	52%	0.9	0.9	2.3
4500	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER2	3,723	27%	1,011	0.95	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4501	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER3	3,723	27%	1,011	0.95	0.00	18	$1,240	100%	100%	CAC-1	97%	52%	1.5	1.5	3.0
4502	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER1	3,723	73%	2,724	2.56	0.00	6	$1,194	100%	100%	CAC-2	88%	52%	0.4	0.4	1.6
4503	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER2	3,723	27%	1,011	0.95	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4504	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER3	3,723	27%	1,011	0.95	0.00	18	$1,240	100%	100%	CAC-2	88%	52%	1.5	1.5	3.0
4505	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	NLI	MO	1,553	36%	562	0.53	0.00	18	$1,006	100%	7%	CAC-4	94%	25%	1.0	15.5	1.5
4506	HVAC	CAC-SEER21_ROF_MF	MFIE	MF	LI	MO	1,553	36%	562	0.53	0.00	18	$1,006	100%	7%	CAC-5	87%	25%	1.0	15.7	1.5
4507	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	N/A	NC	1,553	36%	562	0.53	0.00	18	$1,006	100%	7%	CAC-6	91%	0%	1.0	15.5	1.5
4508	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER1	2,499	60%	1,508	1.42	0.00	6	$1,080	100%	100%	CAC-4	94%	25%	0.5	0.5	1.7
4509	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER2	2,499	22%	562	0.53	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4510	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER3	2,499	22%	562	0.53	0.00	18	$1,006	100%	100%	CAC-4	94%	25%	1.0	1.0	2.4
4511	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER1	2,499	60%	1,508	1.42	0.00	6	$1,080	100%	100%	CAC-5	87%	25%	0.7	0.7	1.9
4512	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER2	2,499	22%	562	0.53	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4513	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER3	2,499	22%	562	0.53	0.00	18	$1,006	100%	7%	CAC-5	87%	25%	1.0	15.7	1.5
4514	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	NLI	MO	600	40%	240	0.23	0.00	18	$544	100%	5%	CAC-1	97%	52%	0.8	15.5	1.2
4515	HVAC	Mini/MultiSplitAC_ROF_SF	SFIE	SF	LI	MO	600	40%	240	0.23	0.00	18	$544	100%	100%	CAC-2	88%	52%	0.1	0.1	1.2
4516	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	N/A	NC	600	40%	240	0.23	0.00	18	$544	100%	5%	CAC-3	94%	0%	0.8	15.5	1.2
4517	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER1	4,071	30%	1,227	1.15	0.00	6	$684	100%	100%	CAC-1	97%	52%	0.8	0.8	2.1
4518	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER2	4,071	8%	323	0.30	0.00	12	$0	100%	35%	CAC-1	97%	52%	#DIV/0!	1.0	#DIV/0!
4519	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER3	4,071	8%	323	0.30	0.00	18	$544	100%	100%	CAC-1	97%	52%	1.1	1.1	2.5
4520	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER1	4,071	30%	1,227	1.15	0.00	6	$684	100%	100%	CAC-2	88%	52%	0.3	0.3	1.4
4521	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER2	4,071	8%	323	0.30	0.00	12	$0	100%	35%	CAC-2	88%	52%	#DIV/0!	1.0	#DIV/0!
4522	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER3	4,071	8%	323	0.30	0.00	18	$544	100%	37%	CAC-2	88%	52%	1.1	3.0	1.8
4523	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	NLI	MO	2,171	21%	455	0.43	0.00	18	$668	100%	8%	CAC-4	94%	25%	1.3	15.5	1.8
4524	HVAC	Mini/MultiSplitAC_ROF_MF	MFIE	MF	LI	MO	2,171	21%	455	0.43	0.00	18	$668	100%	8%	CAC-5	87%	25%	1.3	15.7	1.8
4525	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	N/A	NC	2,171	21%	455	0.43	0.00	18	$668	100%	8%	CAC-6	91%	0%	1.3	15.5	1.8
4526	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER1	4,661	30%	1,403	1.32	0.00	6	$1,381	100%	50%	CAC-4	94%	25%	0.7	1.3	1.4
4527	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER2	4,661	8%	369	0.35	0.00	12	$0	100%	35%	CAC-4	94%	25%	#DIV/0!	1.0	#DIV/0!
4528	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER3	4,661	8%	369	0.35	0.00	18	$668	100%	100%	CAC-4	94%	25%	1.0	1.0	2.4
4529	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER1	4,661	30%	1,403	1.32	0.00	6	$1,381	100%	81%	CAC-5	87%	25%	0.7	0.8	1.8
4530	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER2	4,661	8%	369	0.35	0.00	12	$0	100%	35%	CAC-5	87%	25%	#DIV/0!	1.0	#DIV/0!
4531	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER3	4,661	8%	369	0.35	0.00	18	$668	100%	7%	CAC-5	87%	25%	1.0	15.7	1.4
4532	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	MO	2,307	35%	807	0.76	0.00	20	$1,950	100%	35%	CAC-1	94%	0%	0.8	2.4	1.5
4533	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	NC	2,307	35%	807	0.76	0.00	20	$1,950	100%	35%	CAC-3	94%	0%	0.8	2.4	1.5
4534	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	MO	1,553	35%	544	0.51	0.00	20	$1,950	100%	35%	CAC-4	91%	0%	0.6	1.6	1.1
4535	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	NC	1,553	35%	544	0.51	0.00	20	$1,950	100%	35%	CAC-6	91%	0%	0.6	1.6	1.1
4536	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	MO	2,307	30%	692	0.65	0.00	15	$533	100%	35%	CAC-1	94%	0%	2.1	6.1	3.1
4537	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	NC	2,307	30%	692	0.65	0.00	15	$533	100%	35%	CAC-3	94%	0%	2.1	6.1	3.1
4538	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	MO	1,553	30%	466	0.44	0.00	15	$533	100%	35%	CAC-4	91%	0%	1.4	4.1	2.2
4539	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	NC	1,553	30%	466	0.44	0.00	15	$533	100%	35%	CAC-6	91%	0%	1.4	4.1	2.2
4540	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	NLI	MO	527	9%	48	0.05	0.00	12	$40	100%	15%	ROOM AC-1	18%	68%	1.6	11.2	2.3
4541	HVAC	AC - Energy Star Room _unknown size_SF	SFIE	SF	LI	MO	1,125	36%	400	0.38	0.00	12	$300	100%	100%	ROOM AC-2	35%	68%	0.9	0.9	2.2
4542	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	N/A	NC	527	9%	48	0.05	0.00	12	$40	100%	15%	ROOM AC-3	23%	0%	1.6	11.2	2.3
4543	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	NLI	MO	527	9%	48	0.05	0.00	12	$40	100%	15%	ROOM AC-4	21%	68%	1.6	11.2	2.3
4544	HVAC	AC - Energy Star Room _unknown size_SF	MFIE	MF	LI	MO	1,125	36%	400	0.38	0.00	12	$300	100%	16%	ROOM AC-5	31%	68%	1.8	11.3	2.5
4545	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	N/A	NC	527	9%	48	0.05	0.00	12	$40	100%	15%	ROOM AC-6	26%	0%	1.6	11.2	2.3
4546	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	MO	527	14%	75	0.07	0.00	15	$80	100%	35%	ROOM AC-1	23%	0%	1.5	4.4	2.4
4547	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	NC	527	14%	75	0.07	0.00	15	$80	100%	35%	ROOM AC-3	23%	0%	1.5	4.4	2.4
4548	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	MO	527	14%	75	0.07	0.00	15	$80	100%	35%	ROOM AC-4	26%	0%	1.5	4.4	2.4
4549	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	NC	527	14%	75	0.07	0.00	15	$80	100%	35%	ROOM AC-6	26%	0%	1.5	4.4	2.4
4550	HVAC	HP tune-up / Packaged Service SF	N/A	SF	NLI	Retrofit	11,090	14%	1,548	0.42	0.59	2	$185	100%	35%	HP TUNE-1	11%	79%	1.9	5.4	2.9
4551	HVAC	HP tune-up / Packaged Service SF	SFIE	SF	LI	Retrofit	11,090	14%	1,548	0.42	0.59	2	$185	100%	81%	HP TUNE-2	11%	58%	1.9	2.3	3.4
4552	HVAC	HP tune-up / Packaged Service SF	N/A	SF	N/A	NC	11,090	14%	1,548	0.42	0.59	2	$185	100%	35%	HP TUNE-3	11%	0%	1.9	5.4	2.9
4553	HVAC	HP tune-up / Packaged Service MF	N/A	MF	NLI	Retrofit	12,773	7%	953	0.26	0.36	2	$185	100%	35%	HP TUNE-4	10%	83%	1.2	3.3	1.9
4554	HVAC	HP tune-up / Packaged Service MF	MFIE	MF	LI	Retrofit	12,773	7%	953	0.26	0.36	2	$185	100%	59%	HP TUNE-5	13%	86%	1.2	2.0	2.2
4555	HVAC	HP tune-up / Packaged Service MF	N/A	MF	N/A	NC	12,773	7%	953	0.26	0.36	2	$185	100%	35%	HP TUNE-6	12%	0%	1.2	3.3	1.9
4556	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	11,090	10%	1,140	0.31	0.43	2	$81	100%	35%	HP TUNE-1	11%	79%	3.2	9.1	4.7
4557	HVAC	HP tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	11,090	10%	1,140	0.31	0.43	2	$81	100%	100%	HP TUNE-2	11%	58%	1.9	1.9	3.5
4558	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	11,090	10%	1,140	0.31	0.43	2	$81	100%	35%	HP TUNE-3	11%	0%	3.2	9.1	4.7

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4559	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	12,773	5%	702	0.19	0.27	2	$81	100%	35%	HP TUNE-4	10%	83%	2.0	5.6	3.0
4560	HVAC	HP tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	12,773	5%	702	0.19	0.27	2	$81	100%	100%	HP TUNE-5	13%	86%	0.6	0.6	1.8
4561	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	12,773	5%	702	0.19	0.27	2	$81	100%	35%	HP TUNE-6	12%	0%	2.0	5.6	3.0
4562	HVAC	AC Tune-up / Packaged service SF	N/A	SF	NLI	Retrofit	2,674	14%	368	0.35	0.00	2	$185	100%	35%	AC TUNE-1	97%	79%	0.3	1.0	1.0
4563	HVAC	AC Tune-up / Packaged service SF	SFIE	SF	LI	Retrofit	2,674	14%	368	0.35	0.00	2	$185	100%	81%	AC TUNE-2	88%	58%	0.3	0.4	1.4
4564	HVAC	AC Tune-up / Packaged service SF	N/A	SF	N/A	NC	2,674	14%	368	0.35	0.00	2	$185	100%	35%	AC TUNE-3	94%	0%	0.3	1.0	1.0
4565	HVAC	AC Tune-up / Packaged service MF	N/A	MF	NLI	Retrofit	1,738	14%	239	0.23	0.00	2	$185	100%	35%	AC TUNE-4	94%	83%	0.2	0.6	0.7
4566	HVAC	AC Tune-up / Packaged service MF	MFIE	MF	LI	Retrofit	1,738	14%	239	0.23	0.00	2	$185	100%	59%	AC TUNE-5	87%	86%	0.2	0.4	1.0
4567	HVAC	AC Tune-up / Packaged service MF	N/A	MF	N/A	NC	1,738	14%	239	0.23	0.00	2	$185	100%	35%	AC TUNE-6	91%	0%	0.2	0.6	0.7
4568	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	2,674	22%	591	0.56	0.00	2	$81	100%	35%	AC TUNE-1	97%	79%	1.3	3.6	2.6
4569	HVAC	AC Tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	2,674	22%	591	0.56	0.00	2	$81	100%	100%	AC TUNE-2	88%	58%	0.7	0.7	2.3
4570	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	2,674	22%	591	0.56	0.00	2	$81	100%	35%	AC TUNE-3	94%	0%	1.3	3.6	2.6
4571	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	1,738	22%	384	0.36	0.00	2	$81	100%	35%	AC TUNE-4	94%	83%	0.8	2.3	1.8
4572	HVAC	AC Tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	1,738	22%	384	0.36	0.00	2	$81	100%	100%	AC TUNE-5	87%	86%	0.4	0.4	1.8
4573	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	1,738	22%	384	0.36	0.00	2	$81	100%	35%	AC TUNE-6	91%	0%	0.8	2.3	1.8
4574	HVAC	Dirty Filter Alarm_SF	HVAC	SF	NLI	Retrofit	-	0%	36	0.01	0.01	5	$5	100%	87%	ALARM-1	97%	92%	3.9	4.5	6.4
4575	HVAC	Dirty Filter Alarm_SF	SFIE	SF	LI	Retrofit	-	0%	36	0.01	0.01	5	$5	100%	100%	ALARM-2	91%	74%	3.9	3.9	6.6
4576	HVAC	Dirty Filter Alarm_MF	HVAC	MF	NLI	Retrofit	-	0%	118	0.03	0.04	5	$5	100%	100%	ALARM-3	91%	80%	4.5	4.5	7.4
4577	HVAC	Dirty Filter Alarm_MF	MFIE	MF	LI	Retrofit	-	0%	118	0.03	0.04	5	$5	100%	100%	ALARM-4	82%	63%	13.0	13.0	19.3
4578	HVAC	ECM Fan	HVAC	SF	NLI	Retrofit	-	0%	579	0.16	0.22	6	$263	100%	27%	ECM-1	97%	52%	1.4	5.2	2.3
4579	HVAC	ECM Fan	SFIE	SF	LI	Retrofit	-	0%	579	0.16	0.22	6	$263	100%	100%	ECM-2	91%	52%	0.5	0.5	1.8
4580	HVAC	ECM Fan	HVAC	MF	NLI	Retrofit	-	0%	579	0.16	0.22	6	$263	100%	27%	ECM-3	91%	25%	1.4	5.2	2.3
4581	HVAC	ECM Fan	MFIE	MF	LI	Retrofit	-	0%	579	0.16	0.22	6	$263	100%	88%	ECM-4	82%	25%	1.4	1.6	2.9
4582	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	Retrofit	11,090	9%	998	0.27	0.38	15	$1,625	100%	35%	SVS-1	11%	5%	0.7	2.1	1.7
4583	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	NC	11,090	9%	998	0.27	0.38	15	$1,625	100%	35%	SVS-2	11%	0%	0.7	2.1	1.7
4584	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	Retrofit	12,773	9%	1,150	0.31	0.43	15	$1,040	100%	35%	SVS-3	12%	5%	1.3	3.8	2.7
4585	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	NC	12,773	9%	1,150	0.31	0.43	15	$1,040	100%	35%	SVS-4	12%	0%	1.3	3.8	2.7
4586	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	Retrofit	17,615	9%	1,585	0.18	0.74	15	$1,625	100%	35%	SVS-5	24%	5%	1.1	3.1	2.4
4587	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	NC	17,615	9%	1,585	0.18	0.74	15	$1,625	100%	35%	SVS-6	24%	0%	1.1	3.1	2.4
4588	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	Retrofit	20,314	9%	1,828	0.20	0.85	15	$1,040	100%	35%	SVS-7	55%	5%	1.9	5.5	4.1
4589	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	NC	20,314	9%	1,828	0.20	0.85	15	$1,040	100%	35%	SVS-8	55%	0%	1.9	5.5	4.1
4590	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	Retrofit	3,723	9%	335	0.32	0.00	15	$1,625	100%	35%	SVS-9	62%	52%	0.3	1.0	0.8
4591	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	NC	2,499	9%	225	0.21	0.00	15	$1,625	100%	35%	SVS-10	62%	0%	0.2	0.6	0.6
4592	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	Retrofit	3,723	9%	335	0.32	0.00	15	$1,040	100%	35%	SVS-11	33%	25%	0.5	1.5	1.0
4593	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	NC	2,499	9%	225	0.21	0.00	15	$1,040	100%	35%	SVS-12	33%	0%	0.4	1.0	0.8
4594	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	Retrofit	11,090	7%	730	0.20	0.28	15	$4,710	100%	35%	ERV-1	11%	0%	0.2	0.5	0.7
4595	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	Retrofit	17,615	8%	1,354	0.15	0.63	15	$4,710	100%	35%	ERV-2	24%	0%	0.3	0.9	1.0
4596	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	NC	11,090	7%	730	0.20	0.28	15	$4,710	100%	35%	ERV-3	11%	0%	0.2	0.5	0.7
4597	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	NC	17,615	8%	1,354	0.15	0.63	15	$4,710	100%	35%	ERV-4	24%	0%	0.3	0.9	1.0
4598	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	Retrofit	12,773	0%	3	0.00	0.00	15	$4,710	100%	35%	ERV-5	12%	0%	0.0	0.0	0.4
4599	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	Retrofit	20,314	2%	353	0.04	0.16	15	$4,710	100%	35%	ERV-6	55%	0%	0.1	0.2	0.5
4600	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	NC	12,773	0%	3	0.00	0.00	15	$4,710	100%	35%	ERV-7	12%	0%	0.0	0.0	0.4
4601	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	NC	20,314	2%	353	0.04	0.16	15	$4,710	100%	35%	ERV-8	55%	0%	0.1	0.2	0.5
4602	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	MO	11,090	33%	3,660	0.98	1.38	15	$2,508	100%	35%	HP-HP-1	11%	0%	1.8	5.0	3.5
4603	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	NC	11,090	33%	3,660	0.98	1.38	15	$2,508	100%	35%	HP-HP-3	11%	0%	1.8	5.0	3.5
4604	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	MO	12,773	33%	4,215	1.13	1.59	15	$2,006	100%	35%	HP-HP-4	12%	0%	2.5	7.2	4.9
4605	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	NC	12,773	33%	4,215	1.13	1.59	15	$2,006	100%	35%	HP-HP-6	12%	0%	2.5	7.2	4.9
4606	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	NLI	MO	100	10%	10	0.00	0.00	19	$11	100%	35%	BATH FAN-1	198%	25%	0.8	2.2	2.7
4607	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	LI	MO	100	10%	10	0.00	0.00	19	$11	100%	35%	BATH FAN-2	208%	25%	0.8	2.2	2.7
4608	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	N/A	NC	100	10%	10	0.00	0.00	19	$11	100%	35%	BATH FAN-3	169%	0%	0.8	2.2	2.7
4609	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	NLI	MO	100	10%	10	0.00	0.00	19	$11	100%	35%	BATH FAN-4	175%	25%	0.8	2.2	2.7
4610	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	LI	MO	100	10%	10	0.00	0.00	19	$11	100%	35%	BATH FAN-5	147%	25%	0.8	2.2	2.7
4611	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	N/A	NC	100	10%	10	0.00	0.00	19	$11	100%	35%	BATH FAN-6	160%	0%	0.8	2.2	2.7
4612	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	17,615	6%	1,120	0.12	0.52	11	$79	100%	100%	T-STAT-1	21%	42%	4.1	4.1	8.3
4613	HVAC	Learning Thermostat - electric furnace heating / central AC SF	SFIE	SF	LI	Retrofit	17,615	6%	1,134	0.13	0.53	11	$79	100%	100%	T-STAT-2	30%	14%	4.6	4.6	9.2
4614	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	N/A	NC	17,615	6%	1,120	0.12	0.52	11	$79	100%	100%	T-STAT-3	24%	0%	4.1	4.1	8.3
4615	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	20,314	4%	802	0.09	0.37	11	$79	100%	100%	T-STAT-4	57%	21%	2.9	2.9	6.2
4616	HVAC	Learning Thermostat - electric furnace heating / central AC MF	MFIE	MF	LI	Retrofit	20,314	4%	793	0.09	0.37	11	$79	100%	100%	T-STAT-5	53%	8%	3.1	3.1	6.5
4617	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	N/A	NC	20,314	4%	802	0.09	0.37	11	$79	100%	100%	T-STAT-6	55%	0%	2.9	2.9	6.2
4618	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	NLI	Retrofit	3,723	6%	226	0.21	0.00	11	$79	100%	100%	T-STAT-7	65%	42%	1.1	1.1	2.5

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
4619	HVAC	Learning Thermostat - Gas Heated / central AC SF**	SFIE	SF	LI	Retrofit	3,723	6%	229	0.21	0.00	11	$79	100%	100%	T-STAT-8	56%	14%	1.3	1.3	2.7
4620	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	N/A	NC	3,723	6%	226	0.21	0.00	11	$79	100%	100%	T-STAT-9	62%	0%	1.1	1.1	2.5
4621	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	NLI	Retrofit	2,499	8%	211	0.20	0.00	11	$79	100%	100%	T-STAT-10	33%	21%	1.1	1.1	2.4
4622	HVAC	Learning Thermostat - Gas Heated / central AC MF**	MFIE	MF	LI	Retrofit	2,499	9%	214	0.20	0.00	11	$79	100%	100%	T-STAT-11	33%	8%	1.1	1.1	2.5
4623	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	N/A	NC	2,499	8%	211	0.20	0.00	11	$79	100%	100%	T-STAT-12	33%	0%	1.1	1.1	2.4
4624	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	11,090	7%	735	0.20	0.28	11	$79	100%	100%	T-STAT-13	11%	42%	2.9	2.9	5.8
4625	HVAC	Learning Thermostat - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	11,090	7%	744	0.20	0.28	11	$79	100%	100%	T-STAT-14	11%	14%	3.2	3.2	6.4
4626	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	N/A	NC	11,090	7%	735	0.20	0.28	11	$79	100%	100%	T-STAT-15	11%	0%	2.9	2.9	5.8
4627	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	12,773	4%	542	0.15	0.21	11	$79	100%	100%	T-STAT-16	10%	21%	2.1	2.1	4.5
4628	HVAC	Learning Thermostat - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	12,773	4%	549	0.15	0.21	11	$79	100%	100%	T-STAT-17	13%	8%	2.3	2.3	4.8
4629	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	N/A	NC	12,773	4%	542	0.15	0.21	11	$79	100%	100%	T-STAT-18	12%	0%	2.1	2.1	4.5
4630	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	17,615	3%	469	0.05	0.22	10	$70	100%	100%	T-STAT-1	21%	42%	5.8	5.8	11.0
4631	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	SFIE	SF	LI	Retrofit	17,615	3%	469	0.05	0.22	10	$70	100%	100%	T-STAT-2	30%	14%	3.6	3.6	7.2
4632	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	N/A	NC	17,615	3%	469	0.05	0.22	10	$70	100%	100%	T-STAT-3	24%	0%	5.8	5.8	11.0
4633	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	20,314	1%	264	0.03	0.12	10	$70	100%	100%	T-STAT-4	57%	21%	3.3	3.3	6.6
4634	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	MFIE	MF	LI	Retrofit	20,314	1%	264	0.03	0.12	10	$70	100%	100%	T-STAT-5	53%	8%	1.8	1.8	4.2
4635	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	N/A	NC	20,314	1%	264	0.03	0.12	10	$70	100%	100%	T-STAT-6	55%	0%	3.3	3.3	6.6
4636	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	NLI	Retrofit	3,723	10%	358	0.34	0.00	10	$70	100%	100%	T-STAT-7	65%	42%	5.9	5.9	8.7
4637	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	SFIE	SF	LI	Retrofit	3,723	10%	358	0.34	0.00	10	$70	100%	100%	T-STAT-8	56%	14%	3.6	3.6	5.8
4638	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	N/A	NC	3,723	10%	358	0.34	0.00	10	$70	100%	100%	T-STAT-9	62%	0%	5.9	5.9	8.7
4639	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	NLI	Retrofit	2,499	8%	201	0.19	0.00	10	$70	100%	100%	T-STAT-10	33%	21%	3.3	3.3	5.3
4640	HVAC	Setback thermostat - full setback - gas heating / central AC MF	MFIE	MF	LI	Retrofit	2,499	8%	201	0.19	0.00	10	$70	100%	100%	T-STAT-11	33%	8%	1.8	1.8	3.4
4641	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	N/A	NC	2,499	8%	201	0.19	0.00	10	$70	100%	100%	T-STAT-12	33%	0%	3.3	3.3	5.3
4642	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	11,090	4%	412	0.11	0.16	10	$70	100%	100%	T-STAT-13	11%	42%	5.4	5.4	9.8
4643	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	11,090	4%	412	0.11	0.16	10	$70	100%	100%	T-STAT-14	11%	14%	3.3	3.3	6.5
4644	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	N/A	NC	11,090	4%	412	0.11	0.16	10	$70	100%	100%	T-STAT-15	11%	0%	5.4	5.4	9.8
4645	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	12,773	2%	232	0.06	0.09	10	$70	100%	100%	T-STAT-16	10%	21%	3.0	3.0	6.0
4646	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	12,773	2%	232	0.06	0.09	10	$70	100%	100%	T-STAT-17	13%	8%	1.7	1.7	3.8
4647	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	N/A	NC	12,773	2%	232	0.06	0.09	10	$70	100%	100%	T-STAT-18	12%	0%	3.0	3.0	6.0
5001	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	NLI	Retrofit	28	79%	22	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	75%	3.2	3.2	9.7
5002	Lighting	LED - 10W (750-899 lumens) IEDI	SFIE	SF	LI	Retrofit	28	79%	22	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	75%	3.4	3.4	10.1
5003	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	N/A	NC	28	79%	22	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	0%	3.2	3.2	9.7
5004	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	NLI	Retrofit	28	79%	22	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	75%	3.2	3.2	9.7
5005	Lighting	LED - 10W (750-899 lumens) IEDI	MFIE	MF	LI	Retrofit	28	79%	22	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	75%	2.5	2.5	7.8
5006	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	N/A	NC	28	79%	22	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	0%	3.2	3.2	9.7
5007	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	NLI	Retrofit	35	80%	28	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	75%	8.7	8.7	24.5
5008	Lighting	LED - 15W (900-1399 lumens) IEDI	SFIE	SF	LI	Retrofit	35	80%	28	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	75%	2.8	2.8	8.6
5009	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	N/A	NC	35	80%	28	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	0%	8.7	8.7	24.5
5010	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	NLI	Retrofit	35	80%	28	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	75%	8.7	8.7	24.5
5011	Lighting	LED - 15W (900-1399 lumens) IEDI	MFIE	MF	LI	Retrofit	35	80%	28	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	75%	2.3	2.3	7.1
5012	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	N/A	NC	35	80%	28	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	0%	8.7	8.7	24.5
5013	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	NLI	Retrofit	47	79%	37	0.00	0.01	8	$1	100%	100%	LED A-LINE-	3727%	75%	11.7	11.7	32.6
5014	Lighting	LED - 20W (1400-1999 lumens) IEDI	SFIE	SF	LI	Retrofit	47	79%	37	0.00	0.01	8	$1	100%	100%	LED A-LINE-	3727%	75%	3.8	3.8	11.2
5015	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	N/A	NC	47	79%	37	0.00	0.01	8	$1	100%	100%	LED A-LINE-	3727%	0%	11.7	11.7	32.6
5016	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	NLI	Retrofit	47	79%	37	0.00	0.01	8	$1	100%	100%	LED A-LINE-	1854%	75%	11.7	11.7	32.6
5017	Lighting	LED - 20W (1400-1999 lumens) IEDI	MFIE	MF	LI	Retrofit	47	79%	37	0.00	0.01	8	$1	100%	100%	LED A-LINE-	1854%	75%	2.3	2.3	7.1
5018	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	N/A	NC	47	79%	37	0.00	0.01	8	$1	100%	100%	LED A-LINE-	1854%	0%	11.7	11.7	32.6
5019	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	NLI	Retrofit	19	79%	15	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	75%	4.7	4.7	13.8
5020	Lighting	LED - 6W (400-749 lumens) IEDI	SFIE	SF	LI	Retrofit	19	79%	15	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	75%	2.3	2.3	7.2
5021	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	N/A	NC	19	79%	15	0.00	0.00	8	$1	100%	100%	LED A-LINE-	3727%	0%	4.7	4.7	13.8
5022	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	NLI	Retrofit	19	79%	15	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	75%	4.7	4.7	13.8
5023	Lighting	LED - 6W (400-749 lumens) IEDI	MFIE	MF	LI	Retrofit	19	79%	15	0.00	0.00	8	$1	100%	100%	LED A-LINE-	1854%	75%	2.3	2.3	7.1
5024	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	N/A	NC	66	93%	61	0.00	0.01	8	$2	100%	100%	LED A-LINE-	1854%	0%	16.7	16.7	46.1
5025	Lighting	LED A19 800 Lumens 6W	PAYS	SF	NLI	Retrofit	6	37%	2	0.00	0.00	20	$1	100%	100%	LED A-LINE-	3727%	75%	2.0	2.0	7.3
5026	Lighting	LED A19 800 Lumens 6W	SFIE	SF	LI	Retrofit	6	37%	2	0.00	0.00	20	$1	100%	100%	LED A-LINE-	3727%	75%	0.7	0.7	3.1
5027	Lighting	LED A19 800 Lumens 6W	PAYS	SF	N/A	NC	6	37%	2	0.00	0.00	20	$1	100%	100%	LED A-LINE-	3727%	0%	2.0	2.0	7.3
5028	Lighting	LED A19 800 Lumens 6W	PAYS	MF	NLI	Retrofit	6	37%	2	0.00	0.00	20	$1	100%	100%	LED A-LINE-	1854%	75%	2.0	2.0	7.3
5029	Lighting	LED A19 800 Lumens 6W	MFIE	MF	LI	Retrofit	6	37%	2	0.00	0.00	20	$1	100%	47%	LED A-LINE-	1854%	75%	2.0	4.3	6.8
5030	Lighting	LED A19 800 Lumens 6W	PAYS	MF	N/A	NC	6	37%	2	0.00	0.00	20	$1	100%	100%	LED A-LINE-	1854%	0%	2.0	2.0	7.3
5031	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	NLI	Retrofit	49	91%	45	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	12.2	12.2	33.9

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
5032	Lighting	LED - 10.5W Downlight E26 IE DI	SFIE	SF	LI	Retrofit	49	91%	45	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	6.8	6.8	19.2
5033	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	N/A	NC	49	91%	45	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	0%	12.2	12.2	33.9
5034	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	NLI	Retrofit	49	91%	45	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	12.2	12.2	33.9
5035	Lighting	LED - 10.5W Downlight E26 IE DI	MFIE	MF	LI	Retrofit	49	91%	45	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	2.3	2.3	7.1
5036	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	N/A	NC	49	91%	45	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	0%	12.2	12.2	33.9
5037	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	49	85%	42	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	11.5	11.5	32.0
5038	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	SFIE	SF	LI	Retrofit	49	85%	42	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	6.4	6.4	18.2
5039	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	N/A	NC	49	85%	42	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	0%	11.5	11.5	32.0
5040	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	49	85%	42	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	11.5	11.5	32.0
5041	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	MFIE	MF	LI	Retrofit	49	85%	42	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	2.3	2.3	7.1
5042	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	N/A	NC	49	85%	42	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	0%	11.5	11.5	32.0
5043	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	79	88%	69	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	19.1	19.1	52.4
5044	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	SFIE	SF	LI	Retrofit	79	88%	69	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	7.0	7.0	19.9
5045	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	N/A	NC	79	88%	69	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	0%	19.1	19.1	52.4
5046	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	79	88%	69	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	19.1	19.1	52.4
5047	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	MFIE	MF	LI	Retrofit	79	88%	69	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	2.3	2.3	7.1
5048	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	N/A	NC	79	88%	69	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	0%	19.1	19.1	52.4
5049	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	NLI	Retrofit	98	89%	87	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	23.9	23.9	65.4
5050	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	SFIE	SF	LI	Retrofit	98	89%	87	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	75%	5.0	5.0	14.4
5051	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	N/A	NC	98	89%	87	0.00	0.01	8	$2	100%	100%	ED REFLECTO	788%	0%	23.9	23.9	65.4
5052	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	NLI	Retrofit	98	89%	87	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	23.9	23.9	65.4
5053	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	MFIE	MF	LI	Retrofit	98	89%	87	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	75%	2.3	2.3	7.1
5054	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	N/A	NC	98	89%	87	0.00	0.01	8	$2	100%	100%	ED REFLECTO	391%	0%	23.9	23.9	65.4
5055	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	NLI	Retrofit	66	89%	58	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	1099%	75%	16.0	16.0	44.1
5056	Lighting	LED - 12W Dimmable Light Bulb IE DI	SFIE	SF	LI	Retrofit	66	89%	58	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	1099%	75%	8.9	8.9	24.9
5057	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	N/A	NC	66	89%	58	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	1099%	0%	16.0	16.0	44.1
5058	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	NLI	Retrofit	66	89%	58	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	447%	75%	16.0	16.0	44.1
5059	Lighting	LED - 12W Dimmable Light Bulb IE DI	MFIE	MF	LI	Retrofit	66	89%	58	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	447%	75%	2.3	2.3	7.1
5060	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	N/A	NC	66	89%	58	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	447%	0%	16.0	16.0	44.1
5061	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	NLI	Retrofit	34	87%	30	0.00	0.00	2	$2	100%	100%	.ED SPECIALT	1099%	75%	2.4	2.4	6.5
5062	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	SFIE	SF	LI	Retrofit	34	87%	30	0.00	0.00	2	$2	100%	100%	.ED SPECIALT	1099%	75%	1.3	1.3	4.1
5063	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	N/A	NC	34	87%	30	0.00	0.00	2	$2	100%	100%	.ED SPECIALT	1099%	0%	2.4	2.4	6.5
5064	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	NLI	Retrofit	34	87%	30	0.00	0.00	2	$2	100%	100%	.ED SPECIALT	447%	75%	2.4	2.4	6.5
5065	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	MFIE	MF	LI	Retrofit	34	87%	30	0.00	0.00	2	$2	100%	100%	.ED SPECIALT	447%	75%	0.7	0.7	2.5
5066	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	N/A	NC	34	87%	30	0.00	0.00	2	$2	100%	100%	.ED SPECIALT	447%	0%	2.4	2.4	6.5
5067	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	NLI	Retrofit	26	89%	23	0.00	0.00	8	$2	100%	100%	.ED SPECIALT	1099%	75%	6.4	6.4	18.2
5068	Lighting	LED - 4W Candelabra Specialty IE DI	SFIE	SF	LI	Retrofit	26	89%	23	0.00	0.00	8	$2	100%	100%	.ED SPECIALT	1099%	75%	3.5	3.5	10.5
5069	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	N/A	NC	26	89%	23	0.00	0.00	8	$2	100%	100%	.ED SPECIALT	1099%	0%	6.4	6.4	18.2
5070	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	NLI	Retrofit	26	89%	23	0.00	0.00	8	$2	100%	100%	.ED SPECIALT	447%	75%	6.4	6.4	18.2
5071	Lighting	LED - 4W Candelabra Specialty IE DI	MFIE	MF	LI	Retrofit	26	89%	23	0.00	0.00	8	$2	100%	100%	.ED SPECIALT	447%	75%	5.3	5.3	15.3
5072	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	N/A	NC	26	89%	23	0.00	0.00	8	$2	100%	100%	.ED SPECIALT	447%	0%	6.4	6.4	18.2
5073	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	NLI	Retrofit	66	93%	61	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	1099%	75%	16.7	16.7	46.1
5074	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	SFIE	SF	LI	Retrofit	66	93%	61	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	1099%	75%	9.3	9.3	25.9
5075	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	N/A	NC	66	93%	61	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	1099%	0%	16.7	16.7	46.1
5076	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	NLI	Retrofit	66	93%	61	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	447%	75%	16.7	16.7	46.1
5077	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	MFIE	MF	LI	Retrofit	66	93%	61	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	447%	75%	13.9	13.9	38.4
5078	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	N/A	NC	66	93%	61	0.00	0.01	8	$2	100%	100%	.ED SPECIALT	447%	0%	16.7	16.7	46.1
5079	Lighting	LED Nightlights	PAYS	SF	NLI	Retrofit	24	96%	23	0.00	0.00	4	$3	100%	100%	NIGHT-1	300%	75%	1.9	1.9	5.3
5080	Lighting	LED Nightlights	SFIE	SF	LI	Retrofit	30	96%	29	0.00	0.00	8	$3	100%	90%	NIGHT-2	300%	75%	3.9	4.3	11.3
5081	Lighting	LED Nightlights	PAYS	SF	N/A	NC	24	96%	23	0.00	0.00	4	$3	100%	100%	NIGHT-3	300%	0%	1.9	1.9	5.3
5082	Lighting	LED Nightlights	PAYS	MF	NLI	Retrofit	24	96%	23	0.00	0.00	4	$3	100%	100%	NIGHT-4	200%	75%	1.9	1.9	5.3
5083	Lighting	LED Nightlights	MFIE	MF	LI	Retrofit	30	96%	29	0.00	0.00	8	$3	100%	100%	NIGHT-5	200%	75%	2.3	2.3	7.1
5084	Lighting	LED Nightlights	PAYS	MF	N/A	NC	24	96%	23	0.00	0.00	4	$3	100%	100%	NIGHT-6	200%	0%	1.9	1.9	5.3
5085	Lighting	Occupancy Sensor	N/A	SF	NLI	Retrofit	302	30%	89	0.00	0.01	10	$30	100%	35%	OCC-1	200%	30%	1.6	4.6	4.8
5086	Lighting	Occupancy Sensor	N/A	SF	LI	Retrofit	302	30%	89	0.00	0.01	10	$30	100%	35%	OCC-2	200%	30%	1.6	4.6	4.8
5087	Lighting	Occupancy Sensor	N/A	SF	N/A	NC	302	30%	89	0.00	0.01	10	$30	100%	35%	OCC-3	200%	0%	1.6	4.6	4.8
5088	Lighting	Occupancy Sensor	N/A	MF	NLI	Retrofit	302	30%	89	0.00	0.01	10	$30	100%	35%	OCC-4	100%	30%	1.6	4.6	4.8
5089	Lighting	Occupancy Sensor	N/A	MF	LI	Retrofit	302	30%	89	0.00	0.01	10	$30	100%	35%	OCC-5	100%	30%	1.6	4.6	4.8
5090	Lighting	Occupancy Sensor	N/A	MF	N/A	NC	302	30%	89	0.00	0.01	10	$30	100%	35%	OCC-6	100%	0%	1.6	4.6	4.8
5091	Lighting	Exterior Lighting Controls	N/A	SF	NLI	Retrofit	108	80%	86	0.00	0.01	10	$3	100%	35%	ELC-1	200%	30%	15.5	44.2	43.4

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
5092	Lighting	Exterior Lighting Controls	N/A	SF	LI	Retrofit	108	80%	86	0.00	0.01	10	$3	100%	35%	ELC-2	200%	30%	15.5	44.2	43.4
5093	Lighting	Exterior Lighting Controls	N/A	SF	N/A	NC	108	80%	86	0.00	0.01	10	$3	100%	35%	ELC-3	200%	0%	15.5	44.2	43.4
5094	Lighting	Exterior Lighting Controls	N/A	MF	NLI	Retrofit	108	80%	86	0.00	0.01	10	$3	100%	35%	ELC-4	100%	30%	15.5	44.2	43.4
5095	Lighting	Exterior Lighting Controls	N/A	MF	LI	Retrofit	108	80%	86	0.00	0.01	10	$3	100%	35%	ELC-5	100%	30%	15.5	44.2	43.4
5096	Lighting	Exterior Lighting Controls	N/A	MF	N/A	NC	108	80%	86	0.00	0.01	10	$3	100%	35%	ELC-6	100%	0%	15.5	44.2	43.4
5097	Lighting	Advanced Lighting	N/A	SF	N/A	MO	2,000	10%	200	0.01	0.03	18	$194	100%	35%	ADV LIGHT-	100%	0%	0.8	2.4	2.9
5098	Lighting	Advanced Lighting	N/A	SF	N/A	NC	2,000	10%	200	0.01	0.03	18	$194	100%	35%	ADV LIGHT-	100%	0%	0.8	2.4	2.9
5099	Lighting	Advanced Lighting	N/A	MF	N/A	MO	1,000	10%	100	0.00	0.01	18	$97	100%	35%	ADV LIGHT-	100%	0%	0.8	2.4	2.9
5100	Lighting	Advanced Lighting	N/A	MF	N/A	NC	1,000	10%	100	0.00	0.01	18	$97	100%	35%	ADV LIGHT-	100%	0%	0.8	2.4	2.9
6001	New Construction	Zero Energy Ready Home	N/A	SF	N/A	NC	12,195	30%	3,663	1.56	1.06	20	$2,000	100%	35%	NC-1	100%	0%	2.9	8.2	5.3
6002	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	SF	N/A	NC	12,195	13%	1,554	0.66	0.45	20	$1,216	100%	35%	NC-3	100%	0%	2.0	5.7	3.8
6003	New Construction	Zero Energy Ready Home	N/A	MF	N/A	NC	6,098	30%	1,829	0.78	0.53	20	$2,000	100%	35%	NC-2	100%	0%	1.4	4.1	2.8
6004	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	MF	N/A	NC	6,098	13%	774	0.33	0.22	20	$1,216	100%	35%	NC-4	100%	0%	1.0	2.8	2.1
7001	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	NLI	Retrofit	466	5%	23	0.00	0.00	10	$30	100%	65%	POWER STRIF	272%	59%	0.4	0.7	1.8
7002	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	SFIE	SF	LI	Retrofit	466	5%	23	0.00	0.00	10	$30	100%	100%	POWER STRIF	257%	62%	0.4	0.4	2.1
7003	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	N/A	NC	466	5%	23	0.00	0.00	10	$30	100%	65%	POWER STRIF	267%	0%	0.4	0.7	1.8
7004	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	NLI	Retrofit	466	5%	23	0.00	0.00	10	$30	100%	65%	POWER STRIF	248%	62%	0.4	0.7	1.8
7005	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	MFIE	MF	LI	Retrofit	466	5%	23	0.00	0.00	10	$30	100%	9%	POWER STRIF	226%	59%	0.4	4.8	1.2
7006	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	N/A	NC	466	5%	23	0.00	0.00	10	$30	100%	65%	POWER STRIF	237%	0%	0.4	0.7	1.8
7007	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	NLI	Retrofit	466	38%	177	0.02	0.02	10	$65	100%	88%	POWER STRIF	272%	59%	1.6	1.8	5.0
7008	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	SFIE	SF	LI	Retrofit	466	38%	177	0.02	0.02	10	$65	100%	88%	POWER STRIF	257%	62%	1.6	1.8	5.0
7009	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	N/A	NC	466	38%	177	0.02	0.02	10	$65	100%	88%	POWER STRIF	267%	0%	1.6	1.8	5.0
7010	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	NLI	Retrofit	466	38%	177	0.02	0.02	10	$65	100%	88%	POWER STRIF	248%	62%	1.6	1.8	5.0
7011	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	MFIE	MF	LI	Retrofit	466	38%	177	0.02	0.02	10	$65	100%	88%	POWER STRIF	226%	59%	1.6	1.8	5.0
7012	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	N/A	NC	466	38%	177	0.02	0.02	10	$65	100%	88%	POWER STRIF	237%	0%	1.6	1.8	5.0
7013	Plug Loads	ENERGY STAR TV	N/A	SF	NLI	Retrofit	286	25%	72	0.01	0.01	5	$60	100%	35%	TV-1	272%	74%	0.4	1.1	1.3
7014	Plug Loads	ENERGY STAR TV	N/A	SF	LI	Retrofit	286	25%	72	0.01	0.01	5	$60	100%	35%	TV-2	257%	74%	0.4	1.1	1.3
7015	Plug Loads	ENERGY STAR TV	N/A	SF	N/A	NC	286	25%	72	0.01	0.01	5	$60	100%	35%	TV-3	267%	0%	0.4	1.1	1.3
7016	Plug Loads	ENERGY STAR TV	N/A	MF	NLI	Retrofit	286	25%	72	0.01	0.01	5	$60	100%	35%	TV-4	248%	74%	0.4	1.1	1.3
7017	Plug Loads	ENERGY STAR TV	N/A	MF	LI	Retrofit	286	25%	72	0.01	0.01	5	$60	100%	35%	TV-5	226%	74%	0.4	1.1	1.3
7018	Plug Loads	ENERGY STAR TV	N/A	MF	N/A	NC	286	25%	72	0.01	0.01	5	$60	100%	35%	TV-6	237%	0%	0.4	1.1	1.3
7019	Plug Loads	Smart Plug	N/A	SF	NLI	Retrofit	466	11%	50	0.01	0.01	7	$9	100%	35%	PLUG-1	100%	0%	2.4	6.9	6.4
7020	Plug Loads	Smart Plug	N/A	SF	LI	Retrofit	466	11%	50	0.01	0.01	7	$9	100%	35%	PLUG-2	100%	0%	2.4	6.9	6.4
7021	Plug Loads	Smart Plug	N/A	SF	N/A	NC	466	11%	50	0.01	0.01	7	$9	100%	35%	PLUG-3	100%	0%	2.4	6.9	6.4
7022	Plug Loads	Smart Plug	N/A	MF	NLI	Retrofit	466	11%	50	0.01	0.01	7	$9	100%	35%	PLUG-4	100%	0%	2.4	6.9	6.4
7023	Plug Loads	Smart Plug	N/A	MF	LI	Retrofit	466	11%	50	0.01	0.01	7	$9	100%	35%	PLUG-5	100%	0%	2.4	6.9	6.4
7024	Plug Loads	Smart Plug	N/A	MF	N/A	NC	466	11%	50	0.01	0.01	7	$9	100%	35%	PLUG-6	100%	0%	2.4	6.9	6.4
8001	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER1	2,326	64%	1,478	0.17	0.19	10	$549	100%	100%	POOL PUMP-	4%	33%	1.5	1.5	5.0
8002	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER2	2,326	0%	0	0.00	0.00	10	$0	100%	35%	POOL PUMP-	4%	33%	#DIV/0!	1.0	#DIV/0!
8003	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER3	2,326	0%	0	0.00	0.00	10	$314	100%	100%	POOL PUMP-	4%	33%	0.0	0.0	1.0
8004	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	NLI	MO	1,163	27%	315	0.04	0.04	10	$314	100%	37%	POOL PUMP-	4%	33%	0.6	1.5	1.9
8005	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER1	2,326	64%	1,478	0.17	0.19	10	$549	100%	100%	POOL PUMP-	1%	33%	1.5	1.5	5.0
8006	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER2	2,326	0%	0	0.00	0.00	10	$0	100%	35%	POOL PUMP-	1%	33%	#DIV/0!	1.0	#DIV/0!
8007	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER3	2,326	0%	0	0.00	0.00	10	$314	100%	100%	POOL PUMP-	1%	33%	0.0	0.0	1.0
8008	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	SF	LI	MO	1,163	27%	315	0.04	0.04	10	$314	100%	100%	POOL PUMP-	1%	33%	0.6	0.6	2.5
8009	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	N/A	NC	1,163	27%	315	0.04	0.04	10	$314	100%	37%	POOL PUMP-	3%	0%	0.6	1.5	1.9
8010	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER1	2,326	64%	1,478	0.17	0.19	10	$549	100%	100%	POOL PUMP-	4%	33%	1.5	1.5	5.0
8011	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER2	2,326	0%	0	0.00	0.00	10	$0	100%	35%	POOL PUMP-	4%	33%	#DIV/0!	1.0	#DIV/0!
8012	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER3	2,326	0%	0	0.00	0.00	10	$549	100%	100%	POOL PUMP-	4%	33%	0.0	0.0	1.0
8013	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	NLI	MO	1,163	27%	315	0.04	0.04	10	$314	100%	37%	POOL PUMP-	4%	33%	0.6	1.5	1.9
8014	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER1	2,326	64%	1,478	0.17	0.19	10	$549	100%	100%	POOL PUMP-	2%	33%	1.5	1.5	5.0
8015	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER2	2,326	0%	0	0.00	0.00	10	$0	100%	35%	POOL PUMP-	2%	33%	#DIV/0!	1.0	#DIV/0!
8016	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER3	2,326	0%	0	0.00	0.00	10	$549	100%	100%	POOL PUMP-	2%	33%	0.0	0.0	1.0
8017	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	MF	LI	MO	1,163	27%	315	0.04	0.04	10	$314	100%	100%	POOL PUMP-	2%	33%	0.6	0.6	2.5
8018	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	N/A	NC	1,163	27%	315	0.04	0.04	10	$314	100%	37%	POOL PUMP-	3%	0%	0.6	1.5	1.9
8019	Pools	Heat Pump Pool Heater	N/A	SF	N/A	MO	13,238	71%	9,455	1.06	1.19	15	$1,916	100%	35%	HPPH-1	3%	4%	3.6	10.4	10.9
8020	Pools	Heat Pump Pool Heater	N/A	SF	N/A	NC	13,238	71%	9,455	1.06	1.19	15	$1,916	100%	35%	HPPH-2	3%	0%	3.6	10.4	10.9
8021	Pools	Heat Pump Pool Heater	N/A	MF	N/A	MO	13,238	71%	9,455	1.06	1.19	15	$1,916	100%	35%	HPPH-3	3%	3%	3.6	10.4	10.9
8022	Pools	Heat Pump Pool Heater	N/A	MF	N/A	NC	13,238	71%	9,455	1.06	1.19	15	$1,916	100%	35%	HPPH-4	3%	0%	3.6	10.4	10.9
9001	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	NLI	MO	3,009	80%	2,396	0.21	0.62	13	$1,199	100%	24%	HPWH-1	31%	5%	1.5	6.5	4.0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Base Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer NCP kW	Per Unit Winter NCP kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	TRC Score	UCT Score	Participant Test Score
9002	Water Heating	Heat Pump Hot Water Heater	SFIE	SF	LI	MO	3,009	80%	2,396	0.21	0.62	13	$1,199	100%	100%	HPWH-2	38%	3%	1.5	1.5	4.7
9003	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	N/A	NC	3,009	80%	2,396	0.21	0.62	13	$1,199	100%	24%	HPWH-3	33%	0%	1.5	6.5	4.0
9004	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	NLI	MO	3,009	80%	2,396	0.21	0.62	13	$1,199	100%	24%	HPWH-4	56%	2%	1.5	6.5	4.0
9005	Water Heating	Heat Pump Hot Water Heater	MFIE	MF	LI	MO	3,009	80%	2,396	0.21	0.62	13	$1,199	100%	80%	HPWH-5	48%	4%	1.5	1.9	4.5
9006	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	N/A	NC	3,009	80%	2,396	0.21	0.62	13	$1,199	100%	24%	HPWH-6	52%	0%	1.5	6.5	4.0
9007	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	3,009	1%	41	0.00	0.01	10	$11	100%	37%	BATH FAUCET	125%	63%	2.3	6.3	5.7
9008	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	3,009	1%	41	0.00	0.01	10	$11	100%	100%	BATH FAUCET	116%	54%	2.1	2.1	5.9
9009	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	3,009	1%	41	0.00	0.01	10	$11	100%	37%	BATH FAUCET	123%	0%	2.3	6.3	5.7
9010	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	3,009	1%	41	0.00	0.01	10	$11	100%	37%	BATH FAUCET	154%	48%	2.3	6.3	5.7
9011	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	3,009	1%	41	0.00	0.01	10	$11	100%	76%	BATH FAUCET	119%	60%	2.3	3.1	6.1
9012	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	3,009	1%	41	0.00	0.01	10	$11	100%	37%	BATH FAUCET	134%	0%	2.3	6.3	5.7
9013	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	3,009	4%	121	0.01	0.03	10	$11	100%	37%	KITCH FAUCET	31%	63%	7.0	18.7	16.4
9014	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	3,009	4%	121	0.01	0.03	10	$11	100%	100%	KITCH FAUCET	38%	54%	6.3	6.3	15.5
9015	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	3,009	4%	121	0.01	0.03	10	$11	100%	37%	KITCH FAUCET	33%	0%	7.0	18.7	16.4
9016	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	3,009	4%	121	0.01	0.03	10	$11	100%	37%	KITCH FAUCET	56%	48%	7.0	18.7	16.4
9017	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	3,009	4%	121	0.01	0.03	10	$11	100%	76%	KITCH FAUCET	48%	60%	7.0	9.2	16.8
9018	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	3,009	4%	121	0.01	0.03	10	$11	100%	37%	KITCH FAUCET	52%	0%	7.0	18.7	16.4
9019	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	NLI	Retrofit	3,009	7%	208	0.02	0.05	10	$15	100%	55%	LFSH-1	59%	64%	8.9	16.0	20.8
9020	Water Heating	Low Flow Showerhead SFIE DI	SFIE	SF	LI	Retrofit	3,009	7%	208	0.02	0.05	10	$15	100%	100%	LFSH-2	55%	57%	5.2	5.2	13.0
9021	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	N/A	NC	3,009	7%	208	0.02	0.05	10	$15	100%	55%	LFSH-3	58%	0%	8.9	16.0	20.8
9022	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	NLI	Retrofit	3,009	7%	208	0.02	0.05	10	$15	100%	55%	LFSH-4	77%	68%	8.9	16.0	20.8
9023	Water Heating	Low Flow Showerhead SFIE DI	MFIE	MF	LI	Retrofit	3,009	7%	208	0.02	0.05	10	$15	100%	100%	LFSH-5	56%	63%	5.0	5.0	12.5
9024	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	N/A	NC	3,009	7%	208	0.02	0.05	10	$15	100%	55%	LFSH-6	65%	0%	8.9	16.0	20.8
9025	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	NLI	Retrofit	3,009	1%	23	0.00	0.01	12	$28	100%	29%	PIPE-1	31%	30%	0.6	2.1	1.7
9026	Water Heating	Pipe Insulation SFIE DI	SFIE	SF	LI	Retrofit	3,009	1%	23	0.00	0.01	12	$28	100%	100%	PIPE-2	38%	18%	0.6	0.6	2.4
9027	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	N/A	NC	3,009	1%	23	0.00	0.01	12	$28	100%	29%	PIPE-3	33%	0%	0.6	2.1	1.7
9028	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	NLI	Retrofit	3,009	1%	23	0.00	0.01	12	$28	100%	29%	PIPE-4	56%	18%	0.6	2.1	1.7
9029	Water Heating	Pipe Insulation SFIE DI	MFIE	MF	LI	Retrofit	3,009	1%	23	0.00	0.01	12	$28	100%	33%	PIPE-5	48%	30%	0.6	1.8	1.8
9030	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	N/A	NC	3,009	1%	23	0.00	0.01	12	$28	100%	29%	PIPE-6	52%	0%	0.6	2.1	1.7
9031	Water Heating	Thermostatic Restrictor Valve	N/A	SF	NLI	Retrofit	3,009	3%	80	0.01	0.02	10	$35	100%	35%	TRV-1	59%	42%	1.5	4.3	3.8
9032	Water Heating	Thermostatic Restrictor Valve	N/A	SF	LI	Retrofit	3,009	3%	80	0.01	0.02	10	$35	100%	35%	TRV-2	55%	14%	1.5	4.3	3.8
9033	Water Heating	Thermostatic Restrictor Valve	N/A	SF	N/A	NC	3,009	3%	80	0.01	0.02	10	$35	100%	35%	TRV-3	58%	0%	1.5	4.3	3.8
9034	Water Heating	Thermostatic Restrictor Valve	N/A	MF	NLI	Retrofit	3,009	2%	65	0.01	0.02	10	$35	100%	35%	TRV-4	77%	21%	1.2	3.5	3.1
9035	Water Heating	Thermostatic Restrictor Valve	N/A	MF	LI	Retrofit	3,009	2%	65	0.01	0.02	10	$35	100%	35%	TRV-5	56%	8%	1.2	3.5	3.1
9036	Water Heating	Thermostatic Restrictor Valve	N/A	MF	N/A	NC	3,009	2%	65	0.01	0.02	10	$35	100%	35%	TRV-6	65%	0%	1.2	3.5	3.1
9037	Water Heating	Water Heater Wrap	N/A	SF	NLI	Retrofit	3,009	8%	246	0.02	0.06	5	$64	100%	35%	WH WRAP-1	31%	7%	1.5	4.4	3.3
9038	Water Heating	Water Heater Wrap	N/A	SF	LI	Retrofit	3,009	8%	246	0.02	0.06	5	$64	100%	35%	WH WRAP-2	38%	7%	1.5	4.4	3.3
9039	Water Heating	Water Heater Wrap	N/A	SF	N/A	NC	3,009	8%	246	0.02	0.06	5	$64	100%	35%	WH WRAP-3	33%	0%	1.5	4.4	3.3
9040	Water Heating	Water Heater Wrap	N/A	MF	NLI	Retrofit	3,009	8%	228	0.02	0.06	5	$60	100%	35%	WH WRAP-4	56%	7%	1.5	4.4	3.3
9041	Water Heating	Water Heater Wrap	N/A	MF	LI	Retrofit	3,009	8%	228	0.02	0.06	5	$60	100%	35%	WH WRAP-5	48%	7%	1.5	4.4	3.3
9042	Water Heating	Water Heater Wrap	N/A	MF	N/A	NC	3,009	8%	228	0.02	0.06	5	$60	100%	35%	WH WRAP-6	52%	0%	1.5	4.4	3.3
9043	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	Retrofit	3,009	18%	538	0.05	0.14	30	$744	100%	35%	GFHE-1	33%	0%	0.9	2.5	2.8
9044	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	NC	3,009	18%	538	0.05	0.14	30	$744	100%	35%	GFHE-2	33%	0%	0.9	2.5	2.8
9045	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	Retrofit	3,009	15%	439	0.04	0.11	30	$744	100%	35%	GFHE-3	52%	0%	0.7	2.1	2.4
9046	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	NC	3,009	15%	439	0.04	0.11	30	$744	100%	35%	GFHE-4	52%	0%	0.7	2.1	2.4
9047	Water Heating	Water Heater Timer / Setback	N/A	SF	NLI	Retrofit	3,009	4%	121	0.01	0.03	2	$5	100%	35%	WHTS-1	31%	0%	4.1	11.8	7.7
9048	Water Heating	Water Heater Timer / Setback	N/A	SF	LI	Retrofit	3,009	4%	121	0.01	0.03	2	$5	100%	35%	WHTS-2	38%	0%	4.1	11.8	7.7
9049	Water Heating	Water Heater Timer / Setback	N/A	SF	N/A	NC	3,009	4%	121	0.01	0.03	2	$5	100%	35%	WHTS-3	33%	0%	4.1	11.8	7.7
9050	Water Heating	Water Heater Timer / Setback	N/A	MF	NLI	Retrofit	3,009	4%	121	0.01	0.03	2	$5	100%	35%	WHTS-4	56%	0%	4.1	11.8	7.7
9051	Water Heating	Water Heater Timer / Setback	N/A	MF	LI	Retrofit	3,009	4%	121	0.01	0.03	2	$5	100%	35%	WHTS-5	48%	0%	4.1	11.8	7.7
9052	Water Heating	Water Heater Timer / Setback	N/A	MF	N/A	NC	3,009	4%	121	0.01	0.03	2	$5	100%	35%	WHTS-6	52%	0%	4.1	11.8	7.7

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1001	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	NLI	MO	9	12	16	22	29	39	50	63	77	92	108	122	135	146	155	162	168	172	177	179
1002	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	SFIE	SF	LI	MO	8	10	13	15	19	22	25	27	29	31	33	34	35	35	36	36	36	36	36	36
1003	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	14	5	4
1004	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	NLI	MO	2	2	3	4	5	6	8	9	11	12	13	15	15	16	17	17	17	18	17	17
1005	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	MFIE	MF	LI	MO	7	8	9	10	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12
1006	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
1007	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	NLI	MO	12	16	22	29	39	51	66	83	102	122	142	161	178	193	205	214	221	227	233	237
1008	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	SFIE	SF	LI	MO	3	4	5	7	8	9	10	11	12	13	14	14	15	15	15	15	15	15	15	15
1009	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	N/A	NC	0	0	0	0	1	1	1	0	1	3	2	3	3	3	2	2	1	18	7	6
1010	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	NLI	MO	2	3	4	5	7	8	10	12	14	16	18	19	20	21	22	23	23	23	23	23
1011	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	MFIE	MF	LI	MO	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1012	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1
1013	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	NLI	MO	22	30	41	55	73	96	124	156	192	230	268	303	335	363	385	403	416	427	440	446
1014	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	SFIE	SF	LI	MO	24	31	39	48	57	67	76	84	91	97	102	105	108	110	111	111	111	111	112	112
1015	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	5	4	5	5	5	4	4	2	34	13	11
1016	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	NLI	MO	4	5	7	10	12	16	19	23	27	30	33	36	38	40	42	43	43	44	43	43
1017	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	MFIE	MF	LI	MO	18	20	23	25	26	27	28	29	30	30	30	30	30	30	30	30	30	30	30	30
1018	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	5	2	2
1019	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	NLI	MO	5	7	10	13	17	22	29	36	45	54	63	71	78	85	90	94	97	100	103	104
1020	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	SFIE	SF	LI	MO	7	9	11	14	17	19	22	24	26	28	29	30	31	32	32	32	32	32	32	32
1021	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	8	3	2
1022	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	NLI	MO	1	1	2	2	3	4	4	5	6	7	8	8	9	9	10	10	10	10	10	10
1023	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	MFIE	MF	LI	MO	4	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1024	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
1025	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	NLI	MO	16	21	29	39	52	68	88	111	137	164	190	216	239	258	274	287	296	304	313	317
1026	Appliances	ENERGY STAR Dehumidifier	SFIE	SF	LI	MO	22	30	39	52	67	84	104	124	145	164	182	197	209	219	226	232	236	239	241	242
1027	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	6	6	6	6	5	34	7	5
1028	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	NLI	MO	2	3	4	5	6	8	11	13	17	20	23	26	29	31	33	35	36	37	38	38
1029	Appliances	ENERGY STAR Dehumidifier	MFIE	MF	LI	MO	18	22	27	33	38	44	48	52	56	58	60	62	63	64	64	64	64	64	64	64
1030	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	5	1	1
1031	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	NLI	MO	21	28	39	52	69	91	117	148	182	218	254	288	318	344	365	382	395	405	417	423
1032	Appliances	ENERGY STAR Most Efficient Dehumidifier	SFIE	SF	LI	MO	6	8	11	14	18	23	28	34	40	45	50	54	57	60	62	64	65	66	66	66
1033	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	7	7	8	8	7	43	9	6
1034	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	NLI	MO	3	3	5	6	8	11	14	18	22	26	31	35	39	42	44	46	48	49	50	51
1035	Appliances	ENERGY STAR Most Efficient Dehumidifier	MFIE	MF	LI	MO	8	10	12	14	17	19	21	23	24	25	26	27	27	28	28	28	27	27	28	28
1036	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	6	1	1
1037	Appliances	Dehumidifier Recycling	N/A	SF	N/A	Recycle	10	14	20	26	35	46	60	75	92	111	129	146	161	174	185	194	200	205	211	214
1038	Appliances	Dehumidifier Recycling	N/A	MF	N/A	Recycle	2	3	3	5	6	8	10	13	16	19	23	26	28	31	32	34	35	36	37	38
1039	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER1	29	40	55	74	99	129	167	210	259	310	361	409	452	489	519	543	561	576	592	601
1040	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	11	14	17	20
1041	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6
1042	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER1	82	106	134	165	197	230	261	289	313	333	349	361	371	377	382	382	381	381	385	385
1043	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	5	7	9	11	13	15	17	19	20	22
1044	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	9	11	13
1045	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER1	3	4	5	7	9	12	15	19	23	28	32	37	41	44	47	49	50	52	53	54
1046	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2
1047	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1048	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER1	52	59	65	71	75	79	82	84	86	87	87	87	87	87	87	87	87	87	88	88
1049	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	3	4	4	5	5	5	5	5	6	6
1050	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	4	5	5
1051	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER1	48	66	89	120	160	211	272	343	421	504	588	666	736	796	845	884	914	937	964	979
1052	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	2	2	3	4	5	7	9	11	13	16
1053	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	4	5
1054	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER1	134	172	218	268	321	375	426	471	511	543	569	589	604	614	622	621	621	621	626	627
1055	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	4	6	7	9	10	12	14	15	16	17
1056	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	7	9	10
1057	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER1	4	6	8	11	14	19	24	31	38	45	53	60	66	72	76	79	82	84	87	88
1058	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1059	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1060	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER1	84	96	106	115	123	129	134	137	140	142	142	142	142	142	142	141	141	141	143	143
1061	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	3	3	3	4	4	4	4	4	4	5
1062	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	4	4
1063	Appliances	Refrigerator Recycling	N/A	SF	N/A	Recycle	62	84	115	155	207	271	350	441	542	649	756	857	947	1,025	1,088	1,138	1,176	1,207	1,241	1,260
1064	Appliances	Refrigerator Recycling	N/A	MF	N/A	Recycle	3	4	5	7	9	12	15	19	24	28	33	38	42	45	48	50	52	53	54	55
1065	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	NLI	MO	4	6	7	10	13	18	23	29	35	42	49	56	62	67	71	74	77	79	81	82
1066	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	LI	MO	2	2	3	4	6	8	10	13	16	19	22	25	27	29	31	33	34	35	36	36
1067	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1	1
1068	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	NLI	MO	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1069	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	LI	MO	0	0	0	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	4	4
1070	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
1071	Appliances	Freezer Recycling	N/A	SF	N/A	Recycle	62	85	115	156	207	272	351	443	545	652	760	861	952	1,029	1,093	1,143	1,182	1,212	1,247	1,265
1072	Appliances	Freezer Recycling	N/A	MF	N/A	Recycle	3	4	5	7	9	12	15	19	24	29	33	38	42	45	48	50	52	53	55	55
1073	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	NLI	MO	112	154	209	282	377	494	637	804	988	1,183	1,379	1,562	1,727	1,868	1,984	2,075	2,144	2,200	2,263	2,296
1074	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	LI	MO	48	65	89	120	160	210	271	341	420	502	585	663	733	793	842	881	910	934	961	975
1075	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	N/A	NC	2	2	3	4	4	5	5	3	4	4	0	0	0	0	31	28	30	166	40	36
1076	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	NLI	MO	9	13	17	23	31	41	53	67	82	98	114	130	143	155	165	172	178	183	188	191
1077	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	LI	MO	9	12	16	21	29	37	48	61	75	90	104	118	131	142	150	157	162	167	171	174
1078	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	N/A	NC	0	0	0	1	1	1	1	0	1	1	0	0	0	0	4	4	4	24	6	5
1079	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	NLI	MO	83	113	154	208	277	363	466	586	719	857	994	1,121	1,233	1,326	1,400	1,455	1,495	1,519	1,554	1,568
1080	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	LI	MO	29	40	54	73	98	128	165	207	254	303	351	396	435	468	494	514	528	536	549	554
1081	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	N/A	NC	2	3	4	5	5	6	6	4	5	5	0	0	0	0	36	33	34	188	45	40
1082	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	NLI	MO	10	14	19	25	34	44	57	71	87	104	121	136	149	161	170	176	181	184	188	190
1083	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	LI	MO	8	12	16	21	28	37	48	60	74	88	102	115	126	136	144	149	153	156	159	161
1084	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	6	6	6	33	8	7
1085	Appliances	Heat Pump Dryer	N/A	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1086	Appliances	Heat Pump Dryer	N/A	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1087	Appliances	Heat Pump Dryer	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1088	Appliances	Heat Pump Dryer	N/A	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1089	Appliances	Heat Pump Dryer	N/A	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1090	Appliances	Heat Pump Dryer	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1091	Appliances	Ultrasonic Clothes Dryer	N/A	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1092	Appliances	Ultrasonic Clothes Dryer	N/A	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1093	Appliances	Ultrasonic Clothes Dryer	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1094	Appliances	Ultrasonic Clothes Dryer	N/A	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1095	Appliances	Ultrasonic Clothes Dryer	N/A	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1096	Appliances	Ultrasonic Clothes Dryer	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1097	Appliances	ENERGY STAR Dishwasher	N/A	SF	NLI	MO	53	72	98	132	176	232	298	376	463	554	645	731	809	875	929	971	1,004	1,030	1,059	1,075
1098	Appliances	ENERGY STAR Dishwasher	N/A	SF	LI	MO	25	34	46	62	83	109	140	177	218	261	304	344	381	412	437	457	472	485	499	506
1099	Appliances	ENERGY STAR Dishwasher	N/A	SF	N/A	NC	1	1	1	1	2	2	2	1	2	2	0	9	9	10	10	9	8	57	9	9
1100	Appliances	ENERGY STAR Dishwasher	N/A	MF	NLI	MO	6	9	12	16	21	28	36	46	56	67	78	89	98	106	113	118	122	125	128	130
1101	Appliances	ENERGY STAR Dishwasher	N/A	MF	LI	MO	7	10	13	18	24	32	41	51	63	76	88	100	111	120	127	133	137	141	145	147
1102	Appliances	ENERGY STAR Dishwasher	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	1	10	2	2
2001	Behavior	Home Energy Reports	N/A	SF	NLI	MO	1,338	1,835	2,497	3,368	4,490	5,896	7,600	9,584	11,786	14,112	16,440	18,630	20,594	22,276	23,653	24,739	25,568	26,230	26,981	27,379
2002	Behavior	Home Energy Reports	N/A	SF	LI	MO	630	863	1,175	1,585	2,113	2,775	3,577	4,510	5,546	6,641	7,736	8,767	9,691	10,483	11,131	11,642	12,032	12,344	12,697	12,884
2003	Behavior	Home Energy Reports	N/A	SF	N/A	NC	5	12	24	43	68	102	144	190	244	304	354	401	443	480	510	534	553	927	982	1,034
2004	Behavior	Home Energy Reports	N/A	MF	NLI	MO	81	111	151	204	272	357	461	581	714	855	996	1,129	1,248	1,350	1,433	1,499	1,550	1,590	1,635	1,659
2005	Behavior	Home Energy Reports	N/A	MF	LI	MO	91	125	171	230	307	403	519	655	805	964	1,124	1,273	1,407	1,522	1,616	1,691	1,747	1,793	1,844	1,871
2006	Behavior	Home Energy Reports	N/A	MF	N/A	NC	0	1	2	4	6	9	13	17	21	27	31	35	39	42	45	47	49	81	86	91
3001	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3002	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	138	138	130	117	100	82	65	50	38	28	21	0	0	0	0	0	0	0	0	0
3003	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	1	1	1	1	2	2	2	3	3	3	3	3	2	2	2	1	1	1	1	0
3004	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3005	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3006	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	SFIE	SF	LI	Retrofit	43	43	41	36	31	25	20	16	12	9	6	0	0	0	0	0	0	0	0	0
3007	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3008	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3009	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3010	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	SFIE	SF	LI	Retrofit	44	44	41	37	32	26	21	16	12	9	7	0	0	0	0	0	0	0	0	0
3011	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3012	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3013	Building Shell	Door Sweep	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3014	Building Shell	Door Sweep	SFIE	SF	LI	Retrofit	30	30	29	26	22	18	14	11	8	6	5	0	0	0	0	27	27	25	22	19
3015	Building Shell	Door Sweep	PAYS	MF	NLI	Retrofit	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3016	Building Shell	Door Sweep	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3017	Building Shell	Weatherstripping: 17' Roll	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3018	Building Shell	Weatherstripping: 17' Roll	SFIE	SF	LI	Retrofit	20	20	19	17	15	12	9	7	6	4	3	0	0	0	0	0	0	0	0	0
3019	Building Shell	Weatherstripping: 17' Roll	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3020	Building Shell	Weatherstripping: 17' Roll	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3021	Building Shell	Duct Insulation - Electric Heating	PAYS	SF	NLI	Retrofit	214	320	355	378	414	515	620	716	789	826	819	769	686	584	478	378	291	218	164	121
3022	Building Shell	Duct Insulation - Electric Heating	SFIE	SF	LI	Retrofit	283	353	426	493	545	571	568	534	477	407	333	264	203	153	114	84	0	0	0	0
3023	Building Shell	Duct Insulation - Gas Heating	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3024	Building Shell	Duct Insulation - Gas Heating	SFIE	SF	LI	Retrofit	66	76	85	89	88	83	74	64	52	41	32	24	18	13	0	0	0	0	0	0
3025	Building Shell	Duct Repair (Sealing) - Electric Heating SF	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3026	Building Shell	Duct Repair (Sealing) - Electric Heating SF	SFIE	SF	LI	Retrofit	88	92	92	87	78	66	54	43	33	25	19	14	0	0	0	0	0	0	0	0
3027	Building Shell	Duct Repair (Sealing) - Gas Heating SF	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3028	Building Shell	Duct Repair (Sealing) - Gas Heating SF	SFIE	SF	LI	Retrofit	33	35	35	33	29	25	21	16	13	10	7	5	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3029	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3030	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	MFIE	MF	LI	Retrofit	2	2	3	3	4	4	5	5	5	5	4	4	3	2	2	1	1	1	0	0
3031	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3032	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	MFIE	MF	LI	Retrofit	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
3033	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3034	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	19	17	15	12	10	8	6	4	3	0	0	0	0	0	0	0	0	0	0	0
3035	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3036	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	6	5	4	4	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
3037	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3038	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	5	4	4	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
3039	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3040	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	2	2	2	2	3	3	4	4	4	4	3	3	2	2	1	1	1	1	0	0
3041	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3042	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3043	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3044	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
3045	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3046	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	76	68	59	48	38	30	22	17	12	0	0	0	0	0	0	0	0	0	0	0
3047	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3048	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	21	19	16	13	10	8	6	5	3	0	0	0	0	0	0	0	0	0	0	0
3049	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3050	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	19	17	14	12	9	7	6	4	3	0	0	0	0	0	0	0	0	0	0	0
3051	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	14	15	19	23	27	29	31	31	29	26	22	18	14	11	8	6	5	0	0	0
3052	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	8	8	9	12	14	16	18	19	18	17	16	13	11	9	7	5	4	3	0	0
3053	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3054	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	0	0	0	0	0
3055	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	2	2	3	4	4	4	5	5	4	4	3	3	2	2	1	1	1	0	0	0
3056	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	2	2	2	3	3	3	3	3	3	2	2	1	1	1	1	0	0	0
3057	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3058	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	76	68	58	48	38	29	22	17	12	0	0	0	0	0	0	0	0	0	0	0
3059	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3060	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	21	19	16	13	11	8	6	5	3	0	0	0	0	0	0	0	0	0	0	0
3061	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3062	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	19	17	14	12	9	7	5	4	3	0	0	0	0	0	0	0	0	0	0	0
3063	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	11	12	15	18	21	23	25	24	23	21	17	14	11	9	7	5	4	0	0	0
3064	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	6	7	7	9	11	13	14	15	15	14	12	11	9	7	5	4	3	2	0	0
3065	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3066	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
3067	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	2	2	2	3	3	4	4	4	3	3	3	2	2	1	1	1	1	0	0	0
3068	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0
3069	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3070	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	55	50	42	35	28	21	16	12	9	0	0	0	0	0	0	0	0	0	0	0
3071	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3072	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	15	14	12	10	8	6	4	3	2	0	0	0	0	0	0	0	0	0	0	0
3073	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3074	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	14	12	11	9	7	5	4	3	2	0	0	0	0	0	0	0	0	0	0	0
3075	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	8	9	11	13	15	17	18	18	17	15	13	10	8	6	5	4	3	0	0	0
3076	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	5	5	5	7	8	9	10	11	11	10	9	8	6	5	4	3	2	2	0	0
3077	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3078	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
3079	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3080	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0
3081	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3082	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	45	40	35	28	23	17	13	10	7	0	0	0	0	0	0	0	0	0	0	0
3083	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3084	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	12	11	9	8	6	5	4	3	2	0	0	0	0	0	0	0	0	0	0	0
3085	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3086	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11	10	9	7	6	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0
3087	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3088	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	4	4	4	5	7	8	8	9	9	8	7	6	5	4	3	2	2	1	0	0
3089	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3090	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
3091	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3092	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
3093	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Heat Pump Heating	SFIE	SF	LI	Retrofit	3	4	4	5	6	7	7	7	7	6	5	4	3	3	2	4	4	4	5	5
3094	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Non-Electric Heating	SFIE	SF	LI	Retrofit	39	43	54	65	75	83	87	87	81	73	62	51	40	31	23	52	51	47	57	66
3095	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Heat Pump Heating	SFIE	SF	LI	Retrofit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
3096	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Non-Electric Heating	SFIE	SF	LI	Retrofit	8	9	11	13	15	17	18	18	17	15	13	10	8	6	5	11	10	10	12	13

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3097	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Heat Pump Heating	SFIE	SF	LI	Retrofit	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
3098	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Non-Electric Heating	SFIE	SF	LI	Retrofit	4	5	6	7	8	9	9	9	9	8	6	5	4	3	2	5	5	5	6	7
3099	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Heat Pump Heating	SFIE	SF	LI	Retrofit	11	12	15	18	21	23	24	24	23	20	17	14	11	9	7	15	14	13	16	18
3100	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Non-Electric Heating	SFIE	SF	LI	Retrofit	134	147	183	221	255	282	295	293	276	246	210	172	136	105	79	178	173	160	193	223
3101	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Heat Pump Heating	MFIE	MF	LI	Retrofit	1	1	2	2	2	2	1	1	1	1	1	0	0	0	0	1	1	1	1	1
3102	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Non-Electric Heating	MFIE	MF	LI	Retrofit	5	6	7	7	7	7	6	5	4	3	3	2	1	1	0	5	6	6	6	6
3103	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Heat Pump Heating	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3104	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Non-Electric Heating	MFIE	MF	LI	Retrofit	2	3	3	3	3	3	3	2	2	1	1	1	1	0	0	2	2	3	3	3
3105	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Heat Pump Heating	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3106	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Non-Electric Heating	MFIE	MF	LI	Retrofit	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	2	2	2	2	2
3107	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Heat Pump Heating	MFIE	MF	LI	Retrofit	2	3	3	3	3	3	3	2	2	1	1	1	1	0	0	2	2	3	3	3
3108	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Non-Electric Heating	MFIE	MF	LI	Retrofit	11	12	14	14	14	13	12	10	8	7	5	4	3	2	0	9	11	12	13	12
3109	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3110	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	5	5	6	6	5	5	4	3	3	2	2	1	1	0	0	0	0	0	0	0
3111	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3112	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3113	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3114	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3115	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	172	257	285	304	333	414	498	575	634	664	658	618	551	469	384	304	234	176	132	97
3116	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	237	276	305	321	319	300	268	229	188	149	115	87	64	47	0	0	0	0	0	0
3117	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3118	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	115	127	134	133	125	112	96	79	62	48	36	27	20	0	0	0	0	0	0	0
3119	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	60	89	99	106	116	144	173	200	220	231	229	215	192	163	133	106	81	61	46	34
3120	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	59	68	75	79	79	74	66	57	46	37	28	21	16	12	0	0	0	0	0	0
3121	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3122	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3123	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3124	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3125	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3126	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3127	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3128	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3129	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3130	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3131	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3132	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3133	Building Shell	Wall Insulation - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3134	Building Shell	Wall Insulation - Heat pump	N/A	SF	LI	Retrofit	5	6	7	8	10	11	11	11	10	9	8	6	5	4	3	2	2	0	0	0
3135	Building Shell	Wall Insulation - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3136	Building Shell	Wall Insulation - Heat pump	N/A	MF	LI	Retrofit	1	1	1	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0
3137	Building Shell	Wall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3138	Building Shell	Wall Insulation - Electric furnace	N/A	SF	LI	Retrofit	22	24	30	36	42	46	48	48	45	40	34	28	22	17	13	10	7	0	0	0
3139	Building Shell	Wall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
3140	Building Shell	Wall Insulation - Electric furnace	N/A	MF	LI	Retrofit	7	8	10	11	11	11	10	9	8	7	5	4	3	2	2	0	0	0	0	0
3141	Building Shell	Wall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3142	Building Shell	Wall Insulation - Gas Heating	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3143	Building Shell	Wall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3144	Building Shell	Wall Insulation - Gas Heating	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3145	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3146	Building Shell	Spray Foam Insulation: 12 oz. Can	SFIE	SF	LI	Retrofit	57	57	54	48	41	34	27	21	16	12	9	0	0	0	0	0	0	0	0	0
3147	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	N/A	NC	2	2	3	3	4	4	4	3	4	4	0	0	0	0	0	0	0	109	11	11
3148	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	NLI	Retrofit	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
3149	Building Shell	Spray Foam Insulation: 12 oz. Can	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3150	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	N/A	NC	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	13	1	1
3151	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3152	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	76	95	114	132	146	153	152	143	128	109	89	71	55	41	31	22	0	0	0	0
3153	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3154	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	13	14	15	19	22	26	28	30	30	28	25	21	17	14	11	8	6	4	0	0
3155	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	255	381	422	450	493	613	737	852	939	983	975	915	816	695	568	450	347	260	195	144
3156	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	221	276	333	386	427	448	445	418	374	319	261	207	159	120	89	66	0	0	0	0
3157	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	49	73	81	86	94	117	141	163	180	188	187	175	156	133	109	86	66	50	37	28
3158	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	522	494	443	379	311	247	191	145	108	79	0	0	0	0	0	0	0	0	0	0
3159	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3160	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	69	86	103	120	132	139	138	130	116	99	81	64	49	37	28	20	0	0	0	0
3161	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3162	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	11	12	13	17	20	23	26	27	27	25	22	19	16	12	10	7	5	4	0	0
3163	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	254	381	421	449	492	612	736	851	938	982	974	914	815	694	568	449	346	260	195	144
3164	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	221	276	333	386	426	447	444	418	373	318	261	206	159	120	89	66	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3165	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	49	73	81	86	94	117	141	163	180	188	187	175	156	133	109	86	66	50	37	28
3166	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	521	493	442	378	311	247	191	144	107	79	0	0	0	0	0	0	0	0	0	0
3167	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3168	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	27	33	40	46	51	54	53	50	45	38	31	25	19	14	11	8	0	0	0	0
3169	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3170	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	1	2	2	2	3	3	3	3	3	3	3	2	2	2	1	1	1	1	0	0
3171	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3172	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	51	63	76	88	98	103	102	96	86	73	60	47	36	28	20	15	0	0	0	0
3173	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3174	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	3	3	3	4	5	6	6	7	7	6	6	5	4	3	2	2	1	1	0	0
3175	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3176	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	18	23	28	32	36	37	37	35	31	27	22	17	13	10	7	5	0	0	0	0
3177	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3178	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0
3179	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3180	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	51	63	76	88	98	103	102	96	86	73	60	47	36	28	20	15	0	0	0	0
3181	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3182	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	3	3	3	4	5	6	6	7	7	6	6	5	4	3	2	2	1	1	0	0
3183	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3184	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	19	24	29	34	37	39	39	36	32	28	23	18	14	10	8	6	0	0	0	0
3185	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3186	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	2	2	2	3	3	4	4	5	5	4	4	3	3	2	2	1	1	1	0	0
3187	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	89	133	147	156	171	213	256	296	327	342	339	318	284	242	198	156	121	90	68	50
3188	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	54	67	81	94	104	109	108	102	91	78	64	50	39	29	22	16	0	0	0	0
3189	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	7	11	12	13	14	18	21	25	27	29	28	27	24	20	16	13	10	8	6	4
3190	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	70	58	46	36	27	20	15	0	0	0	0	0	0	0	0	0	0	0	0	0
3191	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3192	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	17	21	25	29	33	34	34	32	28	24	20	16	12	9	7	5	0	0	0	0
3193	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3194	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	2	2	2	3	3	4	4	4	4	4	3	3	2	2	1	1	1	1	0	0
3195	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	89	133	147	156	171	213	256	296	327	342	339	318	284	242	198	156	121	90	68	50
3196	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	54	67	81	94	104	109	108	102	91	78	64	50	39	29	22	16	0	0	0	0
3197	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	7	11	12	13	14	18	21	25	27	29	28	27	24	20	16	13	10	8	6	4
3198	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	70	58	46	36	27	20	15	0	0	0	0	0	0	0	0	0	0	0	0	0
3199	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3200	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3201	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3202	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3203	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3204	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3205	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3206	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3207	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3208	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3209	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3210	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3211	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3212	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3213	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3214	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3215	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3216	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3217	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	NLI	Retrofit	2	4	4	4	5	6	7	8	9	9	11	11	11	10	9	8	8	8	8	8
3218	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	LI	Retrofit	8	12	13	14	15	19	23	26	29	31	36	37	35	32	29	27	27	27	27	26
3219	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3220	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3221	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3222	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3223	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3224	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3225	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3226	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3227	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	1,307	1,956	2,166	2,310	2,530	3,146	3,785	4,373	4,820	5,048	5,005	4,699	4,190	3,568	2,918	2,310	1,780	1,334	1,003	739
3228	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	115	172	190	203	222	276	332	383	423	443	439	412	367	313	256	203	156	117	88	65
3229	Building Shell	Floor Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3230	Building Shell	Floor Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3231	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	87	130	144	154	169	210	252	292	321	337	334	313	279	238	195	154	119	89	67	49
3232	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	8	11	13	14	15	18	22	26	28	30	29	27	24	21	17	14	10	8	6	4

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3233	Building Shell	Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3234	Building Shell	Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	NLI	MO	83	96	109	121	131	139	146	151	155	158	160	141	137	134	131	129	127	125	125	125
4002	HVAC	ASHP-SEER15_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4003	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	N/A	NC	1	1	1	2	2	2	2	1	2	2	0	0	0	0	0	0	0	61	22	21
4004	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4005	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4006	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4007	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4008	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4009	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4010	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4011	HVAC	ASHP-SEER15_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4012	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4013	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER1	4	5	6	7	8	9	10	11	11	12	12	12	12	12	12	12	12	12	12	12
4014	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	3	3	3	3
4015	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4016	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER1	150	170	188	204	217	227	235	241	246	249	249	249	248	248	248	247	247	247	249	249
4017	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	47	53	59	64	68	71	74	76
4018	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	53
4019	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	NLI	MO	86	100	113	126	136	145	152	157	161	164	166	146	143	139	136	134	132	130	130	129
4020	HVAC	ASHP-SEER16_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4021	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	23	8	8
4022	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER1	62	73	82	91	99	105	110	114	117	119	121	120	120	120	120	120	120	120	121	121
4023	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	20	23	26	29	32	34	35	37
4024	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	23
4025	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER1	6	9	12	16	22	28	36	46	56	67	78	89	98	106	113	118	122	125	128	130
4026	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	7	9	12	15
4027	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4028	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	NLI	MO	3	3	4	4	5	5	5	5	6	6	6	5	5	5	5	5	5	4	4	4
4029	HVAC	ASHP-SEER16_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4030	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4031	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER1	4	4	5	6	7	8	8	9	9	10	10	10	10	10	10	10	10	10	10	10
4032	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	3	3	3
4033	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4034	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER1	137	155	172	186	198	207	215	220	224	227	227	227	227	226	226	226	225	225	227	228
4035	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	48	54	60	65	70	73	76	78
4036	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	54
4037	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	NLI	MO	118	138	156	173	188	199	209	216	222	226	229	201	197	192	188	185	182	179	179	178
4038	HVAC	ASHP-SEER17_ROF_SF	PAYS	SF	LI	MO	3	5	6	9	12	15	19	25	30	36	42	47	52	57	60	63	65	67	69	70
4039	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	31	11	10
4040	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER1	74	86	98	108	117	125	131	135	139	141	143	143	143	143	142	142	142	142	143	143
4041	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	28	32	37	41	44	47	49	51
4042	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	32
4043	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER1	8	11	14	19	26	34	43	54	67	80	93	105	116	126	134	140	145	148	152	155
4044	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	7	10	13	16	21
4045	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
4046	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	NLI	MO	4	4	5	5	6	6	6	7	7	7	7	6	6	6	6	6	6	6	6	6
4047	HVAC	ASHP-SEER17_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4048	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4049	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4050	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4051	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4052	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER1	57	63	69	73	77	79	81	83	84	84	84	84	84	84	84	83	83	83	84	84
4053	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	24	26	29	30	32	33	34	35
4054	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	26
4055	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	NLI	MO	119	139	158	175	190	202	211	219	224	228	231	203	199	194	190	187	184	181	181	180
4056	HVAC	ASHP-SEER18_ROF_SF	PAYS	SF	LI	MO	5	6	9	12	16	21	27	34	41	49	58	65	72	78	83	86	89	91	94	96
4057	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	30	11	10
4058	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER1	106	123	140	155	168	178	187	193	198	202	205	204	204	204	204	203	203	203	205	205
4059	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	44	52	59	65	70	75	79	81
4060	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	52
4061	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER1	11	15	20	27	37	48	62	78	96	114	133	151	167	180	191	200	207	212	218	221
4062	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	5	6	9	12	15	20	26	33
4063	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6
4064	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	NLI	MO	3	3	4	4	5	5	5	5	6	6	6	5	5	5	5	5	5	5	5	5
4065	HVAC	ASHP-SEER18_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4066	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4067	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER1	4	5	7	8	9	10	10	11	12	12	12	12	13	13	13	13	13	13	13	13
4068	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	3	3	4	4	4
4069	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
4070	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER1	102	113	123	130	137	142	145	148	150	150	150	150	149	149	149	149	149	148	150	150
4071	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	39	44	47	50	53	55	56	57
4072	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	44
4073	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	NLI	MO	116	136	154	170	185	196	206	213	218	222	225	198	194	189	185	182	179	176	177	175
4074	HVAC	ASHP-SEER19_ROF_SF	PAYS	SF	LI	MO	6	8	11	15	19	26	33	41	51	61	71	80	89	96	102	106	110	113	116	118
4075	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	28	10	10
4076	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER1	141	165	187	207	224	238	250	258	265	270	273	273	273	272	272	272	271	271	274	274
4077	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	68	79	90	99	108	115	120	125
4078	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	79
4079	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER1	15	20	27	37	49	64	83	104	128	153	178	201	223	241	256	267	276	283	291	296
4080	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	7	10	13	18	24	31	40	50
4081	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	10
4082	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	NLI	MO	3	3	3	4	4	4	5	5	5	5	5	4	4	4	4	4	4	4	4	4
4083	HVAC	ASHP-SEER19_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4084	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4085	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4086	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4087	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4088	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER1	34	36	38	39	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
4089	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	15	16	17	17	18	18	18	18
4090	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	16
4091	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	NLI	MO	124	144	164	181	196	209	219	227	232	237	240	211	206	201	197	193	190	188	188	187
4092	HVAC	ASHP-SEER20_ROF_SF	PAYS	SF	LI	MO	6	9	12	16	21	27	35	44	54	65	75	85	94	102	108	113	117	120	123	125
4093	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	31	11	10
4094	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER1	87	102	116	128	139	148	155	160	164	167	169	169	169	169	168	168	168	168	169	170
4095	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	41	48	55	61	66	70	74	76
4096	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	48
4097	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER1	9	12	17	23	30	40	51	64	79	95	110	125	138	149	158	165	171	175	180	183
4098	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	4	6	8	11	14	19	24	31
4099	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6
4100	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	NLI	MO	3	3	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4
4101	HVAC	ASHP-SEER20_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4102	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
4103	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4104	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4105	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4106	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER1	35	38	39	41	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
4107	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	16	17	18	18	19	19	19	20
4108	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	17
4109	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	NLI	MO	194	227	257	285	309	328	344	356	365	371	376	331	323	316	309	304	299	295	295	293
4110	HVAC	ASHP-SEER21_ROF_SF	PAYS	SF	LI	MO	10	13	18	24	33	43	55	69	85	102	118	134	148	160	170	178	184	188	194	197
4111	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	N/A	NC	1	1	1	1	2	2	2	1	2	2	0	0	0	0	0	0	0	51	19	17
4112	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER1	137	159	181	200	217	231	242	250	256	261	265	264	264	264	263	263	263	262	265	265
4113	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	72	84	95	106	115	122	128	133
4114	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	84
4115	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER1	14	19	26	36	47	62	80	101	124	148	172	195	215	233	247	259	267	274	282	286
4116	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	7	10	14	19	25	33	42	53
4117	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	10
4118	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	NLI	MO	3	3	4	4	5	5	5	5	6	6	6	5	5	5	5	5	5	4	4	4
4119	HVAC	ASHP-SEER21_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4120	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4121	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4122	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4123	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4124	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER1	37	39	41	42	44	44	45	45	45	45	45	45	45	45	45	45	45	45	45	45
4125	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	17	18	19	19	20	20	21	21
4126	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	18
4127	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	NLI	MO	102	119	135	150	162	172	181	187	192	195	198	174	170	166	163	160	157	155	155	154
4128	HVAC	GSHP-EER23_ROF_SF	PAYS	SF	LI	MO	12	16	22	30	40	52	67	84	103	124	144	163	180	194	206	216	223	229	235	239
4129	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	N/A	NC	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	18	7	6
4130	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4131	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4132	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4133	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4134	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4135	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4136	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	NLI	MO	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
4137	HVAC	DFHP-SEER19-ROF_MF	MFIE	MF	LI	MO	6	7	7	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9
4138	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4139	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	NLI	MO	2	3	3	3	3	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3
4140	HVAC	DFHP-SEER20-ROF_MF	MFIE	MF	LI	MO	15	17	19	21	22	23	24	25	25	26	26	25	25	25	25	25	25	25	26	26
4141	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4142	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	NLI	MO	4	5	6	6	7	7	8	8	8	8	9	8	7	7	7	7	7	7	7	7
4143	HVAC	DFHP-SEER21-ROF_MF	MFIE	MF	LI	MO	28	32	35	38	41	43	44	45	46	47	47	47	46	46	46	46	46	46	47	47
4144	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1
4145	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	NLI	MO	50	58	66	73	79	84	88	91	94	95	97	85	83	81	79	78	77	76	76	75
4146	HVAC	Mini/MultiSplitASHP_ROF_SF	SFIE	SF	LI	MO	5	6	8	10	13	15	18	20	22	24	25	27	28	28	29	29	29	29	29	29
4147	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	4	4
4148	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER1	64	75	85	94	102	108	113	117	120	122	124	124	124	124	123	123	123	123	124	124
4149	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	33	39	44	49	53	57	59	62
4150	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	39
4151	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER1	11	15	19	24	30	36	42	47	52	56	60	63	65	66	68	68	68	68	69	69
4152	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	6	8	10	13	16	19	22	25
4153	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8
4154	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	NLI	MO	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2
4155	HVAC	Mini/MultiSplitASHP_ROF_MF	PAYS	MF	LI	MO	1	1	1	1	2	2	3	4	4	5	6	7	8	8	9	9	9	10	10	10
4156	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4157	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER1	3	3	4	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
4158	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2
4159	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4160	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER1	1	1	2	2	3	3	4	5	6	7	8	9	10	11	11	11	12	12	12	12
4161	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2
4162	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4163	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4164	HVAC	PTHP-SEER12-ROF_MF	MFIE	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4165	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4166	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER1	5	6	7	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10
4167	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
4168	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
4169	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4170	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4171	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4172	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	NLI	MO	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4173	HVAC	PTHP-SEER13-ROF_MF	MFIE	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4174	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4175	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER1	6	6	7	8	9	9	10	10	10	11	11	11	11	11	11	11	11	11	11	11
4176	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
4177	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
4178	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
4179	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4180	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4181	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	NLI	MO	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4182	HVAC	PTHP-SEER14-ROF_MF	MFIE	MF	LI	MO	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4183	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4184	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER1	6	7	8	9	10	10	11	11	11	12	12	12	12	12	12	12	12	12	12	12
4185	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2
4186	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
4187	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4188	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4189	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4190	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	NLI	MO	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4191	HVAC	PTHP-SEER15-ROF_MF	MFIE	MF	LI	MO	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4192	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4193	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER1	7	8	9	10	10	11	12	12	12	13	13	13	13	13	13	13	13	13	13	13
4194	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2	2	2
4195	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2
4196	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4197	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4198	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4199	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	43	58	79	107	142	186	240	302	371	444	517	585	647	699	742	776	802	822	846	859
4200	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	30	41	56	76	101	133	171	215	264	316	368	416	460	497	528	552	571	585	602	610
4201	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	3	3	4	6	7	7	7	5	6	6	0	0	0	0	0	0	0	200	72	67
4202	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	26	35	48	64	85	112	144	181	223	266	310	351	388	419	445	465	481	493	507	515

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4203	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	21	29	39	53	70	92	119	150
4204	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	29
4205	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	22	30	41	55	73	96	123	155	190	228	265	300	332	359	381	398	411	422	434	440
4206	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	18	25	33	45	60	79	102	128
4207	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	25
4208	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	34	46	63	85	113	148	191	240	295	353	410	465	513	555	589	616	637	653	671	681
4209	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	107	144	192	252	324	409	502	601	699	792	876	947	1,006	1,052	1,088	1,114	1,134	1,148	1,159	1,160
4210	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	2	3	4	5	6	6	6	4	5	6	0	0	0	0	0	0	0	178	64	59
4211	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	37	50	68	92	123	161	207	261	321	384	446	506	559	604	641	670	693	710	731	741
4212	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	30	41	56	76	101	132	171	215
4213	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	41
4214	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	52	70	93	121	156	197	242	290	337	382	423	457	485	508	525	538	547	554	559	560
4215	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	42	57	76	100	129	162	200	239
4216	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	57
4217	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	40	55	75	101	134	176	227	285	351	419	488	553	611	660	701	733	758	777	799	811
4218	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	29	40	54	73	97	127	164	206	253	303	353	400	441	477	507	530	548	561	577	586
4219	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	2	3	4	5	6	7	7	5	6	6	0	0	0	0	0	0	0	189	68	63
4220	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	12	16	22	30	39	52	67	84	103	123	143	162	179	194	206	215	222	228	235	238
4221	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	10	13	18	24	32	43	55	69
4222	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	13
4223	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	11	16	21	28	38	50	64	80	99	118	138	156	172	186	198	207	213	219	225	228
4224	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	9	13	17	23	31	41	53	67
4225	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	13
4226	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	17	23	31	42	55	73	94	118	145	173	201	228	252	273	289	303	313	321	330	335
4227	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	54	73	97	128	164	207	255	305	355	402	444	480	510	534	552	565	575	582	588	588
4228	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	2	3	4	5	6	6	6	4	5	6	0	0	0	0	0	0	0	174	63	58
4229	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	15	20	28	37	50	65	84	105	130	155	180	204	226	244	259	271	280	287	295	300
4230	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	13	17	23	31	42	55	71	90
4231	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	17
4232	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	24	33	43	57	73	93	114	136	158	179	198	215	228	238	246	252	257	260	262	263
4233	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	20	28	37	48	62	78	96	115
4234	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	27
4235	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	24	32	44	59	79	103	133	167	205	246	286	324	358	387	411	430	444	455	468	475
4236	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	17	24	32	44	58	76	98	123	152	181	211	239	264	286	303	317	328	336	345	351
4237	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	3	3	5	6	7	8	8	5	7	7	0	0	0	0	0	0	0	221	80	74
4238	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	12	16	22	30	40	52	67	84	104	124	144	164	181	195	207	217	224	230	236	240
4239	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	10	14	19	25	33	44	56	71
4240	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	14
4241	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	13	18	24	32	43	56	73	91	112	134	156	177	196	211	224	235	243	249	256	260
4242	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	11	15	20	27	36	47	61	77
4243	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	15
4244	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	12	17	23	31	42	55	70	88	109	130	151	171	189	204	217	227	235	240	247	251
4245	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	41	55	73	95	123	155	190	228	265	300	332	359	381	399	412	422	430	435	439	440
4246	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	2	2	3	4	4	5	5	3	4	4	0	0	0	0	0	0	0	131	47	44
4247	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	8	11	15	20	27	36	46	58	71	85	99	112	124	134	142	149	154	158	162	165
4248	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	7	10	13	18	24	31	40	51
4249	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	10
4250	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	17	23	30	40	51	65	79	95	110	125	138	150	159	166	172	176	179	181	183	183
4251	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	15	20	26	35	45	56	69	83
4252	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20
4253	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	22	30	41	55	73	95	123	155	190	227	264	299	331	357	379	397	410	420	432	439
4254	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	16	22	30	40	54	71	91	114	141	168	196	222	245	265	281	294	304	311	320	325
4255	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	3	3	4	6	7	7	7	5	6	6	0	0	0	0	0	0	0	204	74	68
4256	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	13	18	25	33	44	58	75	94	116	138	161	182	201	218	231	242	250	256	263	267
4257	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	11	15	21	28	37	49	63	79
4258	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	15
4259	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	16	23	31	41	55	72	93	117	143	172	200	226	250	270	287	300	310	318	327	332
4260	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	14	19	26	35	46	61	78	98
4261	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	19
4262	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	23	32	43	58	77	101	131	164	202	242	281	318	352	380	404	422	436	447	460	467
4263	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	76	103	137	179	231	291	357	428	498	564	624	674	716	749	774	793	807	817	825	826
4264	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	3	4	5	7	8	8	9	6	7	8	0	0	0	0	0	0	0	242	87	81
4265	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	7	9	13	17	23	30	39	49	60	71	83	94	104	112	119	125	129	132	136	138
4266	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	5	7	10	13	17	23	29	37
4267	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7
4268	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	15	20	27	36	46	58	71	85	99	112	124	134	143	149	154	158	161	163	164	165
4269	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	11	15	20	27	35	44	54	65
4270	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	15

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4271	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	21	29	39	53	70	92	119	149	183	219	255	289	319	345	367	383	396	406	418	424
4272	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	16	22	29	39	52	69	89	111	137	164	191	216	238	258	274	286	296	303	312	317
4273	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	3	3	4	6	6	7	7	5	6	6	0	0	0	0	0	0	0	197	71	66
4274	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	16	22	30	40	54	71	91	115	141	168	196	222	245	265	281	294	304	312	320	325
4275	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	14	19	26	36	48	62	80	101
4276	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	19
4277	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	25	35	47	64	85	111	143	180	221	265	308	349	385	417	442	463	478	490	504	512
4278	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	22	31	42	56	75	98	126	159
4279	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	31
4280	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	11	15	20	27	36	47	60	76	93	111	130	147	162	175	186	195	201	206	212	215
4281	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	35	47	63	83	106	134	165	197	229	260	288	311	330	345	357	366	372	377	380	381
4282	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	1	2	2	3	4	4	4	3	3	4	0	0	0	0	0	0	0	112	40	37
4283	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	7	10	13	18	23	31	39	50	61	73	85	96	106	115	122	128	132	135	139	141
4284	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	6	8	11	15	20	27	35	44
4285	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8
4286	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	17	23	31	40	52	66	81	96	112	127	141	152	161	169	175	179	182	184	186	186
4287	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	15	20	27	35	46	57	71	85
4288	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20
4289	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	21	28	38	52	69	90	116	146	179	215	250	283	312	338	359	375	388	397	409	415
4290	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	15	21	29	38	51	67	86	109	134	160	186	211	233	252	267	279	289	296	304	309
4291	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	3	3	4	6	6	7	7	5	6	6	0	0	0	0	0	0	0	193	70	64
4292	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	11	15	20	27	35	46	60	75	92	110	129	146	161	174	185	193	200	205	210	214
4293	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	9	12	17	23	30	40	51	65
4294	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	12
4295	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	13	18	25	33	44	58	75	95	116	139	162	183	202	219	232	243	251	257	265	269
4296	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	11	16	21	29	38	50	65	82
4297	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	16
4298	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	13	18	25	33	44	58	75	94	115	138	160	182	201	217	230	241	249	255	263	267
4299	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	43	59	78	102	132	166	204	244	284	322	356	385	408	427	442	453	460	466	471	471
4300	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	2	2	3	4	5	5	5	3	4	4	0	0	0	0	0	0	0	138	50	46
4301	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	7	10	13	18	24	31	40	50	62	74	86	97	108	116	124	129	134	137	141	143
4302	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	6	8	12	16	21	27	35	44
4303	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8
4304	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	17	23	31	41	52	66	81	97	113	128	142	153	163	170	176	180	183	186	187	188
4305	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	15	20	27	36	46	58	71	85
4306	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20
4307	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	27	37	50	68	90	118	152	192	236	282	328	372	411	444	471	493	509	522	537	545
4308	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	20	28	38	51	68	89	115	145	178	213	247	280	310	335	355	372	384	394	405	411
4309	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	3	4	5	7	8	9	9	6	8	8	0	0	0	0	0	0	0	253	91	85
4310	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	15	20	28	37	50	65	84	106	130	155	180	204	226	244	259	271	280	287	295	300
4311	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	13	18	24	33	44	58	74	94
4312	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	18
4313	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	22	30	40	54	72	95	122	154	189	226	263	298	329	356	378	395	409	419	431	437
4314	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	19	26	36	48	64	84	109	137
4315	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	26
4316	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	11	15	20	27	36	48	61	77	95	114	132	150	166	179	190	199	205	211	217	220
4317	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	36	48	64	84	109	137	168	201	234	265	294	317	337	353	364	373	380	385	388	389
4318	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	2	2	2	3	4	4	4	3	3	4	0	0	0	0	0	0	0	114	41	38
4319	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	7	10	13	18	24	31	40	51	63	75	87	99	109	118	125	131	135	139	143	145
4320	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	6	9	12	16	21	28	36	45
4321	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	9
4322	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	17	23	31	41	53	66	82	98	114	129	142	154	164	171	177	181	184	187	188	189
4323	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	15	20	27	36	46	58	72	86
4324	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20
4325	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	NLI	MO	4	5	7	10	13	17	22	28	34	40	47	53	59	64	68	71	73	75	77	78
4326	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	MFIE	MF	LI	MO	31	42	56	74	95	120	147	176	205	233	257	278	295	309	319	327	333	337	340	341
4327	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	N/A	NC	1	1	1	1	1	1	2	1	1	1	0	0	0	0	0	0	0	43	15	14
4328	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER1	4	5	7	9	12	16	20	26	32	38	44	50	55	60	63	66	68	70	72	73
4329	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	8	10	13	17	22
4330	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
4331	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER1	18	24	31	41	53	67	82	99	115	130	144	155	165	173	178	183	186	188	190	190
4332	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	15	20	26	35	45	56	69	83
4333	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20
4334	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	12	16	21	28	37	48	60	74	89	103	117	129	140	148	155	160	164	167	171	169
4335	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	23	30	39	49	60	72	84	95	105	114	121	127	131	134	137	138	138	138	139	140
4336	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	2	2	3	3	4	4	4	3	4	4	0	0	0	0	0	0	0	117	42	39
4337	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	9	13	17	23	30	39	49	60	72	84	95	105	114	121	126	131	134	136	139	140
4338	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	8	11	15	20	26	34	43	53

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4339	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	11
4340	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	21	27	35	44	55	65	76	86	95	103	110	115	119	122	124	125	125	125	126	126
4341	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	18	24	31	39	47	57	66	75
4342	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	24
4343	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	4	5	7	9	12	16	20	26	32	38	44	50	55	59	63	66	68	70	72	73
4344	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	LI	MO	9	12	16	21	29	37	48	61	75	89	104	117	130	140	149	156	161	165	170	172
4345	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	1	1	1	1	2	2	2	1	2	2	0	0	0	0	0	0	0	51	18	17
4346	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	3	4	5	6	9	11	15	18	22	27	31	35	39	42	45	47	49	50	51	52
4347	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	6	8	10	13	16
4348	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4349	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER1	9	13	17	23	30	39	49	60	72	83	95	105	113	120	126	130	133	135	138	139
4350	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	8	11	15	20	26	34	43	53
4351	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	11
4352	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	6	8	11	15	21	27	35	44	54	64	75	85	94	101	107	112	116	119	122	124
4353	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	7	9	12	16	20	25	31	37	43	49	54	59	62	65	67	69	70	71	72	72
4354	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	1	1	1	2	2	2	2	1	2	2	0	0	0	0	0	14	13	72	19	18
4355	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	3	5	6	8	11	15	19	24	29	35	41	46	51	55	59	61	63	65	67	68
4356	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	3	4	5	7	9	12	16	20	24	29
4357	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	7	9
4358	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	1	2	2	3	3	4	5	6	7	8	9	10	10	11	11	12	12	12	12	12
4359	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4	4	5	6	7
4360	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3
4361	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	6	9	12	16	21	28	36	45	55	66	77	87	96	104	110	115	119	122	126	127
4362	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	7	9	12	16	21	27	33	39	46	52	57	62	66	69	71	73	74	75	76	76
4363	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	1	1	1	2	2	2	2	1	2	2	0	0	0	0	0	14	13	74	20	18
4364	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4	5	7	9	12	15	20	25	31	37	43	48	53	58	61	64	66	68	70	71
4365	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	3	4	5	7	10	13	17	21	26	31
4366	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	7	10
4367	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	1	2	2	3	4	4	5	7	8	9	10	10	11	11	12	12	12	12	13	13
4368	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4	5	5	6	7
4369	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3
4370	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	7	9	12	16	22	29	37	46	57	68	79	90	99	107	114	119	123	126	129	131
4371	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	7	10	13	17	22	28	35	42	48	55	61	66	70	73	75	77	78	79	80	80
4372	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	1	1	1	2	2	2	2	2	2	2	0	0	0	0	0	15	13	76	20	19
4373	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4	5	7	9	12	16	21	26	32	38	45	51	56	61	64	67	70	71	73	74
4374	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	3	4	6	8	10	14	17	22	27	32
4375	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	8	10
4376	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	1	2	2	3	4	5	6	7	8	9	10	11	12	12	12	13	13	13	13	13
4377	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4	5	6	7	8
4378	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3
4379	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	7	9	12	17	22	29	38	47	58	70	81	92	102	110	117	122	126	129	133	135
4380	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	8	11	14	18	24	30	37	44	51	58	64	69	73	77	79	81	83	84	85	85
4381	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	1	1	1	2	2	2	2	2	2	2	0	0	0	0	0	15	14	78	21	19
4382	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	4	5	7	10	13	17	22	27	34	40	47	53	59	63	67	70	73	75	77	78
4383	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	3	4	6	8	11	14	18	23	28	34
4384	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	8	11
4385	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	1	2	2	3	4	5	6	7	8	9	10	11	12	13	13	13	14	14	14	14
4386	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	2	3	3	4	5	6	7	8
4387	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	3
4388	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	NLI	MO	118	138	157	173	188	200	209	217	222	226	229	202	197	192	188	185	182	180	180	179
4389	HVAC	CAC-SEER15_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4390	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	N/A	NC	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	19	7	6
4391	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4392	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4393	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4394	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER1	176	231	298	375	462	553	643	729	806	872	927	970	1,003	1,027	1,046	1,058	1,057	1,056	1,066	1,067
4395	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	23	30	38	48	59	71	83	94
4396	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	30
4397	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4398	HVAC	CAC-SEER15_ROF_MF	MFIE	MF	LI	MO	9	10	10	11	11	11	12	12	12	12	12	12	11	11	11	11	11	11	12	12
4399	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4400	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4401	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4402	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4403	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER1	110	125	138	150	159	167	173	177	180	183	183	182	182	182	182	182	181	181	183	183
4404	HVAC	CAC-SEER15_ER1_MF	PAYS	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	10	11	13	14	15	15	16	16
4405	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	15
4406	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	NLI	MO	161	188	214	236	256	272	285	295	303	308	313	275	269	262	257	252	248	245	245	243

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4407	HVAC	CAC-SEER16_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4408	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	26	9	9
4409	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4410	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4411	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4412	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER1	189	248	320	403	496	593	691	783	866	937	995	1,041	1,076	1,103	1,123	1,136	1,135	1,134	1,144	1,146
4413	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	31	41	53	67	82	99	115	131
4414	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	41
4415	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	NLI	MO	36	42	47	52	57	60	63	65	67	68	69	61	59	58	57	56	55	54	54	54
4416	HVAC	CAC-SEER16_ROF_MF	MFIE	MF	LI	MO	30	32	33	34	35	36	37	37	37	37	37	37	36	36	36	36	36	36	37	37
4417	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	2
4418	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4419	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4420	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4421	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER1	119	135	149	162	172	180	187	191	195	198	198	197	197	197	197	196	196	196	198	198
4422	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	20	23	25	27	29	30	32	32
4423	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	23
4424	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	NLI	MO	263	306	348	385	417	444	465	481	493	502	509	508	508	507	507	506	505	505	509	510
4425	HVAC	CAC-SEER17_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4426	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	N/A	NC	1	1	1	1	1	2	2	1	1	1	0	0	0	0	0	0	0	43	16	14
4427	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4428	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4429	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4430	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER1	225	295	380	479	589	705	821	931	1,029	1,114	1,184	1,238	1,280	1,312	1,335	1,351	1,349	1,348	1,361	1,362
4431	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	49	65	84	106	130	156	182	206
4432	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	65
4433	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4434	HVAC	CAC-SEER17_ROF_MF	MFIE	MF	LI	MO	36	38	40	41	42	43	44	44	44	44	44	44	44	43	43	43	43	43	44	44
4435	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4436	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4437	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4438	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4439	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER1	121	137	152	165	175	184	190	195	198	201	201	201	201	200	200	200	199	199	201	201
4440	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	25	29	32	34	37	38	40	41
4441	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	28
4442	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	NLI	MO	368	429	487	539	584	621	650	673	690	703	712	711	710	710	709	708	706	706	713	713
4443	HVAC	CAC-SEER18_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4444	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	N/A	NC	1	1	1	2	2	2	2	1	2	2	0	0	0	0	0	0	0	62	22	21
4445	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4446	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4447	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4448	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER1	251	330	425	535	659	788	918	1,041	1,150	1,245	1,323	1,384	1,430	1,466	1,492	1,510	1,508	1,506	1,521	1,522
4449	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	65	86	110	139	172	206	240	272
4450	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	86
4451	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4452	HVAC	CAC-SEER18_ROF_MF	MFIE	MF	LI	MO	27	28	30	31	32	32	33	33	33	33	33	32	32	32	32	32	32	32	33	33
4453	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4454	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4455	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4456	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4457	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER1	133	151	167	181	193	202	209	214	218	221	221	221	220	220	220	220	219	219	221	221
4458	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	31	35	38	42	44	47	48	50
4459	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	35
4460	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	NLI	MO	907	1,057	1,200	1,329	1,439	1,531	1,603	1,659	1,701	1,733	1,756	1,754	1,752	1,750	1,748	1,745	1,742	1,741	1,757	1,759
4461	HVAC	CAC-SEER19_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4462	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	N/A	NC	2	3	4	5	5	6	6	4	5	5	0	0	0	0	0	0	0	166	60	56
4463	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER1	1,647	1,921	2,180	2,414	2,615	2,781	2,912	3,014	3,091	3,148	3,190	3,186	3,183	3,179	3,175	3,170	3,165	3,162	3,193	3,196
4464	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	470	548	623	690	748	796	835	866
4465	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	469	547
4466	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER1	476	626	806	1,016	1,250	1,496	1,742	1,975	2,183	2,362	2,510	2,626	2,715	2,782	2,831	2,866	2,861	2,859	2,886	2,889
4467	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	136	178	230	290	358	428	500	567
4468	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	178
4469	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4470	HVAC	CAC-SEER19_ROF_MF	MFIE	MF	LI	MO	35	38	39	41	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
4471	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4472	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4473	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4474	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4475	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER1	88	99	110	119	127	133	138	141	144	146	146	146	145	145	145	145	145	144	146	146
4476	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	28	32	36	39	41	43	45	46
4477	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	32
4478	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	NLI	MO	723	844	957	1,060	1,148	1,221	1,279	1,324	1,357	1,383	1,401	1,399	1,398	1,396	1,394	1,392	1,390	1,389	1,402	1,404
4479	HVAC	CAC-SEER20_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4480	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	N/A	NC	2	2	3	4	4	4	5	3	4	4	0	0	0	0	0	0	0	128	46	43
4481	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4482	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4483	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4484	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER1	317	416	536	675	831	995	1,158	1,313	1,451	1,570	1,668	1,745	1,805	1,849	1,882	1,905	1,902	1,900	1,918	1,920
4485	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	103	136	175	221	272	326	380	432
4486	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	136
4487	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4488	HVAC	CAC-SEER20_ROF_MF	MFIE	MF	LI	MO	41	43	45	47	48	49	50	50	50	50	50	50	50	49	49	49	49	49	50	50
4489	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4490	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4491	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4492	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4493	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER1	90	102	113	122	130	136	141	145	147	149	149	149	149	149	148	148	148	148	149	149
4494	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	32	36	40	43	46	48	50	51
4495	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	36
4496	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	NLI	MO	713	831	943	1,045	1,132	1,203	1,260	1,305	1,338	1,362	1,381	1,379	1,377	1,376	1,374	1,372	1,370	1,369	1,382	1,383
4497	HVAC	CAC-SEER21_ROF_SF	PAYS	SF	LI	MO	59	81	110	148	197	258	332	418	514	615	715	810	895	968	1,027	1,074	1,110	1,138	1,171	1,188
4498	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	N/A	NC	2	2	3	4	4	4	4	3	4	4	0	0	0	0	0	0	0	123	45	41
4499	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4500	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4501	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4502	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER1	294	386	497	627	771	923	1,074	1,218	1,347	1,457	1,548	1,619	1,674	1,716	1,746	1,767	1,765	1,763	1,780	1,782
4503	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	108	141	182	230	283	339	396	449
4504	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	141
4505	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	NLI	MO	58	68	77	85	92	98	103	107	109	111	113	113	113	112	112	112	112	112	113	113
4506	HVAC	CAC-SEER21_ROF_MF	MFIE	MF	LI	MO	49	52	54	56	58	59	60	60	60	60	60	60	60	59	59	59	59	59	60	60
4507	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	4	4
4508	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4509	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4510	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4511	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER1	94	107	118	128	136	143	148	152	154	157	156	156	156	156	156	156	155	155	157	157
4512	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	35	39	44	47	50	53	55	56
4513	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	39
4514	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4515	HVAC	Mini/MultiSplitAC_ROF_SF	SFIE	SF	LI	MO	9	12	16	20	24	29	34	38	42	46	48	51	52	54	55	55	55	55	56	56
4516	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4517	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4518	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4519	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4520	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER1	84	111	142	180	221	264	308	349	386	417	443	464	480	491	500	506	505	505	510	510
4521	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	22	29	37	47	58	69	80	91
4522	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	29
4523	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	NLI	MO	59	68	78	86	93	99	104	107	110	112	114	113	113	113	113	113	113	113	114	114
4524	HVAC	Mini/MultiSplitAC_ROF_MF	MFIE	MF	LI	MO	48	51	54	56	57	58	59	59	59	59	59	59	59	59	59	59	59	58	59	59
4525	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	4	4
4526	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4527	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4528	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4529	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER1	96	106	115	122	128	133	136	139	141	141	141	140	140	140	140	140	139	139	141	141
4530	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	25	28	30	32	33	35	36	36
4531	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	28
4532	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4533	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4534	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4535	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4536	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	MO	104	141	190	254	334	434	552	686	832	983	1,128	1,261	1,377	1,472	1,546	1,601	1,639	1,647	1,680	1,692
4537	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	NC	2	2	3	4	5	5	5	3	4	4	0	0	0	0	0	30	27	150	40	36
4538	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	MO	18	24	33	44	57	75	95	118	143	169	194	217	237	253	266	275	282	283	289	291
4539	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	5	4	23	6	6
4540	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	NLI	MO	37	45	52	59	66	71	76	79	82	84	86	87	87	87	86	86	86	86	87	87
4541	HVAC	AC - Energy Star Room _unknown size_SF	SFIE	SF	LI	MO	155	207	271	350	441	542	649	755	856	946	1,024	1,087	1,137	1,176	1,204	1,225	1,240	1,239	1,251	1,252
4542	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	7	1	1

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4543	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	NLI	MO	4	5	6	7	8	9	10	11	11	12	12	12	12	12	12	12	12	12	12	12
4544	HVAC	AC - Energy Star Room _unknown size_SF	MFIE	MF	LI	MO	85	107	131	157	183	208	230	249	264	277	286	294	299	303	302	302	301	301	304	304
4545	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4546	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	MO	8	11	15	21	27	35	45	56	68	80	92	103	112	120	126	130	134	134	137	138
4547	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	11	3	3
4548	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	MO	1	2	2	3	4	6	7	9	11	13	14	16	18	19	20	21	21	21	22	22
4549	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4550	HVAC	HP tune-up / Packaged Service SF	N/A	SF	NLI	Retrofit	32	40	81	97	144	163	210	226	266	275	306	306	331	325	345	335	345	335	345	335
4551	HVAC	HP tune-up / Packaged Service SF	SFIE	SF	LI	Retrofit	34	51	91	113	159	197	261	316	393	455	532	586	650	688	733	755	785	794	815	816
4552	HVAC	HP tune-up / Packaged Service SF	N/A	SF	N/A	NC	1	1	4	5	10	11	20	21	33	33	46	43	57	52	66	58	71	147	83	160
4553	HVAC	HP tune-up / Packaged Service MF	N/A	MF	NLI	Retrofit	1	1	3	3	5	6	8	9	11	11	13	13	14	14	15	14	15	14	15	14
4554	HVAC	HP tune-up / Packaged Service MF	MFIE	MF	LI	Retrofit	2	2	5	5	8	10	13	15	19	20	23	24	26	26	28	28	29	29	29	29
4555	HVAC	HP tune-up / Packaged Service MF	N/A	MF	N/A	NC	0	0	0	0	1	1	2	2	3	3	4	4	5	5	6	5	7	14	8	15
4556	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	40	50	100	120	178	202	260	280	330	340	379	379	410	403	427	416	427	415	427	415
4557	HVAC	HP tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	25	38	67	82	116	144	190	230	287	332	388	428	474	502	535	551	573	579	595	596
4558	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	1	2	5	6	12	14	24	26	41	41	56	54	71	64	81	72	88	182	103	199
4559	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	1	2	4	4	6	7	10	11	13	14	16	16	17	17	18	18	19	18	19	18
4560	HVAC	HP tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	1	1	2	2	3	4	5	5	7	7	8	9	9	9	10	10	10	10	10	10
4561	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	0	0	0	1	1	1	2	2	4	4	5	5	7	6	8	7	8	17	10	18
4562	HVAC	AC Tune-up / Packaged service SF	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4563	HVAC	AC Tune-up / Packaged service SF	SFIE	SF	LI	Retrofit	41	62	109	135	190	236	313	378	470	545	637	702	778	824	879	904	941	951	976	978
4564	HVAC	AC Tune-up / Packaged service SF	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4565	HVAC	AC Tune-up / Packaged service MF	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4566	HVAC	AC Tune-up / Packaged service MF	MFIE	MF	LI	Retrofit	2	2	4	5	7	8	11	13	16	17	20	20	22	22	24	24	25	24	25	24
4567	HVAC	AC Tune-up / Packaged service MF	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4568	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	290	364	730	876	1,299	1,477	1,899	2,044	2,408	2,481	2,767	2,767	2,990	2,937	3,117	3,031	3,116	3,028	3,114	3,029
4569	HVAC	AC Tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	142	214	380	469	660	820	1,085	1,314	1,633	1,892	2,211	2,439	2,703	2,861	3,051	3,139	3,268	3,302	3,390	3,395
4570	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	10	12	34	43	86	101	171	181	287	289	399	381	499	455	574	507	622	1,283	727	1,404
4571	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4572	HVAC	AC Tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	6	6	12	14	22	26	35	40	49	53	61	63	69	69	74	73	77	75	77	75
4573	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4574	HVAC	Dirty Filter Alarm_SF	HVAC	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4575	HVAC	Dirty Filter Alarm_SF	SFIE	SF	LI	Retrofit	7	10	11	12	13	23	29	34	37	39	49	54	56	56	55	62	64	64	62	60
4576	HVAC	Dirty Filter Alarm_MF	HVAC	MF	NLI	Retrofit	3	4	4	5	5	9	12	14	15	16	20	22	23	23	23	25	26	26	25	24
4577	HVAC	Dirty Filter Alarm_MF	MFIE	MF	LI	Retrofit	116	96	77	60	46	150	121	77	60	45	149	121	76	59	45	149	120	76	59	45
4578	HVAC	ECM Fan	HVAC	SF	NLI	Retrofit	44	66	73	79	87	108	175	218	242	257	265	277	326	348	349	342	331	327	364	376
4579	HVAC	ECM Fan	SFIE	SF	LI	Retrofit	25	38	42	45	50	62	100	125	139	147	152	159	187	199	200	196	190	188	209	215
4580	HVAC	ECM Fan	HVAC	MF	NLI	Retrofit	8	13	14	15	17	21	34	42	47	50	51	53	63	67	67	66	64	63	70	72
4581	HVAC	ECM Fan	MFIE	MF	LI	Retrofit	289	249	206	164	128	98	360	301	204	163	127	97	358	300	203	163	127	97	358	299
4582	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4583	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4584	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	Retrofit	116	173	190	202	221	274	327	376	413	430	424	396	352	298	243	289	292	268	250	245
4585	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	8	7	38	10	9
4586	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	Retrofit	1,821	2,716	2,996	3,185	3,475	4,302	5,150	5,919	6,489	6,758	6,664	6,226	5,529	4,694	3,829	4,547	4,597	4,211	3,940	3,846
4587	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	NC	8	9	13	17	19	20	20	13	17	17	0	0	0	0	0	120	108	599	159	145
4588	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	Retrofit	844	1,258	1,389	1,476	1,610	1,994	2,387	2,743	3,007	3,132	3,088	2,885	2,562	2,175	1,774	2,107	2,130	1,951	1,826	1,782
4589	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	NC	4	4	6	8	9	9	9	6	8	8	0	0	0	0	0	56	50	278	74	67
4590	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4591	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4592	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4593	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4594	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4595	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4596	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4597	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4598	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4599	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4600	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4601	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4602	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	MO	17	23	31	41	54	70	89	111	134	158	182	203	222	237	249	258	264	265	271	273
4603	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	5	4	25	7	6
4604	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	MO	3	4	5	7	9	12	15	19	23	27	31	35	38	40	42	44	45	45	46	47
4605	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6	2	1
4606	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4607	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4608	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4609	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4610	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4611	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4612	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	436	481	604	732	854	951	1,005	1,006	954	859	739	1,046	968	982	1,021	1,070	1,110	1,005	1,006	954
4613	HVAC	Learning Thermostat - electric furnace heating / central AC SF	SFIE	SF	LI	Retrofit	316	369	411	435	435	413	373	321	265	212	165	442	463	481	435	435	413	373	321	265
4614	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	N/A	NC	3	4	5	7	8	8	9	6	7	8	0	43	42	46	48	43	36	270	41	42
4615	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	102	153	171	183	202	254	308	358	398	421	421	501	512	479	437	405	411	428	449	466
4616	HVAC	Learning Thermostat - electric furnace heating / central AC MF	MFIE	MF	LI	Retrofit	194	195	185	167	144	119	95	74	56	42	31	194	195	185	167	144	119	95	74	56
4617	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	N/A	NC	1	1	2	2	2	3	3	2	2	2	0	13	13	14	14	13	11	81	12	13
4618	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	NLI	Retrofit	106	117	147	178	208	231	245	245	232	209	180	255	236	239	248	260	270	245	245	232
4619	HVAC	Learning Thermostat - Gas Heated / central AC SF**	SFIE	SF	LI	Retrofit	55	64	71	75	75	72	65	56	46	37	29	77	80	83	75	75	72	65	56	46
4620	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	N/A	NC	1	1	1	1	2	2	2	1	1	2	0	9	8	9	10	9	7	55	8	9
4621	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	NLI	Retrofit	8	12	13	14	16	20	24	28	31	33	33	39	40	37	34	32	32	33	35	36
4622	HVAC	Learning Thermostat - Gas Heated / central AC MF**	MFIE	MF	LI	Retrofit	20	20	19	17	15	12	10	8	6	4	3	20	20	19	17	15	12	10	8	6
4623	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	7	1	1
4624	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	126	139	174	211	246	274	290	290	275	248	213	301	279	283	294	308	320	290	290	275
4625	HVAC	Learning Thermostat - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	67	78	86	91	92	87	78	67	56	45	35	93	97	101	91	92	87	78	67	56
4626	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	N/A	NC	1	1	1	2	2	2	2	1	2	2	0	11	11	11	12	11	9	68	10	11
4627	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	10	16	18	19	21	26	32	37	41	43	43	52	53	49	45	42	42	44	46	48
4628	HVAC	Learning Thermostat - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	30	30	29	26	22	18	15	11	9	7	5	30	30	29	26	22	18	15	11	9
4629	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	1	10	2	2
4630	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	334	369	463	562	655	729	770	771	731	658	900	836	836	852	876	894	893	771	731	658
4631	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	SFIE	SF	LI	Retrofit	102	119	133	140	141	133	120	103	85	68	155	160	163	163	141	133	120	103	85	68
4632	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	N/A	NC	2	3	4	5	6	6	7	4	6	6	29	29	32	34	31	27	22	197	32	31
4633	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	48	72	81	87	96	120	145	169	188	199	247	261	250	232	216	216	220	226	231	231
4634	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	MFIE	MF	LI	Retrofit	38	38	36	33	28	23	19	15	11	8	44	38	36	33	28	23	19	15	11	8
4635	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	5	5	6	6	6	5	4	36	6	6
4636	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	NLI	Retrofit	1,132	1,249	1,567	1,901	2,217	2,468	2,608	2,611	2,476	2,230	3,049	2,832	2,831	2,884	2,965	3,028	3,023	2,611	2,476	2,230
4637	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	SFIE	SF	LI	Retrofit	246	287	320	338	339	322	290	249	206	165	374	385	393	392	339	322	290	249	206	165
4638	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	N/A	NC	7	8	11	15	17	18	19	12	16	17	82	82	91	97	88	76	62	555	90	87
4639	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	NLI	Retrofit	31	46	51	55	61	76	93	108	120	127	157	166	159	148	137	137	140	144	147	147
4640	HVAC	Setback thermostat - full setback - gas heating / central AC MF	MFIE	MF	LI	Retrofit	30	30	29	26	22	18	15	12	9	7	35	30	29	26	22	18	15	12	9	7
4641	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	N/A	NC	0	0	0	1	1	1	1	1	1	1	4	4	4	4	4	3	3	24	4	4
4642	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	171	189	237	288	336	374	395	396	375	338	462	429	429	437	449	459	458	396	375	338
4643	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	38	45	50	52	53	50	45	39	32	26	58	60	61	61	53	50	45	39	32	26
4644	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	N/A	NC	1	1	2	2	3	3	3	2	2	3	13	13	14	15	14	12	10	88	14	14
4645	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	8	13	14	15	16	21	25	29	32	34	43	45	43	40	37	37	38	39	40	40
4646	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	9	9	9	8	7	6	5	4	3	2	11	9	9	8	7	6	5	4	3	2
4647	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	8	1	1
5001	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	NLI	Retrofit	5	8	9	10	11	13	16	19	27	31	31	31	30	30	30	30	35	37	36	35
5002	Lighting	LED - 10W (750-899 lumens) IEDI	SFIE	SF	LI	Retrofit	13	20	23	24	27	33	41	47	66	76	78	77	74	74	74	74	87	91	90	86
5003	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	N/A	NC	1	1	1	1	2	2	2	1	7	7	7	7	7	6	5	3	15	61	16	16
5004	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
5005	Lighting	LED - 10W (750-899 lumens) IEDI	MFIE	MF	LI	Retrofit	2	3	3	4	4	5	6	6	9	8	8	8	8	8	8	8	10	9	8	8
5006	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	1
5007	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	NLI	Retrofit	18	28	31	33	37	46	56	65	90	104	107	105	101	101	102	101	119	125	123	117
5008	Lighting	LED - 15W (900-1399 lumens) IEDI	SFIE	SF	LI	Retrofit	14	21	23	25	28	35	42	49	69	79	81	80	77	77	77	77	90	95	94	89
5009	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	N/A	NC	2	3	3	5	5	6	6	4	23	24	23	25	24	21	18	10	50	207	54	54
5010	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	NLI	Retrofit	1	1	1	1	1	1	2	2	3	3	3	3	3	3	3	3	4	4	4	4
5011	Lighting	LED - 15W (900-1399 lumens) IEDI	MFIE	MF	LI	Retrofit	3	3	3	4	5	6	7	7	10	10	9	9	9	9	9	9	11	11	9	9
5012	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1	3	12	3	3
5013	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	NLI	Retrofit	33	50	56	60	66	83	100	117	163	187	193	190	183	183	183	183	215	227	223	212
5014	Lighting	LED - 20W (1400-1999 lumens) IEDI	SFIE	SF	LI	Retrofit	25	38	42	46	50	63	76	89	124	143	147	144	139	139	139	139	163	172	169	161
5015	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	N/A	NC	4	5	6	8	9	10	10	7	42	44	41	45	43	38	32	18	91	374	97	97
5016	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	NLI	Retrofit	1	1	2	2	2	2	3	3	5	6	6	6	5	5	5	5	6	7	7	6
5017	Lighting	LED - 20W (1400-1999 lumens) IEDI	MFIE	MF	LI	Retrofit	4	4	4	6	7	8	9	9	13	13	12	12	12	12	12	12	15	14	12	12
5018	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	N/A	NC	0	0	0	0	1	1	1	0	3	3	2	3	3	2	2	1	5	23	6	6
5019	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	NLI	Retrofit	5	8	9	10	11	13	16	19	27	31	31	31	30	30	30	30	35	37	36	35
5020	Lighting	LED - 6W (400-749 lumens) IEDI	SFIE	SF	LI	Retrofit	6	9	10	11	12	15	19	22	30	35	36	35	34	34	34	34	40	42	41	39
5021	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	N/A	NC	1	1	1	1	2	2	2	1	7	7	7	7	7	6	5	3	15	61	16	16
5022	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
5023	Lighting	LED - 6W (400-749 lumens) IEDI	MFIE	MF	LI	Retrofit	2	2	2	2	3	3	4	4	5	5	5	5	5	5	5	5	6	6	5	5
5024	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	N/A	NC	1	1	1	1	1	1	1	1	6	6	6	6	6	5	5	3	13	52	14	14
5025	Lighting	LED A19 800 Lumens 6W	PAYS	SF	NLI	Retrofit	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
5026	Lighting	LED A19 800 Lumens 6W	SFIE	SF	LI	Retrofit	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
5027	Lighting	LED A19 800 Lumens 6W	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
5028	Lighting	LED A19 800 Lumens 6W	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5029	Lighting	LED A19 800 Lumens 6W	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5030	Lighting	LED A19 800 Lumens 6W	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5031	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	NLI	Retrofit	4	6	7	7	8	10	12	14	20	22	23	23	22	22	22	22	26	27	27	25

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5032	Lighting	LED - 10.5W Downlight E26 IE DI	SFIE	SF	LI	Retrofit	6	9	10	11	12	15	18	21	29	33	34	34	32	32	32	32	38	40	39	37
5033	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	N/A	NC	0	1	1	1	1	1	1	1	5	5	5	5	5	5	4	2	11	45	12	12
5034	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
5035	Lighting	LED - 10.5W Downlight E26 IE DI	MFIE	MF	LI	Retrofit	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	5	4	4	4
5036	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	1
5037	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	4	5	6	6	7	9	11	12	17	20	21	20	19	19	19	19	23	24	24	23
5038	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	SFIE	SF	LI	Retrofit	5	8	9	9	10	13	16	18	26	29	30	30	29	29	29	29	34	35	35	33
5039	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	4	5	4	5	5	4	3	2	10	40	10	10
5040	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
5041	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	MFIE	MF	LI	Retrofit	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4
5042	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	1
5043	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	10	15	16	17	19	24	29	34	48	55	56	55	53	53	53	53	63	66	65	62
5044	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	SFIE	SF	LI	Retrofit	10	14	16	17	19	24	29	33	47	54	55	54	52	52	52	52	61	65	64	61
5045	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	N/A	NC	1	1	2	2	3	3	3	2	12	13	12	13	13	11	9	5	27	109	28	28
5046	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
5047	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	MFIE	MF	LI	Retrofit	2	2	2	3	3	4	4	5	6	6	6	6	6	6	6	6	7	7	6	6
5048	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	2	9	2	2
5049	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	NLI	Retrofit	15	23	26	27	30	38	46	54	75	86	89	87	84	84	84	84	98	104	102	97
5050	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	SFIE	SF	LI	Retrofit	8	13	14	15	17	21	25	30	41	47	49	48	46	46	46	46	54	57	56	54
5051	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	N/A	NC	2	2	3	4	4	5	5	3	19	20	19	21	20	17	15	8	42	171	44	44
5052	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	NLI	Retrofit	0	1	1	1	1	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3
5053	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	MFIE	MF	LI	Retrofit	2	2	3	3	4	5	5	6	8	8	8	8	8	8	8	7	9	9	8	8
5054	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	2	2	2	2	2	1	1	1	3	14	4	4
5055	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	NLI	Retrofit	15	23	26	28	30	38	46	54	75	86	89	87	84	84	84	84	99	104	103	98
5056	Lighting	LED - 12W Dimmable Light Bulb IE DI	SFIE	SF	LI	Retrofit	15	23	26	28	30	38	46	54	75	87	89	88	85	85	85	85	99	105	103	98
5057	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	N/A	NC	2	2	3	4	4	5	5	3	19	20	19	21	20	18	15	8	42	172	45	45
5058	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	NLI	Retrofit	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	2
5059	Lighting	LED - 12W Dimmable Light Bulb IE DI	MFIE	MF	LI	Retrofit	1	1	1	1	1	2	2	2	3	2	2	2	2	2	2	2	3	3	2	2
5060	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	3	12	3	3
5061	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	NLI	Retrofit	1	2	3	4	5	7	9	11	14	16	18	20	23	24	26	26	27	28	28	28
5062	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	SFIE	SF	LI	Retrofit	1	2	3	4	5	7	9	11	14	16	19	20	23	24	26	26	27	28	28	29
5063	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	N/A	NC	0	0	0	1	1	1	2	2	4	4	5	5	7	6	8	7	9	18	10	19
5064	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
5065	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	MFIE	MF	LI	Retrofit	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5066	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
5067	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	NLI	Retrofit	2	4	4	4	5	6	7	9	12	14	14	14	13	13	13	13	16	17	16	16
5068	Lighting	LED - 4W Candelabra Specialty IE DI	SFIE	SF	LI	Retrofit	2	4	4	4	5	6	7	9	12	14	14	14	13	13	13	13	16	17	16	16
5069	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	N/A	NC	0	0	0	1	1	1	1	1	3	3	3	3	3	3	2	1	7	27	7	7
5070	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5071	Lighting	LED - 4W Candelabra Specialty IE DI	MFIE	MF	LI	Retrofit	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	2	2
5072	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
5073	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	NLI	Retrofit	17	25	28	30	33	42	50	59	82	94	97	95	92	92	92	92	108	114	112	107
5074	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	SFIE	SF	LI	Retrofit	17	25	28	30	33	42	51	59	82	94	97	96	92	92	92	92	108	114	112	107
5075	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	N/A	NC	2	2	3	4	5	5	5	4	21	22	20	23	22	19	16	9	46	188	49	49
5076	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	NLI	Retrofit	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3
5077	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	MFIE	MF	LI	Retrofit	5	5	5	7	8	10	11	11	16	16	15	15	15	15	15	15	18	18	15	15
5078	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	1	2	1	2	1	1	1	1	3	13	3	3
5079	Lighting	LED Nightlights	PAYS	SF	NLI	Retrofit	4	6	7	8	13	17	20	23	30	35	38	40	45	48	49	48	52	53	53	51
5080	Lighting	LED Nightlights	SFIE	SF	LI	Retrofit	3	5	5	6	6	8	9	11	15	18	18	18	17	17	17	17	20	21	21	20
5081	Lighting	LED Nightlights	PAYS	SF	N/A	NC	0	1	1	1	3	3	4	4	9	9	8	8	15	14	12	10	19	54	17	15
5082	Lighting	LED Nightlights	PAYS	MF	NLI	Retrofit	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
5083	Lighting	LED Nightlights	MFIE	MF	LI	Retrofit	2	2	2	2	3	3	4	4	5	5	5	5	5	5	5	5	6	6	5	5
5084	Lighting	LED Nightlights	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	1	1	1	1	2	2	1	1	2	6	2	2
5085	Lighting	Occupancy Sensor	N/A	SF	NLI	Retrofit	50	76	84	91	100	125	152	177	197	208	259	273	262	243	226	226	230	237	242	242
5086	Lighting	Occupancy Sensor	N/A	SF	LI	Retrofit	26	39	44	47	52	65	79	92	102	108	134	141	136	126	117	117	119	123	125	125
5087	Lighting	Occupancy Sensor	N/A	SF	N/A	NC	1	1	1	2	2	2	2	2	2	2	11	11	12	13	12	10	8	74	12	11
5088	Lighting	Occupancy Sensor	N/A	MF	NLI	Retrofit	3	4	5	5	6	7	8	10	11	12	14	15	15	14	13	13	13	13	13	13
5089	Lighting	Occupancy Sensor	N/A	MF	LI	Retrofit	4	6	6	7	7	9	11	13	14	15	19	20	19	18	16	16	17	17	18	18
5090	Lighting	Occupancy Sensor	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	6	1	1
5091	Lighting	Exterior Lighting Controls	N/A	SF	NLI	Retrofit	49	73	82	88	97	121	147	171	191	201	250	264	253	235	218	218	222	229	234	233
5092	Lighting	Exterior Lighting Controls	N/A	SF	LI	Retrofit	25	38	42	45	50	63	76	89	99	104	130	137	131	122	113	113	115	119	121	121
5093	Lighting	Exterior Lighting Controls	N/A	SF	N/A	NC	1	1	1	2	2	2	2	2	2	2	11	10	12	12	11	10	8	71	11	11
5094	Lighting	Exterior Lighting Controls	N/A	MF	NLI	Retrofit	3	4	5	5	5	7	8	10	11	11	14	15	14	13	12	12	12	13	13	13
5095	Lighting	Exterior Lighting Controls	N/A	MF	LI	Retrofit	4	5	6	6	7	9	11	12	14	15	18	19	18	17	16	16	16	17	17	17
5096	Lighting	Exterior Lighting Controls	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	6	1	1
5097	Lighting	Advanced Lighting	N/A	SF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5098	Lighting	Advanced Lighting	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5099	Lighting	Advanced Lighting	N/A	MF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5100	Lighting	Advanced Lighting	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001	New Construction	Zero Energy Ready Home	N/A	SF	N/A	NC	55	67	91	121	137	148	151	102	128	135	0	0	0	0	0	0	0	4,258	441	447
6002	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	SF	N/A	NC	24	28	39	51	58	63	64	43	54	57	0	0	0	0	0	0	0	1,806	187	190
6003	New Construction	Zero Energy Ready Home	N/A	MF	N/A	NC	4	4	6	8	9	10	10	7	9	9	0	0	0	0	0	0	0	283	29	30
6004	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7002	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	SFIE	SF	LI	Retrofit	42	38	32	27	21	17	13	10	7	0	42	38	32	27	21	17	13	10	7	0
7003	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7004	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7005	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	MFIE	MF	LI	Retrofit	2	2	2	2	3	3	4	4	4	4	5	5	4	4	5	5	5	5	4	4
7006	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7007	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	NLI	Retrofit	306	460	512	550	607	761	923	1,075	1,195	1,262	1,568	1,656	1,588	1,473	1,369	1,369	1,395	1,435	1,467	1,464
7008	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	SFIE	SF	LI	Retrofit	1,229	1,109	955	791	633	493	377	283	210	0	1,229	1,109	955	791	633	493	377	283	210	0
7009	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	N/A	NC	11	13	18	23	27	29	29	20	25	26	130	129	144	153	139	120	99	877	142	137
7010	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	NLI	Retrofit	31	46	51	55	61	76	92	107	119	126	157	165	158	147	137	137	139	143	146	146
7011	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	MFIE	MF	LI	Retrofit	62	66	73	92	112	130	145	153	153	145	193	179	166	166	169	174	178	177	153	145
7012	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	N/A	NC	1	2	2	3	3	4	4	3	3	3	17	17	19	20	18	16	13	114	18	18
7013	Plug Loads	ENERGY STAR TV	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7014	Plug Loads	ENERGY STAR TV	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7015	Plug Loads	ENERGY STAR TV	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7016	Plug Loads	ENERGY STAR TV	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7017	Plug Loads	ENERGY STAR TV	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7018	Plug Loads	ENERGY STAR TV	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7019	Plug Loads	Smart Plug	N/A	SF	NLI	Retrofit	16	24	27	29	32	41	49	74	88	94	97	96	98	98	114	120	120	116	111	109
7020	Plug Loads	Smart Plug	N/A	SF	LI	Retrofit	5	7	8	9	10	12	15	22	26	28	29	29	29	29	34	36	36	35	33	33
7021	Plug Loads	Smart Plug	N/A	SF	N/A	NC	0	0	0	0	0	0	0	1	1	2	1	1	1	1	3	3	3	13	3	3
7022	Plug Loads	Smart Plug	N/A	MF	NLI	Retrofit	2	3	3	4	4	5	6	9	11	11	12	12	12	12	14	15	15	14	13	13
7023	Plug Loads	Smart Plug	N/A	MF	LI	Retrofit	1	2	2	2	3	3	4	6	7	8	8	8	8	8	10	10	10	10	9	9
7024	Plug Loads	Smart Plug	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0
8001	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER1	44	60	81	108	141	182	230	283	339	395	448	495	535	569	595	615	630	642	657	658
8002	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8003	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8004	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8005	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER1	14	18	22	28	33	39	44	49	53	56	59	61	62	63	64	64	64	64	65	65
8006	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8007	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8008	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	SF	LI	MO	1	1	2	2	3	3	3	4	4	4	5	5	5	5	5	5	5	5	5	5
8009	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8010	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER1	6	8	11	14	18	22	28	33	39	44	48	52	56	58	60	62	63	64	64	64
8011	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8012	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8013	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8014	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER1	8	10	13	16	19	22	25	28	31	33	34	35	36	37	37	37	37	37	38	38
8015	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8016	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8017	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	MF	LI	MO	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
8018	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8019	Pools	Heat Pump Pool Heater	N/A	SF	N/A	MO	22	30	40	55	73	95	123	155	191	228	266	302	333	361	383	401	414	425	437	443
8020	Pools	Heat Pump Pool Heater	N/A	SF	N/A	NC	1	1	1	2	2	2	2	1	2	2	0	0	0	0	0	14	13	73	20	18
8021	Pools	Heat Pump Pool Heater	N/A	MF	N/A	MO	4	5	7	10	13	17	22	28	34	41	47	54	59	64	68	71	74	75	78	79
8022	Pools	Heat Pump Pool Heater	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	13	3	3
9001	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	NLI	MO	1,121	1,377	1,646	1,914	2,166	2,390	2,579	2,732	2,849	2,938	3,002	3,046	3,077	3,067	3,058	3,050	3,043	3,030	3,058	3,061
9002	Water Heating	Heat Pump Hot Water Heater	SFIE	SF	LI	MO	219	294	391	512	657	826	1,012	1,207	1,399	1,580	1,741	1,877	1,987	2,075	2,141	2,191	2,228	2,249	2,269	2,272
9003	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	N/A	NC	3	4	6	7	8	9	9	6	8	8	0	0	0	53	49	52	53	292	64	57
9004	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	NLI	MO	80	106	139	179	225	276	329	382	431	475	513	543	566	584	598	607	614	612	617	618
9005	Water Heating	Heat Pump Hot Water Heater	MFIE	MF	LI	MO	187	241	303	372	445	516	584	643	693	734	766	790	807	820	829	826	824	821	829	829
9006	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	N/A	NC	2	2	3	4	5	5	5	3	4	4	0	0	0	30	27	29	29	163	36	32
9007	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	39	49	59	69	77	81	81	77	70	60	88	88	90	92	94	94	81	77	70	60
9008	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	81	94	105	111	111	106	95	82	68	54	123	126	129	129	111	106	95	82	68	54
9009	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	0	0	0	1	1	1	1	0	1	1	3	3	4	4	4	3	2	22	4	3
9010	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	7	8	9	10	10	10	9	7	6	5	11	11	12	12	10	10	9	7	6	5
9011	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9012	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
9013	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	29	36	44	51	57	60	60	57	51	44	65	65	67	68	70	70	60	57	51	44
9014	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	79	92	103	109	109	103	93	80	66	53	120	124	126	126	109	103	93	80	66	53
9015	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	0	0	0	0	1	1	1	0	1	1	3	3	3	3	3	2	2	18	3	3
9016	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	8	9	10	11	11	10	9	8	7	5	12	12	13	13	11	10	9	8	7	5
9017	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
9018	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
9019	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	NLI	Retrofit	102	109	120	151	183	213	238	251	251	238	316	293	272	272	277	285	291	291	251	238
9020	Water Heating	Low Flow Showerhead SFIE DI	SFIE	SF	LI	Retrofit	178	207	231	244	244	232	209	180	149	119	270	278	283	283	244	232	209	180	149	119
9021	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	N/A	NC	1	1	1	2	2	2	2	2	2	2	10	10	12	12	11	10	8	70	11	11
9022	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	NLI	Retrofit	11	13	15	16	16	15	13	12	10	8	17	18	18	18	16	15	13	12	10	8
9023	Water Heating	Low Flow Showerhead SFIE DI	MFIE	MF	LI	Retrofit	23	20	16	13	10	8	6	4	0	0	23	20	16	13	10	8	6	4	0	0
9024	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	8	1	1
9025	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9026	Water Heating	Pipe Insulation SFIE DI	SFIE	SF	LI	Retrofit	23	28	33	37	39	39	37	33	29	24	19	15	35	37	39	37	39	39	37	33
9027	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9028	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9029	Water Heating	Pipe Insulation SFIE DI	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9030	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9031	Water Heating	Thermostatic Restrictor Valve	N/A	SF	NLI	Retrofit	29	44	49	53	58	73	88	103	115	121	150	159	152	141	131	131	134	138	141	140
9032	Water Heating	Thermostatic Restrictor Valve	N/A	SF	LI	Retrofit	14	20	23	24	27	34	41	48	53	56	70	74	71	66	61	61	62	64	65	65
9033	Water Heating	Thermostatic Restrictor Valve	N/A	SF	N/A	NC	0	0	0	1	1	1	1	0	1	1	3	3	3	3	3	3	2	20	3	3
9034	Water Heating	Thermostatic Restrictor Valve	N/A	MF	NLI	Retrofit	3	4	5	5	6	7	9	10	11	12	15	15	15	14	13	13	13	13	14	14
9035	Water Heating	Thermostatic Restrictor Valve	N/A	MF	LI	Retrofit	1	1	1	1	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	1
9036	Water Heating	Thermostatic Restrictor Valve	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
9037	Water Heating	Water Heater Wrap	N/A	SF	NLI	Retrofit	17	26	29	31	34	60	77	89	97	104	130	144	149	149	147	164	170	169	164	158
9038	Water Heating	Water Heater Wrap	N/A	SF	LI	Retrofit	6	10	11	12	13	22	29	33	37	39	49	54	56	56	55	61	64	63	62	59
9039	Water Heating	Water Heater Wrap	N/A	SF	N/A	NC	0	0	0	0	0	1	1	1	2	2	3	3	3	3	3	5	4	17	5	5
9040	Water Heating	Water Heater Wrap	N/A	MF	NLI	Retrofit	2	3	3	3	4	6	8	9	10	11	14	15	16	16	16	17	18	18	17	17
9041	Water Heating	Water Heater Wrap	N/A	MF	LI	Retrofit	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9042	Water Heating	Water Heater Wrap	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1
9043	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9044	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9045	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9046	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9047	Water Heating	Water Heater Timer / Setback	N/A	SF	NLI	Retrofit	46	69	122	151	213	265	351	425	530	614	718	793	879	931	993	1,022	1,064	1,076	1,104	1,106
9048	Water Heating	Water Heater Timer / Setback	N/A	SF	LI	Retrofit	17	26	46	57	80	100	132	160	200	232	271	299	332	351	375	385	401	406	417	417
9049	Water Heating	Water Heater Timer / Setback	N/A	SF	N/A	NC	0	0	1	1	2	2	4	4	6	6	8	8	11	10	12	11	13	27	16	30
9050	Water Heating	Water Heater Timer / Setback	N/A	MF	NLI	Retrofit	5	8	14	17	25	31	41	49	61	71	83	92	102	107	115	118	123	124	128	128
9051	Water Heating	Water Heater Timer / Setback	N/A	MF	LI	Retrofit	1	1	2	3	4	4	6	7	9	10	12	13	15	16	17	17	18	18	19	19
9052	Water Heating	Water Heater Timer / Setback	N/A	MF	N/A	NC	0	0	0	0	0	0	1	1	1	1	1	1	2	1	2	2	2	4	2	4

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1001	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	NLI	MO	$6,585	$9,091	$12,463	$16,935	$22,745	$30,093	$39,087	$49,672	$61,562	$74,299	$87,250	$99,676	$111,092	$121,164	$129,740	$136,853	$142,659	$147,625	$153,192	$156,835
1002	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	SFIE	SF	LI	MO	$1,905	$2,487	$3,177	$3,961	$4,808	$5,677	$6,526	$7,317	$8,026	$8,645	$9,175	$9,615	$9,986	$10,300	$10,569	$10,695	$10,820	$10,966	$11,220	$11,384
1003	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	N/A	NC	$124	$150	$207	$275	$316	$342	$354	$241	$305	$1,701	$1,420	$1,637	$1,793	$1,678	$1,474	$1,240	$694	$11,624	$4,631	$3,705
1004	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	NLI	MO	$1,218	$1,655	$2,222	$2,941	$3,821	$4,858	$6,025	$7,274	$8,542	$9,767	$10,896	$11,886	$12,729	$13,432	$14,007	$14,472	$14,850	$15,186	$15,136	$15,171
1005	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	MFIE	MF	LI	MO	$1,908	$2,192	$2,457	$2,695	$2,903	$3,080	$3,229	$3,355	$3,460	$3,551	$3,595	$3,636	$3,677	$3,718	$3,760	$3,801	$3,842	$3,890	$3,976	$4,030
1006	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	N/A	NC	$18	$22	$31	$41	$47	$51	$53	$36	$45	$253	$211	$243	$266	$249	$219	$184	$103	$1,727	$688	$550
1007	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	NLI	MO	$8,687	$11,993	$16,442	$22,341	$30,007	$39,701	$51,567	$65,531	$81,216	$98,021	$115,105	$131,500	$146,560	$159,848	$171,161	$180,545	$188,205	$194,757	$202,100	$206,907
1008	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	SFIE	SF	LI	MO	$1,489	$1,933	$2,456	$3,045	$3,676	$4,317	$4,935	$5,504	$6,004	$6,431	$6,788	$7,075	$7,307	$7,496	$7,649	$7,698	$7,746	$7,807	$7,944	$8,016
1009	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	N/A	NC	$164	$198	$273	$363	$417	$452	$467	$317	$402	$2,244	$1,873	$2,160	$2,366	$2,214	$1,945	$1,636	$915	$15,335	$6,109	$4,887
1010	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	NLI	MO	$1,607	$2,183	$2,932	$3,880	$5,041	$6,410	$7,949	$9,597	$11,269	$12,885	$14,375	$15,680	$16,793	$17,720	$18,479	$19,093	$19,591	$20,034	$19,969	$20,014
1011	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	MFIE	MF	LI	MO	$971	$1,115	$1,250	$1,371	$1,476	$1,566	$1,642	$1,706	$1,760	$1,806	$1,828	$1,849	$1,870	$1,891	$1,912	$1,933	$1,954	$1,978	$2,022	$2,050
1012	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	N/A	NC	$24	$29	$41	$54	$62	$67	$69	$47	$60	$333	$278	$321	$352	$329	$289	$243	$136	$2,279	$908	$726
1013	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	NLI	MO	$16,366	$22,595	$30,977	$42,091	$56,533	$74,797	$97,152	$123,460	$153,012	$184,671	$216,859	$247,745	$276,119	$301,154	$322,468	$340,147	$354,579	$366,922	$380,757	$389,812
1014	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	SFIE	SF	LI	MO	$5,435	$7,104	$9,084	$11,335	$13,773	$16,280	$18,732	$21,026	$23,084	$24,889	$26,440	$27,737	$28,833	$29,768	$30,573	$30,967	$31,360	$31,811	$32,578	$33,083
1015	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	N/A	NC	$308	$372	$514	$684	$787	$851	$879	$598	$757	$4,229	$3,529	$4,070	$4,457	$4,172	$3,664	$3,082	$1,724	$28,891	$11,510	$9,208
1016	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	NLI	MO	$3,027	$4,113	$5,524	$7,309	$9,498	$12,076	$14,976	$18,081	$21,230	$24,275	$27,083	$29,542	$31,638	$33,385	$34,814	$35,971	$36,910	$37,744	$37,621	$37,707
1017	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	MFIE	MF	LI	MO	$4,743	$5,449	$6,107	$6,698	$7,214	$7,655	$8,026	$8,338	$8,600	$8,826	$8,934	$9,036	$9,139	$9,242	$9,345	$9,447	$9,549	$9,667	$9,882	$10,017
1018	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	N/A	NC	$46	$55	$76	$102	$117	$126	$131	$89	$112	$628	$524	$605	$662	$620	$544	$458	$256	$4,293	$1,710	$1,368
1019	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	NLI	MO	$3,826	$5,282	$7,242	$9,840	$13,216	$17,486	$22,712	$28,862	$35,771	$43,172	$50,697	$57,918	$64,551	$70,403	$75,386	$79,519	$82,893	$85,778	$89,013	$91,130
1020	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	SFIE	SF	LI	MO	$1,463	$1,914	$2,449	$3,059	$3,720	$4,401	$5,069	$5,694	$6,257	$6,752	$7,179	$7,537	$7,841	$8,102	$8,328	$8,442	$8,556	$8,686	$8,903	$9,048
1021	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	N/A	NC	$72	$87	$120	$160	$184	$199	$206	$140	$177	$989	$825	$951	$1,042	$975	$857	$720	$403	$6,754	$2,691	$2,153
1022	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	NLI	MO	$708	$962	$1,291	$1,709	$2,220	$2,823	$3,501	$4,227	$4,963	$5,675	$6,331	$6,906	$7,396	$7,805	$8,139	$8,409	$8,629	$8,824	$8,795	$8,815
1023	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	MFIE	MF	LI	MO	$1,109	$1,274	$1,428	$1,566	$1,687	$1,790	$1,876	$1,949	$2,010	$2,063	$2,089	$2,113	$2,136	$2,161	$2,185	$2,208	$2,232	$2,260	$2,310	$2,342
1024	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	N/A	NC	$11	$13	$18	$24	$27	$30	$31	$21	$26	$147	$123	$141	$155	$145	$127	$107	$60	$1,004	$400	$320
1025	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	NLI	MO	$11,642	$16,073	$22,034	$29,941	$40,213	$53,205	$69,106	$87,820	$108,841	$131,361	$154,257	$176,227	$196,410	$214,218	$229,380	$241,955	$252,221	$261,001	$270,842	$277,283
1026	Appliances	ENERGY STAR Dehumidifier	SFIE	SF	LI	MO	$4,916	$6,721	$9,079	$12,086	$15,798	$20,205	$25,207	$30,613	$36,158	$41,589	$46,672	$51,210	$55,166	$58,553	$61,416	$63,827	$65,873	$67,752	$69,399	$70,487
1027	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	N/A	NC	$288	$348	$480	$639	$735	$795	$821	$559	$707	$749	$0	$0	$4,790	$4,588	$4,961	$5,146	$4,607	$29,196	$5,841	$4,455
1028	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	NLI	MO	$1,411	$1,948	$2,671	$3,629	$4,874	$6,448	$8,376	$10,644	$13,191	$15,921	$18,696	$21,359	$23,805	$25,963	$27,801	$29,325	$30,569	$31,633	$32,826	$33,607
1029	Appliances	ENERGY STAR Dehumidifier	MFIE	MF	LI	MO	$4,651	$5,936	$7,391	$8,962	$10,574	$12,145	$13,607	$14,916	$16,048	$17,015	$17,830	$18,500	$19,063	$19,544	$19,762	$19,978	$20,193	$20,444	$20,898	$21,182
1030	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	N/A	NC	$43	$52	$71	$95	$109	$118	$122	$83	$105	$111	$0	$0	$712	$682	$737	$765	$685	$4,338	$868	$662
1031	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	NLI	MO	$15,515	$21,420	$29,365	$39,902	$53,592	$70,907	$92,099	$117,039	$145,053	$175,066	$205,579	$234,860	$261,757	$285,490	$305,696	$322,455	$336,137	$347,838	$360,953	$369,537
1032	Appliances	ENERGY STAR Most Efficient Dehumidifier	SFIE	SF	LI	MO	$3,283	$4,454	$5,970	$7,886	$10,229	$12,981	$16,070	$19,366	$22,697	$25,905	$28,846	$31,406	$33,571	$35,358	$36,801	$37,951	$38,866	$39,668	$40,321	$40,639
1033	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	N/A	NC	$366	$442	$610	$813	$934	$1,011	$1,044	$710	$899	$953	$0	$0	$6,088	$5,832	$6,307	$6,542	$5,856	$37,114	$7,424	$5,664
1034	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	NLI	MO	$1,880	$2,596	$3,559	$4,836	$6,495	$8,594	$11,162	$14,185	$17,580	$21,218	$24,916	$28,465	$31,725	$34,601	$37,050	$39,081	$40,740	$42,158	$43,747	$44,788
1035	Appliances	ENERGY STAR Most Efficient Dehumidifier	MFIE	MF	LI	MO	$2,010	$2,566	$3,195	$3,874	$4,570	$5,249	$5,881	$6,447	$6,937	$7,354	$7,706	$7,996	$8,240	$8,448	$8,542	$8,635	$8,728	$8,837	$9,033	$9,156
1036	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	N/A	NC	$54	$65	$90	$120	$138	$149	$154	$105	$133	$140	$0	$0	$897	$860	$929	$964	$863	$5,470	$1,094	$835
1037	Appliances	Dehumidifier Recycling	N/A	SF	N/A	Recycle	$1,393	$1,946	$2,700	$3,712	$5,045	$6,753	$8,874	$11,408	$14,301	$17,457	$20,732	$23,951	$26,992	$29,766	$32,222	$34,359	$36,205	$37,867	$39,712	$41,085
1038	Appliances	Dehumidifier Recycling	N/A	MF	N/A	Recycle	$244	$341	$473	$651	$885	$1,184	$1,556	$2,000	$2,508	$3,061	$3,635	$4,200	$4,733	$5,219	$5,650	$6,025	$6,349	$6,640	$6,964	$7,204
1039	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER1	$4,357	$6,076	$8,413	$11,545	$15,660	$20,924	$27,445	$35,217	$44,071	$53,703	$63,669	$73,432	$82,619	$90,960	$98,311	$104,666	$110,117	$114,998	$120,423	$124,405
1040	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1041	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$328	$459	$637	$876	$1,191
1042	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER1	$139,616	$180,451	$228,175	$281,521	$338,205	$395,225	$449,583	$498,855	$541,403	$576,993	$605,839	$628,158	$645,352	$658,486	$668,333	$668,941	$669,415	$670,963	$678,959	$681,239
1043	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1044	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$52,045	$67,177	$84,828	$104,517	$125,385
1045	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER1	$392	$546	$756	$1,038	$1,408	$1,881	$2,467	$3,166	$3,962	$4,828	$5,724	$6,601	$7,427	$8,177	$8,838	$9,409	$9,899	$10,338	$10,826	$11,184
1046	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1047	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$29	$41	$57	$79	$107
1048	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER1	$25,575	$29,234	$32,598	$35,575	$38,123	$40,245	$41,981	$43,391	$44,524	$45,460	$45,784	$46,070	$46,352	$46,635	$46,911	$47,179	$47,441	$47,784	$48,593	$49,000
1049	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1050	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,762	$21,338	$23,670	$25,695	$27,390
1051	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER1	$6,619	$9,242	$12,812	$17,604	$23,907	$31,979	$41,993	$53,946	$67,582	$82,441	$97,845	$112,966	$127,229	$140,215	$151,698	$161,663	$170,245	$177,959	$186,529	$192,873
1052	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1053	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$265	$370	$514	$707	$961
1054	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER1	$122,670	$158,783	$201,079	$248,470	$298,961	$349,914	$398,675	$443,084	$481,664	$514,182	$540,799	$561,682	$578,058	$590,861	$600,767	$602,401	$603,933	$606,455	$614,838	$618,079
1055	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1056	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$42,009	$54,224	$68,471	$84,363	$101,208
1057	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER1	$595	$831	$1,152	$1,583	$2,149	$2,875	$3,775	$4,850	$6,075	$7,411	$8,796	$10,155	$11,437	$12,605	$13,637	$14,533	$15,304	$15,998	$16,768	$17,339
1058	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1059	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$24	$33	$46	$64	$86
1060	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER1	$26,773	$30,703	$34,347	$37,605	$40,431	$42,821	$44,816	$46,474	$47,846	$49,015	$49,530	$50,006	$50,481	$50,961	$51,436	$51,906	$52,372	$52,930	$54,010	$54,649
1061	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1062	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,145	$17,223	$19,106	$20,741	$22,108
1063	Appliances	Refrigerator Recycling	N/A	SF	N/A	Recycle	$9,470	$13,198	$18,264	$25,049	$33,958	$45,346	$59,444	$76,237	$95,351	$116,128	$137,606	$158,623	$178,376	$196,285	$212,041	$225,639	$237,274	$247,672	$259,236	$267,684
1064	Appliances	Refrigerator Recycling	N/A	MF	N/A	Recycle	$415	$579	$801	$1,098	$1,489	$1,988	$2,606	$3,342	$4,180	$5,091	$6,032	$6,954	$7,820	$8,605	$9,295	$9,892	$10,402	$10,857	$11,364	$11,735
1065	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	NLI	MO	$852	$1,182	$1,628	$2,223	$3,000	$3,989	$5,206	$6,649	$8,280	$10,043	$11,850	$13,604	$15,236	$16,698	$17,967	$19,044	$19,948	$20,741	$21,627	$22,248
1066	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	LI	MO	$375	$520	$716	$978	$1,320	$1,755	$2,290	$2,925	$3,643	$4,418	$5,213	$5,984	$6,702	$7,346	$7,904	$8,377	$8,775	$9,124	$9,514	$9,787
1067	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	N/A	NC	$36	$43	$60	$81	$93	$101	$105	$72	$91	$97	$0	$0	$0	$0	$0	$0	$0	$3,413	$358	$368
1068	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	NLI	MO	$27	$37	$51	$70	$95	$126	$165	$210	$262	$318	$375	$430	$482	$528	$568	$602	$631	$656	$684	$703
1069	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	LI	MO	$43	$60	$82	$112	$152	$201	$263	$336	$418	$507	$599	$687	$770	$843	$907	$962	$1,008	$1,048	$1,092	$1,124
1070	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	N/A	NC	$2	$3	$4	$5	$5	$6	$6	$4	$5	$6	$0	$0	$0	$0	$0	$0	$0	$200	$21	$22
1071	Appliances	Freezer Recycling	N/A	SF	N/A	Recycle	$9,506	$13,248	$18,333	$25,145	$34,089	$45,521	$59,674	$76,533	$95,722	$116,582	$138,146	$159,247	$179,079	$197,060	$212,881	$226,535	$238,219	$248,661	$260,273	$268,757
1072	Appliances	Freezer Recycling	N/A	MF	N/A	Recycle	$417	$581	$804	$1,102	$1,494	$1,996	$2,616	$3,355	$4,196	$5,111	$6,056	$6,981	$7,850	$8,639	$9,332	$9,931	$10,443	$10,901	$11,410	$11,782
1073	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	NLI	MO	$45,190	$62,338	$85,393	$115,938	$155,588	$205,686	$266,938	$338,943	$419,720	$506,137	$593,854	$677,859	$754,849	$822,584	$880,047	$927,493	$966,008	$998,768	########	########
1074	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	LI	MO	$19,186	$26,466	$36,254	$49,222	$66,055	$87,324	$113,329	$143,899	$178,193	$214,882	$252,122	$287,787	$320,473	$349,230	$373,626	$393,769	$410,121	$424,029	$439,634	$449,696
1075	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	N/A	NC	$712	$860	$1,185	$1,577	$1,811	$1,958	$2,021	$1,373	$1,737	$1,839	$0	$0	$0	$0	$13,693	$12,681	$13,346	$75,188	$18,369	$16,569
1076	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	NLI	MO	$3,751	$5,174	$7,087	$9,622	$12,913	$17,071	$22,155	$28,131	$34,835	$42,007	$49,287	$56,259	$62,649	$68,271	$73,040	$76,977	$80,174	$82,893	$85,944	$87,910
1077	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	LI	MO	$3,424	$4,723	$6,470	$8,784	$11,788	$15,583	$20,224	$25,680	$31,800	$38,347	$44,993	$51,357	$57,190	$62,322	$66,675	$70,270	$73,188	$75,670	$78,455	$80,251

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1078	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	N/A	NC	$103	$124	$171	$228	$262	$283	$292	$199	$251	$266	$0	$0	$0	$0	$1,980	$1,833	$1,929	$10,870	$2,656	$2,395
1079	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	NLI	MO	$23,915	$33,073	$45,418	$61,819	$83,172	$110,232	$143,424	$182,578	$226,672	$274,047	$322,373	$368,929	$411,900	$450,032	$482,727	$510,085	$532,661	$552,172	$573,999	$588,683
1080	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	LI	MO	$8,443	$11,676	$16,034	$21,824	$29,362	$38,915	$50,633	$64,456	$80,022	$96,747	$113,807	$130,243	$145,413	$158,875	$170,417	$180,075	$188,045	$194,933	$202,639	$207,823
1081	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	N/A	NC	$618	$748	$1,035	$1,380	$1,589	$1,722	$1,782	$1,214	$1,539	$1,634	$0	$0	$0	$0	$12,325	$11,444	$12,075	$68,210	$16,708	$15,111
1082	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	NLI	MO	$2,900	$4,010	$5,507	$7,495	$10,084	$13,365	$17,390	$22,137	$27,483	$33,227	$39,086	$44,731	$49,941	$54,564	$58,529	$61,846	$64,583	$66,948	$69,595	$71,375
1083	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	LI	MO	$2,452	$3,391	$4,657	$6,338	$8,528	$11,302	$14,705	$18,720	$23,241	$28,098	$33,053	$37,826	$42,232	$46,142	$49,494	$52,299	$54,613	$56,614	$58,852	$60,357
1084	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	N/A	NC	$108	$131	$181	$242	$279	$302	$313	$213	$270	$287	$0	$0	$0	$0	$2,162	$2,007	$2,118	$11,965	$2,931	$2,651
1085	Appliances	Heat Pump Dryer	N/A	SF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1086	Appliances	Heat Pump Dryer	N/A	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1087	Appliances	Heat Pump Dryer	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1088	Appliances	Heat Pump Dryer	N/A	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1089	Appliances	Heat Pump Dryer	N/A	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1090	Appliances	Heat Pump Dryer	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1091	Appliances	Ultrasonic Clothes Dryer	N/A	SF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1092	Appliances	Ultrasonic Clothes Dryer	N/A	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1093	Appliances	Ultrasonic Clothes Dryer	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1094	Appliances	Ultrasonic Clothes Dryer	N/A	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1095	Appliances	Ultrasonic Clothes Dryer	N/A	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1096	Appliances	Ultrasonic Clothes Dryer	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1097	Appliances	ENERGY STAR Dishwasher	N/A	SF	NLI	MO	$17,453	$24,109	$33,069	$44,959	$60,418	$79,982	$103,944	$132,165	$163,892	$197,913	$232,539	$265,809	$296,419	$323,478	$346,569	$365,777	$381,514	$395,021	$410,151	$420,146
1098	Appliances	ENERGY STAR Dishwasher	N/A	SF	LI	MO	$8,213	$11,345	$15,562	$21,157	$28,432	$37,639	$48,915	$62,195	$77,126	$93,135	$109,430	$125,087	$139,491	$152,225	$163,091	$172,131	$179,536	$185,892	$193,012	$197,716
1099	Appliances	ENERGY STAR Dishwasher	N/A	SF	N/A	NC	$218	$263	$363	$484	$557	$603	$623	$424	$537	$569	$0	$3,267	$3,199	$3,525	$3,713	$3,364	$2,880	$21,678	$3,327	$3,435
1100	Appliances	ENERGY STAR Dishwasher	N/A	MF	NLI	MO	$2,115	$2,922	$4,008	$5,449	$7,323	$9,694	$12,598	$16,018	$19,864	$23,987	$28,184	$32,216	$35,926	$39,205	$42,004	$44,332	$46,239	$47,876	$49,710	$50,921
1101	Appliances	ENERGY STAR Dishwasher	N/A	MF	LI	MO	$2,385	$3,295	$4,520	$6,145	$8,257	$10,931	$14,206	$18,063	$22,399	$27,049	$31,782	$36,329	$40,512	$44,210	$47,366	$49,991	$52,142	$53,988	$56,056	$57,422
1102	Appliances	ENERGY STAR Dishwasher	N/A	MF	N/A	NC	$38	$46	$64	$85	$98	$106	$109	$74	$94	$100	$0	$573	$561	$618	$651	$590	$505	$3,803	$584	$602
2001	Behavior	Home Energy Reports	N/A	SF	NLI	MO	$177,081	$247,446	$343,327	$472,107	$641,636	$858,971	########	########	########	########	########	########	########	########	########	########	########	########	########	########
2002	Behavior	Home Energy Reports	N/A	SF	LI	MO	$83,332	$116,445	$161,566	$222,168	$301,946	$404,221	$531,195	$682,911	$856,164	########	########	########	########	########	########	########	########	########	########	########
2003	Behavior	Home Energy Reports	N/A	SF	N/A	NC	$620	$1,623	$3,306	$5,965	$9,750	$14,847	$21,382	$28,764	$37,713	$47,803	$56,744	$65,588	$73,969	$81,635	$88,469	$94,467	$99,701	$170,416	$184,028	$197,439
2004	Behavior	Home Energy Reports	N/A	MF	NLI	MO	$11,034	$15,411	$21,371	$29,373	$39,900	$53,389	$70,126	$90,113	$112,923	$137,790	$163,578	$188,908	$212,815	$234,597	$253,871	$270,615	$285,050	$298,037	$312,462	$323,163
2005	Behavior	Home Energy Reports	N/A	MF	LI	MO	$12,443	$17,378	$24,099	$33,122	$44,994	$60,205	$79,079	$101,617	$127,338	$155,380	$184,461	$213,024	$239,983	$264,546	$286,281	$305,162	$321,440	$336,084	$352,351	$364,417
2006	Behavior	Home Energy Reports	N/A	MF	N/A	NC	$56	$146	$298	$537	$877	$1,335	$1,922	$2,584	$3,387	$4,291	$5,091	$5,882	$6,631	$7,315	$7,924	$8,458	$8,923	$15,246	$16,457	$17,650
3001	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3002	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	$309,996	$311,163	$295,829	$267,212	$230,451	$190,927	$152,995	$119,362	$91,170	$68,549	$50,928	$0	$0	$0	$0	$0	$0	$0	$0	$0
3003	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	$585	$886	$994	$1,075	$1,195	$1,510	$1,845	$2,166	$2,427	$2,584	$2,606	$2,488	$2,256	$1,954	$1,626	$1,308	$1,025	$788	$602	$451
3004	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3005	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3006	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	SFIE	SF	LI	Retrofit	$546,675	$548,134	$520,544	$469,656	$404,578	$334,797	$267,961	$208,800	$159,287	$119,614	$88,752	$0	$0	$0	$0	$0	$0	$0	$0	$0
3007	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3008	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3009	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3010	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	SFIE	SF	LI	Retrofit	$112,618	$113,023	$107,434	$97,024	$83,661	$69,299	$55,521	$43,307	$33,072	$24,861	$18,467	$0	$0	$0	$0	$0	$0	$0	$0	$0
3011	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	$78	$118	$132	$143	$159	$201	$245	$288	$323	$343	$346	$331	$300	$260	$216	$174	$136	$105	$80	$60
3012	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3013	Building Shell	Door Sweep	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3014	Building Shell	Door Sweep	SFIE	SF	LI	Retrofit	$20,663	$20,804	$19,840	$17,976	$15,552	$12,926	$10,392	$8,134	$6,233	$4,703	$3,506	$0	$0	$0	$0	$22,221	$22,396	$21,382	$19,395	$16,798
3015	Building Shell	Door Sweep	PAYS	MF	NLI	Retrofit	$384	$451	$505	$537	$541	$517	$469	$406	$337	$271	$213	$163	$123	$92	$0	$325	$381	$428	$456	$460
3016	Building Shell	Door Sweep	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3017	Building Shell	Weatherstripping: 17' Roll	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3018	Building Shell	Weatherstripping: 17' Roll	SFIE	SF	LI	Retrofit	$8,391	$8,472	$8,102	$7,361	$6,387	$5,324	$4,292	$3,370	$2,590	$1,960	$1,465	$0	$0	$0	$0	$0	$0	$0	$0	$0
3019	Building Shell	Weatherstripping: 17' Roll	N/A	MF	NLI	Retrofit	$18	$19	$21	$27	$33	$39	$44	$47	$48	$46	$42	$36	$30	$24	$19	$15	$11	$8	$0	$0
3020	Building Shell	Weatherstripping: 17' Roll	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3021	Building Shell	Duct Insulation - Electric Heating	PAYS	SF	NLI	Retrofit	$161,304	$244,291	$273,996	$296,368	$329,469	$416,226	$508,621	$597,109	$669,013	$712,207	$718,312	$685,775	$621,930	$538,541	$448,026	$360,539	$282,512	$217,203	$165,959	$124,256
3022	Building Shell	Duct Insulation - Electric Heating	SFIE	SF	LI	Retrofit	$213,096	$268,411	$327,019	$382,881	$428,038	$454,507	$457,117	$435,465	$393,928	$340,277	$282,434	$226,600	$177,027	$135,466	$102,018	$75,905	$0	$0	$0	$0
3023	Building Shell	Duct Insulation - Gas Heating	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3024	Building Shell	Duct Insulation - Gas Heating	SFIE	SF	LI	Retrofit	$375,007	$437,643	$487,518	$515,959	$517,330	$491,287	$443,108	$381,482	$315,423	$252,334	$196,568	$149,850	$112,423	$83,342	$0	$0	$0	$0	$0	$0
3025	Building Shell	Duct Repair (Sealing) - Electric Heating SF	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3026	Building Shell	Duct Repair (Sealing) - Electric Heating SF	SFIE	SF	LI	Retrofit	$348,110	$368,600	$369,668	$351,254	$317,076	$273,210	$226,142	$181,047	$141,082	$107,693	$80,911	$60,015	$0	$0	$0	$0	$0	$0	$0	$0
3027	Building Shell	Duct Repair (Sealing) - Gas Heating SF	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3028	Building Shell	Duct Repair (Sealing) - Gas Heating SF	SFIE	SF	LI	Retrofit	$630,451	$667,166	$668,695	$634,997	$572,851	$493,287	$408,038	$326,456	$254,221	$193,924	$145,595	$107,916	$0	$0	$0	$0	$0	$0	$0	$0
3029	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3030	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	MFIE	MF	LI	Retrofit	$1,175	$1,268	$1,407	$1,774	$2,165	$2,538	$2,840	$3,018	$3,038	$2,897	$2,624	$2,268	$1,884	$1,513	$1,184	$907	$684	$510	$0	$0
3031	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3032	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	MFIE	MF	LI	Retrofit	$155	$167	$185	$234	$285	$334	$374	$398	$400	$382	$346	$299	$248	$199	$156	$120	$90	$67	$0	$0
3033	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3034	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	$33,942	$30,677	$26,466	$21,942	$17,600	$13,744	$10,511	$7,910	$5,879	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3035	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3036	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	$60,681	$54,767	$47,182	$39,059	$31,282	$24,392	$18,625	$13,994	$10,385	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3037	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3038	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	$12,086	$10,917	$9,414	$7,800	$6,253	$4,881	$3,730	$2,805	$2,084	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3039	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3040	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	$883	$953	$1,057	$1,334	$1,627	$1,907	$2,134	$2,268	$2,283	$2,177	$1,973	$1,705	$1,416	$1,137	$890	$682	$514	$384	$0	$0
3041	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3042	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	$87	$94	$105	$132	$161	$189	$211	$224	$226	$215	$195	$169	$140	$113	$88	$67	$51	$38	$0	$0
3043	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3044	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	$145	$157	$174	$219	$267	$313	$351	$373	$375	$358	$324	$280	$233	$187	$146	$112	$84	$63	$0	$0
3045	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3046	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	$85,656	$77,490	$66,917	$55,532	$44,586	$34,853	$26,680	$20,099	$14,955	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3047	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3048	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	$140,540	$126,862	$109,309	$90,505	$72,498	$56,539	$43,178	$32,448	$24,084	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3049	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3050	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	$30,053	$27,166	$23,441	$19,437	$15,593	$12,179	$9,315	$7,011	$5,212	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3051	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	$10,524	$11,700	$14,782	$18,070	$21,228	$23,806	$25,357	$25,583	$24,443	$22,190	$19,234	$16,006	$12,885	$10,102	$7,757	$5,861	$4,376	$0	$0	$0
3052	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	$4,326	$4,670	$5,181	$6,534	$7,973	$9,346	$10,458	$11,115	$11,187	$10,668	$9,665	$8,354	$6,937	$5,573	$4,359	$3,340	$2,518	$1,879	$0	$0
3053	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3054	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	$394	$426	$472	$595	$726	$852	$953	$1,013	$1,019	$972	$881	$761	$632	$508	$397	$304	$229	$171	$0	$0
3055	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	$1,606	$1,785	$2,256	$2,757	$3,239	$3,633	$3,869	$3,904	$3,730	$3,386	$2,935	$2,442	$1,966	$1,541	$1,184	$894	$668	$0	$0	$0
3056	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	$712	$769	$853	$1,076	$1,313	$1,539	$1,722	$1,830	$1,842	$1,757	$1,592	$1,376	$1,142	$918	$718	$550	$415	$309	$0	$0
3057	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3058	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	$80,161	$72,530	$62,645	$51,995	$41,754	$32,645	$24,994	$18,832	$14,015	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3059	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3060	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	$132,591	$119,691	$103,134	$85,396	$68,408	$53,352	$40,746	$30,621	$22,729	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3061	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3062	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	$27,934	$25,254	$21,794	$18,073	$14,501	$11,327	$8,665	$6,523	$4,850	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3063	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	$8,379	$9,316	$11,769	$14,387	$16,902	$18,954	$20,189	$20,369	$19,462	$17,668	$15,314	$12,744	$10,259	$8,043	$6,176	$4,667	$3,484	$0	$0	$0
3064	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	$3,444	$3,719	$4,125	$5,202	$6,348	$7,441	$8,326	$8,849	$8,907	$8,494	$7,695	$6,651	$5,523	$4,437	$3,471	$2,659	$2,005	$1,496	$0	$0
3065	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3066	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	$324	$350	$388	$489	$597	$700	$783	$832	$838	$799	$724	$625	$519	$417	$326	$250	$189	$141	$0	$0
3067	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	$1,269	$1,411	$1,783	$2,180	$2,561	$2,872	$3,059	$3,086	$2,949	$2,677	$2,320	$1,931	$1,554	$1,219	$936	$707	$528	$0	$0	$0
3068	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	$563	$608	$674	$851	$1,038	$1,217	$1,361	$1,447	$1,456	$1,389	$1,258	$1,087	$903	$725	$567	$435	$328	$245	$0	$0
3069	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3070	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	$55,785	$50,482	$43,608	$36,199	$29,073	$22,734	$17,409	$13,119	$9,764	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3071	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3072	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	$90,376	$81,585	$70,300	$58,210	$46,632	$36,369	$27,776	$20,875	$15,495	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3073	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3074	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	$19,580	$17,704	$15,280	$12,673	$10,169	$7,944	$6,078	$4,576	$3,403	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3075	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	$6,111	$6,794	$8,583	$10,493	$12,326	$13,823	$14,724	$14,855	$14,193	$12,885	$11,169	$9,294	$7,482	$5,866	$4,504	$3,403	$2,541	$0	$0	$0
3076	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	$2,512	$2,712	$3,009	$3,794	$4,630	$5,427	$6,072	$6,454	$6,496	$6,195	$5,612	$4,851	$4,028	$3,236	$2,531	$1,939	$1,462	$1,091	$0	$0
3077	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3078	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	$230	$248	$275	$347	$423	$496	$555	$590	$594	$567	$513	$444	$368	$296	$232	$177	$134	$100	$0	$0
3079	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3080	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	$418	$451	$500	$631	$770	$903	$1,010	$1,074	$1,081	$1,030	$934	$807	$670	$538	$421	$323	$243	$182	$0	$0
3081	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3082	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	$43,923	$39,752	$34,342	$28,511	$22,901	$17,909	$13,716	$10,337	$7,695	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3083	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3084	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	$70,701	$63,825	$54,998	$45,541	$36,483	$28,454	$21,732	$16,333	$12,124	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3085	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3086	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	$15,286	$13,822	$11,930	$9,895	$7,941	$6,204	$4,747	$3,574	$2,658	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3087	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3088	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	$2,047	$2,210	$2,452	$3,092	$3,773	$4,423	$4,949	$5,260	$5,294	$5,049	$4,574	$3,953	$3,283	$2,637	$2,063	$1,580	$1,192	$889	$0	$0
3089	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3090	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	$187	$202	$224	$282	$344	$403	$451	$480	$483	$460	$417	$361	$299	$241	$188	$144	$109	$81	$0	$0
3091	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3092	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	$336	$363	$403	$508	$620	$727	$813	$864	$870	$830	$752	$650	$539	$433	$339	$260	$196	$146	$0	$0
3093	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Heat Pump Heating	SFIE	SF	LI	Retrofit	$1,309	$1,455	$1,839	$2,248	$2,641	$2,963	$3,156	$3,185	$3,044	$2,764	$2,396	$1,994	$1,606	$1,259	$967	$2,207	$2,189	$2,080	$2,546	$2,996
3094	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Non-Electric Heating	SFIE	SF	LI	Retrofit	$10,060	$11,234	$14,256	$17,504	$20,654	$23,265	$24,890	$25,224	$24,207	$22,073	$19,217	$16,063	$12,988	$10,228	$7,888	$18,073	$18,005	$17,175	$21,118	$24,952
3095	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Heat Pump Heating	SFIE	SF	LI	Retrofit	$470	$521	$656	$800	$937	$1,047	$1,112	$1,118	$1,065	$964	$833	$691	$554	$433	$331	$754	$745	$705	$860	$1,009
3096	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Non-Electric Heating	SFIE	SF	LI	Retrofit	$3,083	$3,429	$4,334	$5,301	$6,231	$6,991	$7,451	$7,521	$7,190	$6,531	$5,664	$4,716	$3,798	$2,979	$2,289	$5,225	$5,185	$4,927	$6,035	$7,103
3097	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Heat Pump Heating	SFIE	SF	LI	Retrofit	$317	$352	$442	$539	$630	$704	$746	$750	$713	$645	$557	$461	$370	$288	$221	$501	$495	$468	$570	$667
3098	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Non-Electric Heating	SFIE	SF	LI	Retrofit	$1,971	$2,190	$2,764	$3,375	$3,961	$4,437	$4,722	$4,759	$4,542	$4,120	$3,567	$2,965	$2,385	$1,868	$1,433	$3,265	$3,235	$3,069	$3,753	$4,410
3099	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Heat Pump Heating	SFIE	SF	LI	Retrofit	$3,155	$3,519	$4,460	$5,470	$6,446	$7,252	$7,749	$7,843	$7,517	$6,846	$5,953	$4,970	$4,014	$3,157	$2,432	$5,565	$5,537	$5,276	$6,479	$7,647
3100	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Non-Electric Heating	SFIE	SF	LI	Retrofit	$27,576	$30,877	$39,288	$48,370	$57,226	$64,629	$69,327	$70,439	$67,775	$61,959	$54,080	$45,318	$36,735	$29,000	$22,420	$51,498	$51,427	$49,175	$60,608	$71,781
3101	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Heat Pump Heating	MFIE	MF	LI	Retrofit	$663	$777	$870	$925	$932	$890	$806	$698	$580	$467	$365	$280	$211	$157	$0	$723	$849	$952	$1,013	$1,022
3102	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Non-Electric Heating	MFIE	MF	LI	Retrofit	$2,959	$3,470	$3,884	$4,131	$4,162	$3,973	$3,601	$3,117	$2,590	$2,083	$1,632	$1,251	$943	$703	$0	$3,230	$3,792	$4,250	$4,526	$4,566
3103	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Heat Pump Heating	MFIE	MF	LI	Retrofit	$138	$147	$148	$141	$128	$111	$92	$74	$58	$45	$34	$25	$0	$0	$0	$151	$160	$162	$155	$140
3104	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Non-Electric Heating	MFIE	MF	LI	Retrofit	$1,268	$1,487	$1,665	$1,770	$1,784	$1,703	$1,543	$1,336	$1,110	$893	$699	$536	$404	$301	$0	$1,384	$1,625	$1,821	$1,940	$1,957
3105	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Heat Pump Heating	MFIE	MF	LI	Retrofit	$68	$72	$73	$69	$63	$54	$45	$36	$29	$22	$17	$12	$0	$0	$0	$74	$79	$80	$76	$69
3106	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Non-Electric Heating	MFIE	MF	LI	Retrofit	$983	$1,153	$1,290	$1,372	$1,383	$1,320	$1,196	$1,035	$860	$692	$542	$415	$313	$234	$0	$1,073	$1,260	$1,412	$1,503	$1,517
3107	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Heat Pump Heating	MFIE	MF	LI	Retrofit	$1,300	$1,525	$1,707	$1,815	$1,829	$1,746	$1,582	$1,369	$1,138	$915	$717	$550	$415	$309	$0	$1,419	$1,666	$1,867	$1,989	$2,006
3108	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Non-Electric Heating	MFIE	MF	LI	Retrofit	$5,806	$6,808	$7,621	$8,105	$8,167	$7,795	$7,066	$6,115	$5,083	$4,088	$3,202	$2,454	$1,851	$1,380	$0	$6,338	$7,441	$8,339	$8,880	$8,959
3109	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3110	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	$35,384	$39,423	$41,718	$41,825	$39,727	$35,838	$30,859	$25,526	$20,417	$15,905	$12,135	$9,105	$6,749	$0	$0	$0	$0	$0	$0	$0
3111	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3112	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	$25,711	$29,991	$33,392	$35,323	$35,399	$33,599	$30,288	$26,062	$21,537	$17,220	$13,406	$10,214	$7,659	$5,674	$0	$0	$0	$0	$0	$0
3113	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3114	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	$10,820	$12,053	$12,752	$12,783	$12,139	$10,949	$9,426	$7,795	$6,234	$4,855	$3,703	$2,778	$2,059	$0	$0	$0	$0	$0	$0	$0
3115	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	$48,231	$73,190	$82,254	$89,149	$99,305	$125,708	$153,924	$181,069	$203,286	$216,852	$219,157	$209,658	$190,529	$165,320	$137,817	$111,133	$87,261	$67,226	$51,472	$38,617
3116	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	$198,078	$231,865	$259,086	$275,060	$276,670	$263,591	$238,523	$206,035	$170,934	$137,215	$107,263	$82,060	$61,786	$45,971	$0	$0	$0	$0	$0	$0
3117	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3118	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	$688,738	$767,432	$812,161	$814,323	$773,532	$697,874	$600,973	$497,155	$397,694	$309,824	$236,408	$177,393	$131,512	$0	$0	$0	$0	$0	$0	$0
3119	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	$21,350	$32,335	$36,268	$39,231	$43,613	$55,099	$67,333	$79,049	$88,571	$94,292	$95,103	$90,798	$82,348	$71,308	$59,325	$47,742	$37,411	$28,763	$21,978	$16,456
3120	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	$69,328	$81,069	$90,490	$95,967	$96,423	$91,764	$82,944	$71,565	$59,305	$47,551	$37,128	$28,370	$21,335	$15,855	$0	$0	$0	$0	$0	$0
3121	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3122	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3123	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3124	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3125	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3126	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3127	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3128	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3129	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3130	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3131	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3132	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3133	Building Shell	Wall Insulation - Heat pump	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3134	Building Shell	Wall Insulation - Heat pump	N/A	SF	LI	Retrofit	$3,168	$3,511	$4,423	$5,390	$6,311	$7,055	$7,491	$7,534	$7,175	$6,492	$5,609	$4,652	$3,732	$2,916	$2,232	$1,681	$1,250	$0	$0	$0
3135	Building Shell	Wall Insulation - Heat pump	N/A	MF	NLI	Retrofit	$26	$39	$43	$47	$52	$65	$79	$93	$104	$110	$111	$105	$95	$82	$68	$55	$43	$33	$25	$19
3136	Building Shell	Wall Insulation - Heat pump	N/A	MF	LI	Retrofit	$666	$812	$951	$1,063	$1,130	$1,137	$1,083	$981	$847	$703	$565	$441	$338	$255	$189	$0	$0	$0	$0	$0
3137	Building Shell	Wall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3138	Building Shell	Wall Insulation - Electric furnace	N/A	SF	LI	Retrofit	$9,682	$10,749	$13,562	$16,556	$19,422	$21,750	$23,134	$23,307	$22,237	$20,158	$17,447	$14,498	$11,654	$9,123	$6,995	$5,278	$3,935	$0	$0	$0
3139	Building Shell	Wall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	$164	$248	$278	$300	$333	$420	$513	$601	$673	$715	$720	$687	$622	$538	$447	$359	$281	$216	$164	$123
3140	Building Shell	Wall Insulation - Electric furnace	N/A	MF	LI	Retrofit	$3,044	$3,717	$4,360	$4,883	$5,196	$5,238	$5,001	$4,535	$3,925	$3,264	$2,627	$2,056	$1,577	$1,190	$888	$0	$0	$0	$0	$0
3141	Building Shell	Wall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3142	Building Shell	Wall Insulation - Gas Heating	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3143	Building Shell	Wall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3144	Building Shell	Wall Insulation - Gas Heating	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3145	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3146	Building Shell	Spray Foam Insulation: 12 oz. Can	SFIE	SF	LI	Retrofit	$14,982	$15,189	$14,587	$13,310	$11,596	$9,706	$7,859	$6,195	$4,782	$3,633	$2,728	$0	$0	$0	$0	$0	$0	$0	$0	$0
3147	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	N/A	NC	$683	$830	$1,153	$1,544	$1,784	$1,942	$2,017	$1,380	$1,757	$1,872	$0	$0	$0	$0	$0	$0	$0	$66,088	$6,945	$7,143
3148	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	NLI	Retrofit	$315	$372	$420	$450	$457	$440	$402	$350	$293	$238	$188	$145	$110	$83	$0	$0	$0	$0	$0	$0
3149	Building Shell	Spray Foam Insulation: 12 oz. Can	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3150	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	N/A	NC	$82	$99	$138	$184	$213	$232	$241	$165	$210	$223	$0	$0	$0	$0	$0	$0	$0	$7,890	$829	$853
3151	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3152	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	$133,768	$168,113	$204,354	$238,709	$266,236	$282,027	$282,963	$268,901	$242,649	$209,076	$173,093	$138,517	$107,931	$82,373	$61,868	$45,907	$0	$0	$0	$0
3153	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3154	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	$6,926	$7,478	$8,296	$10,462	$12,766	$14,964	$16,744	$17,796	$17,912	$17,082	$15,476	$13,375	$11,107	$8,923	$6,980	$5,347	$4,032	$3,009	$0	$0
3155	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	$95,386	$144,415	$161,926	$175,094	$194,590	$245,755	$300,215	$352,335	$394,639	$419,986	$423,452	$404,143	$366,401	$317,172	$263,779	$212,202	$166,224	$127,756	$97,583	$73,038
3156	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	$152,467	$192,115	$234,152	$274,255	$306,719	$325,813	$327,813	$312,410	$282,725	$244,319	$202,870	$162,833	$127,264	$97,427	$73,403	$54,638	$0	$0	$0	$0
3157	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	$18,272	$27,664	$31,019	$33,541	$37,276	$47,077	$57,510	$67,494	$75,598	$80,453	$81,117	$77,418	$70,188	$60,758	$50,530	$40,650	$31,842	$24,473	$18,693	$13,991
3158	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	$285,261	$272,354	$246,985	$213,877	$177,975	$143,254	$112,266	$86,162	$65,062	$48,553	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3159	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3160	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	$126,757	$159,290	$193,613	$226,145	$252,204	$267,141	$268,006	$254,666	$229,785	$197,974	$163,888	$131,139	$102,173	$77,972	$58,557	$43,446	$0	$0	$0	$0
3161	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3162	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	$6,270	$6,770	$7,510	$9,472	$11,557	$13,547	$15,159	$16,111	$16,216	$15,464	$14,010	$12,109	$10,055	$8,078	$6,319	$4,841	$3,650	$2,724	$0	$0
3163	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	$95,311	$144,302	$161,799	$174,957	$194,437	$245,560	$299,976	$352,054	$394,324	$419,649	$423,111	$403,817	$366,104	$316,914	$263,564	$212,028	$166,087	$127,650	$97,503	$72,978
3164	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	$152,359	$191,980	$233,986	$274,061	$306,500	$325,580	$327,578	$312,186	$282,521	$244,142	$202,723	$162,715	$127,171	$97,356	$73,349	$54,598	$0	$0	$0	$0
3165	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	$18,258	$27,643	$30,995	$33,515	$37,247	$47,040	$57,464	$67,440	$75,537	$80,389	$81,052	$77,356	$70,131	$60,708	$50,489	$40,616	$31,816	$24,453	$18,678	$13,980
3166	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	$284,721	$271,838	$246,517	$213,472	$177,638	$142,983	$112,053	$85,999	$64,938	$48,461	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3167	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3168	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	$247,372	$310,460	$376,864	$439,600	$489,589	$517,870	$518,815	$492,287	$443,542	$381,573	$315,400	$251,987	$196,021	$149,353	$111,983	$82,948	$0	$0	$0	$0
3169	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3170	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	$811	$876	$972	$1,226	$1,496	$1,753	$1,962	$2,085	$2,099	$2,001	$1,813	$1,567	$1,301	$1,045	$818	$626	$472	$353	$0	$0
3171	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3172	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	$230,668	$289,592	$351,652	$410,333	$457,155	$483,737	$484,797	$460,180	$414,773	$356,961	$295,172	$235,922	$183,599	$139,947	$104,975	$77,791	$0	$0	$0	$0
3173	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3174	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	$1,546	$1,669	$1,852	$2,335	$2,850	$3,340	$3,738	$3,972	$3,998	$3,813	$3,454	$2,986	$2,479	$1,992	$1,558	$1,194	$900	$672	$0	$0
3175	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3176	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	$205,594	$258,014	$313,183	$365,298	$406,815	$430,291	$431,051	$408,986	$368,468	$316,968	$261,982	$209,296	$162,801	$124,034	$92,993	$68,877	$0	$0	$0	$0
3177	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3178	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	$563	$608	$675	$851	$1,039	$1,218	$1,362	$1,448	$1,457	$1,390	$1,259	$1,088	$904	$726	$568	$435	$328	$245	$0	$0
3179	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3180	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	$230,668	$289,592	$351,652	$410,333	$457,155	$483,737	$484,797	$460,180	$414,773	$356,961	$295,172	$235,922	$183,599	$139,947	$104,975	$77,791	$0	$0	$0	$0
3181	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3182	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	$1,546	$1,669	$1,852	$2,335	$2,850	$3,340	$3,738	$3,972	$3,998	$3,813	$3,454	$2,986	$2,479	$1,992	$1,558	$1,194	$900	$672	$0	$0
3183	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3184	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	$48,113	$60,436	$73,427	$85,728	$95,564	$101,178	$101,459	$96,364	$86,908	$74,841	$61,925	$49,526	$38,567	$29,417	$22,081	$16,374	$0	$0	$0	$0
3185	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3186	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	$1,084	$1,171	$1,299	$1,638	$1,999	$2,343	$2,622	$2,786	$2,804	$2,674	$2,423	$2,094	$1,739	$1,397	$1,093	$837	$631	$471	$0	$0
3187	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	$44,168	$66,758	$74,724	$80,661	$89,486	$112,816	$137,573	$161,170	$180,198	$191,426	$192,655	$183,534	$166,089	$143,508	$119,128	$95,655	$74,789	$57,373	$43,740	$32,675
3188	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	$51,838	$65,239	$79,416	$92,901	$103,766	$110,085	$110,617	$105,281	$95,151	$82,115	$68,092	$54,579	$42,597	$32,565	$24,500	$18,211	$0	$0	$0	$0
3189	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	$3,684	$5,568	$6,233	$6,728	$7,464	$9,410	$11,475	$13,443	$15,030	$15,966	$16,069	$15,308	$13,853	$11,970	$9,936	$7,978	$6,238	$4,785	$3,648	$2,725
3190	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	$38,475	$32,020	$25,776	$20,209	$15,521	$11,731	$8,759	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3191	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3192	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	$44,907	$56,405	$68,524	$79,997	$89,169	$94,401	$94,656	$89,896	$81,068	$69,806	$57,754	$46,186	$35,963	$27,428	$20,586	$15,264	$0	$0	$0	$0
3193	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3194	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	$952	$1,028	$1,140	$1,438	$1,754	$2,056	$2,301	$2,446	$2,461	$2,347	$2,127	$1,838	$1,526	$1,226	$959	$735	$554	$413	$0	$0
3195	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	$44,168	$66,758	$74,724	$80,661	$89,486	$112,816	$137,573	$161,170	$180,198	$191,426	$192,655	$183,534	$166,089	$143,508	$119,128	$95,655	$74,789	$57,373	$43,740	$32,675
3196	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	$51,838	$65,239	$79,416	$92,901	$103,766	$110,085	$110,617	$105,281	$95,151	$82,115	$68,092	$54,579	$42,597	$32,565	$24,500	$18,211	$0	$0	$0	$0
3197	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	$3,684	$5,568	$6,233	$6,728	$7,464	$9,410	$11,475	$13,443	$15,030	$15,966	$16,069	$15,308	$13,853	$11,970	$9,936	$7,978	$6,238	$4,785	$3,648	$2,725
3198	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	$38,475	$32,020	$25,776	$20,209	$15,521	$11,731	$8,759	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3199	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3200	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3201	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3202	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3203	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3204	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3205	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3206	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3207	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3208	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3209	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3210	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3211	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3212	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3213	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3214	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3215	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3216	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3217	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	NLI	Retrofit	$1,165	$1,762	$1,973	$2,130	$2,363	$2,980	$3,635	$4,260	$4,764	$5,062	$6,046	$6,293	$6,006	$5,540	$5,088	$4,974	$4,960	$5,014	$5,070	$5,025
3218	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	LI	Retrofit	$3,786	$5,724	$6,408	$6,919	$7,678	$9,682	$11,809	$13,838	$15,475	$16,443	$19,641	$20,445	$19,512	$17,996	$16,528	$16,157	$16,114	$16,289	$16,471	$16,325
3219	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3220	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3221	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3222	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3223	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3224	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3225	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3226	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3227	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	$382,864	$580,770	$652,439	$706,855	$787,077	$995,954	########	########	########	########	########	########	########	########	########	$877,055	$688,389	$530,134	$405,739	$304,290
3228	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	$52,342	$79,149	$88,636	$95,725	$106,249	$134,016	$163,506	$191,647	$214,381	$227,854	$229,435	$218,686	$198,002	$171,171	$142,166	$114,215	$89,348	$68,578	$52,310	$39,099
3229	Building Shell	Floor Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3230	Building Shell	Floor Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3231	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	$38,809	$58,694	$65,739	$71,006	$78,825	$99,439	$121,339	$142,243	$159,141	$169,169	$170,368	$162,411	$147,073	$127,163	$105,632	$84,877	$66,408	$50,979	$38,892	$29,075
3232	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	$5,819	$8,779	$9,809	$10,570	$11,704	$14,728	$17,927	$20,962	$23,392	$24,801	$24,912	$23,685	$21,391	$18,446	$15,281	$12,245	$9,554	$7,314	$5,564	$4,148
3233	Building Shell	Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3234	Building Shell	Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4001	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	NLI	MO	$23,608	$27,802	$31,874	$35,658	$39,040	$41,961	$44,428	$46,485	$48,180	$49,604	$50,811	$45,183	$44,595	$44,046	$43,572	$43,202	$42,951	$42,891	$43,355	$43,550
4002	HVAC	ASHP-SEER15_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4003	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	N/A	NC	$232	$281	$388	$518	$596	$646	$669	$456	$578	$614	$0	$0	$0	$0	$0	$0	$0	$0	$21,015	$7,672	$7,175
4004	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4005	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4006	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4007	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4008	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4009	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4010	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4011	HVAC	ASHP-SEER15_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4012	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4013	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER1	$3,532	$4,365	$5,252	$6,148	$7,008	$7,792	$8,476	$9,051	$9,519	$9,895	$10,194	$10,421	$10,598	$10,630	$10,661	$10,689	$10,716	$10,760	$10,908	$10,964
4014	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4015	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$412	$514
4016	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER1	$39,537	$45,423	$50,907	$55,837	$60,141	$63,812	$66,905	$69,507	$71,688	$73,571	$74,478	$75,329	$76,181	$77,043	$77,900	$78,751	$79,600	$80,590	$82,379	$83,500
4017	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4018	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,385	$17,706
4019	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	NLI	MO	$24,514	$28,870	$33,098	$37,027	$40,539	$43,573	$46,135	$48,270	$50,030	$51,509	$52,762	$46,918	$46,307	$45,737	$45,245	$44,862	$44,600	$44,538	$45,020	$45,222
4020	HVAC	ASHP-SEER16_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4021	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	N/A	NC	$87	$106	$146	$195	$224	$243	$252	$171	$218	$231	$0	$0	$0	$0	$0	$0	$0	$7,908	$2,887	$2,700
4022	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER1	$57,651	$67,474	$76,876	$85,464	$92,979	$99,302	$104,467	$108,597	$111,826	$114,378	$116,389	$116,721	$117,034	$117,344	$117,629	$117,886	$118,123	$118,551	$120,124	$120,690
4023	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4024	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,064	$14,166
4025	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER1	$6,900	$9,506	$13,005	$17,633	$23,631	$31,198	$40,433	$51,269	$63,399	$76,346	$89,451	$101,960	$113,379	$123,375	$131,803	$138,708	$144,256	$148,929	$154,182	$157,476
4026	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4027	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,676	$2,319
4028	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	NLI	MO	$845	$995	$1,140	$1,276	$1,397	$1,501	$1,589	$1,663	$1,724	$1,774	$1,818	$1,616	$1,595	$1,576	$1,559	$1,545	$1,536	$1,534	$1,551	$1,558
4029	HVAC	ASHP-SEER16_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4030	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	N/A	NC	$7	$9	$12	$17	$19	$21	$21	$15	$19	$20	$0	$0	$0	$0	$0	$0	$0	$675	$246	$231
4031	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER1	$3,180	$3,930	$4,726	$5,532	$6,304	$7,007	$7,621	$8,136	$8,554	$8,890	$9,156	$9,357	$9,513	$9,540	$9,565	$9,588	$9,609	$9,645	$9,775	$9,823
4032	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4033	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$694	$860
4034	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER1	$36,097	$41,470	$46,476	$50,977	$54,907	$58,259	$61,083	$63,458	$65,449	$67,169	$67,996	$68,774	$69,552	$70,338	$71,121	$71,898	$72,672	$73,577	$75,210	$76,233
4035	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4036	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,831	$18,219
4037	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	NLI	MO	$33,788	$39,790	$45,618	$51,034	$55,874	$60,056	$63,587	$66,530	$68,956	$70,994	$72,722	$64,667	$63,825	$63,038	$62,361	$61,832	$61,472	$61,386	$62,050	$62,329
4038	HVAC	ASHP-SEER17_ROF_SF	PAYS	SF	LI	MO	$6,727	$9,247	$12,621	$17,072	$22,826	$30,063	$38,868	$49,164	$60,646	$72,848	$85,138	$96,796	$107,358	$116,519	$124,151	$130,307	$135,156	$139,155	$143,668	$146,332
4039	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	N/A	NC	$119	$144	$198	$265	$305	$331	$342	$233	$296	$314	$0	$0	$0	$0	$0	$0	$0	$0	$3,923	$3,668
4040	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER1	$63,570	$74,418	$84,805	$94,300	$102,614	$109,616	$115,344	$119,932	$123,526	$126,374	$128,627	$129,024	$129,403	$129,777	$130,125	$130,443	$130,738	$131,246	$133,022	$133,684
4041	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4042	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,795	$22,058
4043	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER1	$7,685	$10,591	$14,494	$19,658	$26,355	$34,805	$45,124	$57,237	$70,804	$85,293	$99,969	$113,990	$126,802	$138,032	$147,515	$155,299	$161,572	$166,868	$172,818	$176,578

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4044	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4045	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,542	$3,515
4046	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	NLI	MO	$1,050	$1,237	$1,418	$1,587	$1,737	$1,867	$1,977	$2,068	$2,144	$2,207	$2,261	$2,011	$1,984	$1,960	$1,939	$1,922	$1,911	$1,909	$1,929	$1,938
4047	HVAC	ASHP-SEER17_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4048	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	N/A	NC	$9	$11	$15	$20	$23	$25	$26	$18	$22	$24	$0	$0	$0	$0	$0	$0	$0	$813	$297	$278
4049	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4050	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4051	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4052	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER1	$15,126	$16,956	$18,596	$20,028	$21,255	$22,291	$23,162	$23,900	$24,525	$24,828	$25,133	$25,421	$25,708	$25,999	$26,289	$26,576	$26,862	$27,196	$27,800	$28,178
4053	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4054	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,829	$8,791
4055	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	NLI	MO	$34,150	$40,217	$46,107	$51,582	$56,473	$60,700	$64,268	$67,244	$69,695	$71,755	$73,501	$65,360	$64,509	$63,715	$63,030	$62,495	$62,131	$62,045	$62,715	$62,997
4056	HVAC	ASHP-SEER18_ROF_SF	PAYS	SF	LI	MO	$8,066	$11,092	$15,144	$20,495	$27,413	$36,120	$46,719	$59,120	$72,960	$87,678	$102,515	$116,606	$129,390	$140,497	$149,770	$157,271	$163,202	$168,114	$173,653	$176,961
4057	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	N/A	NC	$114	$138	$191	$255	$294	$319	$330	$225	$285	$303	$0	$0	$0	$0	$0	$0	$0	$10,364	$3,784	$3,539
4058	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER1	$78,223	$91,615	$104,454	$116,206	$126,515	$135,217	$142,355	$148,095	$152,613	$156,216	$159,087	$159,666	$160,222	$160,776	$161,299	$161,785	$162,245	$162,972	$165,276	$166,198
4059	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4060	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$30,336	$35,599
4061	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER1	$9,673	$13,340	$18,269	$24,797	$33,268	$43,969	$57,047	$72,416	$89,650	$108,079	$126,775	$144,668	$161,054	$175,458	$187,662	$197,724	$205,876	$212,798	$220,566	$225,550
4062	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4063	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,090	$5,655
4064	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	NLI	MO	$854	$1,006	$1,153	$1,290	$1,412	$1,518	$1,607	$1,681	$1,743	$1,794	$1,838	$1,634	$1,613	$1,593	$1,576	$1,563	$1,553	$1,551	$1,568	$1,575
4065	HVAC	ASHP-SEER18_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4066	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	N/A	NC	$6	$8	$11	$14	$17	$18	$19	$13	$16	$17	$0	$0	$0	$0	$0	$0	$0	$582	$213	$199
4067	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER1	$3,576	$4,419	$5,317	$6,224	$7,095	$7,889	$8,582	$9,165	$9,639	$10,020	$10,323	$10,553	$10,732	$10,766	$10,797	$10,826	$10,853	$10,898	$11,049	$11,106
4068	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4069	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,346	$1,666
4070	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER1	$26,971	$30,233	$33,158	$35,712	$37,900	$39,746	$41,300	$42,615	$43,730	$44,269	$44,815	$45,327	$45,840	$46,358	$46,874	$47,386	$47,897	$48,493	$49,569	$50,244
4071	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4072	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,974	$14,568
4073	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	NLI	MO	$33,257	$39,165	$44,902	$50,232	$54,996	$59,112	$62,587	$65,485	$67,872	$69,878	$71,579	$63,650	$62,822	$62,048	$61,381	$60,860	$60,506	$60,422	$61,075	$61,349
4074	HVAC	ASHP-SEER19_ROF_SF	PAYS	SF	LI	MO	$9,106	$12,525	$17,107	$23,157	$30,984	$40,837	$52,836	$66,882	$82,565	$99,252	$116,085	$132,084	$146,613	$159,252	$169,820	$178,386	$185,177	$190,817	$197,173	$201,001
4075	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	N/A	NC	$107	$130	$180	$240	$276	$299	$310	$211	$268	$284	$0	$0	$0	$0	$0	$0	$0	$9,736	$3,554	$3,324
4076	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER1	$92,904	$108,857	$124,167	$138,198	$150,526	$160,953	$169,528	$176,446	$181,915	$186,298	$189,814	$190,599	$191,358	$192,115	$192,837	$193,518	$194,169	$195,140	$198,003	$199,215
4077	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4078	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$44,912	$52,713
4079	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER1	$11,720	$16,173	$22,163	$30,102	$40,412	$53,445	$69,387	$88,138	$109,186	$131,718	$154,606	$176,546	$196,675	$214,409	$229,478	$241,947	$252,096	$260,750	$270,456	$276,759
4080	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4081	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,102	$8,439
4082	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	NLI	MO	$734	$865	$992	$1,109	$1,215	$1,305	$1,382	$1,446	$1,499	$1,543	$1,581	$1,406	$1,387	$1,370	$1,356	$1,344	$1,336	$1,334	$1,349	$1,355
4083	HVAC	ASHP-SEER19_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4084	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	N/A	NC	$5	$6	$8	$11	$13	$14	$14	$10	$12	$13	$0	$0	$0	$0	$0	$0	$0	$452	$165	$154
4085	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4086	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4087	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4088	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER1	$8,924	$9,613	$10,200	$10,698	$11,122	$11,481	$11,789	$11,938	$12,084	$12,233	$12,384	$12,526	$12,667	$12,810	$12,953	$13,095	$13,236	$13,400	$13,698	$13,884
4089	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4090	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,887	$5,273
4091	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	NLI	MO	$35,394	$41,682	$47,787	$53,461	$58,531	$62,911	$66,610	$69,693	$72,234	$74,369	$76,179	$67,741	$66,859	$66,036	$65,326	$64,772	$64,394	$64,305	$65,000	$65,292
4092	HVAC	ASHP-SEER20_ROF_SF	PAYS	SF	LI	MO	$9,446	$12,993	$17,748	$24,027	$32,151	$42,379	$54,837	$69,421	$85,707	$103,040	$120,528	$137,153	$152,255	$165,397	$176,392	$185,309	$192,384	$198,265	$204,892	$208,893
4093	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	N/A	NC	$115	$140	$193	$257	$296	$321	$332	$227	$287	$305	$0	$0	$0	$0	$0	$0	$0	$10,446	$3,814	$3,567
4094	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER1	$70,054	$82,026	$93,496	$103,987	$113,181	$120,933	$127,281	$132,376	$136,376	$139,554	$142,077	$142,552	$143,006	$143,457	$143,879	$144,268	$144,633	$145,234	$147,239	$148,013
4095	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4096	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$33,152	$38,874
4097	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER1	$8,557	$11,797	$16,149	$21,911	$29,385	$38,821	$50,348	$63,885	$79,057	$95,268	$111,702	$127,414	$141,786	$154,400	$165,069	$173,845	$180,934	$186,935	$193,675	$197,964
4098	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4099	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,324	$5,973
4100	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	NLI	MO	$790	$930	$1,066	$1,193	$1,306	$1,404	$1,486	$1,555	$1,612	$1,659	$1,700	$1,512	$1,492	$1,474	$1,458	$1,445	$1,437	$1,435	$1,450	$1,457
4101	HVAC	ASHP-SEER20_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4102	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	N/A	NC	$5	$7	$9	$12	$14	$15	$16	$11	$14	$14	$0	$0	$0	$0	$0	$0	$0	$495	$181	$169
4103	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4104	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4105	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4106	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER1	$9,322	$10,041	$10,654	$11,175	$11,617	$11,992	$12,314	$12,470	$12,622	$12,778	$12,935	$13,083	$13,231	$13,381	$13,530	$13,678	$13,825	$13,997	$14,308	$14,502
4107	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4108	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,216	$5,628
4109	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	NLI	MO	$55,584	$65,460	$75,047	$83,957	$91,919	$98,798	$104,607	$109,449	$113,440	$116,792	$119,635	$106,383	$104,998	$103,705	$102,590	$101,720	$101,127	$100,987	$102,079	$102,537
4110	HVAC	ASHP-SEER21_ROF_SF	PAYS	SF	LI	MO	$12,369	$17,027	$23,275	$31,532	$42,224	$55,698	$72,124	$91,376	$112,899	$135,835	$159,013	$181,090	$201,191	$218,733	$233,463	$245,468	$255,053	$263,070	$272,093	$277,644
4111	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	N/A	NC	$194	$235	$324	$433	$498	$540	$559	$381	$483	$512	$0	$0	$0	$0	$0	$0	$0	$17,550	$6,407	$5,992
4112	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER1	$91,116	$106,757	$121,766	$135,519	$147,599	$157,815	$166,214	$172,988	$178,340	$182,627	$186,063	$186,821	$187,555	$188,286	$188,983	$189,639	$190,265	$191,205	$193,998	$195,174
4113	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4114	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$45,209	$53,079
4115	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER1	$11,468	$15,825	$21,683	$29,449	$39,532	$52,277	$67,866	$86,199	$106,775	$128,800	$151,170	$172,609	$192,275	$209,595	$224,309	$236,479	$246,379	$254,818	$264,282	$270,419
4116	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4117	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,226	$8,614
4118	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	NLI	MO	$842	$991	$1,136	$1,271	$1,392	$1,496	$1,584	$1,657	$1,718	$1,768	$1,811	$1,611	$1,590	$1,570	$1,553	$1,540	$1,531	$1,529	$1,546	$1,552
4119	HVAC	ASHP-SEER21_ROF_MF	PAYS	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4120	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	N/A	NC	$6	$7	$10	$13	$15	$16	$17	$12	$15	$16	$0	$0	$0	$0	$0	$0	$0	$536	$196	$183

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4121	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4122	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4123	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4124	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER1	$9,691	$10,439	$11,077	$11,618	$12,077	$12,467	$12,802	$12,964	$13,123	$13,285	$13,448	$13,602	$13,756	$13,912	$14,066	$14,220	$14,373	$14,552	$14,875	$15,077
4125	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4126	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,525	$5,961
4127	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	NLI	MO	$29,197	$34,385	$39,421	$44,101	$48,283	$51,896	$54,948	$57,491	$59,588	$61,349	$62,842	$55,881	$55,153	$54,474	$53,888	$53,431	$53,120	$53,046	$53,620	$53,861
4128	HVAC	GSHP-EER23_ROF_SF	PAYS	SF	LI	MO	$15,583	$21,447	$29,312	$39,705	$53,159	$70,111	$90,775	$114,985	$142,046	$170,876	$200,000	$227,729	$252,963	$274,972	$293,439	$308,474	$320,461	$330,475	$341,749	$348,658
4129	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	N/A	NC	$70	$84	$117	$156	$179	$194	$201	$137	$174	$184	$0	$0	$0	$0	$0	$0	$0	$6,314	$2,305	$2,156
4130	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4131	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4132	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4133	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4134	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4135	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4136	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	NLI	MO	$259	$304	$349	$390	$427	$459	$486	$509	$528	$543	$556	$495	$488	$482	$477	$473	$470	$470	$475	$477
4137	HVAC	DFHP-SEER19-ROF_MF	MFIE	MF	LI	MO	$4,839	$5,271	$5,637	$5,940	$6,186	$6,384	$6,542	$6,668	$6,701	$6,735	$6,768	$6,796	$6,823	$6,849	$6,875	$6,899	$6,922	$6,956	$7,058	$7,101
4138	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	N/A	NC	$1	$2	$2	$3	$4	$4	$4	$3	$4	$4	$0	$0	$0	$0	$0	$0	$0	$130	$48	$45
4139	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	NLI	MO	$627	$738	$846	$947	$1,036	$1,114	$1,179	$1,234	$1,279	$1,317	$1,349	$1,199	$1,184	$1,169	$1,157	$1,147	$1,140	$1,139	$1,151	$1,156
4140	HVAC	DFHP-SEER20-ROF_MF	MFIE	MF	LI	MO	$11,419	$13,028	$14,499	$15,791	$16,888	$17,792	$18,521	$19,104	$19,562	$19,931	$20,030	$20,112	$20,191	$20,270	$20,345	$20,416	$20,484	$20,586	$20,887	$21,013
4141	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	N/A	NC	$4	$5	$7	$9	$11	$11	$12	$8	$10	$11	$0	$0	$0	$0	$0	$0	$0	$372	$136	$127
4142	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	NLI	MO	$1,260	$1,483	$1,701	$1,903	$2,083	$2,239	$2,370	$2,480	$2,571	$2,647	$2,711	$2,411	$2,379	$2,350	$2,325	$2,305	$2,292	$2,288	$2,313	$2,324
4143	HVAC	DFHP-SEER21-ROF_MF	MFIE	MF	LI	MO	$20,849	$23,786	$26,471	$28,831	$30,834	$32,484	$33,816	$34,879	$35,715	$36,389	$36,571	$36,720	$36,865	$37,009	$37,147	$37,276	$37,400	$37,585	$38,134	$38,366
4144	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	N/A	NC	$10	$12	$17	$22	$26	$28	$29	$20	$25	$26	$0	$0	$0	$0	$0	$0	$0	$900	$329	$307
4145	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	NLI	MO	$14,252	$16,784	$19,242	$21,527	$23,568	$25,332	$26,822	$28,063	$29,087	$29,946	$30,675	$27,277	$26,922	$26,590	$26,305	$26,082	$25,930	$25,894	$26,174	$26,291
4146	HVAC	Mini/MultiSplitASHP_ROF_SF	SFIE	SF	LI	MO	$13,566	$17,844	$23,041	$29,115	$35,896	$43,081	$50,292	$57,151	$63,333	$68,685	$73,137	$76,660	$79,405	$81,505	$83,075	$84,222	$84,209	$84,328	$85,256	$85,464
4147	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	N/A	NC	$45	$55	$76	$101	$116	$126	$130	$89	$113	$119	$0	$0	$0	$0	$0	$0	$0	$4,090	$1,493	$1,396
4148	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER1	$40,063	$46,952	$53,566	$59,631	$64,964	$69,479	$73,196	$76,199	$78,578	$80,489	$82,026	$82,383	$82,730	$83,077	$83,408	$83,722	$84,023	$84,464	$85,723	$86,269
4149	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4150	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$23,530	$27,609
4151	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER1	$15,176	$19,986	$25,837	$32,687	$40,349	$48,485	$56,672	$64,484	$71,553	$77,701	$82,849	$86,958	$90,197	$92,714	$94,634	$96,081	$96,207	$96,489	$97,699	$98,089
4152	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4153	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,143	$2,850
4154	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	NLI	MO	$452	$532	$610	$683	$748	$803	$851	$890	$923	$950	$973	$865	$854	$843	$834	$827	$822	$821	$830	$834
4155	HVAC	Mini/MultiSplitASHP_ROF_MF	PAYS	MF	LI	MO	$802	$1,103	$1,506	$2,039	$2,728	$3,595	$4,651	$5,887	$7,266	$8,734	$10,215	$11,622	$12,899	$14,010	$14,938	$15,690	$16,286	$16,781	$17,338	$17,673
4156	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	N/A	NC	$3	$4	$5	$7	$8	$9	$9	$6	$8	$8	$0	$0	$0	$0	$0	$0	$0	$278	$101	$95
4157	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER1	$1,255	$1,474	$1,684	$1,879	$2,050	$2,197	$2,319	$2,419	$2,499	$2,565	$2,619	$2,635	$2,652	$2,668	$2,684	$2,700	$2,715	$2,735	$2,782	$2,805
4158	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4159	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,098	$1,287
4160	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER1	$591	$811	$1,103	$1,482	$1,962	$2,549	$3,242	$4,021	$4,854	$5,703	$6,524	$7,274	$7,937	$8,504	$8,975	$9,361	$9,675	$9,948	$10,275	$10,381
4161	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4162	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$206	$284
4163	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	NLI	MO	$65	$76	$88	$98	$107	$115	$122	$128	$132	$136	$140	$124	$122	$121	$120	$119	$118	$118	$119	$120
4164	HVAC	PTHP-SEER12-ROF_MF	MFIE	MF	LI	MO	$936	$1,064	$1,179	$1,280	$1,364	$1,431	$1,484	$1,525	$1,555	$1,578	$1,579	$1,579	$1,579	$1,578	$1,577	$1,576	$1,574	$1,574	$1,590	$1,592
4165	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	N/A	NC	$0	$0	$1	$1	$1	$1	$1	$1	$1	$1	$0	$0	$0	$0	$0	$8	$7	$41	$11	$10
4166	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER1	$1,103	$1,302	$1,497	$1,680	$1,845	$1,989	$2,112	$2,216	$2,303	$2,378	$2,443	$2,473	$2,504	$2,535	$2,565	$2,596	$2,627	$2,662	$2,724	$2,763
4167	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4168	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$402	$471	$537	$597	$650
4169	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER1	$2,833	$3,222	$3,575	$3,881	$4,138	$4,346	$4,509	$4,636	$4,731	$4,804	$4,812	$4,814	$4,816	$4,818	$4,818	$4,818	$4,816	$4,821	$4,873	$4,884
4170	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4171	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$643	$731	$810	$879	$937
4172	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	NLI	MO	$150	$176	$202	$226	$247	$266	$281	$295	$305	$314	$322	$286	$283	$279	$276	$274	$272	$272	$275	$276
4173	HVAC	PTHP-SEER13-ROF_MF	MFIE	MF	LI	MO	$1,432	$1,628	$1,806	$1,960	$2,088	$2,192	$2,274	$2,336	$2,383	$2,419	$2,421	$2,422	$2,421	$2,421	$2,420	$2,418	$2,415	$2,417	$2,441	$2,445
4174	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	N/A	NC	$1	$1	$2	$2	$3	$3	$3	$2	$3	$3	$0	$0	$0	$0	$0	$22	$21	$118	$32	$29
4175	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER1	$1,173	$1,386	$1,593	$1,788	$1,964	$2,117	$2,249	$2,360	$2,454	$2,534	$2,604	$2,636	$2,669	$2,703	$2,736	$2,769	$2,802	$2,840	$2,906	$2,949
4176	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4177	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$454	$533	$608	$677	$738
4178	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER1	$2,949	$3,354	$3,722	$4,041	$4,309	$4,525	$4,696	$4,828	$4,927	$5,003	$5,011	$5,014	$5,017	$5,019	$5,019	$5,018	$5,017	$5,023	$5,077	$5,088
4179	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4180	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$675	$767	$851	$924	$985
4181	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	NLI	MO	$301	$354	$406	$454	$498	$535	$566	$592	$614	$632	$648	$576	$568	$561	$555	$551	$547	$547	$553	$555
4182	HVAC	PTHP-SEER14-ROF_MF	MFIE	MF	LI	MO	$2,050	$2,331	$2,585	$2,806	$2,991	$3,140	$3,258	$3,348	$3,416	$3,468	$3,472	$3,473	$3,474	$3,474	$3,473	$3,471	$3,469	$3,472	$3,508	$3,514
4183	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	N/A	NC	$2	$3	$4	$5	$6	$7	$7	$5	$6	$6	$0	$0	$0	$0	$0	$52	$48	$272	$74	$68
4184	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER1	$1,262	$1,491	$1,715	$1,925	$2,115	$2,280	$2,422	$2,543	$2,644	$2,731	$2,807	$2,843	$2,879	$2,915	$2,952	$2,988	$3,024	$3,066	$3,138	$3,185
4185	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4186	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$522	$613	$700	$781	$853
4187	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER1	$3,092	$3,517	$3,903	$4,238	$4,519	$4,746	$4,925	$5,063	$5,168	$5,248	$5,257	$5,260	$5,263	$5,265	$5,266	$5,266	$5,264	$5,271	$5,328	$5,340
4188	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4189	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$715	$813	$902	$979	$1,044
4190	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	NLI	MO	$488	$574	$658	$736	$806	$867	$918	$960	$995	$1,024	$1,049	$933	$921	$910	$900	$892	$887	$886	$895	$899
4191	HVAC	PTHP-SEER15-ROF_MF	MFIE	MF	LI	MO	$2,631	$2,993	$3,320	$3,604	$3,842	$4,035	$4,186	$4,303	$4,391	$4,459	$4,465	$4,467	$4,469	$4,470	$4,470	$4,468	$4,466	$4,471	$4,518	$4,527
4192	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	N/A	NC	$5	$5	$8	$10	$12	$13	$13	$9	$11	$12	$0	$0	$0	$0	$0	$95	$88	$501	$136	$125
4193	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER1	$1,347	$1,592	$1,831	$2,056	$2,259	$2,436	$2,588	$2,718	$2,826	$2,920	$3,001	$3,040	$3,079	$3,119	$3,159	$3,198	$3,237	$3,282	$3,360	$3,411
4194	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4195	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$588	$691	$791	$883	$965
4196	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER1	$3,225	$3,669	$4,071	$4,421	$4,714	$4,951	$5,138	$5,282	$5,392	$5,476	$5,485	$5,489	$5,492	$5,495	$5,496	$5,495	$5,494	$5,501	$5,561	$5,574
4197	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4198	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$752	$856	$950	$1,031	$1,100
4199	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$26,497	$36,635	$50,299	$68,449	$92,071	$122,000	$158,701	$201,983	$250,709	$303,041	$356,403	$407,786	$455,184	$497,215	$533,223	$563,321	$588,125	$609,536	$633,494	$649,559
4200	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$8,587	$11,894	$16,358	$22,300	$30,048	$39,885	$51,974	$66,263	$82,392	$99,763	$117,535	$134,713	$150,632	$164,826	$177,069	$187,386	$195,974	$203,458	$211,818	$217,561
4201	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,648	$1,994	$2,757	$3,676	$4,231	$4,586	$4,743	$3,231	$4,097	$4,347	$0	$0	$0	$0	$0	$0	$0	$148,522	$54,206	$50,679
4202	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$14,950	$20,682	$28,411	$38,683	$52,061	$69,021	$89,834	$114,395	$142,069	$171,818	$202,182	$231,457	$258,500	$282,523	$303,147	$320,432	$334,723	$347,096	$360,934	$370,287
4203	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4204	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$16,243	$22,489
4205	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$14,104	$19,422	$26,556	$35,990	$48,210	$63,614	$82,404	$104,436	$129,080	$155,359	$181,932	$207,265	$230,355	$250,532	$267,502	$281,362	$292,458	$301,765	$312,235	$318,728
4206	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4207	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,491	$9,003
4208	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$24,625	$34,004	$46,628	$63,372	$85,134	$112,664	$146,370	$186,049	$230,635	$278,418	$327,022	$373,685	$416,579	$454,455	$486,733	$513,538	$535,453	$554,223	$575,257	$589,076
4209	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$53,119	$72,085	$96,668	$127,740	$165,756	$210,436	$260,604	$314,179	$368,371	$420,598	$468,547	$510,339	$545,746	$575,027	$598,736	$617,713	$632,878	$646,201	$657,114	$662,592
4210	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,711	$2,068	$2,855	$3,803	$4,372	$4,732	$4,888	$3,325	$4,211	$4,462	$0	$0	$0	$0	$0	$0	$0	$150,892	$54,999	$51,354
4211	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$19,666	$27,229	$37,438	$51,019	$68,723	$91,191	$118,792	$151,403	$188,193	$227,797	$268,288	$307,401	$343,614	$375,871	$403,659	$427,042	$446,470	$463,372	$482,257	$495,176
4212	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4213	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$21,506	$29,801
4214	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$48,716	$65,930	$88,169	$116,184	$150,336	$190,316	$235,008	$282,495	$330,248	$375,950	$417,553	$453,419	$483,394	$507,758	$527,046	$542,042	$553,588	$563,434	$571,100	$573,987
4215	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4216	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$21,241	$28,897
4217	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$24,527	$33,917	$46,575	$63,392	$85,284	$113,027	$147,054	$187,192	$232,391	$280,950	$330,480	$378,193	$422,225	$461,294	$494,788	$522,808	$545,925	$565,899	$588,246	$603,270
4218	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$8,104	$11,227	$15,443	$21,056	$28,377	$37,674	$49,101	$62,612	$77,866	$94,299	$111,116	$127,379	$142,456	$155,906	$167,514	$177,305	$185,463	$192,578	$200,524	$205,995
4219	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,523	$1,843	$2,548	$3,399	$3,913	$4,242	$4,388	$2,989	$3,791	$4,024	$0	$0	$0	$0	$0	$0	$0	$137,663	$50,251	$46,990
4220	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$6,845	$9,470	$13,010	$17,716	$23,845	$31,616	$41,153	$52,409	$65,094	$78,731	$92,654	$106,079	$118,484	$129,506	$138,973	$146,911	$153,477	$159,165	$165,525	$169,830
4221	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4222	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,446	$10,310
4223	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$7,215	$9,936	$13,587	$18,414	$24,668	$32,553	$42,171	$53,449	$66,066	$79,522	$93,131	$106,106	$117,935	$128,275	$136,974	$144,082	$149,775	$154,553	$159,928	$163,266
4224	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4225	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,345	$4,640
4226	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$11,595	$16,017	$21,970	$29,869	$40,140	$53,137	$69,056	$87,805	$108,882	$131,483	$154,487	$176,589	$196,924	$214,900	$230,239	$242,999	$253,453	$262,425	$272,476	$279,114
4227	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$25,683	$34,864	$46,766	$61,816	$80,236	$101,893	$126,222	$152,215	$178,523	$203,894	$227,207	$247,547	$264,802	$279,095	$290,691	$299,998	$307,458	$314,029	$319,432	$322,197
4228	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,608	$1,944	$2,685	$3,577	$4,113	$4,454	$4,602	$3,132	$3,968	$4,206	$0	$0	$0	$0	$0	$0	$0	$142,584	$51,988	$48,558
4229	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$8,203	$11,355	$15,607	$21,261	$28,630	$37,979	$49,458	$63,016	$78,304	$94,753	$111,561	$127,785	$142,795	$156,152	$167,644	$177,300	$185,310	$192,266	$200,041	$205,338
4230	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4231	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,084	$12,586
4232	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$22,863	$30,942	$41,379	$54,527	$70,555	$89,318	$110,293	$132,580	$154,991	$176,440	$195,964	$212,797	$226,865	$238,299	$247,352	$254,389	$259,808	$264,429	$268,027	$269,382
4233	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4234	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,510	$6,200
4235	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$13,141	$18,187	$24,995	$34,048	$45,844	$60,807	$79,179	$100,874	$125,334	$151,648	$178,530	$204,473	$228,468	$249,814	$268,173	$283,593	$296,375	$307,471	$319,874	$328,311
4236	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$4,499	$6,237	$8,586	$11,716	$15,803	$20,997	$27,388	$34,952	$43,502	$52,725	$62,177	$71,334	$79,840	$87,447	$94,031	$99,604	$104,268	$108,351	$112,908	$116,077
4237	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,628	$1,973	$2,729	$3,643	$4,197	$4,554	$4,715	$3,214	$4,081	$4,334	$0	$0	$0	$0	$0	$0	$0	$149,263	$54,530	$51,033
4238	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$6,669	$9,230	$12,684	$17,278	$23,263	$30,854	$40,174	$51,178	$63,585	$76,931	$90,563	$103,718	$115,884	$126,704	$136,009	$143,822	$150,297	$155,916	$162,197	$166,467
4239	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4240	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,342	$10,171
4241	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$7,808	$10,755	$14,711	$19,942	$26,721	$35,271	$45,703	$57,940	$71,635	$86,247	$101,032	$115,137	$128,006	$139,264	$148,747	$156,507	$162,734	$167,971	$173,859	$177,536
4242	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4243	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,745	$5,197
4244	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$9,578	$13,221	$18,122	$24,620	$33,061	$43,735	$56,796	$72,164	$89,422	$107,905	$126,691	$144,710	$161,254	$175,844	$188,256	$198,542	$206,928	$214,094	$222,127	$227,368
4245	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$21,400	$29,032	$38,918	$51,410	$66,687	$84,633	$104,772	$126,266	$147,992	$168,912	$188,099	$204,801	$218,929	$230,589	$240,006	$247,519	$253,499	$258,736	$263,004	$265,094
4246	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,328	$1,605	$2,215	$2,949	$3,389	$3,667	$3,786	$2,574	$3,259	$3,452	$0	$0	$0	$0	$0	$0	$0	$116,353	$42,392	$39,566
4247	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$5,507	$7,610	$10,441	$14,199	$19,086	$25,273	$32,854	$41,786	$51,831	$62,608	$73,583	$84,135	$93,850	$102,446	$109,791	$115,909	$120,930	$125,247	$130,082	$133,290
4248	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4249	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,079	$8,409
4250	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$15,950	$21,586	$28,867	$38,039	$49,220	$62,310	$76,942	$92,489	$108,124	$123,086	$136,707	$148,450	$158,264	$166,241	$172,556	$177,465	$181,245	$184,469	$186,979	$187,924
4251	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4252	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,862	$13,389
4253	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$12,280	$16,993	$23,352	$31,806	$42,821	$56,791	$73,942	$94,191	$117,018	$141,571	$166,648	$190,844	$213,217	$233,113	$250,217	$264,576	$276,472	$286,791	$298,328	$306,164
4254	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$4,212	$5,839	$8,038	$10,967	$14,791	$19,650	$25,629	$32,704	$40,699	$49,323	$58,159	$66,717	$74,665	$81,771	$87,919	$93,120	$97,470	$101,277	$105,526	$108,478
4255	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,521	$1,842	$2,549	$3,402	$3,919	$4,251	$4,401	$3,000	$3,808	$4,044	$0	$0	$0	$0	$0	$0	$0	$139,163	$50,835	$47,570
4256	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$6,991	$9,681	$13,313	$18,145	$24,445	$32,441	$42,266	$53,876	$66,977	$81,083	$95,509	$109,448	$122,359	$133,864	$143,780	$152,130	$159,073	$165,118	$171,871	$176,499
4257	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4258	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,746	$10,737
4259	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$9,105	$12,547	$17,169	$23,287	$31,218	$41,225	$53,445	$67,788	$83,852	$101,006	$118,380	$134,976	$150,138	$163,427	$174,646	$183,853	$191,269	$197,528	$204,561	$209,000
4260	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4261	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,575	$6,352
4262	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$13,280	$18,375	$25,247	$34,383	$46,283	$61,373	$79,895	$101,759	$126,400	$152,898	$179,955	$206,051	$230,171	$251,611	$270,031	$285,484	$298,274	$309,360	$321,756	$330,158
4263	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$28,719	$39,045	$52,456	$69,446	$90,281	$114,831	$142,474	$172,088	$202,155	$231,257	$258,116	$281,680	$301,807	$318,619	$332,404	$343,613	$352,742	$360,880	$367,702	$371,505
4264	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,832	$2,219	$3,069	$4,096	$4,717	$5,117	$5,296	$3,610	$4,581	$4,864	$0	$0	$0	$0	$0	$0	$0	$167,184	$61,062	$57,131
4265	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$4,925	$6,801	$9,327	$12,678	$17,032	$22,542	$29,289	$37,232	$46,158	$55,727	$65,461	$74,808	$83,402	$90,994	$97,465	$102,842	$107,241	$111,010	$115,233	$118,012
4266	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4267	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,088	$7,029
4268	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$14,317	$19,376	$25,911	$34,145	$44,181	$55,930	$69,065	$83,020	$97,054	$110,485	$122,711	$133,252	$142,061	$149,221	$154,890	$159,297	$162,690	$165,583	$167,836	$168,685
4269	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4270	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$11,135	$15,088
4271	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$11,740	$16,248	$22,330	$30,417	$40,955	$54,321	$70,733	$90,113	$111,962	$135,467	$159,479	$182,652	$204,084	$223,149	$239,546	$253,317	$264,732	$274,640	$285,715	$293,248
4272	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$4,067	$5,639	$7,763	$10,593	$14,287	$18,983	$24,760	$31,598	$39,327	$47,665	$56,209	$64,486	$72,174	$79,050	$85,001	$90,039	$94,253	$97,943	$102,062	$104,925
4273	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,452	$1,760	$2,435	$3,250	$3,745	$4,063	$4,206	$2,868	$3,640	$3,866	$0	$0	$0	$0	$0	$0	$0	$133,144	$48,641	$45,521
4274	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$7,698	$10,671	$14,689	$20,042	$27,029	$35,908	$46,833	$59,760	$74,370	$90,128	$106,273	$121,910	$136,431	$149,414	$160,646	$170,149	$178,096	$185,050	$192,813	$198,204

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4275	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4276	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,883	$12,328
4277	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$12,045	$16,613	$22,753	$30,888	$41,445	$54,782	$71,085	$90,246	$111,736	$134,721	$158,045	$180,374	$200,829	$218,816	$234,065	$246,645	$256,847	$265,515	$275,242	$281,496
4278	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4279	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,801	$9,454
4280	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$8,102	$11,185	$15,332	$20,832	$27,978	$37,014	$48,073	$61,088	$75,704	$91,361	$107,278	$122,548	$136,573	$148,945	$159,475	$168,206	$175,330	$181,420	$188,247	$192,710
4281	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$18,237	$24,743	$33,172	$43,823	$56,851	$72,156	$89,334	$107,671	$126,209	$144,063	$160,443	$174,705	$186,774	$196,740	$204,794	$211,226	$216,350	$220,841	$224,506	$226,312
4282	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,120	$1,354	$1,869	$2,488	$2,859	$3,094	$3,195	$2,173	$2,751	$2,914	$0	$0	$0	$0	$0	$0	$0	$98,306	$35,821	$33,436
4283	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$4,672	$6,456	$8,858	$12,047	$16,195	$21,447	$27,883	$35,466	$43,995	$53,147	$62,468	$71,431	$79,686	$86,992	$93,235	$98,439	$102,712	$106,387	$110,502	$113,236
4284	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4285	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,166	$7,147
4286	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$16,208	$21,935	$29,334	$38,654	$50,016	$63,317	$78,186	$93,985	$109,872	$125,077	$138,918	$150,850	$160,823	$168,929	$175,346	$180,335	$184,176	$187,452	$190,002	$190,963
4287	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4288	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$10,865	$14,744
4289	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$11,612	$16,069	$22,082	$30,076	$40,492	$53,702	$69,918	$89,066	$110,649	$133,865	$157,576	$180,454	$201,606	$220,417	$236,588	$250,163	$261,408	$271,163	$282,069	$289,476
4290	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$4,006	$5,554	$7,645	$10,431	$14,067	$18,689	$24,375	$31,103	$38,707	$46,908	$55,311	$63,450	$71,008	$77,765	$83,611	$88,557	$92,693	$96,313	$100,353	$103,159
4291	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,437	$1,741	$2,408	$3,215	$3,703	$4,017	$4,159	$2,835	$3,599	$3,822	$0	$0	$0	$0	$0	$0	$0	$131,492	$48,033	$44,947
4292	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$5,887	$8,148	$11,199	$15,255	$20,541	$27,246	$35,480	$45,203	$56,165	$67,959	$80,009	$91,639	$102,396	$111,967	$120,199	$127,115	$132,849	$137,827	$143,391	$147,178
4293	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4294	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,575	$9,109
4295	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$7,978	$10,989	$15,031	$20,378	$27,308	$36,047	$46,712	$59,223	$73,226	$88,169	$103,290	$117,719	$130,886	$142,407	$152,115	$160,062	$166,443	$171,811	$177,847	$181,622
4296	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4297	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,912	$5,429
4298	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$9,199	$12,707	$17,430	$23,698	$31,847	$42,160	$54,792	$69,671	$86,398	$104,335	$122,593	$140,136	$156,278	$170,549	$182,728	$192,861	$201,164	$208,291	$216,275	$221,552
4299	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$20,480	$27,802	$37,294	$49,297	$63,988	$81,262	$100,667	$121,402	$142,388	$162,628	$181,228	$197,457	$211,227	$222,634	$231,892	$239,323	$245,281	$250,530	$254,849	$257,062
4300	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,271	$1,537	$2,122	$2,828	$3,252	$3,521	$3,639	$2,476	$3,137	$3,325	$0	$0	$0	$0	$0	$0	$0	$112,763	$41,116	$38,405
4301	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$4,716	$6,517	$8,943	$12,163	$16,352	$21,655	$28,153	$35,811	$44,425	$53,668	$63,083	$72,137	$80,476	$87,857	$94,166	$99,425	$103,744	$107,460	$111,620	$114,386
4302	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4303	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,220	$7,221
4304	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$16,317	$22,083	$29,532	$38,915	$50,354	$63,745	$78,715	$94,620	$110,615	$125,923	$139,857	$151,871	$161,911	$170,071	$176,532	$181,555	$185,422	$188,720	$191,287	$192,254
4305	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4306	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$11,217	$15,219
4307	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$13,872	$19,215	$26,430	$36,033	$48,557	$64,459	$84,004	$107,110	$133,192	$161,289	$190,036	$217,831	$243,593	$266,570	$286,394	$303,107	$317,026	$329,161	$342,714	$352,036
4308	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$4,924	$6,832	$9,414	$12,856	$17,354	$23,076	$30,123	$38,473	$47,921	$58,126	$68,600	$78,762	$88,221	$96,700	$104,059	$110,309	$115,560	$120,174	$125,320	$128,931
4309	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,714	$2,079	$2,879	$3,846	$4,435	$4,816	$4,990	$3,405	$4,326	$4,598	$0	$0	$0	$0	$0	$0	$0	$159,401	$58,281	$54,587
4310	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$7,345	$10,178	$14,006	$19,102	$25,752	$34,199	$44,586	$56,872	$70,749	$85,708	$101,024	$115,845	$129,597	$141,876	$152,486	$161,448	$168,927	$175,460	$182,755	$187,797
4311	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4312	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,459	$11,736
4313	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$10,872	$14,990	$20,524	$27,852	$37,359	$49,364	$64,033	$81,265	$100,582	$121,230	$142,168	$162,196	$180,526	$196,624	$210,251	$221,471	$230,547	$238,241	$246,878	$252,395
4314	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4315	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,971	$8,297
4316	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$8,217	$11,344	$15,552	$21,131	$28,381	$37,549	$48,770	$61,976	$76,809	$92,699	$108,854	$124,355	$138,594	$151,157	$161,852	$170,721	$177,961	$184,151	$191,091	$195,631
4317	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$18,481	$25,075	$33,619	$44,415	$57,621	$73,136	$90,552	$109,143	$127,940	$146,046	$162,658	$177,125	$189,370	$199,483	$207,659	$214,191	$219,397	$223,962	$227,689	$229,532
4318	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$1,136	$1,373	$1,895	$2,524	$2,900	$3,139	$3,242	$2,204	$2,791	$2,957	$0	$0	$0	$0	$0	$0	$0	$99,786	$36,362	$33,943
4319	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$4,757	$6,573	$9,020	$12,268	$16,494	$21,844	$28,400	$36,126	$44,816	$54,142	$63,642	$72,778	$81,194	$88,644	$95,012	$100,321	$104,682	$108,435	$112,636	$115,430
4320	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4321	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,268	$7,289
4322	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$16,416	$22,217	$29,711	$39,152	$50,661	$64,133	$79,193	$95,196	$111,287	$126,688	$140,707	$152,794	$162,895	$171,105	$177,605	$182,658	$186,549	$189,867	$192,450	$193,423
4323	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4324	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$10,911	$14,807
4325	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	NLI	MO	$1,109	$1,534	$2,107	$2,868	$3,859	$5,115	$6,656	$8,474	$10,522	$12,722	$14,967	$17,130	$19,127	$20,900	$22,420	$23,693	$24,744	$25,653	$26,669	$27,354
4326	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	MFIE	MF	LI	MO	$13,331	$18,109	$24,308	$32,153	$41,764	$53,075	$65,795	$79,402	$93,194	$106,516	$118,783	$129,513	$138,644	$146,237	$152,428	$157,427	$161,465	$165,041	$168,010	$169,595
4327	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	N/A	NC	$162	$196	$271	$361	$416	$451	$466	$318	$403	$428	$0	$0	$0	$0	$0	$0	$0	$14,646	$5,347	$5,001
4328	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER1	$1,616	$2,228	$3,051	$4,139	$5,552	$7,335	$9,513	$12,071	$14,939	$18,003	$21,109	$24,080	$26,797	$29,183	$31,201	$32,861	$34,203	$35,339	$36,615	$37,427
4329	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4330	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,953	$4,063
4331	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER1	$16,555	$22,404	$29,962	$39,482	$51,087	$64,673	$79,860	$95,997	$112,224	$127,755	$141,892	$154,080	$164,266	$172,545	$179,100	$184,196	$188,119	$191,465	$194,070	$195,051
4332	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4333	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$11,933	$16,183
4334	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	$8,243	$11,308	$15,370	$20,651	$27,340	$35,535	$45,187	$56,053	$67,673	$79,504	$90,947	$101,420	$110,665	$118,571	$125,152	$130,540	$134,920	$138,733	$143,301	$142,511
4335	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	$20,776	$27,389	$35,446	$44,893	$55,478	$66,739	$78,097	$88,964	$98,832	$107,452	$114,708	$120,544	$125,188	$128,842	$131,677	$133,862	$134,212	$134,781	$136,654	$137,384
4336	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	$1,095	$1,324	$1,828	$2,435	$2,800	$3,032	$3,132	$2,131	$2,700	$2,861	$0	$0	$0	$0	$0	$0	$0	$96,915	$35,332	$32,997
4337	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	$5,687	$7,813	$10,634	$14,307	$18,968	$24,687	$31,436	$39,048	$47,209	$55,540	$63,622	$71,047	$77,632	$83,294	$88,040	$91,959	$95,178	$98,005	$101,373	$102,564
4338	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4339	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,332	$8,708
4340	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	$14,921	$19,686	$25,499	$32,323	$39,979	$48,138	$56,381	$64,285	$71,481	$77,788	$83,120	$87,432	$90,888	$93,633	$95,787	$97,474	$97,828	$98,343	$99,812	$100,450
4341	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4342	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,698	$20,728
4343	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	$2,124	$2,938	$4,036	$5,495	$7,395	$9,805	$12,761	$16,249	$20,179	$24,404	$28,716	$32,873	$36,712	$40,123	$43,051	$45,504	$47,532	$49,288	$51,251	$52,578
4344	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	LI	MO	$5,021	$6,946	$9,542	$12,992	$17,484	$23,179	$30,168	$38,415	$47,706	$57,694	$67,888	$77,716	$86,793	$94,856	$101,778	$107,578	$112,373	$116,523	$121,165	$124,301
4345	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	$393	$476	$658	$878	$1,011	$1,096	$1,134	$773	$981	$1,041	$0	$0	$0	$0	$0	$0	$0	$35,722	$13,044	$12,202
4346	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	$1,218	$1,688	$2,324	$3,171	$4,277	$5,683	$7,413	$9,460	$11,775	$14,271	$16,829	$19,308	$21,610	$23,669	$25,452	$26,960	$28,222	$29,328	$30,561	$31,419
4347	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4348	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,399	$1,942
4349	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER1	$4,438	$6,111	$8,338	$11,246	$14,946	$19,500	$24,890	$30,993	$37,560	$44,294	$50,862	$56,934	$62,359	$67,066	$71,056	$74,394	$77,180	$79,659	$82,590	$83,755
4350	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4351	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,496	$6,208

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4352	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	$1,763	$2,438	$3,348	$4,558	$6,132	$8,128	$10,577	$13,466	$16,720	$20,216	$23,783	$27,220	$30,394	$33,211	$35,627	$37,649	$39,320	$40,764	$42,379	$43,467
4353	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$4,109	$5,569	$7,460	$9,846	$12,761	$16,182	$20,016	$24,101	$28,224	$32,186	$35,811	$38,956	$41,606	$43,783	$45,530	$46,912	$48,002	$48,948	$49,710	$50,058
4354	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	$223	$270	$373	$498	$573	$621	$643	$438	$555	$589	$0	$0	$0	$0	$0	$4,708	$4,322	$24,711	$6,685	$6,183
4355	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	$590	$820	$1,133	$1,551	$2,098	$2,796	$3,659	$4,684	$5,847	$7,108	$8,408	$9,674	$10,860	$11,930	$12,865	$13,667	$14,348	$14,952	$15,624	$16,108
4356	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4357	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$607	$845	$1,169	$1,602	$2,171
4358	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$2,074	$2,803	$3,742	$4,924	$6,361	$8,040	$9,912	$11,895	$13,882	$15,777	$17,493	$18,962	$20,180	$21,160	$21,924	$22,506	$22,943	$23,306	$23,578	$23,652
4359	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4360	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$626	$850	$1,139	$1,506	$1,954
4361	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	$1,807	$2,500	$3,433	$4,673	$6,288	$8,334	$10,845	$13,807	$17,143	$20,728	$24,385	$27,909	$31,163	$34,051	$36,529	$38,602	$40,315	$41,795	$43,452	$44,568
4362	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$4,237	$5,744	$7,695	$10,157	$13,166	$16,697	$20,654	$24,873	$29,130	$33,222	$36,967	$40,218	$42,959	$45,211	$47,019	$48,452	$49,582	$50,565	$51,357	$51,722
4363	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	$228	$277	$382	$510	$587	$637	$659	$449	$569	$604	$0	$0	$0	$0	$0	$4,827	$4,431	$25,336	$6,854	$6,339
4364	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	$612	$851	$1,175	$1,609	$2,177	$2,901	$3,796	$4,860	$6,068	$7,377	$8,726	$10,042	$11,274	$12,385	$13,357	$14,190	$14,898	$15,526	$16,226	$16,729
4365	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4366	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$832	$1,154	$1,590	$2,172	$2,932
4367	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$2,121	$2,867	$3,828	$5,037	$6,507	$8,225	$10,140	$12,170	$14,204	$16,143	$17,899	$19,404	$20,651	$21,654	$22,436	$23,033	$23,481	$23,854	$24,133	$24,209
4368	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4369	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$644	$874	$1,172	$1,549	$2,011
4370	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	$1,862	$2,575	$3,537	$4,814	$6,478	$8,586	$11,172	$14,224	$17,661	$21,354	$25,122	$28,753	$32,105	$35,080	$37,632	$39,769	$41,533	$43,059	$44,765	$45,914
4371	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$4,397	$5,961	$7,986	$10,543	$13,667	$17,334	$21,445	$25,828	$30,252	$34,506	$38,400	$41,782	$44,635	$46,980	$48,866	$50,361	$51,542	$52,570	$53,400	$53,786
4372	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	$235	$285	$394	$526	$605	$656	$679	$462	$587	$623	$0	$0	$0	$0	$0	$4,973	$4,565	$26,102	$7,062	$6,531
4373	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	$639	$889	$1,228	$1,681	$2,275	$3,032	$3,968	$5,081	$6,344	$7,713	$9,125	$10,501	$11,790	$12,953	$13,971	$14,844	$15,586	$16,244	$16,978	$17,505
4374	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4375	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$664	$925	$1,280	$1,755	$2,378
4376	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$2,180	$2,946	$3,934	$5,176	$6,687	$8,453	$10,422	$12,508	$14,599	$16,593	$18,399	$19,946	$21,229	$22,261	$23,066	$23,681	$24,142	$24,528	$24,816	$24,895
4377	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4378	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$666	$905	$1,213	$1,604	$2,081
4379	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	$1,912	$2,645	$3,633	$4,945	$6,654	$8,819	$11,476	$14,610	$18,140	$21,934	$25,804	$29,533	$32,976	$36,033	$38,654	$40,849	$42,661	$44,228	$45,980	$47,161
4380	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	$4,546	$6,164	$8,258	$10,903	$14,136	$17,931	$22,185	$26,722	$31,303	$35,709	$39,743	$43,248	$46,206	$48,639	$50,596	$52,151	$53,380	$54,451	$55,317	$55,723
4381	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	$242	$293	$405	$540	$622	$674	$697	$475	$603	$640	$0	$0	$0	$0	$0	$5,108	$4,689	$26,811	$7,253	$6,708
4382	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	$665	$925	$1,278	$1,749	$2,367	$3,156	$4,131	$5,289	$6,604	$8,031	$9,501	$10,935	$12,278	$13,491	$14,552	$15,462	$16,236	$16,923	$17,688	$18,239
4383	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4384	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$695	$968	$1,338	$1,835	$2,487
4385	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	$2,234	$3,019	$4,032	$5,305	$6,854	$8,664	$10,683	$12,822	$14,966	$17,011	$18,863	$20,450	$21,766	$22,825	$23,652	$24,284	$24,758	$25,154	$25,451	$25,533
4386	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4387	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$687	$933	$1,252	$1,654	$2,147
4388	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	NLI	MO	$33,844	$39,857	$45,695	$51,120	$55,968	$60,156	$63,693	$66,642	$69,072	$71,113	$72,844	$64,775	$63,932	$63,144	$62,465	$61,936	$61,575	$61,489	$62,154	$62,433
4389	HVAC	CAC-SEER15_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4390	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	N/A	NC	$73	$88	$122	$162	$187	$203	$210	$143	$181	$192	$0	$0	$0	$0	$0	$0	$0	$6,584	$2,404	$2,248
4391	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4392	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4393	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4394	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER1	$391,571	$515,199	$665,430	$841,101	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4395	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4396	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$109,257	$143,688
4397	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4398	HVAC	CAC-SEER15_ROF_MF	MFIE	MF	LI	MO	$2,484	$2,675	$2,839	$2,978	$3,095	$3,195	$3,281	$3,323	$3,363	$3,405	$3,447	$3,486	$3,526	$3,565	$3,605	$3,645	$3,684	$3,730	$3,812	$3,864
4399	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4400	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4401	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4402	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4403	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER1	$125,750	$143,271	$159,225	$173,177	$184,950	$194,569	$202,256	$208,312	$212,990	$216,684	$217,436	$217,989	$218,508	$219,019	$219,482	$219,892	$220,262	$220,989	$223,846	$224,826
4404	HVAC	CAC-SEER15_ER1_MF	PAYS	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4405	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,335	$4,989
4406	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	NLI	MO	$46,144	$54,342	$62,301	$69,697	$76,307	$82,018	$86,840	$90,860	$94,173	$96,956	$99,316	$88,315	$87,165	$86,092	$85,166	$84,444	$83,952	$83,835	$84,742	$85,122
4407	HVAC	CAC-SEER16_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4408	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	N/A	NC	$99	$120	$166	$221	$254	$276	$285	$194	$247	$262	$0	$0	$0	$0	$0	$0	$0	$8,961	$3,271	$3,060
4409	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4410	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4411	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4412	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER1	$406,718	$535,152	$691,232	$873,756	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4413	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4414	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$114,919	$151,177
4415	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	NLI	MO	$10,187	$11,997	$13,754	$15,386	$16,846	$18,106	$19,171	$20,058	$20,790	$21,404	$21,925	$19,496	$19,243	$19,006	$18,801	$18,642	$18,533	$18,508	$18,708	$18,792
4416	HVAC	CAC-SEER16_ROF_MF	MFIE	MF	LI	MO	$7,880	$8,488	$9,006	$9,446	$9,820	$10,137	$10,409	$10,541	$10,670	$10,802	$10,935	$11,060	$11,185	$11,311	$11,437	$11,562	$11,687	$11,832	$12,095	$12,259
4417	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	N/A	NC	$26	$31	$43	$57	$66	$72	$74	$50	$64	$68	$0	$0	$0	$0	$0	$0	$0	$2,326	$849	$794
4418	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4419	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4420	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4421	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER1	$135,974	$154,919	$172,170	$187,256	$199,986	$210,388	$218,700	$225,248	$230,306	$234,301	$235,113	$235,712	$236,273	$236,825	$237,325	$237,769	$238,169	$238,955	$242,045	$243,104
4422	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4423	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,592	$7,586
4424	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	NLI	MO	$75,156	$88,508	$101,471	$113,518	$124,283	$133,584	$141,438	$147,986	$153,382	$157,915	$161,758	$163,302	$164,841	$166,394	$167,934	$169,453	$170,962	$172,771	$176,282	$178,353
4425	HVAC	CAC-SEER17_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4426	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	N/A	NC	$163	$197	$272	$363	$418	$453	$469	$320	$405	$430	$0	$0	$0	$0	$0	$0	$0	$14,740	$5,381	$5,033
4427	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4428	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4429	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4430	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER1	$446,288	$587,286	$758,660	$959,103	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4431	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4432	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$128,586	$169,237
4433	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4434	HVAC	CAC-SEER17_ROF_MF	MFIE	MF	LI	MO	$9,409	$10,134	$10,753	$11,279	$11,725	$12,104	$12,428	$12,586	$12,740	$12,897	$13,056	$13,205	$13,354	$13,506	$13,656	$13,805	$13,954	$14,127	$14,441	$14,637
4435	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4436	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4437	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4438	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4439	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER1	$138,386	$157,667	$175,224	$190,578	$203,534	$214,120	$222,580	$229,244	$234,392	$238,458	$239,284	$239,894	$240,465	$241,026	$241,536	$241,988	$242,394	$243,195	$246,339	$247,417
4440	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4441	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,285	$9,535
4442	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	NLI	MO	$105,128	$123,805	$141,938	$158,789	$173,848	$186,859	$197,845	$207,003	$214,552	$220,893	$226,268	$228,427	$230,580	$232,754	$234,907	$237,032	$239,143	$241,673	$246,585	$249,482
4443	HVAC	CAC-SEER18_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4444	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	N/A	NC	$233	$282	$390	$520	$598	$649	$671	$457	$580	$616	$0	$0	$0	$0	$0	$0	$0	$21,088	$7,699	$7,200
4445	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4446	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4447	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4448	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER1	$473,776	$623,507	$805,515	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4449	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4450	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$138,707	$182,625
4451	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4452	HVAC	CAC-SEER18_ROF_MF	MFIE	MF	LI	MO	$7,014	$7,555	$8,016	$8,408	$8,740	$9,023	$9,265	$9,382	$9,497	$9,614	$9,732	$9,844	$9,955	$10,068	$10,180	$10,291	$10,402	$10,531	$10,765	$10,911
4453	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4454	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4455	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4456	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4457	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER1	$152,109	$173,302	$192,600	$209,477	$223,717	$235,353	$244,651	$251,977	$257,635	$262,104	$263,013	$263,682	$264,310	$264,927	$265,488	$265,984	$266,431	$267,311	$270,767	$271,952
4458	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4459	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$10,094	$11,616
4460	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	NLI	MO	$259,264	$305,324	$350,043	$391,601	$428,739	$460,825	$487,919	$510,505	$529,120	$544,758	$558,014	$563,340	$568,649	$574,009	$579,319	$584,562	$589,767	$596,007	$608,119	$615,264
4461	HVAC	CAC-SEER19_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4462	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	N/A	NC	$629	$761	$1,052	$1,404	$1,616	$1,752	$1,813	$1,235	$1,567	$1,663	$0	$0	$0	$0	$0	$0	$0	$56,966	$20,797	$19,450
4463	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER1	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4464	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4465	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$655,851	$767,521
4466	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER1	$672,024	$884,877	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4467	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4468	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$200,961	$264,823
4469	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4470	HVAC	CAC-SEER19_ROF_MF	MFIE	MF	LI	MO	$9,329	$10,049	$10,662	$11,184	$11,626	$12,001	$12,323	$12,480	$12,632	$12,788	$12,945	$13,094	$13,242	$13,391	$13,540	$13,688	$13,836	$14,008	$14,319	$14,514
4471	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4472	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4473	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4474	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4475	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER1	$100,272	$114,243	$126,964	$138,089	$147,477	$155,147	$161,277	$166,106	$169,836	$172,782	$173,381	$173,822	$174,236	$174,643	$175,012	$175,340	$175,634	$176,214	$178,493	$179,274
4476	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4477	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,313	$10,718
4478	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	NLI	MO	$206,872	$243,625	$279,307	$312,467	$342,101	$367,702	$389,321	$407,343	$422,197	$434,675	$445,252	$449,502	$453,738	$458,015	$462,252	$466,435	$470,588	$475,567	$485,232	$490,933
4479	HVAC	CAC-SEER20_ROF_SF	PAYS	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4480	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	N/A	NC	$484	$586	$810	$1,080	$1,244	$1,348	$1,395	$950	$1,206	$1,280	$0	$0	$0	$0	$0	$0	$0	$43,829	$16,001	$14,965
4481	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4482	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4483	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4484	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER1	$537,273	$707,196	$913,796	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4485	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4486	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$162,263	$213,791
4487	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4488	HVAC	CAC-SEER20_ROF_MF	MFIE	MF	LI	MO	$10,702	$11,528	$12,232	$12,830	$13,337	$13,768	$14,137	$14,316	$14,491	$14,670	$14,851	$15,021	$15,191	$15,362	$15,533	$15,703	$15,872	$16,070	$16,426	$16,650
4489	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4490	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4491	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4492	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4493	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER1	$102,645	$116,947	$129,969	$141,358	$150,967	$158,819	$165,094	$170,037	$173,855	$176,871	$177,484	$177,936	$178,360	$178,776	$179,154	$179,489	$179,791	$180,385	$182,717	$183,516
4494	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4495	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$10,427	$12,000
4496	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	NLI	MO	$203,851	$240,067	$275,228	$307,904	$337,104	$362,332	$383,635	$401,394	$416,031	$428,326	$438,750	$442,937	$447,111	$451,326	$455,501	$459,623	$463,716	$468,622	$478,145	$483,763
4497	HVAC	CAC-SEER21_ROF_SF	PAYS	SF	LI	MO	$159,411	$218,944	$298,592	$403,590	$539,174	$709,531	$916,581	########	########	########	########	########	########	########	########	########	########	########	########	########
4498	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	N/A	NC	$466	$564	$780	$1,040	$1,198	$1,299	$1,344	$916	$1,161	$1,233	$0	$0	$0	$0	$0	$0	$0	$42,220	$15,414	$14,415
4499	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4500	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4501	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4502	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER1	$515,870	$678,983	$877,290	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4503	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4504	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$158,016	$208,236
4505	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	NLI	MO	$16,660	$19,620	$22,493	$25,164	$27,550	$29,612	$31,353	$32,805	$34,001	$35,006	$35,857	$36,200	$36,541	$36,885	$37,227	$37,563	$37,898	$38,299	$39,077	$39,536

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4506	HVAC	CAC-SEER21_ROF_MF	MFIE	MF	LI	MO	$12,872	$13,864	$14,711	$15,430	$16,041	$16,559	$17,003	$17,218	$17,429	$17,644	$17,861	$18,066	$18,270	$18,477	$18,682	$18,886	$19,090	$19,327	$19,756	$20,025
4507	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	N/A	NC	$42	$51	$70	$94	$108	$117	$121	$83	$105	$111	$0	$0	$0	$0	$0	$0	$0	$3,809	$1,391	$1,301
4508	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4509	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4510	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4511	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER1	$107,727	$122,737	$136,404	$148,356	$158,442	$166,683	$173,268	$178,456	$182,463	$185,628	$186,272	$186,746	$187,191	$187,628	$188,025	$188,376	$188,693	$189,316	$191,763	$192,603
4512	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4513	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$11,435	$13,160
4514	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4515	HVAC	Mini/MultiSplitAC_ROF_SF	SFIE	SF	LI	MO	$120,063	$157,795	$203,579	$257,028	$316,613	$379,643	$442,787	$502,708	$556,566	$603,015	$641,470	$671,701	$695,045	$712,697	$725,653	$734,892	$733,968	$734,196	$741,436	$742,388
4516	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4517	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4518	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4519	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4520	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER1	$225,262	$296,316	$382,634	$483,536	$596,184	$715,547	$835,366	$949,344	########	########	########	########	########	########	########	########	########	########	########	########
4521	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4522	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,412	$24,317
4523	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	NLI	MO	$16,763	$19,741	$22,632	$25,319	$27,720	$29,795	$31,547	$33,007	$34,211	$35,222	$36,079	$36,423	$36,766	$37,113	$37,456	$37,795	$38,132	$38,535	$39,318	$39,780
4524	HVAC	Mini/MultiSplitAC_ROF_MF	MFIE	MF	LI	MO	$12,718	$13,699	$14,535	$15,246	$15,849	$16,361	$16,800	$17,013	$17,221	$17,433	$17,648	$17,849	$18,051	$18,256	$18,459	$18,660	$18,861	$19,096	$19,520	$19,786
4525	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	N/A	NC	$43	$52	$72	$97	$111	$121	$125	$85	$108	$115	$0	$0	$0	$0	$0	$0	$0	$3,923	$1,432	$1,340
4526	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER1	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4527	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4528	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4529	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER1	$90,490	$100,646	$109,518	$117,027	$123,214	$128,190	$132,137	$135,249	$137,668	$138,236	$138,799	$139,237	$139,655	$140,069	$140,454	$140,807	$141,136	$141,695	$143,623	$144,349
4530	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4531	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,211	$9,220
4532	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4533	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4534	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4535	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4536	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	MO	$49,916	$68,789	$94,133	$127,673	$171,160	$226,036	$293,041	$371,694	$459,788	$553,860	$649,148	$740,172	$823,338	$896,235	$957,783	########	########	########	########	########
4537	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	NC	$949	$1,145	$1,578	$2,097	$2,406	$2,599	$2,679	$1,818	$2,298	$2,430	$0	$0	$0	$0	$0	$18,971	$17,348	$98,816	$26,631	$24,534
4538	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	MO	$11,627	$16,000	$21,864	$29,612	$39,641	$52,274	$67,670	$85,705	$105,859	$127,324	$149,001	$169,632	$188,399	$204,757	$218,472	$229,628	$238,511	$245,923	$254,268	$259,364
4539	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	NC	$200	$241	$331	$439	$503	$543	$559	$379	$478	$505	$0	$0	$0	$0	$0	$3,903	$3,564	$20,266	$5,453	$5,015
4540	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	NLI	MO	$10,711	$12,964	$15,264	$17,501	$19,580	$21,432	$23,031	$24,380	$25,497	$26,430	$27,211	$27,849	$28,111	$28,376	$28,639	$28,898	$29,155	$29,464	$30,063	$30,416
4541	HVAC	AC - Energy Star Room _unknown size_SF	SFIE	SF	LI	MO	$246,155	$328,880	$432,832	$559,376	$707,436	$872,709	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4542	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	N/A	NC	$22	$27	$37	$49	$56	$61	$63	$43	$55	$58	$0	$0	$373	$358	$388	$403	$362	$2,296	$460	$352
4543	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	NLI	MO	$1,232	$1,532	$1,854	$2,183	$2,503	$2,800	$3,064	$3,292	$3,483	$3,643	$3,776	$3,884	$3,975	$4,012	$4,050	$4,086	$4,123	$4,166	$4,251	$4,301
4544	HVAC	AC - Energy Star Room _unknown size_SF	MFIE	MF	LI	MO	$22,359	$28,539	$35,535	$43,086	$50,835	$58,388	$65,419	$71,712	$77,156	$81,802	$85,720	$88,943	$91,651	$93,964	$95,010	$96,047	$97,082	$98,290	$100,472	$101,839
4545	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	N/A	NC	$3	$4	$6	$8	$9	$10	$10	$7	$9	$9	$0	$0	$58	$56	$60	$63	$56	$358	$72	$55
4546	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	MO	$5,212	$7,174	$9,806	$13,283	$17,786	$23,460	$30,377	$38,483	$47,543	$57,198	$66,953	$76,242	$84,699	$92,077	$98,270	$103,314	$107,340	$110,705	$114,493	$116,819
4547	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	NC	$91	$109	$150	$200	$229	$247	$254	$172	$217	$230	$0	$0	$0	$0	$0	$1,779	$1,625	$9,241	$2,487	$2,288
4548	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	MO	$820	$1,129	$1,543	$2,091	$2,800	$3,693	$4,781	$6,057	$7,483	$9,003	$10,539	$12,001	$13,332	$14,493	$15,468	$16,262	$16,896	$17,425	$18,021	$18,388
4549	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	NC	$14	$17	$23	$31	$36	$38	$39	$27	$34	$36	$0	$0	$0	$0	$0	$276	$252	$1,436	$386	$356
4550	HVAC	HP tune-up / Packaged Service SF	N/A	SF	NLI	Retrofit	$5,877	$7,477	$15,246	$18,573	$27,973	$32,291	$42,177	$46,122	$55,193	$57,761	$65,449	$66,469	$72,924	$72,734	$78,375	$77,385	$80,773	$79,764	$83,269	$82,240
4551	HVAC	HP tune-up / Packaged Service SF	SFIE	SF	LI	Retrofit	$8,391	$12,770	$22,988	$28,727	$41,032	$51,627	$69,304	$85,070	$107,252	$125,959	$149,253	$166,872	$187,463	$201,122	$217,397	$226,682	$239,144	$245,109	$255,102	$258,940
4552	HVAC	HP tune-up / Packaged Service SF	N/A	SF	N/A	NC	$206	$251	$741	$938	$1,906	$2,271	$3,920	$4,208	$6,780	$6,941	$9,727	$9,435	$12,565	$11,638	$14,895	$13,350	$16,642	$34,871	$20,064	$39,332
4553	HVAC	HP tune-up / Packaged Service MF	N/A	MF	NLI	Retrofit	$262	$293	$640	$756	$1,194	$1,381	$1,872	$2,073	$2,550	$2,701	$3,117	$3,190	$3,537	$3,540	$3,835	$3,790	$4,054	$3,891	$4,164	$3,997
4554	HVAC	HP tune-up / Packaged Service MF	MFIE	MF	LI	Retrofit	$554	$601	$1,237	$1,466	$2,310	$2,731	$3,749	$4,277	$5,338	$5,818	$6,778	$7,099	$7,896	$8,043	$8,697	$8,711	$9,270	$9,197	$9,506	$9,433
4555	HVAC	HP tune-up / Packaged Service MF	N/A	MF	N/A	NC	$23	$27	$81	$102	$207	$246	$424	$454	$730	$745	$1,043	$1,009	$1,341	$1,240	$1,584	$1,417	$1,763	$3,686	$2,117	$4,142
4556	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	$6,404	$8,164	$16,677	$20,355	$30,713	$35,519	$46,477	$50,914	$61,035	$63,986	$72,627	$73,885	$81,197	$81,120	$87,556	$86,590	$90,527	$89,539	$93,619	$92,606
4557	HVAC	HP tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	$6,717	$10,212	$18,363	$22,924	$32,709	$41,113	$55,132	$67,605	$85,145	$99,894	$118,247	$132,073	$148,221	$158,861	$171,545	$178,695	$188,334	$192,842	$200,509	$203,329
4558	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	$224	$274	$811	$1,028	$2,092	$2,498	$4,320	$4,645	$7,498	$7,689	$10,794	$10,488	$13,990	$12,980	$16,640	$14,938	$18,651	$39,144	$22,558	$44,290
4559	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	$271	$303	$665	$787	$1,246	$1,445	$1,963	$2,179	$2,687	$2,852	$3,298	$3,382	$3,758	$3,770	$4,093	$4,053	$4,345	$4,178	$4,480	$4,309
4560	HVAC	HP tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	$415	$448	$916	$1,080	$1,691	$1,988	$2,713	$3,077	$3,818	$4,137	$4,791	$4,988	$5,515	$5,585	$6,003	$5,977	$6,323	$6,236	$6,408	$6,321
4561	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	$23	$28	$84	$106	$216	$257	$444	$477	$769	$787	$1,103	$1,070	$1,425	$1,320	$1,690	$1,515	$1,889	$3,958	$2,278	$4,466
4562	HVAC	AC Tune-up / Packaged service SF	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4563	HVAC	AC Tune-up / Packaged service SF	SFIE	SF	LI	Retrofit	$22,802	$34,469	$61,635	$76,506	$108,544	$135,652	$180,869	$220,515	$276,134	$322,101	$379,079	$420,954	$469,686	$500,485	$537,308	$556,449	$583,050	$593,531	$613,534	$618,535
4564	HVAC	AC Tune-up / Packaged service SF	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4565	HVAC	AC Tune-up / Packaged service MF	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4566	HVAC	AC Tune-up / Packaged service MF	MFIE	MF	LI	Retrofit	$1,096	$1,183	$2,418	$2,847	$4,458	$5,238	$7,145	$8,098	$10,042	$10,875	$12,587	$13,098	$14,474	$14,648	$15,736	$15,658	$16,554	$16,318	$16,755	$16,518
4567	HVAC	AC Tune-up / Packaged service MF	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4568	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	$55,405	$70,450	$143,563	$174,799	$263,114	$303,565	$396,283	$433,108	$518,007	$541,812	$613,596	$622,828	$682,954	$680,818	$733,247	$723,613	$754,917	$745,112	$777,463	$767,479
4569	HVAC	AC Tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	$54,236	$82,187	$147,322	$183,317	$260,730	$326,661	$436,644	$533,701	$670,012	$783,546	$924,524	########	########	########	########	########	########	########	########	########
4570	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	$1,881	$2,288	$6,765	$8,553	$17,370	$20,689	$35,694	$38,294	$61,668	$63,091	$88,376	$85,675	$114,033	$105,568	$135,041	$120,973	$150,725	$315,673	$181,537	$355,701
4571	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4572	HVAC	AC Tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	$3,067	$3,311	$6,773	$7,980	$12,500	$14,695	$20,056	$22,744	$28,221	$30,577	$35,412	$36,871	$40,766	$41,282	$44,373	$44,180	$46,736	$46,095	$47,360	$46,719
4573	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4574	HVAC	Dirty Filter Alarm_SF	HVAC	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4575	HVAC	Dirty Filter Alarm_SF	SFIE	SF	LI	Retrofit	$1,878	$2,853	$3,210	$3,482	$3,883	$6,900	$9,039	$10,489	$11,658	$12,625	$15,913	$17,812	$18,603	$18,858	$18,807	$21,244	$22,323	$22,380	$22,037	$21,484
4576	HVAC	Dirty Filter Alarm_MF	HVAC	MF	NLI	Retrofit	$763	$1,158	$1,301	$1,410	$1,570	$2,786	$3,646	$4,225	$4,690	$5,073	$6,385	$7,139	$7,446	$7,539	$7,509	$8,471	$8,890	$8,901	$8,754	$8,523
4577	HVAC	Dirty Filter Alarm_MF	MFIE	MF	LI	Retrofit	$21,706	$18,247	$14,837	$11,750	$9,115	$30,411	$24,969	$16,041	$12,708	$9,861	$32,911	$27,031	$17,371	$13,765	$10,685	$35,671	$29,307	$18,839	$14,933	$11,595
4578	HVAC	ECM Fan	HVAC	SF	NLI	Retrofit	$12,532	$19,014	$21,364	$23,150	$25,782	$32,630	$53,190	$67,086	$75,338	$80,750	$84,139	$88,939	$105,793	$114,029	$115,698	$114,575	$112,039	$112,004	$125,915	$131,421
4579	HVAC	ECM Fan	SFIE	SF	LI	Retrofit	$33,036	$49,786	$55,563	$59,799	$66,141	$83,131	$134,566	$168,531	$187,922	$199,985	$206,881	$217,101	$256,361	$274,292	$276,251	$271,535	$263,538	$261,473	$291,719	$302,155
4580	HVAC	ECM Fan	HVAC	MF	NLI	Retrofit	$2,416	$3,666	$4,119	$4,463	$4,971	$6,291	$10,255	$12,935	$14,526	$15,569	$16,222	$17,148	$20,397	$21,985	$22,307	$22,091	$21,602	$21,595	$24,277	$25,339
4581	HVAC	ECM Fan	MFIE	MF	LI	Retrofit	$157,319	$136,249	$113,364	$91,265	$71,556	$54,944	$204,090	$171,860	$117,261	$94,448	$74,088	$56,915	$211,518	$178,203	$121,650	$98,032	$76,939	$59,136	$219,882	$185,347
4582	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4583	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4584	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	Retrofit	$62,891	$95,017	$106,311	$114,709	$127,206	$160,302	$195,395	$228,810	$255,711	$271,524	$273,146	$260,098	$235,268	$203,188	$168,591	$203,382	$208,707	$196,416	$186,378	$184,464
4585	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	NC	$272	$328	$451	$599	$687	$741	$764	$518	$654	$691	$0	$0	$0	$0	$0	$5,376	$4,912	$27,963	$7,531	$6,933
4586	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	Retrofit	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
4587	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	NC	$4,706	$5,671	$7,805	$10,363	$11,875	$12,813	$13,194	$8,946	$11,293	$11,928	$0	$0	$0	$0	$0	$92,473	$84,460	$480,521	$129,343	$119,013
4588	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	Retrofit	$328,785	$497,663	$557,867	$603,082	$670,063	$846,030	########	########	########	########	########	########	########	########	$905,948	########	########	########	########	########
4589	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	NC	$1,420	$1,716	$2,366	$3,149	$3,617	$3,912	$4,038	$2,745	$3,474	$3,678	$0	$0	$0	$0	$0	$28,947	$26,507	$151,202	$40,806	$37,646
4590	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4591	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4592	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4593	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4594	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4595	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4596	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4597	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4598	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4599	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4600	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4601	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4602	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	MO	$7,391	$10,190	$13,951	$18,932	$25,392	$33,549	$43,516	$55,223	$68,345	$82,370	$96,589	$110,189	$122,633	$133,559	$142,805	$150,415	$156,569	$161,782	$167,635	$171,368
4603	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	NC	$143	$173	$238	$317	$364	$393	$405	$275	$348	$368	$0	$0	$0	$0	$0	$2,885	$2,639	$15,041	$4,056	$3,738
4604	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	MO	$989	$1,365	$1,872	$2,545	$3,419	$4,525	$5,879	$7,472	$9,263	$11,183	$13,136	$15,011	$16,734	$18,256	$19,554	$20,631	$21,513	$22,268	$23,114	$23,670
4605	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	NC	$28	$34	$46	$62	$71	$77	$79	$54	$68	$73	$0	$0	$0	$0	$0	$574	$526	$3,002	$811	$749
4606	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4607	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4608	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4609	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4610	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	LI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4611	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4612	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	$244,109	$272,048	$344,544	$422,224	$497,222	$558,967	$596,851	$603,670	$578,204	$526,205	$457,237	$654,215	$612,157	$627,771	$659,555	$699,070	$733,551	$671,239	$679,635	$651,660
4613	HVAC	Learning Thermostat - electric furnace heating / central AC SF	SFIE	SF	LI	Retrofit	$109,595	$128,926	$144,782	$154,484	$156,177	$149,555	$136,029	$118,111	$98,500	$79,485	$62,464	$169,031	$178,848	$187,381	$171,095	$173,155	$165,992	$151,142	$131,374	$109,680
4614	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	N/A	NC	$1,754	$2,125	$2,940	$3,925	$4,521	$4,905	$5,078	$3,462	$4,395	$4,667	$0	$26,883	$26,377	$29,118	$30,727	$27,898	$23,927	$180,452	$27,747	$28,700
4615	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	$68,820	$104,310	$117,088	$126,751	$141,023	$178,303	$218,062	$256,211	$287,301	$306,104	$308,984	$370,760	$382,566	$361,005	$332,909	$311,158	$318,853	$334,819	$355,143	$371,844
4616	HVAC	Learning Thermostat - electric furnace heating / central AC MF	MFIE	MF	LI	Retrofit	$85,527	$86,296	$82,476	$74,895	$64,940	$54,096	$43,587	$34,195	$26,266	$19,862	$14,841	$92,333	$93,255	$89,215	$81,095	$70,386	$58,692	$47,339	$37,176	$28,585
4617	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	N/A	NC	$637	$771	$1,064	$1,418	$1,631	$1,767	$1,826	$1,243	$1,575	$1,670	$0	$9,589	$9,393	$10,352	$10,906	$9,885	$8,464	$63,731	$9,783	$10,103
4618	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	NLI	Retrofit	$181,215	$200,660	$252,488	$307,399	$359,628	$401,619	$425,992	$427,981	$407,171	$368,049	$317,635	$451,366	$419,445	$427,171	$445,682	$469,086	$488,771	$444,102	$446,474	$425,054
4619	HVAC	Learning Thermostat - Gas Heated / central AC SF**	SFIE	SF	LI	Retrofit	$62,085	$72,607	$81,053	$85,967	$86,385	$82,219	$74,325	$64,136	$53,154	$42,624	$33,285	$89,497	$94,088	$97,940	$88,846	$89,328	$85,069	$76,945	$66,435	$55,092
4620	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	N/A	NC	$1,087	$1,308	$1,798	$2,385	$2,729	$2,941	$3,025	$2,049	$2,583	$2,725	$0	$15,480	$15,084	$16,536	$17,329	$15,624	$13,306	$99,644	$15,213	$15,624
4621	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	NLI	Retrofit	$14,399	$21,716	$24,254	$26,123	$28,916	$36,372	$44,251	$51,721	$57,691	$61,140	$61,385	$73,260	$75,183	$70,557	$64,707	$60,144	$61,287	$63,995	$67,495	$70,267
4622	HVAC	Learning Thermostat - Gas Heated / central AC MF**	MFIE	MF	LI	Retrofit	$24,619	$24,736	$23,540	$21,285	$18,376	$15,240	$12,226	$9,548	$7,301	$5,496	$4,088	$25,313	$25,446	$24,228	$21,918	$18,932	$15,709	$12,608	$9,853	$7,538
4623	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	N/A	NC	$138	$166	$228	$303	$347	$374	$384	$260	$328	$346	$0	$1,964	$1,913	$2,097	$2,197	$1,980	$1,686	$12,624	$1,927	$1,979
4624	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	$89,427	$99,460	$125,706	$153,732	$180,667	$202,684	$215,975	$217,991	$208,364	$189,233	$164,090	$234,293	$218,776	$223,890	$234,737	$248,284	$259,990	$237,411	$239,882	$229,531
4625	HVAC	Learning Thermostat - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	$29,958	$35,173	$39,422	$41,980	$42,356	$40,480	$36,745	$31,841	$26,501	$21,342	$16,737	$45,201	$47,728	$49,903	$45,472	$45,926	$43,935	$39,922	$34,629	$28,851
4626	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	N/A	NC	$562	$680	$939	$1,250	$1,437	$1,556	$1,608	$1,094	$1,386	$1,469	$0	$8,424	$8,248	$9,086	$9,569	$8,670	$7,420	$55,846	$8,569	$8,845
4627	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	$9,117	$13,794	$15,456	$16,701	$18,548	$23,409	$28,577	$33,515	$37,513	$39,894	$40,195	$48,142	$49,582	$46,700	$42,985	$40,101	$41,014	$42,987	$45,509	$47,559
4628	HVAC	Learning Thermostat - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	$17,212	$17,341	$16,548	$15,004	$12,990	$10,804	$8,692	$6,808	$5,221	$3,942	$2,941	$18,266	$18,419	$17,592	$15,964	$13,833	$11,516	$9,273	$7,270	$5,580
4629	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	N/A	NC	$105	$127	$175	$232	$267	$288	$298	$202	$256	$271	$0	$1,548	$1,514	$1,665	$1,751	$1,584	$1,354	$10,176	$1,559	$1,607
4630	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	$119,394	$133,322	$169,184	$207,736	$245,117	$276,097	$295,387	$299,346	$287,277	$261,950	$362,675	$341,086	$345,248	$356,253	$371,003	$383,787	$388,175	$339,697	$326,296	$297,795
4631	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	SFIE	SF	LI	Retrofit	$39,592	$46,533	$52,209	$55,656	$56,215	$53,782	$48,873	$42,396	$35,324	$28,479	$65,260	$67,650	$69,672	$70,190	$61,145	$58,555	$53,261	$46,247	$38,570	$31,126
4632	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	N/A	NC	$858	$1,041	$1,444	$1,931	$2,229	$2,423	$2,513	$1,717	$2,183	$2,323	$11,703	$11,790	$13,324	$14,345	$13,243	$11,512	$9,613	$86,577	$14,175	$13,856
4633	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	$22,809	$34,598	$38,866	$42,106	$46,884	$59,324	$72,610	$85,379	$95,815	$102,167	$128,213	$136,658	$132,341	$124,051	$116,390	$117,578	$121,055	$125,804	$130,018	$131,105
4634	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	MFIE	MF	LI	Retrofit	$23,538	$23,706	$22,614	$20,496	$17,738	$14,747	$11,859	$9,286	$7,119	$5,372	$28,746	$24,934	$23,803	$21,590	$18,699	$15,558	$12,521	$9,812	$7,528	$5,686
4635	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	N/A	NC	$211	$256	$353	$471	$542	$588	$608	$414	$525	$557	$2,800	$2,813	$3,170	$3,404	$3,134	$2,716	$2,262	$20,318	$3,318	$3,234
4636	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	NLI	Retrofit	$456,568	$509,159	$645,263	$791,263	$932,424	########	########	########	########	$990,009	########	########	########	########	########	########	########	########	########	########
4637	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	SFIE	SF	LI	Retrofit	$113,738	$133,516	$149,618	$159,302	$160,701	$153,556	$139,365	$120,744	$100,476	$80,902	$185,154	$191,690	$197,167	$198,376	$172,589	$165,064	$149,946	$130,030	$108,304	$87,285
4638	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	N/A	NC	$2,738	$3,319	$4,596	$6,138	$7,076	$7,682	$7,959	$5,429	$6,896	$7,329	$36,867	$37,094	$41,867	$45,019	$41,507	$36,036	$30,054	$270,341	$44,208	$43,158
4639	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	NLI	Retrofit	$17,047	$25,824	$28,973	$31,348	$34,859	$44,051	$53,846	$63,232	$70,868	$75,466	$94,580	$100,677	$97,367	$91,147	$85,405	$86,161	$88,592	$91,944	$94,898	$95,563
4640	HVAC	Setback thermostat - full setback - gas heating / central AC MF	MFIE	MF	LI	Retrofit	$23,074	$23,217	$22,128	$20,037	$17,325	$14,390	$11,562	$9,044	$6,927	$5,222	$27,916	$24,190	$23,070	$20,904	$18,086	$15,033	$12,086	$9,461	$7,251	$5,470
4641	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	N/A	NC	$164	$198	$273	$364	$418	$452	$467	$318	$403	$427	$2,141	$2,148	$2,417	$2,592	$2,383	$2,063	$1,716	$15,389	$2,509	$2,443
4642	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	$64,785	$72,297	$91,686	$112,509	$132,672	$149,347	$159,683	$161,724	$155,109	$141,348	$195,580	$183,826	$185,957	$191,770	$199,591	$206,346	$208,582	$182,426	$175,127	$159,738
4643	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	$16,084	$18,892	$21,184	$22,569	$22,782	$21,783	$19,782	$17,150	$14,281	$11,506	$26,350	$27,299	$28,097	$28,288	$24,627	$23,569	$21,425	$18,592	$15,496	$12,497
4644	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	N/A	NC	$407	$494	$685	$915	$1,056	$1,147	$1,189	$812	$1,032	$1,097	$5,522	$5,560	$6,279	$6,757	$6,234	$5,416	$4,520	$40,682	$6,657	$6,503
4645	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	$4,242	$6,430	$7,218	$7,815	$8,697	$10,997	$13,452	$15,807	$17,728	$18,891	$23,692	$25,237	$24,424	$22,879	$21,453	$21,658	$22,284	$23,143	$23,903	$24,088
4646	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	$6,446	$6,489	$6,187	$5,605	$4,849	$4,030	$3,239	$2,535	$1,942	$1,465	$7,836	$6,793	$6,482	$5,877	$5,087	$4,230	$3,403	$2,665	$2,044	$1,543
4647	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	N/A	NC	$49	$59	$82	$109	$125	$136	$140	$95	$121	$128	$643	$646	$728	$781	$718	$622	$518	$4,648	$759	$739
5001	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	NLI	Retrofit	$2,464	$3,749	$4,224	$4,590	$5,127	$6,507	$7,989	$9,422	$13,321	$15,478	$16,156	$16,095	$15,712	$15,936	$16,146	$16,342	$19,415	$20,760	$20,691	$19,952
5002	Lighting	LED - 10W (750-899 lumens) IEDI	SFIE	SF	LI	Retrofit	$3,804	$5,780	$6,504	$7,058	$7,871	$9,976	$12,231	$14,406	$20,339	$23,599	$24,599	$24,472	$23,857	$24,165	$24,450	$24,713	$29,321	$31,311	$31,165	$30,013
5003	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	N/A	NC	$281	$342	$474	$634	$732	$796	$826	$564	$3,411	$3,628	$3,407	$3,842	$3,691	$3,317	$2,844	$1,617	$8,240	$34,271	$8,993	$9,126
5004	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	NLI	Retrofit	$74	$112	$126	$137	$153	$194	$239	$282	$398	$463	$483	$481	$470	$476	$483	$488	$580	$620	$618	$596
5005	Lighting	LED - 10W (750-899 lumens) IEDI	MFIE	MF	LI	Retrofit	$802	$869	$967	$1,224	$1,499	$1,763	$1,980	$2,113	$2,997	$2,978	$2,900	$2,932	$2,961	$2,989	$2,992	$2,940	$3,741	$3,599	$3,146	$3,183
5006	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	N/A	NC	$17	$21	$29	$38	$44	$48	$50	$34	$205	$218	$205	$231	$222	$200	$171	$97	$496	$2,062	$541	$549
5007	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	NLI	Retrofit	$6,227	$9,514	$10,763	$11,743	$13,167	$16,778	$20,678	$24,483	$34,746	$40,524	$42,459	$42,454	$41,595	$42,343	$43,057	$43,734	$52,142	$55,949	$55,955	$54,142
5008	Lighting	LED - 15W (900-1399 lumens) IEDI	SFIE	SF	LI	Retrofit	$4,344	$6,594	$7,414	$8,038	$8,956	$11,342	$13,892	$16,348	$23,060	$26,732	$27,841	$27,672	$26,952	$27,276	$27,574	$27,846	$33,010	$35,218	$35,024	$33,699
5009	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	N/A	NC	$711	$867	$1,207	$1,622	$1,880	$2,052	$2,137	$1,466	$8,896	$9,498	$8,954	$10,134	$9,772	$8,813	$7,584	$4,327	$22,130	$92,362	$24,320	$24,765
5010	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	NLI	Retrofit	$186	$284	$322	$351	$394	$501	$618	$732	$1,039	$1,211	$1,269	$1,269	$1,243	$1,266	$1,287	$1,307	$1,558	$1,672	$1,672	$1,618
5011	Lighting	LED - 15W (900-1399 lumens) IEDI	MFIE	MF	LI	Retrofit	$958	$1,038	$1,155	$1,461	$1,788	$2,102	$2,360	$2,516	$3,567	$3,543	$3,448	$3,484	$3,517	$3,548	$3,550	$3,487	$4,434	$4,264	$3,725	$3,767
5012	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	N/A	NC	$43	$52	$73	$98	$113	$123	$129	$88	$535	$572	$539	$610	$588	$530	$456	$260	$1,332	$5,558	$1,464	$1,490

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5013	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	NLI	Retrofit	$10,672	$16,317	$18,476	$20,174	$22,640	$28,871	$35,610	$42,196	$59,931	$69,950	$73,345	$73,391	$71,961	$73,307	$74,596	$75,822	$90,462	$97,133	$97,211	$94,123
5014	Lighting	LED - 20W (1400-1999 lumens) IEDI	SFIE	SF	LI	Retrofit	$6,798	$10,334	$11,635	$12,632	$14,097	$17,877	$21,929	$25,843	$36,506	$42,381	$44,202	$43,997	$42,914	$43,492	$44,030	$44,527	$52,858	$56,474	$56,242	$54,190
5015	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	N/A	NC	$1,219	$1,487	$2,072	$2,786	$3,232	$3,531	$3,680	$2,526	$15,345	$16,395	$15,467	$17,519	$16,906	$15,257	$13,139	$7,502	$38,395	$160,350	$42,250	$43,052
5016	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	NLI	Retrofit	$319	$488	$552	$603	$677	$863	$1,064	$1,261	$1,791	$2,091	$2,192	$2,194	$2,151	$2,191	$2,230	$2,266	$2,704	$2,903	$2,906	$2,813
5017	Lighting	LED - 20W (1400-1999 lumens) IEDI	MFIE	MF	LI	Retrofit	$1,288	$1,394	$1,552	$1,963	$2,403	$2,825	$3,171	$3,381	$4,794	$4,762	$4,634	$4,683	$4,728	$4,768	$4,771	$4,686	$5,959	$5,730	$5,006	$5,063
5018	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	N/A	NC	$73	$90	$125	$168	$194	$212	$221	$152	$923	$987	$931	$1,054	$1,017	$918	$791	$451	$2,311	$9,650	$2,543	$2,591
5019	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	NLI	Retrofit	$2,141	$3,264	$3,684	$4,011	$4,487	$5,705	$7,016	$8,289	$11,739	$13,662	$14,284	$14,253	$13,937	$14,159	$14,369	$14,566	$17,333	$18,563	$18,530	$17,896
5020	Lighting	LED - 6W (400-749 lumens) IEDI	SFIE	SF	LI	Retrofit	$2,146	$3,254	$3,655	$3,958	$4,406	$5,574	$6,821	$8,018	$11,299	$13,084	$13,613	$13,517	$13,152	$13,296	$13,428	$13,546	$16,042	$17,098	$16,986	$16,327
5021	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	N/A	NC	$245	$298	$413	$554	$641	$698	$725	$496	$3,006	$3,202	$3,012	$3,402	$3,274	$2,947	$2,531	$1,441	$7,357	$30,644	$8,053	$8,186
5022	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	NLI	Retrofit	$64	$98	$110	$120	$134	$171	$210	$248	$351	$408	$427	$426	$417	$423	$429	$435	$518	$555	$554	$535
5023	Lighting	LED - 6W (400-749 lumens) IEDI	MFIE	MF	LI	Retrofit	$519	$563	$626	$792	$969	$1,140	$1,280	$1,364	$1,934	$1,921	$1,870	$1,889	$1,907	$1,924	$1,925	$1,891	$2,404	$2,312	$2,020	$2,043
5024	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	N/A	NC	$163	$199	$277	$373	$433	$473	$493	$339	$2,060	$2,202	$2,079	$2,357	$2,276	$2,055	$1,771	$1,012	$5,182	$21,658	$5,710	$5,822
5025	Lighting	LED A19 800 Lumens 6W	PAYS	SF	NLI	Retrofit	$293	$444	$498	$538	$598	$755	$921	$1,081	$1,210	$1,288	$1,298	$1,238	$1,122	$971	$807	$649	$508	$391	$298	$223
5026	Lighting	LED A19 800 Lumens 6W	SFIE	SF	LI	Retrofit	$400	$602	$672	$723	$799	$1,005	$1,221	$1,426	$1,589	$1,682	$1,687	$1,601	$1,444	$1,243	$1,028	$823	$641	$490	$372	$277
5027	Lighting	LED A19 800 Lumens 6W	PAYS	SF	N/A	NC	$34	$40	$56	$74	$85	$92	$95	$65	$82	$87	$0	$0	$0	$0	$0	$0	$0	$2,911	$304	$311
5028	Lighting	LED A19 800 Lumens 6W	PAYS	MF	NLI	Retrofit	$9	$13	$15	$16	$18	$23	$28	$32	$36	$38	$39	$37	$34	$29	$24	$19	$15	$12	$9	$7
5029	Lighting	LED A19 800 Lumens 6W	MFIE	MF	LI	Retrofit	$25	$27	$30	$39	$47	$55	$62	$66	$67	$64	$58	$51	$42	$34	$27	$20	$15	$12	$0	$0
5030	Lighting	LED A19 800 Lumens 6W	PAYS	MF	N/A	NC	$2	$2	$3	$4	$5	$6	$6	$4	$5	$5	$0	$0	$0	$0	$0	$0	$0	$175	$18	$19
5031	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	NLI	Retrofit	$1,270	$1,943	$2,200	$2,402	$2,696	$3,439	$4,242	$5,027	$7,140	$8,335	$8,740	$8,747	$8,577	$8,738	$8,893	$9,040	$10,786	$11,582	$11,592	$11,225
5032	Lighting	LED - 10.5W Downlight E26 IE DI	SFIE	SF	LI	Retrofit	$1,265	$1,929	$2,178	$2,371	$2,652	$3,373	$4,148	$4,901	$6,941	$8,079	$8,447	$8,430	$8,243	$8,375	$8,500	$8,617	$10,254	$10,982	$10,964	$10,589
5033	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	N/A	NC	$145	$177	$247	$332	$385	$421	$438	$301	$1,828	$1,954	$1,843	$2,088	$2,015	$1,819	$1,566	$894	$4,578	$19,120	$5,038	$5,134
5034	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	NLI	Retrofit	$38	$58	$66	$72	$80	$103	$126	$150	$213	$248	$261	$261	$256	$261	$265	$270	$322	$345	$346	$335
5035	Lighting	LED - 10.5W Downlight E26 IE DI	MFIE	MF	LI	Retrofit	$404	$437	$487	$616	$754	$886	$995	$1,061	$1,504	$1,494	$1,454	$1,469	$1,483	$1,496	$1,497	$1,470	$1,870	$1,798	$1,571	$1,588
5036	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	N/A	NC	$12	$15	$21	$28	$32	$35	$37	$25	$153	$164	$154	$175	$169	$152	$131	$75	$383	$1,600	$422	$430
5037	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	$1,136	$1,737	$1,967	$2,147	$2,410	$3,073	$3,790	$4,491	$6,378	$7,444	$7,805	$7,809	$7,657	$7,800	$7,936	$8,067	$9,624	$10,333	$10,341	$10,012
5038	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	SFIE	SF	LI	Retrofit	$1,143	$1,742	$1,966	$2,139	$2,393	$3,042	$3,740	$4,418	$6,256	$7,280	$7,610	$7,592	$7,423	$7,540	$7,650	$7,754	$9,225	$9,878	$9,859	$9,520
5039	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	N/A	NC	$130	$158	$221	$297	$344	$376	$392	$269	$1,633	$1,745	$1,646	$1,864	$1,799	$1,623	$1,398	$798	$4,085	$17,058	$4,494	$4,579
5040	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	$34	$52	$59	$64	$72	$92	$113	$134	$190	$222	$233	$233	$228	$233	$237	$240	$287	$308	$308	$298
5041	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	MFIE	MF	LI	Retrofit	$380	$412	$458	$580	$709	$834	$936	$998	$1,416	$1,406	$1,369	$1,383	$1,396	$1,408	$1,409	$1,384	$1,760	$1,692	$1,478	$1,495
5042	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	N/A	NC	$11	$13	$18	$25	$29	$31	$33	$23	$137	$146	$138	$156	$151	$136	$117	$67	$342	$1,428	$376	$383
5043	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	$2,920	$4,469	$5,066	$5,537	$6,220	$7,940	$9,803	$11,627	$16,530	$19,312	$20,268	$20,299	$19,922	$20,312	$20,688	$21,046	$25,131	$27,006	$27,050	$26,212
5044	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	SFIE	SF	LI	Retrofit	$2,026	$3,089	$3,488	$3,798	$4,250	$5,404	$6,648	$7,856	$11,128	$12,954	$13,547	$13,521	$13,223	$13,437	$13,639	$13,829	$16,459	$17,630	$17,603	$17,004
5045	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	N/A	NC	$333	$407	$568	$765	$888	$971	$1,013	$696	$4,232	$4,526	$4,274	$4,846	$4,680	$4,228	$3,644	$2,082	$10,666	$44,583	$11,757	$11,990
5046	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	$87	$133	$151	$165	$185	$237	$292	$347	$493	$576	$604	$605	$594	$606	$617	$627	$749	$805	$806	$781
5047	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	MFIE	MF	LI	Retrofit	$630	$682	$759	$960	$1,175	$1,382	$1,551	$1,654	$2,345	$2,329	$2,267	$2,291	$2,312	$2,332	$2,334	$2,292	$2,915	$2,803	$2,449	$2,476
5048	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	N/A	NC	$28	$34	$48	$64	$74	$81	$85	$58	$354	$379	$358	$406	$392	$354	$305	$174	$893	$3,731	$984	$1,003
5049	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	NLI	Retrofit	$4,500	$6,890	$7,813	$8,543	$9,600	$12,259	$15,141	$17,965	$25,549	$29,858	$31,347	$31,405	$30,830	$31,445	$32,035	$32,600	$38,939	$41,857	$41,937	$40,649
5050	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	SFIE	SF	LI	Retrofit	$2,022	$3,078	$3,470	$3,772	$4,215	$5,352	$6,573	$7,756	$10,971	$12,752	$13,317	$13,271	$12,961	$13,152	$13,331	$13,498	$16,043	$17,161	$17,110	$16,506
5051	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	N/A	NC	$514	$628	$876	$1,180	$1,370	$1,499	$1,565	$1,076	$6,542	$6,998	$6,610	$7,497	$7,243	$6,544	$5,643	$3,225	$16,527	$69,099	$18,227	$18,593
5052	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	NLI	Retrofit	$134	$205	$233	$255	$286	$365	$451	$536	$762	$890	$935	$936	$919	$937	$955	$972	$1,161	$1,248	$1,250	$1,212
5053	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	MFIE	MF	LI	Retrofit	$790	$856	$952	$1,205	$1,474	$1,734	$1,946	$2,075	$2,942	$2,922	$2,844	$2,874	$2,901	$2,926	$2,928	$2,876	$3,657	$3,517	$3,072	$3,107
5054	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	N/A	NC	$43	$53	$73	$99	$115	$125	$131	$90	$548	$586	$553	$627	$606	$548	$472	$270	$1,383	$5,783	$1,526	$1,556
5055	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	NLI	Retrofit	$4,706	$7,200	$8,159	$8,915	$10,012	$12,776	$15,769	$18,698	$26,574	$31,036	$32,563	$32,604	$31,988	$32,607	$33,200	$33,765	$40,308	$43,306	$43,364	$42,010
5056	Lighting	LED - 12W Dimmable Light Bulb IE DI	SFIE	SF	LI	Retrofit	$3,065	$4,677	$5,286	$5,760	$6,452	$8,212	$10,110	$11,958	$16,953	$19,752	$20,674	$20,651	$20,213	$20,556	$20,882	$21,190	$25,240	$27,058	$27,036	$26,136
5057	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	N/A	NC	$538	$656	$915	$1,231	$1,429	$1,562	$1,630	$1,119	$6,804	$7,275	$6,867	$7,783	$7,515	$6,786	$5,848	$3,341	$17,108	$71,490	$18,847	$19,216
5058	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	NLI	Retrofit	$115	$176	$199	$218	$245	$312	$385	$457	$649	$758	$796	$797	$782	$797	$811	$825	$985	$1,058	$1,060	$1,027
5059	Lighting	LED - 12W Dimmable Light Bulb IE DI	MFIE	MF	LI	Retrofit	$249	$270	$300	$380	$465	$546	$613	$654	$927	$921	$896	$906	$914	$922	$923	$906	$1,152	$1,108	$968	$979
5060	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	N/A	NC	$37	$45	$63	$84	$98	$107	$112	$77	$467	$499	$471	$534	$516	$466	$401	$229	$1,174	$4,905	$1,293	$1,318
5061	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	NLI	Retrofit	$402	$614	$1,109	$1,391	$1,994	$2,518	$3,392	$4,179	$5,286	$6,230	$7,407	$8,309	$9,366	$10,081	$10,932	$11,436	$12,104	$12,445	$12,993	$13,229
5062	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	SFIE	SF	LI	Retrofit	$292	$445	$801	$1,000	$1,429	$1,798	$2,413	$2,961	$3,733	$4,383	$5,193	$5,805	$6,520	$6,994	$7,559	$7,881	$8,313	$8,519	$8,866	$8,998
5063	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	N/A	NC	$46	$56	$166	$210	$428	$511	$883	$949	$1,532	$1,571	$2,205	$2,142	$2,857	$2,650	$3,397	$3,049	$3,806	$7,988	$4,602	$9,035
5064	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	NLI	Retrofit	$10	$15	$27	$34	$49	$62	$83	$102	$129	$152	$181	$203	$229	$246	$267	$279	$296	$304	$318	$323
5065	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	MFIE	MF	LI	Retrofit	$37	$40	$83	$98	$153	$181	$247	$281	$350	$381	$442	$462	$513	$521	$562	$561	$596	$589	$607	$601
5066	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	N/A	NC	$3	$4	$11	$14	$29	$35	$61	$65	$105	$108	$151	$147	$196	$182	$233	$209	$261	$548	$316	$620
5067	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	NLI	Retrofit	$884	$1,349	$1,525	$1,662	$1,861	$2,369	$2,917	$3,450	$4,892	$5,700	$5,966	$5,959	$5,833	$5,933	$6,027	$6,116	$7,286	$7,810	$7,804	$7,545
5068	Lighting	LED - 4W Candelabra Specialty IE DI	SFIE	SF	LI	Retrofit	$677	$1,029	$1,158	$1,257	$1,402	$1,777	$2,179	$2,567	$3,626	$4,208	$4,387	$4,365	$4,256	$4,312	$4,364	$4,412	$5,236	$5,592	$5,568	$5,363
5069	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	N/A	NC	$101	$123	$171	$229	$266	$290	$301	$207	$1,253	$1,336	$1,258	$1,423	$1,370	$1,235	$1,062	$605	$3,092	$12,894	$3,392	$3,451
5070	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	NLI	Retrofit	$22	$33	$37	$41	$45	$58	$71	$84	$120	$139	$146	$146	$143	$145	$147	$149	$178	$191	$191	$184
5071	Lighting	LED - 4W Candelabra Specialty IE DI	MFIE	MF	LI	Retrofit	$154	$168	$188	$238	$293	$346	$390	$417	$594	$592	$579	$587	$595	$603	$606	$597	$762	$736	$646	$655
5072	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	N/A	NC	$7	$8	$12	$16	$18	$20	$21	$14	$86	$92	$86	$98	$94	$85	$73	$42	$212	$885	$233	$237
5073	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	NLI	Retrofit	$5,111	$7,822	$8,864	$9,686	$10,879	$13,883	$17,137	$20,322	$28,884	$33,738	$35,400	$35,447	$34,780	$35,455	$36,103	$36,721	$43,839	$47,102	$47,170	$45,700
5074	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	SFIE	SF	LI	Retrofit	$3,309	$5,051	$5,709	$6,223	$6,971	$8,874	$10,927	$12,926	$18,328	$21,357	$22,357	$22,336	$21,866	$22,240	$22,596	$22,933	$27,319	$29,291	$29,271	$28,301
5075	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	N/A	NC	$584	$713	$994	$1,338	$1,553	$1,698	$1,771	$1,217	$7,396	$7,908	$7,465	$8,462	$8,171	$7,379	$6,359	$3,633	$18,607	$77,758	$20,501	$20,903
5076	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	NLI	Retrofit	$125	$191	$217	$237	$266	$339	$419	$497	$706	$824	$865	$866	$850	$866	$882	$897	$1,071	$1,151	$1,153	$1,117
5077	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	MFIE	MF	LI	Retrofit	$815	$890	$998	$1,272	$1,569	$1,859	$2,103	$2,259	$3,227	$3,230	$3,167	$3,224	$3,279	$3,331	$3,358	$3,322	$4,254	$4,120	$3,625	$3,692
5078	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	N/A	NC	$40	$49	$68	$92	$107	$116	$122	$83	$507	$543	$512	$581	$561	$506	$436	$249	$1,277	$5,335	$1,407	$1,434
5079	Lighting	LED Nightlights	PAYS	SF	NLI	Retrofit	$1,976	$3,007	$3,388	$3,681	$6,184	$8,372	$9,960	$11,419	$14,997	$17,889	$19,682	$20,842	$23,824	$25,825	$26,568	$26,676	$28,817	$30,087	$30,211	$29,787
5080	Lighting	LED Nightlights	SFIE	SF	LI	Retrofit	$787	$1,198	$1,349	$1,466	$1,637	$2,077	$2,550	$3,007	$4,250	$4,938	$5,153	$5,132	$5,009	$5,080	$5,146	$5,207	$6,185	$6,613	$6,589	$6,353
5081	Lighting	LED Nightlights	PAYS	SF	N/A	NC	$226	$274	$380	$508	$1,374	$1,555	$1,867	$1,961	$4,344	$4,506	$4,231	$4,002	$7,983	$7,494	$6,426	$5,617	$10,488	$30,765	$9,926	$8,808
5082	Lighting	LED Nightlights	PAYS	MF	NLI	Retrofit	$79	$120	$136	$147	$248	$335	$399	$457	$601	$717	$788	$835	$954	$1,034	$1,064	$1,069	$1,154	$1,205	$1,210	$1,193
5083	Lighting	LED Nightlights	MFIE	MF	LI	Retrofit	$529	$573	$638	$807	$987	$1,161	$1,303	$1,390	$1,970	$1,957	$1,905	$1,925	$1,943	$1,960	$1,961	$1,926	$2,449	$2,355	$2,058	$2,081
5084	Lighting	LED Nightlights	PAYS	MF	N/A	NC	$25	$31	$43	$57	$155	$175	$210	$221	$488	$507	$476	$450	$898	$843	$723	$632	$1,179	$3,460	$1,116	$990
5085	Lighting	Occupancy Sensor	N/A	SF	NLI	Retrofit	$14,186	$21,526	$24,191	$26,217	$29,202	$36,964	$45,258	$53,236	$59,764	$63,749	$80,029	$85,331	$82,665	$77,515	$72,754	$73,523	$75,724	$78,723	$81,389	$82,098
5086	Lighting	Occupancy Sensor	N/A	SF	LI	Retrofit	$7,350	$11,152	$12,533	$13,583	$15,129	$19,150	$23,447	$27,581	$30,963	$33,027	$41,462	$44,209	$42,828	$40,159	$37,693	$38,091	$39,232	$40,785	$42,166	$42,534
5087	Lighting	Occupancy Sensor	N/A	SF	N/A	NC	$253	$306	$423	$564	$650	$705	$729	$497	$631	$669	$3,363	$3,380	$3,810	$4,092	$3,769	$3,268	$2,723	$24,463	$3,996	$3,897
5088	Lighting	Occupancy Sensor	N/A	MF	NLI	Retrofit	$791	$1,200	$1,348	$1,461	$1,628	$2,060	$2,522	$2,967	$3,331	$3,553	$4,460	$4,756	$4,607	$4,320	$4,055	$4,098	$4,220	$4,388	$4,536	$4,576
5089	Lighting	Occupancy Sensor	N/A	MF	LI	Retrofit	$1,029	$1,562	$1,755	$1,903	$2,119	$2,682	$3,284	$3,863	$4,337	$4,626	$5,808	$6,192	$5,999	$5,625	$5,280	$5,335	$5,495	$5,713	$5,906	$5,958

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5090	Lighting	Occupancy Sensor	N/A	MF	N/A	NC	$21	$26	$36	$48	$55	$59	$61	$42	$53	$56	$284	$285	$321	$345	$318	$276	$230	$2,062	$337	$329
5091	Lighting	Exterior Lighting Controls	N/A	SF	NLI	Retrofit	$7,041	$10,776	$12,213	$13,348	$14,992	$19,135	$23,623	$28,016	$31,708	$34,095	$43,146	$46,371	$45,276	$42,788	$40,471	$41,213	$42,771	$44,800	$46,664	$47,420
5092	Lighting	Exterior Lighting Controls	N/A	SF	LI	Retrofit	$3,648	$5,583	$6,327	$6,915	$7,767	$9,914	$12,239	$14,515	$16,427	$17,664	$22,354	$24,024	$23,457	$22,168	$20,968	$21,352	$22,159	$23,210	$24,176	$24,567
5093	Lighting	Exterior Lighting Controls	N/A	SF	N/A	NC	$125	$153	$214	$287	$334	$365	$381	$262	$335	$358	$1,813	$1,837	$2,087	$2,259	$2,096	$1,832	$1,538	$13,922	$2,291	$2,251
5094	Lighting	Exterior Lighting Controls	N/A	MF	NLI	Retrofit	$392	$601	$681	$744	$836	$1,067	$1,317	$1,561	$1,767	$1,900	$2,405	$2,584	$2,523	$2,385	$2,256	$2,297	$2,384	$2,497	$2,601	$2,643
5095	Lighting	Exterior Lighting Controls	N/A	MF	LI	Retrofit	$511	$782	$886	$969	$1,088	$1,389	$1,714	$2,033	$2,301	$2,474	$3,131	$3,365	$3,286	$3,105	$2,937	$2,991	$3,104	$3,251	$3,386	$3,441
5096	Lighting	Exterior Lighting Controls	N/A	MF	N/A	NC	$11	$13	$18	$24	$28	$31	$32	$22	$28	$30	$153	$155	$176	$190	$177	$154	$130	$1,174	$193	$190
5097	Lighting	Advanced Lighting	N/A	SF	N/A	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
5098	Lighting	Advanced Lighting	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
5099	Lighting	Advanced Lighting	N/A	MF	N/A	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
5100	Lighting	Advanced Lighting	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
6001	New Construction	Zero Energy Ready Home	N/A	SF	N/A	NC	$20,893	$25,242	$34,825	$46,356	$53,254	$57,610	$59,475	$40,431	$51,177	$54,196	$0	$0	$0	$0	$0	$0	$0	########	$190,482	$194,747
6002	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	SF	N/A	NC	$11,392	$13,743	$18,931	$25,161	$28,860	$31,173	$32,132	$21,809	$27,561	$29,141	$0	$0	$0	$0	$0	$0	$0	$967,686	$100,920	$103,006
6003	New Construction	Zero Energy Ready Home	N/A	MF	N/A	NC	$2,302	$2,774	$3,817	$5,066	$5,804	$6,262	$6,446	$4,370	$5,515	$5,824	$0	$0	$0	$0	$0	$0	$0	$191,322	$19,925	$20,308
6004	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7001	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7002	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	SFIE	SF	LI	Retrofit	$64,842	$58,617	$50,581	$41,943	$33,650	$26,284	$20,104	$15,133	$11,250	$0	$66,190	$59,858	$51,671	$42,863	$34,401	$26,881	$20,569	$15,489	$11,520	$0
7003	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7004	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7005	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	MFIE	MF	LI	Retrofit	$436	$474	$528	$670	$822	$969	$1,091	$1,166	$1,180	$1,132	$1,520	$1,427	$1,342	$1,358	$1,400	$1,457	$1,506	$1,523	$1,331	$1,278
7006	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7007	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	NLI	Retrofit	$211,605	$320,665	$359,876	$389,499	$433,268	$547,697	$669,692	$786,692	$881,978	$939,511	########	########	########	########	########	########	########	########	########	########
7008	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	SFIE	SF	LI	Retrofit	$581,130	$527,626	$457,301	$380,896	$306,959	$240,856	$185,079	$139,960	$104,544	$0	$620,975	$564,297	$489,515	$408,089	$329,167	$258,514	$198,827	$150,493	$112,514	$0
7009	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	N/A	NC	$7,411	$8,962	$12,377	$16,491	$18,964	$20,536	$21,222	$14,441	$18,298	$19,397	$97,329	$97,685	$109,979	$117,964	$108,489	$93,956	$78,163	$701,348	$114,405	$111,412
7010	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	NLI	Retrofit	$21,121	$32,006	$35,920	$38,876	$43,245	$54,666	$66,843	$78,521	$88,031	$93,774	$117,564	$125,183	$121,108	$113,409	$106,300	$107,278	$110,340	$114,554	$118,274	$119,143
7011	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	MFIE	MF	LI	Retrofit	$29,010	$31,349	$34,808	$43,934	$53,654	$62,949	$70,499	$74,995	$75,549	$72,112	$96,353	$90,055	$84,231	$84,821	$87,067	$90,179	$92,772	$93,335	$81,206	$77,582
7012	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	N/A	NC	$964	$1,166	$1,611	$2,146	$2,468	$2,673	$2,762	$1,879	$2,381	$2,524	$12,667	$12,713	$14,313	$15,352	$14,119	$12,228	$10,172	$91,274	$14,889	$14,499
7013	Plug Loads	ENERGY STAR TV	N/A	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7014	Plug Loads	ENERGY STAR TV	N/A	SF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7015	Plug Loads	ENERGY STAR TV	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7016	Plug Loads	ENERGY STAR TV	N/A	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7017	Plug Loads	ENERGY STAR TV	N/A	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7018	Plug Loads	ENERGY STAR TV	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7019	Plug Loads	Smart Plug	N/A	SF	NLI	Retrofit	$3,416	$5,200	$5,861	$6,372	$7,119	$9,039	$11,101	$16,825	$20,426	$22,183	$22,960	$23,134	$23,881	$24,331	$28,616	$30,630	$30,822	$30,217	$29,260	$29,145
7020	Plug Loads	Smart Plug	N/A	SF	LI	Retrofit	$1,024	$1,559	$1,758	$1,911	$2,135	$2,711	$3,329	$5,046	$6,126	$6,653	$6,886	$6,938	$7,162	$7,297	$8,582	$9,186	$9,244	$9,062	$8,775	$8,740
7021	Plug Loads	Smart Plug	N/A	SF	N/A	NC	$29	$35	$49	$66	$76	$83	$86	$283	$320	$379	$348	$342	$314	$275	$767	$739	$758	$3,398	$835	$758
7022	Plug Loads	Smart Plug	N/A	MF	NLI	Retrofit	$414	$630	$711	$773	$863	$1,096	$1,346	$2,040	$2,476	$2,690	$2,784	$2,805	$2,895	$2,950	$3,470	$3,714	$3,737	$3,664	$3,548	$3,534
7023	Plug Loads	Smart Plug	N/A	MF	LI	Retrofit	$288	$439	$495	$538	$601	$763	$937	$1,421	$1,725	$1,873	$1,939	$1,954	$2,017	$2,055	$2,417	$2,587	$2,603	$2,552	$2,471	$2,461
7024	Plug Loads	Smart Plug	N/A	MF	N/A	NC	$5	$6	$9	$12	$13	$14	$15	$50	$56	$67	$61	$60	$55	$48	$134	$130	$133	$596	$146	$133
8001	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER1	$32,997	$45,246	$61,474	$82,562	$109,259	$141,947	$180,424	$223,711	$269,969	$317,029	$362,499	$404,064	$440,700	$471,974	$497,949	$519,152	$536,334	$551,243	$569,135	$574,756
8002	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8003	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,126	$16,508	$22,267	$29,686	$38,993	$50,279	$63,422	$78,033	$93,435	$108,858
8004	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8005	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER1	$7,154	$9,282	$11,784	$14,598	$17,610	$20,664	$23,605	$26,303	$28,669	$30,687	$32,363	$33,704	$34,783	$35,652	$36,352	$36,554	$36,752	$37,012	$37,632	$37,942
8006	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8007	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,926	$3,775	$4,765	$5,868	$7,036	$8,207	$9,319	$10,320	$11,178	$11,889
8008	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	SF	LI	MO	$1,253	$1,620	$2,051	$2,532	$3,045	$3,562	$4,055	$4,504	$4,892	$5,219	$5,485	$5,693	$5,855	$5,980	$6,075	$6,087	$6,098	$6,119	$6,198	$6,226
8009	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8010	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER1	$4,389	$5,964	$8,009	$10,599	$13,773	$17,510	$21,716	$26,218	$30,785	$35,200	$39,271	$42,837	$45,877	$48,410	$50,482	$52,160	$53,521	$54,731	$55,740	$56,290
8011	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8012	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,820	$3,805	$5,072	$6,663	$8,594	$10,844	$13,346	$15,989	$18,628	$21,133
8013	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	NLI	MO	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8014	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER1	$4,155	$5,392	$6,845	$8,480	$10,229	$12,003	$13,711	$15,278	$16,653	$17,825	$18,798	$19,577	$20,204	$20,709	$21,115	$21,232	$21,347	$21,498	$21,859	$22,039
8015	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8016	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER3	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,971	$3,833	$4,839	$5,959	$7,146	$8,335	$9,464	$10,480	$11,352	$12,074
8017	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	MF	LI	MO	$728	$941	$1,191	$1,471	$1,769	$2,069	$2,355	$2,616	$2,842	$3,031	$3,186	$3,307	$3,401	$3,473	$3,529	$3,536	$3,542	$3,554	$3,600	$3,616
8018	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8019	Pools	Heat Pump Pool Heater	N/A	SF	N/A	MO	$4,783	$6,632	$9,132	$12,464	$16,815	$22,346	$29,153	$37,212	$46,323	$56,156	$66,236	$76,005	$85,084	$93,209	$100,246	$106,208	$111,202	$115,578	$120,462	$123,866
8020	Pools	Heat Pump Pool Heater	N/A	SF	N/A	NC	$172	$209	$290	$388	$448	$487	$505	$345	$439	$467	$0	$0	$0	$0	$0	$3,789	$3,487	$19,991	$5,422	$5,027
8021	Pools	Heat Pump Pool Heater	N/A	MF	N/A	MO	$849	$1,178	$1,622	$2,214	$2,986	$3,969	$5,178	$6,609	$8,227	$9,974	$11,764	$13,499	$15,112	$16,555	$17,805	$18,863	$19,750	$20,528	$21,395	$22,000
8022	Pools	Heat Pump Pool Heater	N/A	MF	N/A	NC	$30	$37	$51	$68	$79	$85	$89	$61	$77	$82	$0	$0	$0	$0	$0	$665	$612	$3,507	$951	$882
9001	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	NLI	MO	$319,693	$397,401	$480,911	$566,319	$649,398	$726,417	$794,995	$854,155	$903,825	$945,387	$979,997	########	########	########	########	########	########	########	########	########
9002	Water Heating	Heat Pump Hot Water Heater	SFIE	SF	LI	MO	$142,121	$192,630	$258,000	$340,503	$441,282	$559,519	$692,017	$833,201	$975,643	########	########	########	########	########	########	########	########	########	########	########
9003	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	N/A	NC	$968	$1,172	$1,621	$2,162	$2,490	$2,699	$2,793	$1,903	$2,414	$2,562	$0	$0	$0	$18,012	$16,975	$18,122	$18,617	$104,344	$23,159	$20,816
9004	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	NLI	MO	$22,826	$30,715	$40,716	$53,003	$67,525	$83,918	$101,525	$119,486	$136,866	$152,981	$167,331	$179,565	$189,838	$198,369	$205,392	$211,181	$216,004	$218,299	$222,744	$225,370
9005	Water Heating	Heat Pump Hot Water Heater	MFIE	MF	LI	MO	$102,186	$132,543	$168,199	$208,279	$251,137	$294,573	$336,354	$374,644	$408,172	$436,708	$460,359	$479,233	$494,349	$506,480	$516,188	$518,827	$521,399	$524,848	$533,407	$537,546
9006	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	N/A	NC	$539	$652	$902	$1,203	$1,385	$1,502	$1,554	$1,059	$1,343	$1,425	$0	$0	$0	$10,019	$9,443	$10,081	$10,356	$58,043	$12,882	$11,579
9007	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	$15,792	$20,076	$24,689	$29,178	$32,926	$35,292	$35,830	$34,456	$31,464	$27,437	$41,084	$41,644	$43,022	$44,861	$46,478	$47,084	$41,257	$39,707	$36,289	$31,669
9008	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	$36,849	$43,261	$48,482	$51,625	$52,083	$49,772	$45,176	$39,144	$32,576	$26,232	$60,041	$62,167	$63,949	$64,347	$55,988	$53,552	$48,652	$42,194	$35,147	$28,329
9009	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	$110	$134	$186	$249	$287	$313	$325	$222	$283	$302	$1,523	$1,537	$1,740	$1,876	$1,734	$1,510	$1,263	$11,389	$1,867	$1,828
9010	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	$2,955	$3,492	$3,940	$4,224	$4,290	$4,128	$3,772	$3,290	$2,757	$2,235	$5,150	$5,368	$5,559	$5,631	$4,932	$4,749	$4,343	$3,792	$3,180	$2,580
9011	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	$124	$134	$149	$189	$231	$272	$305	$325	$328	$314	$420	$394	$369	$372	$383	$397	$410	$413	$360	$345
9012	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	$11	$14	$19	$25	$29	$32	$33	$23	$29	$31	$154	$156	$176	$190	$176	$153	$128	$1,154	$189	$185
9013	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	$9,089	$11,598	$14,316	$16,981	$19,232	$20,688	$21,078	$20,341	$18,640	$16,310	$24,505	$24,922	$25,833	$27,025	$28,090	$28,547	$25,094	$24,226	$22,209	$19,441
9014	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	$19,847	$23,423	$26,388	$28,247	$28,648	$27,521	$25,112	$21,874	$18,300	$14,814	$34,087	$35,481	$36,691	$37,115	$32,464	$31,216	$28,509	$24,855	$20,813	$16,864
9015	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	$68	$83	$116	$156	$182	$198	$207	$142	$182	$194	$983	$995	$1,130	$1,222	$1,134	$990	$831	$7,517	$1,236	$1,214
9016	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	$2,493	$2,958	$3,350	$3,605	$3,674	$3,548	$3,254	$2,848	$2,395	$1,948	$4,504	$4,711	$4,894	$4,974	$4,371	$4,222	$3,874	$3,392	$2,853	$2,322

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
9017	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	$90	$98	$110	$140	$172	$203	$229	$245	$249	$239	$322	$303	$285	$289	$299	$312	$323	$327	$287	$276
9018	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	$10	$12	$17	$23	$27	$29	$30	$21	$27	$28	$144	$146	$166	$179	$166	$145	$122	$1,102	$181	$178
9019	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	NLI	Retrofit	$32,807	$35,825	$40,195	$51,264	$63,256	$74,985	$84,848	$91,189	$92,804	$89,488	$120,787	$114,036	$107,738	$109,583	$113,609	$118,841	$123,470	$125,443	$110,212	$106,320
9020	Water Heating	Low Flow Showerhead SFIE DI	SFIE	SF	LI	Retrofit	$48,494	$57,177	$64,355	$68,823	$69,736	$66,931	$61,016	$53,099	$44,383	$35,896	$82,520	$85,816	$88,663	$89,607	$78,309	$75,230	$68,647	$59,796	$50,028	$40,500
9021	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	N/A	NC	$278	$339	$472	$634	$736	$804	$838	$575	$735	$785	$3,974	$4,022	$4,566	$4,938	$4,579	$3,998	$3,353	$30,328	$4,987	$4,895
9022	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	NLI	Retrofit	$3,679	$4,363	$4,939	$5,313	$5,414	$5,225	$4,790	$4,192	$3,523	$2,865	$6,621	$6,923	$7,190	$7,305	$6,417	$6,197	$5,683	$4,976	$4,184	$3,404
9023	Water Heating	Low Flow Showerhead SFIE DI	MFIE	MF	LI	Retrofit	$6,246	$5,438	$4,548	$3,680	$2,901	$2,239	$1,701	$1,276	$0	$0	$6,964	$6,068	$5,080	$4,115	$3,246	$2,508	$1,907	$1,433	$0	$0
9024	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	N/A	NC	$30	$37	$52	$69	$81	$88	$92	$63	$80	$86	$435	$440	$500	$540	$501	$438	$367	$3,319	$546	$536
9025	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9026	Water Heating	Pipe Insulation SFIE DI	SFIE	SF	LI	Retrofit	$33,690	$40,979	$47,885	$53,427	$56,634	$56,861	$54,071	$48,837	$42,095	$34,868	$27,941	$21,784	$51,253	$54,631	$58,535	$54,980	$58,308	$58,572	$55,727	$50,359
9027	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9028	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	NLI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9029	Water Heating	Pipe Insulation SFIE DI	MFIE	MF	LI	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9030	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9031	Water Heating	Thermostatic Restrictor Valve	N/A	SF	NLI	Retrofit	$9,616	$14,573	$16,355	$17,702	$19,692	$24,894	$30,440	$35,759	$40,092	$42,709	$53,546	$57,018	$55,164	$51,659	$48,422	$48,869	$50,266	$52,188	$53,884	$54,282
9032	Water Heating	Thermostatic Restrictor Valve	N/A	SF	LI	Retrofit	$4,460	$6,760	$7,586	$8,211	$9,134	$11,547	$14,119	$16,587	$18,596	$19,810	$24,837	$26,447	$25,587	$23,961	$22,460	$22,668	$23,316	$24,207	$24,994	$25,178
9033	Water Heating	Thermostatic Restrictor Valve	N/A	SF	N/A	NC	$79	$96	$132	$176	$202	$219	$227	$154	$195	$207	$1,039	$1,043	$1,174	$1,260	$1,159	$1,003	$835	$7,490	$1,222	$1,190
9034	Water Heating	Thermostatic Restrictor Valve	N/A	MF	NLI	Retrofit	$1,057	$1,600	$1,794	$1,940	$2,156	$2,722	$3,326	$3,903	$4,372	$4,653	$5,827	$6,199	$5,992	$5,606	$5,249	$5,292	$5,438	$5,641	$5,818	$5,855
9035	Water Heating	Thermostatic Restrictor Valve	N/A	MF	LI	Retrofit	$267	$296	$374	$457	$537	$602	$641	$647	$618	$560	$772	$723	$728	$748	$775	$798	$804	$700	$669	$608
9036	Water Heating	Thermostatic Restrictor Valve	N/A	MF	N/A	NC	$8	$9	$13	$17	$19	$21	$22	$15	$19	$20	$99	$99	$112	$120	$110	$95	$79	$709	$115	$112
9037	Water Heating	Water Heater Wrap	N/A	SF	NLI	Retrofit	$4,236	$6,436	$7,242	$7,858	$8,763	$15,571	$20,402	$23,674	$26,316	$28,501	$35,926	$40,217	$42,006	$42,586	$42,474	$47,981	$50,422	$50,553	$49,783	$48,536
9038	Water Heating	Water Heater Wrap	N/A	SF	LI	Retrofit	$1,587	$2,411	$2,713	$2,944	$3,283	$5,833	$7,643	$8,868	$9,858	$10,677	$13,458	$15,066	$15,736	$15,953	$15,911	$17,974	$18,888	$18,937	$18,649	$18,182
9039	Water Heating	Water Heater Wrap	N/A	SF	N/A	NC	$42	$51	$70	$94	$108	$310	$341	$365	$450	$469	$909	$883	$830	$900	$835	$1,455	$1,290	$5,009	$1,557	$1,436
9040	Water Heating	Water Heater Wrap	N/A	MF	NLI	Retrofit	$449	$681	$767	$832	$928	$1,649	$2,160	$2,507	$2,786	$3,018	$3,804	$4,258	$4,448	$4,509	$4,497	$5,080	$5,339	$5,352	$5,271	$5,139
9041	Water Heating	Water Heater Wrap	N/A	MF	LI	Retrofit	$111	$123	$156	$192	$226	$371	$402	$440	$466	$479	$601	$599	$606	$604	$592	$701	$683	$642	$640	$628
9042	Water Heating	Water Heater Wrap	N/A	MF	N/A	NC	$6	$7	$10	$13	$15	$42	$46	$49	$61	$63	$123	$119	$112	$122	$113	$197	$174	$677	$211	$194
9043	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9044	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9045	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	Retrofit	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9046	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	NC	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9047	Water Heating	Water Heater Timer / Setback	N/A	SF	NLI	Retrofit	$6,741	$10,312	$18,662	$23,442	$33,656	$42,562	$57,422	$70,837	$89,749	$105,918	$126,111	$141,673	$159,908	$172,361	$187,171	$196,058	$207,771	$213,905	$223,610	$227,965
9048	Water Heating	Water Heater Timer / Setback	N/A	SF	LI	Retrofit	$2,542	$3,889	$7,038	$8,841	$12,693	$16,052	$21,657	$26,717	$33,849	$39,948	$47,564	$53,433	$60,310	$65,007	$70,593	$73,945	$78,362	$80,676	$84,336	$85,979
9049	Water Heating	Water Heater Timer / Setback	N/A	SF	N/A	NC	$31	$37	$111	$141	$287	$343	$594	$640	$1,034	$1,061	$1,492	$1,451	$1,938	$1,801	$2,311	$2,077	$2,597	$5,456	$3,148	$6,187
9050	Water Heating	Water Heater Timer / Setback	N/A	MF	NLI	Retrofit	$778	$1,191	$2,155	$2,707	$3,886	$4,914	$6,630	$8,179	$10,363	$12,230	$14,562	$16,359	$18,464	$19,902	$21,612	$22,638	$23,991	$24,699	$25,820	$26,323
9051	Water Heating	Water Heater Timer / Setback	N/A	MF	LI	Retrofit	$114	$174	$315	$396	$568	$718	$969	$1,196	$1,515	$1,788	$2,129	$2,391	$2,699	$2,909	$3,159	$3,309	$3,507	$3,610	$3,774	$3,848
9052	Water Heating	Water Heater Timer / Setback	N/A	MF	N/A	NC	$4	$5	$16	$21	$42	$50	$87	$93	$151	$155	$217	$212	$282	$262	$337	$303	$378	$795	$459	$902

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1001	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	NLI	MO	51	69	95	127	170	223	288	363	446	534	622	705	779	843	895	936	968	993	1,021	1,036
1002	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	SFIE	SF	LI	MO	34	44	56	69	82	96	109	121	131	139	146	151	155	158	160	159	159	159	161	161
1003	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	N/A	NC	1	1	2	2	2	3	3	2	2	12	10	12	13	12	10	8	5	78	31	24
1004	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	NLI	MO	9	13	17	22	29	36	44	53	62	70	78	84	89	93	97	99	101	102	101	100
1005	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	MFIE	MF	LI	MO	32	37	40	44	47	49	51	52	53	54	54	54	54	54	54	54	54	54	54	54
1006	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	12	5	4
1007	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	NLI	MO	51	69	95	127	170	223	288	363	446	534	622	705	779	843	895	936	968	993	1,021	1,036
1008	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	SFIE	SF	LI	MO	11	14	18	22	26	31	35	39	42	44	47	48	49	50	51	51	51	51	51	51
1009	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	N/A	NC	1	1	2	2	2	3	3	2	2	12	10	12	13	12	10	8	5	78	31	24
1010	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	NLI	MO	9	13	17	22	29	36	44	53	62	70	78	84	89	93	97	99	101	102	101	100
1011	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	MFIE	MF	LI	MO	12	14	16	17	18	19	20	20	21	21	21	21	21	21	21	21	21	21	21	21
1012	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	12	5	4
1013	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	NLI	MO	51	69	95	127	170	223	288	363	446	534	622	705	779	843	895	936	968	993	1,021	1,036
1014	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	SFIE	SF	LI	MO	43	55	70	86	103	120	136	151	163	174	182	188	193	196	199	199	198	198	200	201
1015	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	N/A	NC	1	1	2	2	2	3	3	2	2	12	10	12	13	12	10	8	5	78	31	24
1016	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	NLI	MO	9	13	17	22	29	36	44	53	62	70	78	84	89	93	97	99	101	102	101	100
1017	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	MFIE	MF	LI	MO	32	37	40	44	47	49	51	52	53	54	54	54	54	54	54	54	54	54	54	54
1018	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	12	5	4
1019	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	NLI	MO	51	69	95	127	170	223	288	363	446	534	622	705	779	843	895	936	968	993	1,021	1,036
1020	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	SFIE	SF	LI	MO	53	68	86	106	127	148	168	186	201	214	224	232	238	242	245	245	245	245	247	247
1021	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	N/A	NC	1	1	2	2	2	3	3	2	2	12	10	12	13	12	10	8	5	78	31	24
1022	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	NLI	MO	9	13	17	22	29	36	44	53	62	70	78	84	89	93	97	99	101	102	101	100
1023	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	MFIE	MF	LI	MO	32	37	40	44	47	49	51	52	53	54	54	54	54	54	54	54	54	54	54	54
1024	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	12	5	4
1025	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	NLI	MO	153	210	286	386	514	675	870	1,097	1,349	1,616	1,882	2,133	2,358	2,550	2,708	2,833	2,928	3,003	3,089	3,135
1026	Appliances	ENERGY STAR Dehumidifier	SFIE	SF	LI	MO	167	225	300	394	509	642	790	946	1,103	1,251	1,384	1,498	1,591	1,665	1,722	1,764	1,795	1,820	1,837	1,839
1027	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	N/A	NC	4	5	6	8	9	10	10	7	9	9	0	0	58	55	59	60	53	336	67	50
1028	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	NLI	MO	19	25	35	47	62	82	105	133	164	196	228	259	286	309	328	343	355	364	374	380
1029	Appliances	ENERGY STAR Dehumidifier	MFIE	MF	LI	MO	134	169	208	250	292	331	367	398	423	443	459	471	479	486	485	484	484	484	488	489
1030	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	N/A	NC	1	1	1	1	1	1	2	1	1	1	0	0	9	8	9	9	8	50	10	7
1031	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	NLI	MO	142	195	266	358	478	628	809	1,020	1,254	1,502	1,750	1,983	2,192	2,371	2,517	2,633	2,721	2,792	2,872	2,914
1032	Appliances	ENERGY STAR Most Efficient Dehumidifier	SFIE	SF	LI	MO	32	43	57	75	97	123	151	181	211	239	265	286	304	318	329	337	343	348	351	351
1033	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	N/A	NC	3	4	6	7	8	9	9	6	8	8	0	0	51	48	52	53	47	298	59	45
1034	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	NLI	MO	17	24	32	43	58	76	98	124	152	182	212	240	266	287	305	319	330	338	348	353
1035	Appliances	ENERGY STAR Most Efficient Dehumidifier	MFIE	MF	LI	MO	40	51	63	75	88	100	111	120	128	134	138	142	144	146	146	146	146	146	147	147
1036	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	8	7	8	8	7	44	9	7
1037	Appliances	Dehumidifier Recycling	N/A	SF	N/A	Recycle	26	35	48	64	86	112	145	183	225	269	313	355	393	425	451	472	487	500	514	522
1038	Appliances	Dehumidifier Recycling	N/A	MF	N/A	Recycle	4	6	8	11	15	20	25	32	39	47	55	62	69	74	79	83	85	88	90	92
1039	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER1	59	81	111	149	199	261	337	424	522	625	728	825	912	986	1,047	1,096	1,132	1,162	1,195	1,212
1040	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	59	81	111	149	199	261	337	424	522	625
1041	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	81	111	149	199
1042	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER1	127	164	208	256	307	358	406	450	487	518	543	562	576	586	594	593	592	592	598	598
1043	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	127	164	208	256	307	358	406	450	487	518
1044	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	164	208	256	307
1045	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER1	5	7	10	13	18	23	30	38	47	56	65	74	82	89	94	98	102	104	107	109
1046	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	5	7	10	13	18	23	30	38	47	56
1047	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	10	13	18
1048	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER1	81	91	101	110	117	123	127	131	133	135	135	135	135	135	135	135	135	135	136	136
1049	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	81	91	101	110	117	123	127	131	133	135
1050	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	91	101	110	117
1051	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER1	48	66	89	120	160	211	272	343	421	504	588	666	736	796	845	884	914	938	964	979
1052	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	48	66	89	120	160	211	272	343	421	504
1053	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	66	89	120	160
1054	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER1	103	133	168	206	247	289	328	363	393	418	438	453	465	473	479	479	478	478	482	483
1055	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	103	133	168	206	247	289	328	363	393	418
1056	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	133	168	206	247
1057	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER1	4	6	8	11	14	19	24	31	38	45	53	60	66	72	76	79	82	84	87	88
1058	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	4	6	8	11	14	19	24	31	38	45
1059	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	8	11	14
1060	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER1	65	74	82	89	95	99	103	106	108	109	109	109	109	109	109	109	109	109	110	110
1061	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	65	74	82	89	95	99	103	106	108	109
1062	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	74	82	89	95
1063	Appliances	Refrigerator Recycling	N/A	SF	N/A	Recycle	89	122	166	223	298	391	504	636	782	936	1,090	1,235	1,366	1,477	1,569	1,641	1,696	1,739	1,789	1,816
1064	Appliances	Refrigerator Recycling	N/A	MF	N/A	Recycle	4	5	7	10	13	17	22	28	34	41	48	54	60	65	69	72	74	76	78	80
1065	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	NLI	MO	192	263	358	482	643	845	1,089	1,373	1,688	2,021	2,355	2,668	2,950	3,191	3,388	3,544	3,662	3,757	3,865	3,922
1066	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	LI	MO	84	116	157	212	283	372	479	604	743	889	1,036	1,174	1,298	1,404	1,490	1,559	1,611	1,653	1,700	1,725
1067	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	N/A	NC	8	10	13	18	20	21	22	15	19	20	0	0	0	0	0	0	0	618	64	65
1068	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	NLI	MO	6	8	11	15	20	27	34	43	53	64	74	84	93	101	107	112	116	119	122	124
1069	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	LI	MO	10	13	18	24	32	43	55	69	85	102	119	135	149	161	171	179	185	190	195	198
1070	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	36	4	4
1071	Appliances	Freezer Recycling	N/A	SF	N/A	Recycle	89	122	166	223	298	391	504	636	782	936	1,090	1,235	1,366	1,477	1,569	1,641	1,696	1,739	1,789	1,816
1072	Appliances	Freezer Recycling	N/A	MF	N/A	Recycle	4	5	7	10	13	17	22	28	34	41	48	54	60	65	69	72	74	76	78	80
1073	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	NLI	MO	1,034	1,417	1,929	2,602	3,468	4,554	5,871	7,403	9,104	10,901	12,698	14,390	15,907	17,206	18,270	19,109	19,750	20,261	20,841	21,148
1074	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	LI	MO	439	602	819	1,105	1,472	1,934	2,492	3,143	3,865	4,628	5,391	6,109	6,753	7,305	7,757	8,113	8,385	8,602	8,848	8,979
1075	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	N/A	NC	16	20	27	35	40	43	44	30	38	40	0	0	0	0	284	261	273	1,525	370	331
1076	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	NLI	MO	86	118	160	216	288	378	487	614	756	905	1,054	1,194	1,320	1,428	1,516	1,586	1,639	1,682	1,730	1,755
1077	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	LI	MO	78	107	146	197	263	345	445	561	690	826	962	1,090	1,205	1,304	1,384	1,448	1,496	1,535	1,579	1,602
1078	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	N/A	NC	2	3	4	5	6	6	6	4	5	6	0	0	0	0	41	38	39	221	53	48
1079	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	NLI	MO	505	693	943	1,272	1,696	2,226	2,870	3,619	4,450	5,329	6,208	7,035	7,776	8,411	8,932	9,342	9,655	9,905	10,188	10,339
1080	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	LI	MO	178	245	333	449	599	786	1,013	1,278	1,571	1,881	2,192	2,483	2,745	2,970	3,153	3,298	3,408	3,497	3,597	3,650
1081	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	N/A	NC	13	16	21	28	32	35	36	24	30	32	0	0	0	0	228	210	219	1,224	297	265
1082	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	NLI	MO	61	84	114	154	206	270	348	439	540	646	753	853	943	1,020	1,083	1,133	1,171	1,201	1,235	1,254
1083	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	LI	MO	52	71	97	130	174	228	294	371	456	546	636	721	797	862	916	958	990	1,016	1,045	1,060
1084	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	N/A	NC	2	3	4	5	6	6	6	4	5	6	0	0	0	0	40	37	38	215	52	47
1085	Appliances	Heat Pump Dryer	N/A	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1086	Appliances	Heat Pump Dryer	N/A	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1087	Appliances	Heat Pump Dryer	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1088	Appliances	Heat Pump Dryer	N/A	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1089	Appliances	Heat Pump Dryer	N/A	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1090	Appliances	Heat Pump Dryer	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1091	Appliances	Ultrasonic Clothes Dryer	N/A	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1092	Appliances	Ultrasonic Clothes Dryer	N/A	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1093	Appliances	Ultrasonic Clothes Dryer	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1094	Appliances	Ultrasonic Clothes Dryer	N/A	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1095	Appliances	Ultrasonic Clothes Dryer	N/A	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1096	Appliances	Ultrasonic Clothes Dryer	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1097	Appliances	ENERGY STAR Dishwasher	N/A	SF	NLI	MO	1,019	1,396	1,900	2,563	3,417	4,487	5,784	7,294	8,970	10,740	12,512	14,179	15,673	16,953	18,002	18,828	19,459	19,963	20,535	20,837
1098	Appliances	ENERGY STAR Dishwasher	N/A	SF	LI	MO	479	657	894	1,206	1,608	2,112	2,722	3,433	4,221	5,054	5,888	6,672	7,376	7,978	8,471	8,860	9,157	9,394	9,663	9,806
1099	Appliances	ENERGY STAR Dishwasher	N/A	SF	N/A	NC	13	15	21	28	31	34	35	23	29	31	0	174	169	185	193	173	147	1,096	167	170
1100	Appliances	ENERGY STAR Dishwasher	N/A	MF	NLI	MO	123	169	230	311	414	544	701	884	1,087	1,302	1,516	1,718	1,900	2,055	2,182	2,282	2,358	2,419	2,489	2,525
1101	Appliances	ENERGY STAR Dishwasher	N/A	MF	LI	MO	139	191	260	350	467	613	791	997	1,226	1,468	1,710	1,938	2,142	2,317	2,460	2,573	2,660	2,728	2,807	2,848
1102	Appliances	ENERGY STAR Dishwasher	N/A	MF	N/A	NC	2	3	4	5	6	6	6	4	5	5	0	31	30	32	34	30	26	192	29	30
2001	Behavior	Home Energy Reports	N/A	SF	NLI	MO	14,254	19,539	26,592	35,869	47,818	62,792	80,939	102,066	125,511	150,287	175,074	198,396	219,313	237,223	251,892	263,457	272,290	279,335	287,337	291,573
2002	Behavior	Home Energy Reports	N/A	SF	LI	MO	6,708	9,195	12,514	16,879	22,503	29,549	38,089	48,031	59,064	70,723	82,388	93,363	103,206	111,634	118,537	123,980	128,136	131,452	135,217	137,211
2003	Behavior	Home Energy Reports	N/A	SF	N/A	NC	50	128	256	453	727	1,085	1,533	2,023	2,602	3,235	3,766	4,270	4,723	5,112	5,434	5,691	5,891	9,876	10,460	11,007
2004	Behavior	Home Energy Reports	N/A	MF	NLI	MO	1,728	2,368	3,223	4,347	5,796	7,610	9,810	12,370	15,212	18,215	21,219	24,045	26,581	28,751	30,529	31,931	33,001	33,855	34,825	35,338
2005	Behavior	Home Energy Reports	N/A	MF	LI	MO	1,948	2,670	3,634	4,902	6,535	8,582	11,062	13,949	17,154	20,540	23,928	27,115	29,974	32,422	34,426	36,007	37,214	38,177	39,271	39,850
2006	Behavior	Home Energy Reports	N/A	MF	N/A	NC	9	22	45	79	127	190	269	355	456	567	660	749	828	896	953	998	1,033	1,732	1,834	1,930
3001	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3002	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	323	324	308	277	239	198	158	123	94	71	52	0	0	0	0	0	0	0	0	0
3003	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	3	4	5	5	5	7	8	10	11	11	11	11	10	8	7	5	4	3	2	2
3004	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3005	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3006	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	SFIE	SF	LI	Retrofit	603	605	574	518	446	369	295	230	175	132	98	0	0	0	0	0	0	0	0	0
3007	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3008	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3009	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3010	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	SFIE	SF	LI	Retrofit	119	119	113	102	88	72	58	45	34	26	19	0	0	0	0	0	0	0	0	0
3011	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	0	0
3012	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3013	Building Shell	Door Sweep	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3014	Building Shell	Door Sweep	SFIE	SF	LI	Retrofit	1,077	1,080	1,025	925	797	659	527	411	313	235	174	0	0	0	0	1,077	1,080	1,025	925	797
3015	Building Shell	Door Sweep	PAYS	MF	NLI	Retrofit	18	21	24	25	25	24	22	19	15	12	10	7	5	4	0	14	17	18	19	20
3016	Building Shell	Door Sweep	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3017	Building Shell	Weatherstripping: 17' Roll	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3018	Building Shell	Weatherstripping: 17' Roll	SFIE	SF	LI	Retrofit	1,077	1,080	1,025	925	797	659	527	411	313	235	174	0	0	0	0	0	0	0	0	0
3019	Building Shell	Weatherstripping: 17' Roll	N/A	MF	NLI	Retrofit	5	5	6	7	9	10	11	12	12	11	10	9	7	6	5	3	3	2	0	0
3020	Building Shell	Weatherstripping: 17' Roll	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3021	Building Shell	Duct Insulation - Electric Heating	PAYS	SF	NLI	Retrofit	306	460	512	550	607	761	923	1,075	1,195	1,262	1,263	1,196	1,076	924	762	608	473	360	273	202
3022	Building Shell	Duct Insulation - Electric Heating	SFIE	SF	LI	Retrofit	311	390	474	552	615	650	651	618	556	478	395	316	245	187	140	104	0	0	0	0
3023	Building Shell	Duct Insulation - Gas Heating	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3024	Building Shell	Duct Insulation - Gas Heating	SFIE	SF	LI	Retrofit	664	775	862	912	914	868	782	673	556	445	346	264	198	146	0	0	0	0	0	0
3025	Building Shell	Duct Repair (Sealing) - Electric Heating SF	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3026	Building Shell	Duct Repair (Sealing) - Electric Heating SF	SFIE	SF	LI	Retrofit	447	473	474	450	406	349	289	231	180	137	103	76	0	0	0	0	0	0	0	0
3027	Building Shell	Duct Repair (Sealing) - Gas Heating SF	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3028	Building Shell	Duct Repair (Sealing) - Gas Heating SF	SFIE	SF	LI	Retrofit	834	882	884	840	757	652	539	431	336	256	192	142	0	0	0	0	0	0	0	0
3029	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3030	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	MFIE	MF	LI	Retrofit	26	28	31	39	47	55	61	65	65	62	55	48	39	31	24	19	14	10	0	0
3031	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3032	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	MFIE	MF	LI	Retrofit	16	18	19	24	30	34	38	40	40	38	35	30	24	20	15	12	9	6	0	0
3033	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3034	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	31	28	24	20	16	12	9	7	5	0	0	0	0	0	0	0	0	0	0	0
3035	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3036	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	59	53	46	38	30	24	18	14	10	0	0	0	0	0	0	0	0	0	0	0
3037	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3038	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	11	10	9	7	6	4	3	3	2	0	0	0	0	0	0	0	0	0	0	0
3039	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3040	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	3	3	3	4	5	6	6	7	7	6	6	5	4	3	3	2	1	1	0	0
3041	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3042	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2	2	2	3	3	4	4	4	4	4	4	3	3	2	2	1	1	1	0	0
3043	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3044	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	0	0	0	0	0
3045	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3046	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	73	66	57	47	38	29	22	17	13	0	0	0	0	0	0	0	0	0	0	0
3047	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3048	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	135	122	105	87	70	54	41	31	23	0	0	0	0	0	0	0	0	0	0	0
3049	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3050	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	27	24	21	17	14	11	8	6	5	0	0	0	0	0	0	0	0	0	0	0
3051	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	14	15	19	23	27	30	31	31	30	27	23	19	15	12	9	7	5	0	0	0
3052	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	8	9	10	12	15	17	19	20	20	19	17	15	12	10	8	6	4	3	0	0
3053	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3054	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	5	5	6	8	9	11	12	13	13	12	11	9	8	6	5	4	3	2	0	0
3055	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	3	3	4	5	6	7	7	7	7	6	5	4	3	3	2	2	2	1	0	0
3056	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	2	2	2	3	4	4	5	5	5	5	4	4	3	2	2	1	1	1	0	0
3057	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3058	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	68	61	53	44	35	27	21	16	12	0	0	0	0	0	0	0	0	0	0	0
3059	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3060	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	128	115	99	82	66	51	39	29	22	0	0	0	0	0	0	0	0	0	0	0
3061	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3062	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	25	22	19	16	13	10	8	6	4	0	0	0	0	0	0	0	0	0	0	0
3063	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	10	11	14	17	20	22	23	23	22	20	17	14	11	9	7	5	4	0	0	0
3064	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	6	7	7	9	11	13	14	15	15	14	13	11	9	7	6	4	3	2	0	0
3065	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3066	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	4	4	5	6	7	8	9	9	9	9	8	7	6	5	4	3	2	2	0	0
3067	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	2	3	3	4	4	5	5	5	5	4	4	3	3	2	2	1	1	1	0	0
3068	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	2	2	2	3	3	3	4	4	3	3	3	2	2	1	1	1	1	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3069	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3070	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	47	42	36	30	24	19	14	11	8	0	0	0	0	0	0	0	0	0	0	0
3071	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3072	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	87	78	67	56	45	35	27	20	15	0	0	0	0	0	0	0	0	0	0	0
3073	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3074	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	17	16	13	11	9	7	5	4	3	0	0	0	0	0	0	0	0	0	0	0
3075	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	7	8	10	12	14	15	16	16	15	14	12	10	8	6	5	3	3	0	0	0
3076	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	4	5	5	6	8	9	10	10	10	10	9	8	6	5	4	3	2	2	0	0
3077	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3078	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	3	3	3	4	5	5	6	6	6	6	5	5	4	3	2	2	1	1	0	0
3079	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3080	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	1	2	2	2	2	3	3	2	2	2	2	1	1	1	1	0	0	0
3081	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3082	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	37	33	29	24	19	15	11	8	6	0	0	0	0	0	0	0	0	0	0	0
3083	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3084	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	68	61	53	44	35	27	21	16	12	0	0	0	0	0	0	0	0	0	0	0
3085	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3086	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	13	12	10	9	7	5	4	3	2	0	0	0	0	0	0	0	0	0	0	0
3087	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3088	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	3	4	4	5	6	7	8	8	8	8	7	6	5	4	3	2	2	1	0	0
3089	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3090	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	2	2	2	3	4	4	5	5	5	5	4	4	3	2	2	1	1	1	0	0
3091	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3092	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0
3093	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Heat Pump Heating	SFIE	SF	LI	Retrofit	72	79	99	120	140	156	165	165	157	141	121	100	80	62	47	107	105	99	120	140
3094	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Non-Electric Heating	SFIE	SF	LI	Retrofit	365	403	505	613	714	795	840	841	798	718	618	510	407	317	241	545	536	505	613	714
3095	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Heat Pump Heating	SFIE	SF	LI	Retrofit	32	36	45	54	63	70	74	74	71	64	55	45	36	28	21	48	47	45	54	63
3096	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Non-Electric Heating	SFIE	SF	LI	Retrofit	164	181	227	276	322	358	379	379	359	324	278	230	183	143	109	246	242	227	276	322
3097	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Heat Pump Heating	SFIE	SF	LI	Retrofit	23	26	32	39	45	51	53	53	51	46	39	32	26	20	15	35	34	32	39	45
3098	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Non-Electric Heating	SFIE	SF	LI	Retrofit	118	130	163	198	231	257	272	272	258	232	200	165	132	102	78	176	173	163	198	231
3099	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Heat Pump Heating	SFIE	SF	LI	Retrofit	132	145	182	221	258	287	304	304	288	260	223	184	147	114	87	197	194	182	221	258
3100	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Non-Electric Heating	SFIE	SF	LI	Retrofit	671	741	929	1,127	1,315	1,463	1,547	1,549	1,468	1,322	1,137	938	749	583	444	1,003	987	929	1,127	1,315
3101	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Heat Pump Heating	MFIE	MF	LI	Retrofit	53	61	68	72	73	69	62	53	44	35	27	21	16	12	0	53	61	68	72	73
3102	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Non-Electric Heating	MFIE	MF	LI	Retrofit	99	115	128	136	136	129	116	100	83	66	51	39	29	22	0	99	115	128	136	136
3103	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Heat Pump Heating	MFIE	MF	LI	Retrofit	26	27	27	26	23	20	17	13	10	8	6	4	0	0	0	26	27	27	26	23
3104	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Non-Electric Heating	MFIE	MF	LI	Retrofit	99	115	128	136	136	129	116	100	83	66	51	39	29	22	0	99	115	128	136	136
3105	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Heat Pump Heating	MFIE	MF	LI	Retrofit	16	17	17	16	15	13	10	8	6	5	4	3	0	0	0	16	17	17	16	15
3106	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Non-Electric Heating	MFIE	MF	LI	Retrofit	98	114	127	134	135	128	115	99	82	65	51	39	29	22	0	98	114	127	134	135
3107	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Heat Pump Heating	MFIE	MF	LI	Retrofit	53	61	68	72	73	69	62	53	44	35	27	21	16	12	0	53	61	68	72	73
3108	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Non-Electric Heating	MFIE	MF	LI	Retrofit	99	115	128	136	136	129	116	100	83	66	51	39	29	22	0	99	115	128	136	136
3109	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3110	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	35	39	42	42	40	36	31	25	20	16	12	9	7	0	0	0	0	0	0	0
3111	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3112	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	26	31	34	36	36	34	31	27	22	18	14	10	8	6	0	0	0	0	0	0
3113	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3114	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	11	12	13	13	12	11	9	8	6	5	4	3	2	0	0	0	0	0	0	0
3115	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	96	145	161	173	191	240	291	339	376	398	398	377	339	291	240	192	149	113	86	64
3116	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	166	194	216	228	229	217	196	168	139	111	87	66	49	37	0	0	0	0	0	0
3117	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3118	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	685	763	807	809	768	693	596	493	394	307	234	175	130	0	0	0	0	0	0	0
3119	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	50	76	85	91	100	126	152	177	197	208	208	197	177	152	126	100	78	59	45	33
3120	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	62	72	80	85	85	81	73	63	52	41	32	25	18	14	0	0	0	0	0	0
3121	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3122	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3123	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3124	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3125	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3126	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3127	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3128	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3129	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3130	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3131	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3132	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3133	Building Shell	Wall Insulation - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3134	Building Shell	Wall Insulation - Heat pump	N/A	SF	LI	Retrofit	5	6	7	9	11	12	12	12	12	11	9	8	6	5	4	3	2	0	0	0
3135	Building Shell	Wall Insulation - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3136	Building Shell	Wall Insulation - Heat pump	N/A	MF	LI	Retrofit	2	3	3	3	3	3	3	3	3	2	2	1	1	1	1	0	0	0	0	0
3137	Building Shell	Wall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3138	Building Shell	Wall Insulation - Electric furnace	N/A	SF	LI	Retrofit	15	16	20	25	29	32	34	34	32	29	25	21	16	13	10	7	5	0	0	0
3139	Building Shell	Wall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	0	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	0	0
3140	Building Shell	Wall Insulation - Electric furnace	N/A	MF	LI	Retrofit	9	10	12	13	14	14	14	12	10	9	7	5	4	3	2	0	0	0	0	0
3141	Building Shell	Wall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3142	Building Shell	Wall Insulation - Gas Heating	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3143	Building Shell	Wall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3144	Building Shell	Wall Insulation - Gas Heating	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3145	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3146	Building Shell	Spray Foam Insulation: 12 oz. Can	SFIE	SF	LI	Retrofit	1,077	1,080	1,025	925	797	659	527	411	313	235	174	0	0	0	0	0	0	0	0	0
3147	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	N/A	NC	40	48	66	87	99	106	109	74	92	97	0	0	0	0	0	0	0	3,066	318	322
3148	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	NLI	Retrofit	18	21	24	25	25	24	22	19	15	12	10	7	5	4	0	0	0	0	0	0
3149	Building Shell	Spray Foam Insulation: 12 oz. Can	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3150	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	N/A	NC	5	6	8	10	12	13	13	9	11	12	0	0	0	0	0	0	0	366	38	38
3151	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3152	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	110	139	168	196	218	231	231	219	197	170	140	112	87	66	50	37	0	0	0	0
3153	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3154	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	29	31	34	43	52	60	67	71	71	67	61	52	43	34	27	20	15	11	0	0
3155	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	94	141	157	168	186	233	282	329	366	386	386	366	329	283	233	186	145	110	83	62
3156	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	108	135	164	191	213	225	226	214	193	166	137	109	85	65	49	36	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3157	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	33	50	55	59	66	82	100	116	129	137	137	129	116	100	82	66	51	39	29	22
3158	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	394	375	338	291	241	193	150	115	86	64	0	0	0	0	0	0	0	0	0	0
3159	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3160	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	105	132	160	187	208	220	220	209	188	162	134	107	83	63	47	35	0	0	0	0
3161	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3162	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	27	29	32	41	49	57	64	67	67	64	58	49	41	33	25	19	14	11	0	0
3163	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	94	141	157	168	186	233	282	329	365	386	386	366	329	282	233	186	144	110	83	62
3164	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	108	135	164	191	213	225	225	214	193	166	137	109	85	65	49	36	0	0	0	0
3165	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	33	50	55	59	66	82	100	116	129	136	137	129	116	100	82	66	51	39	29	22
3166	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	394	374	337	291	240	192	150	114	86	64	0	0	0	0	0	0	0	0	0	0
3167	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3168	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	219	275	334	390	434	459	459	436	392	337	279	223	173	132	99	73	0	0	0	0
3169	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3170	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	19	20	23	28	34	40	44	47	47	45	40	34	28	23	18	13	10	7	0	0
3171	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3172	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	201	252	306	357	398	420	421	399	360	309	256	204	159	121	91	67	0	0	0	0
3173	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3174	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	17	19	21	26	31	37	41	43	43	41	37	32	26	21	16	12	9	7	0	0
3175	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3176	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	183	229	278	325	361	382	383	363	327	281	232	186	144	110	82	61	0	0	0	0
3177	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3178	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	16	17	19	24	29	33	37	39	39	37	33	29	24	19	15	11	8	6	0	0
3179	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3180	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	201	252	306	357	398	420	421	399	360	309	256	204	159	121	91	67	0	0	0	0
3181	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3182	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	17	19	21	26	31	37	41	43	43	41	37	32	26	21	16	12	9	7	0	0
3183	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3184	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	41	51	62	72	81	85	85	81	73	63	52	41	32	25	18	14	0	0	0	0
3185	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3186	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	7	7	8	10	12	14	15	16	16	15	14	12	10	8	6	5	3	3	0	0
3187	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	49	74	82	88	97	122	148	172	191	202	202	192	172	148	122	97	76	58	44	32
3188	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	40	50	60	70	78	83	83	78	71	61	50	40	31	24	18	13	0	0	0	0
3189	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	8	11	13	14	15	19	23	27	29	31	31	29	27	23	19	15	12	9	7	5
3190	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	80	66	53	41	32	24	18	0	0	0	0	0	0	0	0	0	0	0	0	0
3191	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3192	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	38	48	58	68	76	80	80	76	68	59	49	39	30	23	17	13	0	0	0	0
3193	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3194	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	6	7	7	9	11	13	14	15	15	14	13	11	9	7	6	4	3	2	0	0
3195	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	49	74	82	88	97	122	148	172	191	202	202	192	172	148	122	97	76	58	44	32
3196	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	40	50	60	70	78	83	83	78	71	61	50	40	31	24	18	13	0	0	0	0
3197	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	8	11	13	14	15	19	23	27	29	31	31	29	27	23	19	15	12	9	7	5
3198	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	80	66	53	41	32	24	18	0	0	0	0	0	0	0	0	0	0	0	0	0
3199	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3200	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3201	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3202	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3203	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3204	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3205	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3206	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3207	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3208	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3209	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3210	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3211	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3212	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3213	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3214	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3215	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3216	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3217	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	NLI	Retrofit	10	15	17	18	20	25	31	36	40	42	50	51	49	45	41	40	39	39	39	39
3218	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	LI	Retrofit	33	49	55	59	65	82	99	116	129	136	161	167	158	145	132	128	127	128	128	126
3219	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3220	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3221	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3222	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3223	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3224	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3225	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3226	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3227	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	466	701	780	838	924	1,159	1,405	1,637	1,820	1,922	1,923	1,821	1,638	1,407	1,161	926	719	548	415	308
3228	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	82	123	137	147	162	203	246	287	319	337	337	319	287	247	204	162	126	96	73	54
3229	Building Shell	Floor Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3230	Building Shell	Floor Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3231	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	466	701	780	838	924	1,159	1,405	1,637	1,820	1,922	1,923	1,821	1,638	1,407	1,161	926	719	548	415	308
3232	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	82	123	137	147	162	203	246	287	319	337	337	319	287	247	204	162	126	96	73	54
3233	Building Shell	Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3234	Building Shell	Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	NLI	MO	105	122	139	154	167	177	186	193	198	202	205	180	176	172	169	166	163	161	161	160
4002	HVAC	ASHP-SEER15_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4003	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	N/A	NC	1	1	2	2	3	3	3	2	2	2	0	0	0	0	0	0	0	79	28	26
4004	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4005	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4006	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4007	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4008	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4009	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4010	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4011	HVAC	ASHP-SEER15_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4012	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4013	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4014	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	3	3	3
4015	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4016	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER1	32	36	40	43	46	48	50	51	52	53	53	53	53	53	53	53	53	53	53	53
4017	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	32	36	40	43	46	48	50	51
4018	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	36
4019	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	NLI	MO	83	96	110	121	132	140	147	152	157	160	162	143	139	136	133	131	129	127	127	126
4020	HVAC	ASHP-SEER16_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4021	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	23	8	8
4022	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER1	20	23	26	29	32	34	35	37	38	38	39	39	39	39	39	39	39	39	39	39
4023	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	20	23	26	29	32	34	35	37
4024	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	23
4025	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER1	2	3	4	5	7	9	12	15	18	22	25	29	32	34	36	38	39	40	42	42
4026	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	7	9	12	15
4027	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4028	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	NLI	MO	4	4	5	5	6	6	6	7	7	7	7	6	6	6	6	6	6	6	6	6
4029	HVAC	ASHP-SEER16_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4030	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4031	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4032	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	3	3
4033	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4034	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER1	32	36	40	43	46	48	50	51	52	53	53	53	53	53	53	53	53	53	53	53
4035	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	32	36	40	43	46	48	50	51
4036	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	36
4037	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	NLI	MO	79	93	105	117	126	135	141	146	150	153	155	137	134	131	128	126	124	122	122	121
4038	HVAC	ASHP-SEER17_ROF_SF	PAYS	SF	LI	MO	2	3	4	6	8	10	13	17	20	24	28	32	36	39	41	43	44	45	47	47
4039	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	21	8	7
4040	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER1	22	25	29	32	34	37	39	40	41	42	42	42	42	42	42	42	42	42	43	43
4041	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	22	25	29	32	34	37	39	40
4042	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	25
4043	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER1	2	3	4	6	8	10	13	16	20	24	28	31	35	37	40	41	43	44	45	46
4044	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	6	8	10	13	16
4045	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4046	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	NLI	MO	3	4	4	5	5	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5
4047	HVAC	ASHP-SEER17_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4048	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4049	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4050	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4051	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4052	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER1	18	20	22	23	24	25	26	26	27	27	27	27	27	27	27	27	27	27	27	27
4053	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	18	20	22	23	24	25	26	26
4054	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	20
4055	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	NLI	MO	68	80	91	101	109	116	122	126	130	132	134	118	115	113	110	108	107	105	105	105
4056	HVAC	ASHP-SEER18_ROF_SF	PAYS	SF	LI	MO	3	4	5	7	9	12	15	19	24	29	33	38	42	45	48	50	52	53	55	56
4057	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	18	6	6
4058	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER1	26	30	34	38	41	44	46	48	49	50	51	51	51	51	51	50	50	50	51	51
4059	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	26	30	34	38	41	44	46	48
4060	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	30
4061	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER1	3	4	5	7	9	12	15	19	24	28	33	37	41	45	47	50	51	53	54	55
4062	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	7	9	12	15	19
4063	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
4064	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	NLI	MO	3	3	3	4	4	4	5	5	5	5	5	4	4	4	4	4	4	4	4	4
4065	HVAC	ASHP-SEER18_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4066	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
4067	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4068	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	3	3	3
4069	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4070	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER1	21	24	26	27	29	30	31	31	32	32	32	32	32	32	32	31	31	31	32	32
4071	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	21	24	26	27	29	30	31	31
4072	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	24
4073	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	NLI	MO	60	70	80	88	96	102	107	111	114	116	118	104	101	99	97	95	94	92	92	92
4074	HVAC	ASHP-SEER19_ROF_SF	PAYS	SF	LI	MO	3	4	6	8	10	13	17	22	27	32	37	42	46	50	53	56	58	59	61	62
4075	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	15	5	5
4076	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER1	30	35	40	44	48	51	53	55	57	58	59	59	59	58	58	58	58	58	59	59
4077	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	30	35	40	44	48	51	53	55
4078	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	35
4079	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER1	3	4	6	8	10	14	18	22	27	33	38	43	48	52	55	57	59	61	63	63
4080	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	8	10	14	18	22
4081	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
4082	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	NLI	MO	2	2	3	3	3	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3
4083	HVAC	ASHP-SEER19_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4084	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4085	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4086	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4087	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4088	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER1	10	11	11	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13
4089	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	10	11	11	12	12	12	13	13
4090	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	11
4091	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	NLI	MO	62	72	82	91	99	105	110	114	117	120	121	107	104	102	100	98	97	95	95	95
4092	HVAC	ASHP-SEER20_ROF_SF	PAYS	SF	LI	MO	3	4	6	8	10	14	18	22	27	33	38	43	48	52	55	57	59	61	63	64
4093	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	15	6	5
4094	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER1	24	27	31	35	38	40	42	43	45	45	46	46	46	46	46	46	46	46	46	46
4095	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	24	27	31	35	38	40	42	43
4096	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	27
4097	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER1	2	3	5	6	8	11	14	17	21	26	30	34	38	41	43	45	47	48	49	50
4098	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	6	8	11	14	17

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4099	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4100	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	NLI	MO	2	3	3	3	3	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3
4101	HVAC	ASHP-SEER20_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4102	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4103	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4104	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4105	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4106	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER1	10	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
4107	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	10	11	12	12	13	13	13	13
4108	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	11
4109	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	NLI	MO	78	91	103	114	124	132	138	143	147	150	152	134	131	128	125	123	121	120	120	119
4110	HVAC	ASHP-SEER21_ROF_SF	PAYS	SF	LI	MO	4	5	7	10	13	17	22	28	34	41	48	54	60	65	69	72	74	76	78	80
4111	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	N/A	NC	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	21	8	7
4112	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER1	29	34	39	43	47	50	52	54	56	57	58	58	58	58	57	57	57	57	58	58
4113	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	29	34	39	43	47	50	52	54
4114	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	34
4115	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER1	3	4	6	8	10	13	17	22	27	32	37	42	47	51	54	56	58	60	62	62
4116	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	8	10	13	17	22
4117	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
4118	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	NLI	MO	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3
4119	HVAC	ASHP-SEER21_ROF_MF	PAYS	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4120	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4121	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4122	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4123	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4124	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER1	11	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
4125	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	11	11	12	12	13	13	13	13
4126	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
4127	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	NLI	MO	21	25	28	31	34	36	38	39	40	41	42	37	36	35	34	34	33	33	33	33
4128	HVAC	GSHP-EER23_ROF_SF	PAYS	SF	LI	MO	2	3	5	6	8	11	14	18	22	26	30	34	38	41	44	46	47	49	50	51
4129	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1
4130	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4131	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4132	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4133	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4134	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4135	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4136	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	NLI	MO	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4137	HVAC	DFHP-SEER19-ROF_MF	MFIE	MF	LI	MO	7	7	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
4138	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4139	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	NLI	MO	2	2	3	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3
4140	HVAC	DFHP-SEER20-ROF_MF	MFIE	MF	LI	MO	10	12	13	14	15	16	17	17	17	18	18	18	18	18	18	17	17	17	18	18
4141	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4142	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	NLI	MO	3	3	4	4	4	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4
4143	HVAC	DFHP-SEER21-ROF_MF	MFIE	MF	LI	MO	13	15	17	18	20	21	21	22	22	23	23	23	23	23	23	23	22	22	23	23
4144	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4145	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	NLI	MO	55	65	74	81	88	94	99	102	105	107	109	96	93	91	89	88	86	85	85	85
4146	HVAC	Mini/MultiSplitASHP_ROF_SF	SFIE	SF	LI	MO	4	5	7	9	11	13	15	17	19	21	22	23	24	25	25	25	25	25	25	25
4147	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	5	5
4148	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER1	32	37	42	47	51	54	57	59	60	61	62	62	62	62	62	62	62	62	63	63
4149	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	32	37	42	47	51	54	57	59
4150	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	37
4151	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER1	4	6	7	9	11	14	16	18	20	22	23	24	25	26	26	27	26	26	27	27
4152	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	4	6	7	9	11	14	16	18
4153	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6
4154	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	NLI	MO	2	2	3	3	3	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3
4155	HVAC	Mini/MultiSplitASHP_ROF_MF	PAYS	MF	LI	MO	1	1	1	2	2	3	4	5	6	7	8	9	10	11	12	12	13	13	13	14
4156	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4157	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	3	3
4158	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2
4159	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4160	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER1	0	0	1	1	1	2	2	2	3	3	4	4	4	5	5	5	5	5	5	5
4161	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2
4162	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4163	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	NLI	MO	2	3	3	3	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4
4164	HVAC	PTHP-SEER12-ROF_MF	MFIE	MF	LI	MO	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4165	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4166	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER1	4	5	5	6	6	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
4167	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	4	5	5	6	6	7	7	7	7	8
4168	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	5	6	6
4169	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4170	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
4171	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
4172	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	NLI	MO	3	4	5	5	6	6	6	6	7	7	7	6	6	6	6	6	5	5	5	5
4173	HVAC	PTHP-SEER13-ROF_MF	MFIE	MF	LI	MO	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4174	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4175	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER1	4	5	5	6	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
4176	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	4	5	5	6	7	7	7	8	8	8
4177	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	5	6	7
4178	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4179	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
4180	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
4181	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	NLI	MO	5	6	7	7	8	8	9	9	9	10	10	9	8	8	8	8	8	8	8	8
4182	HVAC	PTHP-SEER14-ROF_MF	MFIE	MF	LI	MO	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4183	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	1	1
4184	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER1	4	5	6	6	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4185	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	4	5	6	6	7	7	8	8	8	8
4186	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	6	6	7

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4187	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4188	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
4189	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
4190	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	NLI	MO	6	7	8	9	10	11	11	12	12	12	12	11	11	10	10	10	10	10	10	10
4191	HVAC	PTHP-SEER15-ROF_MF	MFIE	MF	LI	MO	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4192	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	1	1
4193	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER1	4	5	6	7	7	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9
4194	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	4	5	6	7	7	8	8	8	8	9
4195	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	6	7	7
4196	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4197	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
4198	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
4199	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	6	8	11	15	20	26	34	43	53	63	74	83	92	100	106	111	115	117	121	123
4200	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	3	4	6	8	11	14	19	24	29	35	40	46	50	55	58	61	63	64	66	67
4201	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	29	10	10
4202	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	3	4	6	8	11	14	18	23	28	34	40	45	50	54	57	60	62	63	65	66
4203	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	8	11	14	18	23
4204	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
4205	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	2	3	4	5	7	9	12	15	19	22	26	30	33	35	37	39	41	42	43	43
4206	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	7	9	12	15
4207	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4208	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	6	8	12	16	21	27	35	44	55	65	76	86	95	103	109	115	118	121	125	127
4209	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	15	20	27	36	46	58	71	86	100	113	125	135	144	150	156	159	162	164	166	166
4210	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	33	12	11
4211	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	4	5	7	10	13	17	22	28	34	41	48	54	60	65	69	72	74	76	78	80
4212	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	4	5	7	10	13	17	22	28
4213	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5
4214	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	4	6	8	10	13	16	20	24	28	31	35	38	40	42	43	44	45	46	46	46
4215	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	4	6	8	10	13	16	20	24
4216	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6
4217	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	5	7	10	14	18	24	31	39	48	58	67	76	84	91	97	101	104	107	110	112
4218	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	3	4	6	8	10	13	17	22	27	32	37	42	47	51	54	56	58	60	61	62
4219	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	26	9	9
4220	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	1	2	3	4	5	6	8	10	13	15	18	20	22	24	26	27	28	29	29	30
4221	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	8	10
4222	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4223	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	1	1	2	3	4	5	6	8	10	11	13	15	17	18	19	20	21	21	22	22
4224	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	4	5	6	8
4225	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4226	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	3	4	5	7	10	13	16	20	25	30	35	40	44	47	50	53	54	56	57	58
4227	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	7	10	13	17	22	27	34	41	47	54	59	64	68	71	74	76	77	78	79	79
4228	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	30	11	10
4229	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	2	2	3	4	6	7	10	12	15	18	21	23	26	28	30	31	32	33	34	34
4230	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	4	6	7	10	12
4231	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
4232	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23	23	23
4233	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10	12
4234	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4235	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	3	4	5	7	9	12	15	19	24	29	33	38	42	45	48	50	52	53	55	55
4236	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	2	2	3	4	5	7	9	11	14	16	19	21	24	26	27	28	29	30	31	31
4237	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	26	9	9
4238	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	1	2	3	3	5	6	8	10	12	15	17	19	21	23	24	26	26	27	28	28
4239	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	5	6	8	10
4240	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4241	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	1	2	2	3	4	5	7	8	10	12	14	16	18	19	20	21	22	23	23	24
4242	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	7	8
4243	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4244	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	2	3	5	6	8	11	14	18	22	26	31	35	38	41	44	46	47	49	50	51
4245	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	6	8	11	15	19	24	29	35	41	47	52	56	59	62	64	66	67	68	68	69
4246	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	26	10	9
4247	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	1	2	2	3	4	6	7	9	12	14	16	18	20	22	23	24	25	26	27	27
4248	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	6	7	9
4249	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4250	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23	23	23
4251	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10	12
4252	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4253	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	3	4	5	6	9	11	15	18	23	27	31	36	39	43	45	47	49	50	52	52
4254	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	1	2	3	4	5	6	8	10	13	15	18	20	22	24	26	27	28	29	29	30
4255	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	24	9	8
4256	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	1	2	3	3	5	6	8	10	12	14	17	19	21	23	24	25	26	27	27	28
4257	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	5	6	8	10
4258	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4259	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	1	2	2	3	4	6	7	9	11	14	16	18	20	22	23	24	25	26	26	27
4260	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	6	7	9
4261	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4262	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	3	4	5	7	9	12	16	20	25	30	34	39	43	47	50	52	54	55	57	57
4263	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	7	10	13	17	22	27	34	40	47	53	59	64	68	71	73	75	76	77	78	78
4264	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	30	11	10
4265	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	1	2	2	3	4	5	7	9	11	13	15	17	19	20	22	23	24	24	25	25
4266	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	7	9
4267	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4268	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23	23	23
4269	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10	12
4270	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4271	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	2	3	5	6	8	11	14	17	21	26	30	34	37	40	43	45	46	47	49	50
4272	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	1	2	3	4	5	6	8	10	12	15	17	19	21	23	25	26	27	27	28	28
4273	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	23	8	8
4274	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	1	2	2	3	4	6	8	10	12	14	16	19	21	22	24	25	25	26	27	27

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4275	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	6	8	10
4276	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4277	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	2	2	3	4	5	7	9	12	14	17	20	23	25	27	29	30	31	32	33	33
4278	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	4	5	7	9	12
4279	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
4280	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	2	3	4	5	7	9	12	15	18	22	26	29	32	35	37	39	40	41	42	43
4281	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	5	7	9	12	16	20	25	30	35	40	44	47	50	53	54	56	57	57	58	58
4282	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	22	8	7
4283	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	1	2	2	3	4	5	6	8	10	12	14	15	17	19	20	21	21	22	22	23
4284	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	6	8
4285	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4286	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23	23	23
4287	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10	12
4288	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4289	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	2	3	5	6	8	11	14	17	21	26	30	34	37	40	43	45	46	47	49	50
4290	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	1	2	3	3	5	6	8	10	12	15	17	19	21	23	25	26	27	27	28	28
4291	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	23	8	8
4292	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	1	2	2	3	4	5	7	9	11	13	15	17	19	20	21	22	23	24	24	25
4293	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	7	9
4294	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4295	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	1	2	2	3	4	5	7	8	10	12	14	16	18	19	21	22	22	23	24	24
4296	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	7	8
4297	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4298	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	2	3	4	6	8	10	13	16	20	24	28	31	35	37	40	42	43	44	45	46
4299	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	6	8	10	13	17	22	27	32	38	43	47	51	54	57	59	60	61	62	63	63
4300	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	24	9	8
4301	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	1	2	2	3	4	5	6	8	10	12	14	16	17	19	20	21	21	22	23	23
4302	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	6	8
4303	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4304	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23	23	23
4305	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10	12
4306	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4307	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	3	4	5	7	9	12	15	19	23	28	32	37	40	44	46	49	50	51	53	54
4308	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	2	2	3	4	5	7	9	11	13	16	19	21	23	25	27	28	29	30	31	31
4309	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	25	9	8
4310	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	1	2	2	3	4	6	8	10	12	14	16	19	20	22	24	25	25	26	27	27
4311	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	6	8	10
4312	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4313	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	1	2	3	4	5	7	8	11	13	16	18	21	23	25	26	28	29	29	30	31
4314	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	7	8	11
4315	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4316	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	2	3	4	5	7	9	12	15	19	22	26	29	32	35	37	39	40	41	42	43
4317	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	5	7	10	13	16	20	25	30	35	40	44	48	51	53	55	56	57	58	59	59
4318	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	22	8	7
4319	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	1	2	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23
4320	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	5	6	8
4321	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
4322	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	2	3	4	5	6	8	10	12	14	16	17	19	20	21	22	22	23	23	23	23
4323	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10	12
4324	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4325	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	NLI	MO	0	0	1	1	1	1	2	2	2	3	3	4	4	5	5	5	5	6	6	6
4326	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	MFIE	MF	LI	MO	2	2	3	4	5	7	8	10	12	13	15	16	17	18	18	19	19	19	19	19
4327	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1
4328	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER1	0	0	0	1	1	1	1	2	2	2	3	3	4	4	4	4	4	5	5	5
4329	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2
4330	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4331	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER1	1	1	2	2	3	3	4	5	6	6	7	8	8	9	9	9	9	9	9	9
4332	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	3	4	5
4333	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4334	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	3	5	6	8	11	14	18	22	26	31	35	38	41	44	46	48	49	50	51	50
4335	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	5	7	9	11	14	16	19	22	24	26	28	29	30	31	31	32	32	32	32	32
4336	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	35	13	12
4337	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	2	3	4	5	7	9	11	13	16	19	21	23	25	27	28	29	30	30	31	31
4338	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	7	9	11	13
4339	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4340	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	4	5	6	8	9	11	13	15	16	18	19	20	20	21	21	22	22	22	22	22
4341	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	4	5	6	8	9	11	13	15
4342	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5
4343	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	1	2	2	3	4	5	7	8	10	12	14	16	18	19	20	21	22	22	23	23
4344	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	LI	MO	3	4	5	7	9	12	15	19	24	29	33	38	42	45	48	50	52	53	55	55
4345	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	16	6	5
4346	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	1	1	1	1	2	2	3	4	5	5	6	7	8	9	9	10	10	10	10	11
4347	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	3	4
4348	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4349	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER1	2	3	3	5	6	8	10	12	15	17	19	21	23	25	26	27	27	28	28	28
4350	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	5	6	8	10	12
4351	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
4352	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	3	4	6	8	10	13	17	22	27	32	37	42	47	51	54	56	58	60	61	62
4353	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	3	3	5	6	8	10	12	14	17	19	21	23	24	25	26	27	27	28	28	28
4354	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	7	6	36	10	9
4355	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	1	2	3	4	5	6	8	10	12	15	17	19	21	23	25	26	27	27	28	29
4356	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	8	10	12	15
4357	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5
4358	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4	4	4
4359	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	3
4360	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
4361	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	3	4	6	8	10	13	17	22	27	32	37	42	47	51	54	56	58	60	61	62
4362	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	3	3	5	6	8	10	12	15	17	19	21	23	25	26	27	27	28	28	28	28

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4363	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	7	6	36	10	9
4364	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	1	2	3	4	5	6	8	10	13	15	18	20	22	24	25	26	27	28	29	29
4365	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	8	10	13	15
4366	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5
4367	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4	4	4
4368	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	3
4369	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
4370	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	3	4	6	8	10	13	17	22	27	32	37	42	47	51	54	56	58	60	61	62
4371	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	3	4	5	6	8	10	13	15	18	20	22	24	25	27	27	28	29	29	29	29
4372	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	7	6	36	10	9
4373	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	1	2	3	4	5	6	8	10	13	15	18	20	22	24	26	27	28	29	29	30
4374	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	8	10	13	15
4375	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5
4376	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	0	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	4	4	4	4
4377	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	3
4378	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
4379	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	3	4	6	8	10	13	17	22	27	32	37	42	47	51	54	56	58	60	61	62
4380	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	3	4	5	6	8	11	13	16	18	21	23	25	26	27	28	29	29	30	30	30
4381	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	7	6	36	10	9
4382	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	1	2	3	4	5	7	8	11	13	16	18	21	23	25	26	28	29	29	30	31
4383	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	7	8	11	13	16
4384	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5
4385	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	0	1	1	1	1	1	2	2	3	3	3	3	4	4	4	4	4	4	4	4
4386	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	3	3
4387	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
4388	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	NLI	MO	585	683	776	860	933	994	1,042	1,080	1,109	1,130	1,146	1,009	986	964	944	927	912	901	901	895
4389	HVAC	CAC-SEER15_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4390	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	N/A	NC	1	2	2	3	3	3	3	2	3	3	0	0	0	0	0	0	0	96	35	32
4391	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4392	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4393	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4394	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER1	84	110	142	179	220	264	308	349	387	419	445	466	482	494	503	509	509	509	513	514
4395	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	84	110	142	179	220	264	308	349
4396	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	110
4397	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4398	HVAC	CAC-SEER15_ROF_MF	MFIE	MF	LI	MO	57	61	64	66	68	69	70	70	70	70	70	70	70	70	70	70	70	70	71	71
4399	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4400	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4401	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4402	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4403	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4404	HVAC	CAC-SEER15_ER1_MF	PAYS	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4405	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4406	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	NLI	MO	577	674	765	848	920	980	1,028	1,065	1,093	1,115	1,131	996	973	951	931	914	899	889	889	883
4407	HVAC	CAC-SEER16_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4408	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	N/A	NC	1	1	2	3	3	3	3	2	3	3	0	0	0	0	0	0	0	95	34	32
4409	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4410	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4411	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4412	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER1	87	114	147	185	228	273	319	362	401	434	461	483	500	512	521	528	527	527	532	533
4413	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	87	114	147	185	228	273	319	362
4414	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	114
4415	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	NLI	MO	133	155	176	195	211	225	236	245	251	256	260	229	223	218	214	210	206	204	204	203
4416	HVAC	CAC-SEER16_ROF_MF	MFIE	MF	LI	MO	85	91	96	99	102	104	106	106	106	106	106	106	106	106	106	105	105	105	106	106
4417	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	26	9	9
4418	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4419	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4420	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4421	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4422	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4423	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4424	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	NLI	MO	622	726	824	914	991	1,056	1,107	1,147	1,178	1,201	1,218	1,218	1,217	1,216	1,215	1,213	1,211	1,211	1,223	1,224
4425	HVAC	CAC-SEER17_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4426	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	N/A	NC	1	2	2	3	3	4	4	2	3	3	0	0	0	0	0	0	0	103	37	35
4427	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4428	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4429	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4430	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER1	94	124	160	202	249	298	348	395	437	473	503	527	545	559	569	576	575	575	580	581
4431	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	94	124	160	202	249	298	348	395
4432	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	124
4433	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4434	HVAC	CAC-SEER17_ROF_MF	MFIE	MF	LI	MO	79	84	88	91	94	96	97	97	98	98	98	98	98	97	97	97	97	97	98	98
4435	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4436	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4437	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4438	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4439	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4440	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4441	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4442	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	NLI	MO	723	844	959	1,063	1,153	1,228	1,288	1,335	1,370	1,397	1,417	1,417	1,416	1,415	1,413	1,411	1,409	1,409	1,423	1,424
4443	HVAC	CAC-SEER18_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4444	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	N/A	NC	2	2	3	3	4	4	4	3	4	4	0	0	0	0	0	0	0	123	44	41
4445	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4446	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4447	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4448	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER1	100	131	169	213	263	315	368	417	462	500	532	557	576	590	601	608	607	607	613	614
4449	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	100	131	169	213	263	315	368	417
4450	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	131

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4451	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4452	HVAC	CAC-SEER18_ROF_MF	MFIE	MF	LI	MO	67	71	75	78	80	81	83	83	83	83	83	83	83	83	83	83	82	82	83	83
4453	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4454	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4455	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4456	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4457	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4458	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4459	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4460	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	NLI	MO	1,136	1,326	1,506	1,670	1,811	1,929	2,023	2,096	2,152	2,194	2,226	2,225	2,223	2,221	2,219	2,216	2,213	2,213	2,234	2,236
4461	HVAC	CAC-SEER19_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4462	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	N/A	NC	3	3	5	6	7	7	8	5	6	7	0	0	0	0	0	0	0	211	76	71
4463	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER1	617	720	818	907	984	1,048	1,099	1,139	1,169	1,192	1,209	1,209	1,208	1,207	1,206	1,204	1,202	1,202	1,214	1,215
4464	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	617	720	818	907	984	1,048	1,099	1,139
4465	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	617	720
4466	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER1	137	181	233	294	362	434	506	575	636	689	733	767	793	813	828	838	837	837	845	846
4467	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	137	181	233	294	362	434	506	575
4468	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137	181
4469	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4470	HVAC	CAC-SEER19_ROF_MF	MFIE	MF	LI	MO	77	82	86	90	92	94	95	96	96	96	96	96	96	96	95	95	95	95	96	96
4471	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4472	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4473	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4474	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4475	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4476	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4477	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4478	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	NLI	MO	971	1,133	1,287	1,427	1,548	1,648	1,729	1,791	1,839	1,875	1,902	1,901	1,900	1,898	1,896	1,894	1,891	1,891	1,909	1,911
4479	HVAC	CAC-SEER20_ROF_SF	PAYS	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4480	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	N/A	NC	2	3	4	5	6	6	6	4	5	6	0	0	0	0	0	0	0	174	63	58
4481	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4482	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4483	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4484	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER1	112	147	190	240	295	354	413	469	519	562	597	625	647	663	675	683	682	682	689	689
4485	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	112	147	190	240	295	354	413	469
4486	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	147
4487	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4488	HVAC	CAC-SEER20_ROF_MF	MFIE	MF	LI	MO	79	84	88	92	94	96	98	98	98	98	98	98	98	98	98	98	97	97	98	98
4489	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4490	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4491	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4492	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4493	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4494	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4495	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4496	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	NLI	MO	868	1,013	1,151	1,276	1,384	1,474	1,546	1,602	1,644	1,677	1,701	1,700	1,699	1,697	1,696	1,693	1,691	1,691	1,707	1,709
4497	HVAC	CAC-SEER21_ROF_SF	PAYS	SF	LI	MO	72	98	134	181	241	316	407	514	632	756	881	999	1,104	1,194	1,268	1,326	1,370	1,406	1,446	1,467
4498	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	N/A	NC	2	2	3	4	5	5	5	4	5	5	0	0	0	0	0	0	0	152	55	51
4499	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4500	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4501	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4502	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER1	108	142	183	231	284	341	398	451	500	541	575	602	623	639	650	658	657	657	663	664
4503	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	108	142	183	231	284	341	398	451
4504	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	142
4505	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	NLI	MO	135	157	179	198	215	229	240	249	255	260	264	264	264	263	263	263	262	262	265	265
4506	HVAC	CAC-SEER21_ROF_MF	MFIE	MF	LI	MO	87	92	97	101	103	106	107	107	107	107	108	107	107	107	107	107	107	107	108	108
4507	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	26	9	9
4508	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4509	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4510	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4511	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER1	62	71	79	85	91	95	99	102	104	105	105	105	105	105	105	105	105	105	106	106
4512	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	62	71	79	85	91	95	99	102
4513	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	71
4514	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4515	HVAC	Mini/MultiSplitAC_ROF_SF	SFIE	SF	LI	MO	38	50	65	82	101	121	141	160	177	192	204	214	221	227	231	233	233	233	235	236
4516	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4517	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4518	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4519	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4520	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER1	69	90	116	147	181	217	253	287	318	344	366	383	396	406	413	419	418	418	422	422
4521	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	69	90	116	147	181	217	253	287
4522	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	90
4523	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	NLI	MO	167	195	222	246	267	284	298	309	317	323	328	328	328	327	327	327	326	326	329	329
4524	HVAC	Mini/MultiSplitAC_ROF_MF	MFIE	MF	LI	MO	106	113	118	123	126	129	131	131	131	131	131	131	131	131	131	131	130	130	132	132
4525	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	33	12	11
4526	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4527	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4528	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4529	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER1	68	76	82	88	92	95	98	100	101	101	101	101	101	101	101	101	101	101	102	102
4530	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	0	0	68	76	82	88	92	95	98	100
4531	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	76
4532	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4533	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4534	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4535	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4536	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	MO	196	268	365	492	657	862	1,111	1,401	1,723	2,063	2,404	2,724	3,011	3,257	3,458	3,617	3,738	3,835	3,945	4,003
4537	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	NC	4	4	6	8	9	10	10	7	9	9	0	0	0	0	0	68	62	350	94	86
4538	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	MO	50	68	93	126	168	220	284	358	440	527	614	695	769	832	883	924	954	979	1,007	1,022

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4539	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	NC	1	1	1	2	2	2	2	2	2	2	0	0	0	0	0	16	14	81	22	20
4540	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	NLI	MO	1,008	1,209	1,411	1,603	1,777	1,927	2,051	2,151	2,227	2,287	2,331	2,362	2,361	2,359	2,356	2,353	2,350	2,350	2,372	2,374
4541	HVAC	AC - Energy Star Room _unknown size_SF	SFIE	SF	LI	MO	388	518	680	877	1,107	1,363	1,633	1,904	2,160	2,390	2,589	2,750	2,879	2,978	3,052	3,105	3,143	3,143	3,173	3,176
4542	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	N/A	NC	2	2	3	4	5	5	6	4	5	5	0	0	31	30	32	33	29	183	36	27
4543	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	NLI	MO	116	143	171	200	227	252	273	290	304	315	323	329	334	334	333	333	332	332	335	336
4544	HVAC	AC - Energy Star Room _unknown size_SF	MFIE	MF	LI	MO	212	267	329	394	460	523	579	628	667	699	724	743	756	766	765	764	763	763	771	771
4545	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	5	5	5	5	5	29	6	4
4546	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	MO	147	202	274	370	494	648	835	1,053	1,295	1,551	1,807	2,048	2,264	2,449	2,600	2,719	2,810	2,883	2,966	3,009
4547	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	NC	3	3	4	6	6	7	7	5	6	6	0	0	0	0	0	47	43	241	64	59
4548	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	MO	23	32	43	58	78	102	131	166	204	244	284	322	356	385	409	428	442	454	467	474
4549	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	7	7	37	10	9
4550	HVAC	HP tune-up / Packaged Service SF	N/A	SF	NLI	Retrofit	27	34	68	82	121	138	178	192	226	233	260	260	281	277	294	286	294	286	294	286
4551	HVAC	HP tune-up / Packaged Service SF	SFIE	SF	LI	Retrofit	22	33	59	73	103	128	170	206	256	297	348	384	426	451	481	495	515	521	535	535
4552	HVAC	HP tune-up / Packaged Service SF	N/A	SF	N/A	NC	1	1	3	4	8	10	17	17	28	28	39	37	48	44	56	49	60	125	71	137
4553	HVAC	HP tune-up / Packaged Service MF	N/A	MF	NLI	Retrofit	2	2	4	5	7	8	11	12	15	15	17	18	19	19	20	20	21	20	21	20
4554	HVAC	HP tune-up / Packaged Service MF	MFIE	MF	LI	Retrofit	2	2	5	6	9	10	14	16	20	21	24	25	28	28	30	30	31	30	31	30
4555	HVAC	HP tune-up / Packaged Service MF	N/A	MF	N/A	NC	0	0	0	1	1	1	2	3	4	4	6	6	7	7	8	7	9	19	11	20
4556	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	45	57	114	137	204	232	299	322	380	392	438	438	473	465	494	480	494	480	494	480
4557	HVAC	HP tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	22	33	59	72	102	127	168	204	254	295	345	380	422	447	476	490	510	516	530	530
4558	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	2	2	6	7	14	16	28	29	47	47	65	62	82	74	94	83	102	210	119	230
4559	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	3	3	7	8	12	14	18	20	24	26	29	29	32	32	34	33	35	33	35	33
4560	HVAC	HP tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	1	1	2	3	4	5	7	8	10	10	12	12	13	14	14	14	15	15	15	15
4561	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	0	0	1	1	2	2	4	4	7	7	10	9	12	11	14	12	15	31	18	34
4562	HVAC	AC Tune-up / Packaged service SF	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4563	HVAC	AC Tune-up / Packaged service SF	SFIE	SF	LI	Retrofit	112	168	298	368	519	645	856	1,037	1,291	1,497	1,752	1,933	2,144	2,270	2,422	2,492	2,594	2,623	2,693	2,697
4564	HVAC	AC Tune-up / Packaged service SF	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4565	HVAC	AC Tune-up / Packaged service MF	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4566	HVAC	AC Tune-up / Packaged service MF	MFIE	MF	LI	Retrofit	8	8	17	19	30	35	48	54	67	72	83	86	94	95	101	100	105	103	105	103
4567	HVAC	AC Tune-up / Packaged service MF	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4568	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	638	800	1,608	1,932	2,869	3,265	4,203	4,530	5,343	5,511	6,153	6,158	6,657	6,541	6,944	6,754	6,944	6,754	6,944	6,754
4569	HVAC	AC Tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	241	362	645	796	1,123	1,395	1,850	2,242	2,791	3,237	3,786	4,179	4,634	4,907	5,234	5,386	5,606	5,669	5,821	5,829
4570	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	22	26	76	95	189	222	379	401	636	642	886	847	1,111	1,014	1,279	1,129	1,386	2,861	1,621	3,130
4571	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4572	HVAC	AC Tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	15	16	32	38	59	68	93	105	129	139	160	166	182	183	196	194	203	199	203	199
4573	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4574	HVAC	Dirty Filter Alarm_SF	HVAC	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4575	HVAC	Dirty Filter Alarm_SF	SFIE	SF	LI	Retrofit	182	274	305	328	362	636	824	946	1,040	1,114	1,388	1,536	1,587	1,590	1,568	1,750	1,818	1,801	1,753	1,688
4576	HVAC	Dirty Filter Alarm_MF	HVAC	MF	NLI	Retrofit	29	44	49	53	58	102	133	152	167	179	223	247	255	256	252	282	293	290	282	272
4577	HVAC	Dirty Filter Alarm_MF	MFIE	MF	LI	Retrofit	985	816	653	509	389	1,278	1,033	653	509	389	1,278	1,033	653	509	389	1,278	1,033	653	509	389
4578	HVAC	ECM Fan	HVAC	SF	NLI	Retrofit	98	148	165	177	195	245	395	494	549	583	601	629	741	791	794	778	753	745	829	856
4579	HVAC	ECM Fan	SFIE	SF	LI	Retrofit	43	65	73	78	86	108	174	218	242	257	265	278	327	349	351	344	332	329	366	378
4580	HVAC	ECM Fan	HVAC	MF	NLI	Retrofit	19	29	32	34	38	47	76	95	106	112	116	121	143	152	153	150	145	144	160	165
4581	HVAC	ECM Fan	MFIE	MF	LI	Retrofit	499	430	356	285	222	170	627	525	356	285	222	170	627	525	356	285	222	170	627	525
4582	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4583	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4584	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	Retrofit	132	198	220	237	261	327	397	462	514	543	543	515	463	397	328	393	401	375	354	348
4585	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	NC	1	1	1	1	1	2	2	1	1	1	0	0	0	0	0	10	9	53	14	13
4586	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	Retrofit	1,501	2,257	2,514	2,699	2,978	3,734	4,528	5,275	5,864	6,194	6,197	5,869	5,279	4,533	3,740	4,485	4,576	4,281	4,037	3,971
4587	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	NC	6	8	11	14	16	17	18	12	15	16	0	0	0	0	0	119	108	609	163	149
4588	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	Retrofit	603	907	1,010	1,085	1,197	1,500	1,820	2,120	2,357	2,489	2,490	2,358	2,121	1,822	1,503	1,802	1,839	1,720	1,622	1,596
4589	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	NC	3	3	4	6	6	7	7	5	6	6	0	0	0	0	0	48	43	245	66	60
4590	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4591	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4592	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4593	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4594	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4595	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4596	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4597	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4598	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4599	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4600	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4601	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4602	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	MO	6	8	11	15	20	26	34	43	52	63	73	83	92	99	105	110	114	117	120	122
4603	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	11	3	3
4604	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	MO	1	1	2	2	3	4	5	6	8	9	11	12	14	15	16	16	17	17	18	18
4605	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
4606	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4607	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4608	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4609	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4610	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	LI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4611	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4612	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	505	558	700	849	990	1,102	1,165	1,166	1,106	996	856	1,212	1,122	1,138	1,183	1,240	1,287	1,165	1,166	1,106
4613	HVAC	Learning Thermostat - electric furnace heating / central AC SF	SFIE	SF	LI	Retrofit	279	325	362	383	384	365	329	283	234	187	145	390	408	424	383	384	365	329	283	234
4614	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	N/A	NC	4	4	6	8	9	10	10	7	8	9	0	50	48	53	55	49	42	313	48	49
4615	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	165	248	276	297	327	411	498	580	645	681	681	810	829	775	708	656	666	692	727	754
4616	HVAC	Learning Thermostat - electric furnace heating / central AC MF	MFIE	MF	LI	Retrofit	245	246	233	210	181	150	120	93	71	53	40	245	246	233	210	181	150	120	93	71
4617	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	N/A	NC	2	2	3	3	4	4	4	3	4	4	0	21	20	22	23	21	18	132	20	20
4618	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	NLI	Retrofit	610	674	845	1,025	1,195	1,330	1,406	1,408	1,335	1,202	1,034	1,463	1,355	1,375	1,428	1,498	1,554	1,406	1,408	1,335
4619	HVAC	Learning Thermostat - Gas Heated / central AC SF**	SFIE	SF	LI	Retrofit	240	280	311	329	330	313	282	243	201	161	125	335	351	364	329	330	313	282	243	201
4620	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	N/A	NC	4	4	6	8	9	10	10	7	8	9	0	50	49	53	56	50	42	316	48	49
4621	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	NLI	Retrofit	49	74	82	88	97	122	148	172	191	202	202	240	246	230	210	195	197	205	216	224
4622	HVAC	Learning Thermostat - Gas Heated / central AC MF**	MFIE	MF	LI	Retrofit	93	93	88	80	68	57	45	35	27	20	15	93	93	88	80	68	57	45	35	27
4623	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	N/A	NC	0	1	1	1	1	1	1	1	1	1	0	6	6	7	7	6	5	41	6	6
4624	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	222	245	307	373	435	484	512	512	486	437	376	532	493	500	520	545	565	512	512	486
4625	HVAC	Learning Thermostat - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	89	104	116	123	123	117	105	91	75	60	47	125	131	136	123	123	117	105	91	75
4626	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	N/A	NC	1	2	2	3	3	4	4	3	3	3	0	19	19	20	21	19	16	120	18	19

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4627	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	25	38	42	45	50	62	76	88	98	104	104	123	126	118	108	100	101	105	111	115
4628	HVAC	Learning Thermostat - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	55	55	52	47	41	34	27	21	16	12	9	55	55	52	47	41	34	27	21	16
4629	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	N/A	NC	0	0	0	1	1	1	1	1	1	1	0	4	4	4	4	4	3	25	4	4
4630	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	713	786	986	1,197	1,396	1,554	1,642	1,644	1,559	1,404	1,920	1,783	1,782	1,816	1,867	1,906	1,903	1,644	1,559	1,404
4631	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	SFIE	SF	LI	Retrofit	218	254	283	299	300	284	256	221	182	146	331	340	347	347	300	284	256	221	182	146
4632	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	N/A	NC	5	6	8	11	13	14	14	9	12	12	62	62	69	73	67	57	47	419	68	65
4633	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	183	275	306	328	362	454	551	642	714	754	937	989	948	880	817	818	833	857	876	875
4634	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	MFIE	MF	LI	Retrofit	144	145	137	124	107	88	71	55	42	32	168	145	137	124	107	88	71	55	42	32
4635	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	N/A	NC	2	2	3	4	4	5	5	3	4	4	20	20	23	24	22	19	16	138	22	22
4636	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	NLI	Retrofit	3,160	3,487	4,374	5,308	6,189	6,889	7,282	7,290	6,911	6,225	8,512	7,906	7,902	8,051	8,278	8,454	8,440	7,290	6,911	6,225
4637	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	SFIE	SF	LI	Retrofit	687	802	892	944	946	898	809	696	575	460	1,045	1,074	1,097	1,096	946	898	809	696	575	460
4638	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	N/A	NC	19	23	31	41	47	50	52	35	44	46	229	228	255	271	247	212	174	1,551	251	242
4639	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	NLI	Retrofit	152	229	255	274	302	379	460	535	595	629	781	825	791	734	682	682	695	715	731	729
4640	HVAC	Setback thermostat - full setback - gas heating / central AC MF	MFIE	MF	LI	Retrofit	150	150	143	129	111	92	73	57	44	33	174	150	143	129	111	92	73	57	44	33
4641	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	N/A	NC	1	2	2	3	4	4	4	3	3	4	18	18	20	21	19	16	13	120	19	19
4642	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	416	459	576	699	815	907	959	960	910	820	1,121	1,041	1,040	1,060	1,090	1,113	1,111	960	910	820
4643	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	93	108	120	127	128	121	109	94	78	62	141	145	148	148	128	121	109	94	78	62
4644	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	N/A	NC	3	3	4	6	6	7	7	5	6	6	32	31	35	37	34	29	24	214	35	33
4645	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	36	54	60	65	71	89	108	126	140	148	184	194	186	173	161	161	164	168	172	172
4646	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	41	41	39	35	30	25	20	16	12	9	47	41	39	35	30	25	20	16	12	9
4647	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	5	5	6	6	5	5	4	34	5	5
5001	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	NLI	Retrofit	317	477	531	570	629	788	956	1,114	1,555	1,785	1,839	1,809	1,744	1,746	1,746	1,744	2,045	2,158	2,122	2,019
5002	Lighting	LED - 10W (750-899 lumens) IEDI	SFIE	SF	LI	Retrofit	605	910	1,013	1,087	1,200	1,505	1,825	2,126	2,968	3,405	3,510	3,452	3,327	3,331	3,331	3,328	3,902	4,117	4,049	3,852
5003	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	N/A	NC	36	43	60	79	90	96	99	67	398	418	388	432	410	363	308	173	868	3,562	922	923
5004	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	NLI	Retrofit	9	14	16	17	19	24	29	33	46	53	55	54	52	52	52	52	61	64	63	60
5005	Lighting	LED - 10W (750-899 lumens) IEDI	MFIE	MF	LI	Retrofit	111	120	132	165	201	234	260	275	387	381	367	367	368	367	364	354	446	424	367	367
5006	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	N/A	NC	2	3	4	5	5	6	6	4	24	25	23	26	25	22	19	10	52	214	55	56
5007	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	NLI	Retrofit	861	1,295	1,442	1,548	1,709	2,142	2,598	3,026	4,226	4,849	4,997	4,915	4,737	4,743	4,743	4,738	5,556	5,862	5,765	5,485
5008	Lighting	LED - 15W (900-1399 lumens) IEDI	SFIE	SF	LI	Retrofit	504	758	844	907	1,001	1,254	1,521	1,772	2,475	2,839	2,926	2,878	2,774	2,777	2,778	2,775	3,253	3,433	3,376	3,212
5009	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	N/A	NC	98	118	162	214	244	262	268	181	1,082	1,136	1,054	1,173	1,113	987	836	469	2,358	9,678	2,506	2,509
5010	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	NLI	Retrofit	26	39	43	46	51	64	78	90	126	145	149	147	142	142	142	142	166	175	172	164
5011	Lighting	LED - 15W (900-1399 lumens) IEDI	MFIE	MF	LI	Retrofit	100	108	119	149	181	211	234	248	348	343	330	331	331	330	328	319	401	382	330	331
5012	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	N/A	NC	6	7	10	13	15	16	16	11	65	68	63	71	67	59	50	28	142	582	151	151
5013	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	NLI	Retrofit	1,158	1,741	1,938	2,081	2,296	2,879	3,492	4,067	5,679	6,516	6,717	6,606	6,367	6,375	6,375	6,369	7,467	7,879	7,748	7,372
5014	Lighting	LED - 20W (1400-1999 lumens) IEDI	SFIE	SF	LI	Retrofit	678	1,019	1,135	1,219	1,345	1,686	2,045	2,382	3,326	3,816	3,933	3,868	3,728	3,733	3,733	3,729	4,373	4,614	4,537	4,317
5015	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	N/A	NC	132	159	217	287	328	352	361	244	1,454	1,527	1,416	1,577	1,496	1,327	1,123	630	3,169	13,007	3,368	3,372
5016	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	NLI	Retrofit	35	52	58	62	69	86	104	122	170	195	201	197	190	191	191	190	223	235	232	220
5017	Lighting	LED - 20W (1400-1999 lumens) IEDI	MFIE	MF	LI	Retrofit	100	108	119	149	181	211	234	248	348	343	330	331	331	330	328	319	401	382	330	331
5018	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	N/A	NC	8	10	13	17	20	21	22	15	88	92	85	95	90	80	68	38	191	783	203	203
5019	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	NLI	Retrofit	467	702	782	840	927	1,162	1,409	1,641	2,292	2,629	2,710	2,665	2,569	2,572	2,572	2,570	3,013	3,179	3,126	2,974
5020	Lighting	LED - 6W (400-749 lumens) IEDI	SFIE	SF	LI	Retrofit	410	617	687	738	814	1,020	1,237	1,442	2,013	2,309	2,380	2,341	2,256	2,259	2,259	2,257	2,646	2,792	2,746	2,613
5021	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	N/A	NC	53	64	88	116	132	142	146	98	587	616	571	636	604	535	453	254	1,279	5,248	1,359	1,361
5022	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	NLI	Retrofit	14	21	23	25	28	35	42	49	68	79	81	80	77	77	77	77	90	95	93	89
5023	Lighting	LED - 6W (400-749 lumens) IEDI	MFIE	MF	LI	Retrofit	100	108	119	149	181	211	234	248	348	343	330	331	331	330	328	319	401	382	330	331
5024	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	N/A	NC	11	14	19	25	28	30	31	21	125	131	121	135	128	114	96	54	272	1,116	289	289
5025	Lighting	LED A19 800 Lumens 6W	PAYS	SF	NLI	Retrofit	197	296	330	354	391	490	594	692	770	813	813	770	693	595	491	392	304	232	176	130
5026	Lighting	LED A19 800 Lumens 6W	SFIE	SF	LI	Retrofit	119	179	200	215	237	297	360	419	466	492	493	467	420	360	297	237	184	140	106	79
5027	Lighting	LED A19 800 Lumens 6W	PAYS	SF	N/A	NC	23	27	37	49	56	60	61	41	52	55	0	0	0	0	0	0	0	1,728	179	181
5028	Lighting	LED A19 800 Lumens 6W	PAYS	MF	NLI	Retrofit	6	9	10	11	12	15	18	21	23	24	24	23	21	18	15	12	9	7	5	4
5029	Lighting	LED A19 800 Lumens 6W	MFIE	MF	LI	Retrofit	31	34	37	46	56	66	73	77	77	73	66	57	47	37	29	22	17	12	0	0
5030	Lighting	LED A19 800 Lumens 6W	PAYS	MF	N/A	NC	1	2	2	3	3	4	4	2	3	3	0	0	0	0	0	0	0	104	11	11
5031	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	NLI	Retrofit	116	175	195	209	231	289	351	408	570	654	674	663	639	640	640	640	750	791	778	740
5032	Lighting	LED - 10.5W Downlight E26 IE DI	SFIE	SF	LI	Retrofit	132	198	221	237	262	328	398	463	647	742	765	753	725	726	726	726	851	898	883	840
5033	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	N/A	NC	13	16	22	29	33	35	36	24	146	153	142	158	150	133	113	63	318	1,306	338	339
5034	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	NLI	Retrofit	3	5	6	6	7	9	10	12	17	20	20	20	19	19	19	19	22	24	23	22
5035	Lighting	LED - 10.5W Downlight E26 IE DI	MFIE	MF	LI	Retrofit	26	28	31	39	48	55	62	65	92	90	87	87	87	87	86	84	106	100	87	87
5036	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	N/A	NC	1	1	2	2	3	3	3	2	12	13	12	13	13	11	9	5	27	109	28	28
5037	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	109	165	183	197	217	272	330	384	537	616	635	624	602	603	603	602	706	745	732	697
5038	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	SFIE	SF	LI	Retrofit	124	187	208	223	246	309	374	436	609	699	720	708	683	684	684	683	801	845	831	791
5039	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	N/A	NC	12	15	21	27	31	33	34	23	137	144	134	149	141	125	106	60	300	1,229	318	319
5040	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	3	5	5	6	6	8	10	11	16	18	19	19	18	18	18	18	21	22	22	21
5041	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	MFIE	MF	LI	Retrofit	26	28	31	39	48	55	62	65	92	90	87	87	87	87	86	84	106	100	87	87
5042	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	N/A	NC	1	1	2	2	3	3	3	2	12	12	11	12	12	10	9	5	25	103	27	27
5043	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	181	273	303	326	360	451	547	637	889	1,020	1,052	1,034	997	998	998	997	1,169	1,169	1,234	1,213	1,154
5044	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	SFIE	SF	LI	Retrofit	137	206	230	246	272	341	413	482	673	772	795	782	754	755	755	754	884	933	918	873
5045	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	N/A	NC	21	25	34	45	51	55	56	38	228	239	222	247	234	208	176	99	496	2,036	527	528
5046	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	5	8	9	10	11	13	16	19	27	30	31	31	30	30	30	30	35	37	36	34
5047	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	MFIE	MF	LI	Retrofit	26	28	31	39	48	55	62	65	92	90	87	87	87	87	86	84	106	100	87	87
5048	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	N/A	NC	2	2	3	4	4	5	5	3	19	20	19	21	20	17	15	8	42	170	44	44
5049	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	NLI	Retrofit	227	342	381	409	451	566	686	799	1,116	1,280	1,319	1,298	1,251	1,252	1,252	1,251	1,467	1,548	1,522	1,448
5050	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	SFIE	SF	LI	Retrofit	97	145	162	174	192	241	292	340	475	545	561	552	532	533	533	532	624	658	648	616
5051	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	N/A	NC	26	31	43	56	64	69	71	48	286	300	278	310	294	261	221	124	623	2,555	662	662
5052	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	NLI	Retrofit	7	10	11	12	13	17	20	24	33	38	39	39	37	37	37	37	44	46	45	43
5053	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	MFIE	MF	LI	Retrofit	26	28	31	39	48	55	62	65	92	90	87	87	87	87	86	84	106	100	87	87
5054	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	N/A	NC	2	3	4	5	5	6	6	4	24	25	23	26	25	22	18	10	52	214	55	55
5055	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	NLI	Retrofit	341	513	571	613	677	849	1,029	1,199	1,674	1,921	1,980	1,947	1,876	1,879	1,879	1,877	2,201	2,322	2,284	2,173
5056	Lighting	LED - 12W Dimmable Light Bulb IE DI	SFIE	SF	LI	Retrofit	263	396	441	474	523	655	795	926	1,293	1,483	1,529	1,504	1,449	1,451	1,451	1,450	1,700	1,793	1,764	1,678
5057	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	N/A	NC	39	47	64	85	97	104	106	72	429	450	417	465	441	391	331	186	934	3,834	993	994
5058	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	NLI	Retrofit	8	13	14	15	17	21	25	29	41	47	48	48	46	46	46	46	54	57	56	53
5059	Lighting	LED - 12W Dimmable Light Bulb IE DI	MFIE	MF	LI	Retrofit	12	13	15	18	22	26	29	31	43	42	41	41	41	41	41	39	50	47	41	41
5060	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	N/A	NC	3	3	4	6	7	7	7	5	29	31	29	32	30	27	23	13	64	263	68	68
5061	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	NLI	Retrofit	51	77	136	168	237	295	391	473	589	683	799	882	978	1,036	1,105	1,137	1,184	1,197	1,229	1,231
5062	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	SFIE	SF	LI	Retrofit	39	59	105	130	183	227	302	366	455	528	617	681	755	800	853	878	914	924	949	950
5063	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	N/A	NC	6	7	20	25	51	60	102	108	171	172	238	227	298	272	343	303	372	768	435	840
5064	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	NLI	Retrofit	1	2	3	4	6	7	10	12	14	17	20	22	24	25	27	28	29	29	30	30
5065	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	MFIE	MF	LI	Retrofit	4	4	8	9	14	17	23	26	32	34	39	41	45	45	48	47	50	49	50	49
5066	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	N/A	NC	0	0	1	2	3	4	7	7	12	12	16	16	20	19	24	21	26	53	30	58
5067	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	NLI	Retrofit	136	205	228	245	270	338	410	478	667	766	789	776	748	749	749	748	878	926	911	866

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5068	Lighting	LED - 4W Candelabra Specialty IE DI	SFIE	SF	LI	Retrofit	105	158	176	189	208	261	317	369	515	591	610	600	578	579	579	578	678	715	703	669
5069	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	N/A	NC	16	19	26	34	39	41	42	29	171	180	166	185	176	156	132	74	372	1,529	396	396
5070	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	NLI	Retrofit	3	5	6	6	7	8	10	12	16	19	19	19	18	18	18	18	21	23	22	21
5071	Lighting	LED - 4W Candelabra Specialty IE DI	MFIE	MF	LI	Retrofit	29	31	34	43	52	61	68	71	100	99	95	95	95	95	94	92	116	110	95	95
5072	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	N/A	NC	1	1	2	2	3	3	3	2	12	12	11	13	12	11	9	5	26	105	27	27
5073	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	NLI	Retrofit	357	536	597	641	707	887	1,075	1,253	1,749	2,007	2,068	2,035	1,961	1,963	1,963	1,961	2,300	2,426	2,386	2,270
5074	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	SFIE	SF	LI	Retrofit	275	414	461	495	546	685	830	967	1,351	1,550	1,597	1,571	1,514	1,516	1,516	1,515	1,776	1,874	1,843	1,753
5075	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	N/A	NC	41	49	67	89	101	108	111	75	448	470	436	486	461	409	346	194	976	4,006	1,037	1,038
5076	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	NLI	Retrofit	9	13	15	16	17	22	26	31	43	49	51	50	48	48	48	48	56	59	58	55
5077	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	MFIE	MF	LI	Retrofit	76	81	90	112	136	159	177	187	263	259	249	250	250	249	247	240	303	288	249	250
5078	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	N/A	NC	3	3	5	6	7	7	8	5	31	32	30	33	32	28	24	13	67	275	71	71
5079	Lighting	LED Nightlights	PAYS	SF	NLI	Retrofit	241	363	404	434	721	964	1,133	1,283	1,664	1,960	2,129	2,227	2,513	2,689	2,731	2,707	2,886	2,973	2,946	2,866
5080	Lighting	LED Nightlights	SFIE	SF	LI	Retrofit	109	164	183	196	216	271	329	383	535	614	632	622	600	600	600	600	703	742	730	694
5081	Lighting	LED Nightlights	PAYS	SF	N/A	NC	28	33	45	60	160	179	212	220	482	494	458	428	842	780	661	570	1,050	3,040	968	848
5082	Lighting	LED Nightlights	PAYS	MF	NLI	Retrofit	10	15	16	17	29	39	45	51	67	79	85	89	101	108	109	108	116	119	118	115
5083	Lighting	LED Nightlights	MFIE	MF	LI	Retrofit	54	58	64	80	97	113	126	133	187	184	178	178	178	178	176	171	216	206	178	178
5084	Lighting	LED Nightlights	PAYS	MF	N/A	NC	3	4	5	7	18	20	24	25	54	56	51	48	95	88	74	64	118	342	109	95
5085	Lighting	Occupancy Sensor	N/A	SF	NLI	Retrofit	733	1,103	1,228	1,318	1,455	1,824	2,212	2,577	2,864	3,025	3,760	3,969	3,806	3,533	3,281	3,281	3,344	3,440	3,518	3,510
5086	Lighting	Occupancy Sensor	N/A	SF	LI	Retrofit	380	571	636	683	754	945	1,146	1,335	1,484	1,567	1,948	2,056	1,972	1,830	1,700	1,700	1,733	1,782	1,823	1,819
5087	Lighting	Occupancy Sensor	N/A	SF	N/A	NC	13	16	21	28	32	35	36	24	30	32	158	157	175	187	170	146	120	1,069	173	167
5088	Lighting	Occupancy Sensor	N/A	MF	NLI	Retrofit	41	61	68	73	81	102	123	144	160	169	210	221	212	197	183	183	186	192	196	196
5089	Lighting	Occupancy Sensor	N/A	MF	LI	Retrofit	53	80	89	96	106	132	161	187	208	220	273	288	276	256	238	238	243	250	255	255
5090	Lighting	Occupancy Sensor	N/A	MF	N/A	NC	1	1	2	2	3	3	3	2	3	3	13	13	15	16	14	12	10	90	15	14
5091	Lighting	Exterior Lighting Controls	N/A	SF	NLI	Retrofit	733	1,103	1,228	1,318	1,455	1,824	2,212	2,577	2,864	3,025	3,760	3,969	3,806	3,533	3,281	3,281	3,344	3,440	3,518	3,510
5092	Lighting	Exterior Lighting Controls	N/A	SF	LI	Retrofit	380	571	636	683	754	945	1,146	1,335	1,484	1,567	1,948	2,056	1,972	1,830	1,700	1,700	1,733	1,782	1,823	1,819
5093	Lighting	Exterior Lighting Controls	N/A	SF	N/A	NC	13	16	21	28	32	35	36	24	30	32	158	157	175	187	170	146	120	1,069	173	167
5094	Lighting	Exterior Lighting Controls	N/A	MF	NLI	Retrofit	41	61	68	73	81	102	123	144	160	169	210	221	212	197	183	183	186	192	196	196
5095	Lighting	Exterior Lighting Controls	N/A	MF	LI	Retrofit	53	80	89	96	106	132	161	187	208	220	273	288	276	256	238	238	243	250	255	255
5096	Lighting	Exterior Lighting Controls	N/A	MF	N/A	NC	1	1	2	2	3	3	3	2	3	3	13	13	15	16	14	12	10	90	15	14
5097	Lighting	Advanced Lighting	N/A	SF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5098	Lighting	Advanced Lighting	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5099	Lighting	Advanced Lighting	N/A	MF	N/A	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5100	Lighting	Advanced Lighting	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001	New Construction	Zero Energy Ready Home	N/A	SF	N/A	NC	20	24	32	43	49	52	54	36	45	48	0	0	0	0	0	0	0	1,510	156	159
6002	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	SF	N/A	NC	20	24	32	43	49	52	54	36	45	48	0	0	0	0	0	0	0	1,510	156	159
6003	New Construction	Zero Energy Ready Home	N/A	MF	N/A	NC	3	3	4	6	6	7	7	5	6	6	0	0	0	0	0	0	0	201	21	21
6004	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7002	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	SFIE	SF	LI	Retrofit	1,806	1,629	1,403	1,161	930	725	553	416	308	0	1,806	1,629	1,403	1,161	930	725	553	416	308	0
7003	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7004	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7005	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	MFIE	MF	LI	Retrofit	72	77	85	107	129	151	168	177	178	168	223	207	192	192	196	202	206	206	178	168
7006	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7007	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	NLI	Retrofit	2,243	3,373	3,756	4,033	4,450	5,579	6,766	7,882	8,762	9,255	11,503	12,142	11,643	10,806	10,038	10,038	10,230	10,522	10,762	10,739
7008	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	SFIE	SF	LI	Retrofit	6,942	6,264	5,395	4,465	3,575	2,787	2,127	1,598	1,185	0	6,942	6,264	5,395	4,465	3,575	2,787	2,127	1,598	1,185	0
7009	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	N/A	NC	79	94	129	171	195	209	214	145	182	191	950	946	1,055	1,122	1,023	878	723	6,430	1,039	1,002
7010	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	NLI	Retrofit	224	337	375	403	444	557	675	787	875	924	1,148	1,212	1,162	1,079	1,002	1,002	1,021	1,050	1,074	1,072
7011	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	MFIE	MF	LI	Retrofit	350	375	414	520	630	735	818	864	865	820	1,088	1,010	938	937	955	982	1,003	1,001	865	820
7012	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	N/A	NC	10	12	17	22	25	27	28	19	24	25	124	123	137	146	133	114	94	837	135	130
7013	Plug Loads	ENERGY STAR TV	N/A	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7014	Plug Loads	ENERGY STAR TV	N/A	SF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7015	Plug Loads	ENERGY STAR TV	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7016	Plug Loads	ENERGY STAR TV	N/A	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7017	Plug Loads	ENERGY STAR TV	N/A	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7018	Plug Loads	ENERGY STAR TV	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7019	Plug Loads	Smart Plug	N/A	SF	NLI	Retrofit	420	631	703	754	832	1,044	1,266	1,894	2,270	2,434	2,487	2,473	2,519	2,533	2,940	3,104	3,082	2,981	2,847	2,797
7020	Plug Loads	Smart Plug	N/A	SF	LI	Retrofit	126	189	211	226	250	313	380	568	681	730	746	742	756	760	882	931	924	894	854	839
7021	Plug Loads	Smart Plug	N/A	SF	N/A	NC	4	4	6	8	9	10	10	32	36	42	38	37	33	29	79	75	76	335	81	73
7022	Plug Loads	Smart Plug	N/A	MF	NLI	Retrofit	51	77	85	91	101	127	153	230	275	295	301	300	305	307	356	376	374	361	345	339
7023	Plug Loads	Smart Plug	N/A	MF	LI	Retrofit	35	53	59	64	70	88	107	160	192	206	210	209	213	214	248	262	260	252	240	236
7024	Plug Loads	Smart Plug	N/A	MF	N/A	NC	1	1	1	1	2	2	2	6	6	7	7	6	6	5	14	13	13	59	14	13
8001	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER1	39	53	71	95	124	160	202	249	298	347	393	435	470	500	523	540	553	564	577	578
8002	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	39	53	71	95	124	160	202	249	298	347
8003	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	39	53	71	95	124	160	202	249	298	347
8004	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8005	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER1	9	12	15	19	22	26	30	33	36	38	40	41	42	43	43	43	43	43	44	44
8006	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER2	0	0	0	0	0	0	0	0	0	0	9	12	15	19	22	26	30	33	36	38
8007	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER3	0	0	0	0	0	0	0	0	0	0	9	12	15	19	22	26	30	33	36	38
8008	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	SF	LI	MO	3	4	6	7	8	10	11	12	13	14	15	15	16	16	16	16	16	16	16	16
8009	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8010	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER1	5	7	9	12	16	20	24	29	34	38	43	46	49	51	53	54	55	56	57	57
8011	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER2	0	0	0	0	0	0	0	0	0	0	5	7	9	12	16	20	24	29	34	38
8012	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER3	0	0	0	0	0	0	0	0	0	0	5	7	9	12	16	20	24	29	34	38
8013	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	NLI	MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8014	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER1	5	7	9	11	13	15	17	19	21	22	23	24	24	25	25	25	25	25	25	25
8015	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER2	0	0	0	0	0	0	0	0	0	0	5	7	9	11	13	15	17	19	21	22
8016	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER3	0	0	0	0	0	0	0	0	0	0	5	7	9	11	13	15	17	19	21	22
8017	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	MF	LI	MO	2	3	3	4	5	6	6	7	8	8	9	9	9	9	9	9	9	9	9	9
8018	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8019	Pools	Heat Pump Pool Heater	N/A	SF	N/A	MO	3	4	6	7	10	13	17	21	26	31	37	41	46	50	53	55	57	58	60	61
8020	Pools	Heat Pump Pool Heater	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	10	3	2
8021	Pools	Heat Pump Pool Heater	N/A	MF	N/A	MO	1	1	1	1	2	2	3	4	5	6	6	7	8	9	9	10	10	10	11	11
8022	Pools	Heat Pump Pool Heater	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
9001	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	NLI	MO	609	750	900	1,050	1,193	1,322	1,433	1,525	1,598	1,655	1,699	1,731	1,753	1,752	1,750	1,748	1,745	1,745	1,762	1,763
9002	Water Heating	Heat Pump Hot Water Heater	SFIE	SF	LI	MO	91	123	165	216	279	352	433	519	604	686	759	821	872	913	944	967	984	997	1,007	1,008
9003	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	N/A	NC	2	2	3	4	5	5	5	3	4	4	0	0	0	30	28	30	30	168	37	33
9004	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	NLI	MO	43	58	76	98	124	153	183	213	242	268	290	308	323	334	342	348	352	352	356	356
9005	Water Heating	Heat Pump Hot Water Heater	MFIE	MF	LI	MO	78	101	128	157	189	220	250	277	300	319	334	345	354	361	365	365	364	364	368	368

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
9006	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	N/A	NC	1	1	2	2	3	3	3	2	2	2	0	0	0	17	16	17	17	94	21	18
9007	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	1,245	1,561	1,895	2,209	2,460	2,601	2,605	2,471	2,225	1,914	2,826	2,824	2,877	2,957	3,020	3,016	2,605	2,471	2,225	1,914
9008	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	1,991	2,322	2,585	2,734	2,740	2,601	2,344	2,017	1,667	1,333	3,028	3,112	3,178	3,173	2,740	2,601	2,344	2,017	1,667	1,333
9009	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	9	10	14	19	21	23	24	16	20	21	105	104	116	124	113	97	80	709	115	110
9010	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	233	272	302	320	321	304	274	236	195	156	354	364	372	371	321	304	274	236	195	156
9011	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	9	9	10	13	15	18	20	21	21	20	27	25	23	23	23	24	25	25	21	20
9012	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	1	1	1	2	2	2	2	2	2	2	11	11	12	13	11	10	8	72	12	11
9013	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	309	387	470	548	610	645	646	613	552	475	701	700	713	733	749	748	646	613	552	475
9014	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	652	761	847	896	898	852	768	661	546	437	992	1,020	1,041	1,040	898	852	768	661	546	437
9015	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	2	3	4	5	6	6	6	4	5	6	28	28	31	33	30	26	21	190	31	30
9016	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	85	99	110	116	117	111	100	86	71	57	129	132	135	135	117	111	100	86	71	57
9017	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	3	4	4	5	6	7	8	9	9	8	11	10	9	9	9	10	10	10	9	8
9018	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	4	4	5	5	4	4	3	28	5	4
9019	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	NLI	Retrofit	635	682	752	944	1,145	1,335	1,485	1,569	1,570	1,489	1,975	1,834	1,703	1,702	1,735	1,784	1,821	1,819	1,570	1,489
9020	Water Heating	Low Flow Showerhead SFIE DI	SFIE	SF	LI	Retrofit	855	997	1,110	1,174	1,177	1,117	1,007	866	716	572	1,300	1,336	1,364	1,363	1,177	1,117	1,007	866	716	572
9021	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	N/A	NC	5	6	9	12	13	14	15	10	12	13	65	65	72	77	70	60	49	440	71	69
9022	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	NLI	Retrofit	71	83	92	98	98	93	84	72	60	48	108	111	114	113	98	93	84	72	60	48
9023	Water Heating	Low Flow Showerhead SFIE DI	MFIE	MF	LI	Retrofit	110	94	78	63	49	37	28	21	0	0	110	94	78	63	49	37	28	21	0	0
9024	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	N/A	NC	1	1	1	1	1	2	2	1	1	1	7	7	8	8	8	7	5	48	8	8
9025	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9026	Water Heating	Pipe Insulation SFIE DI	SFIE	SF	LI	Retrofit	1,008	1,223	1,426	1,588	1,680	1,683	1,597	1,439	1,237	1,022	817	636	1,492	1,586	1,695	1,588	1,680	1,683	1,597	1,439
9027	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9028	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	NLI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9029	Water Heating	Pipe Insulation SFIE DI	MFIE	MF	LI	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9030	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9031	Water Heating	Thermostatic Restrictor Valve	N/A	SF	NLI	Retrofit	477	717	799	858	947	1,187	1,439	1,677	1,864	1,969	2,447	2,583	2,477	2,299	2,135	2,135	2,176	2,238	2,289	2,284
9032	Water Heating	Thermostatic Restrictor Valve	N/A	SF	LI	Retrofit	221	333	371	398	439	550	668	778	865	913	1,135	1,198	1,149	1,066	990	990	1,009	1,038	1,062	1,060
9033	Water Heating	Thermostatic Restrictor Valve	N/A	SF	N/A	NC	4	5	6	9	10	10	11	7	9	10	47	47	53	56	51	44	36	321	52	50
9034	Water Heating	Thermostatic Restrictor Valve	N/A	MF	NLI	Retrofit	56	85	95	102	112	141	170	199	221	233	290	306	293	272	253	253	258	265	271	270
9035	Water Heating	Thermostatic Restrictor Valve	N/A	MF	LI	Retrofit	14	16	20	24	28	31	33	33	31	28	38	36	36	36	37	38	38	33	31	28
9036	Water Heating	Thermostatic Restrictor Valve	N/A	MF	N/A	NC	0	0	1	1	1	1	1	1	1	1	5	5	5	6	5	5	4	33	5	5
9037	Water Heating	Water Heater Wrap	N/A	SF	NLI	Retrofit	90	136	151	162	179	315	408	469	515	552	688	762	786	788	777	868	901	893	869	837
9038	Water Heating	Water Heater Wrap	N/A	SF	LI	Retrofit	34	51	57	61	67	118	153	176	193	207	258	285	295	295	291	325	338	334	325	313
9039	Water Heating	Water Heater Wrap	N/A	SF	N/A	NC	1	1	1	2	2	6	7	7	9	9	17	17	16	17	15	26	23	88	27	25
9040	Water Heating	Water Heater Wrap	N/A	MF	NLI	Retrofit	10	16	17	19	20	36	47	54	59	63	79	87	90	90	89	99	103	102	99	96
9041	Water Heating	Water Heater Wrap	N/A	MF	LI	Retrofit	3	3	4	4	5	8	9	9	10	10	12	12	12	12	12	14	13	12	12	12
9042	Water Heating	Water Heater Wrap	N/A	MF	N/A	NC	0	0	0	0	0	1	1	1	1	1	3	2	2	2	2	4	3	13	4	4
9043	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9044	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9045	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9046	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9047	Water Heating	Water Heater Timer / Setback	N/A	SF	NLI	Retrofit	492	740	1,316	1,624	2,292	2,848	3,776	4,577	5,697	6,606	7,728	8,529	9,458	10,015	10,684	10,993	11,443	11,572	11,882	11,897
9048	Water Heating	Water Heater Timer / Setback	N/A	SF	LI	Retrofit	186	279	496	613	864	1,074	1,424	1,726	2,149	2,492	2,915	3,217	3,567	3,777	4,029	4,146	4,316	4,364	4,481	4,487
9049	Water Heating	Water Heater Timer / Setback	N/A	SF	N/A	NC	2	3	8	10	20	23	39	41	66	66	91	87	115	105	132	116	143	295	167	323
9050	Water Heating	Water Heater Timer / Setback	N/A	MF	NLI	Retrofit	57	85	152	188	265	329	436	528	658	763	892	985	1,092	1,156	1,234	1,269	1,321	1,336	1,372	1,374
9051	Water Heating	Water Heater Timer / Setback	N/A	MF	LI	Retrofit	8	12	22	27	39	48	64	77	96	112	130	144	160	169	180	186	193	195	201	201
9052	Water Heating	Water Heater Timer / Setback	N/A	MF	N/A	NC	0	0	1	1	3	3	6	6	10	10	13	13	17	15	19	17	21	43	24	47

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1001	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1002	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	SFIE	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1003	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1004	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1005	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	MFIE	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1006	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1007	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1008	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	SFIE	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1009	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1010	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1011	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	MFIE	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1012	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1013	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1014	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	SFIE	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1015	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1016	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1017	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	MFIE	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1018	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1019	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1020	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	SFIE	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1021	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1022	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1023	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	MFIE	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1024	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1025	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	NLI	MO	90%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1026	Appliances	ENERGY STAR Dehumidifier	SFIE	SF	LI	MO	90%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1027	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1028	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	NLI	MO	90%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1029	Appliances	ENERGY STAR Dehumidifier	MFIE	MF	LI	MO	90%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1030	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1031	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	NLI	MO	90%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1032	Appliances	ENERGY STAR Most Efficient Dehumidifier	SFIE	SF	LI	MO	90%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1033	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1034	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	NLI	MO	90%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1035	Appliances	ENERGY STAR Most Efficient Dehumidifier	MFIE	MF	LI	MO	90%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1036	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1037	Appliances	Dehumidifier Recycling	N/A	SF	N/A	Recycle	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
1038	Appliances	Dehumidifier Recycling	N/A	MF	N/A	Recycle	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
1039	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER1	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1040	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER2	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1041	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER3	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1042	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER1	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1043	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER2	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1044	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER3	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1045	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER1	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1046	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER2	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1047	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER3	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1048	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER1	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1049	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER2	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1050	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER3	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1051	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER1	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1052	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER2	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1053	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER3	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1054	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER1	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1055	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER2	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1056	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER3	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1057	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER1	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1058	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER2	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1059	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER3	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1060	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER1	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1061	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER2	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1062	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER3	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1063	Appliances	Refrigerator Recycling	N/A	SF	N/A	Recycle	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
1064	Appliances	Refrigerator Recycling	N/A	MF	N/A	Recycle	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
1065	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1066	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1067	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1068	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1069	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1070	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1071	Appliances	Freezer Recycling	N/A	SF	N/A	Recycle	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
1072	Appliances	Freezer Recycling	N/A	MF	N/A	Recycle	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
1073	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	NLI	MO	82%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1074	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	LI	MO	82%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1075	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1076	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	NLI	MO	82%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1077	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	LI	MO	82%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1078	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1079	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1080	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1081	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1082	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1083	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1084	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1085	Appliances	Heat Pump Dryer	N/A	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1086	Appliances	Heat Pump Dryer	N/A	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1087	Appliances	Heat Pump Dryer	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1088	Appliances	Heat Pump Dryer	N/A	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1089	Appliances	Heat Pump Dryer	N/A	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1090	Appliances	Heat Pump Dryer	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1091	Appliances	Ultrasonic Clothes Dryer	N/A	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1092	Appliances	Ultrasonic Clothes Dryer	N/A	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1093	Appliances	Ultrasonic Clothes Dryer	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1094	Appliances	Ultrasonic Clothes Dryer	N/A	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1095	Appliances	Ultrasonic Clothes Dryer	N/A	MF	LI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1096	Appliances	Ultrasonic Clothes Dryer	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1097	Appliances	ENERGY STAR Dishwasher	N/A	SF	NLI	MO	82%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1098	Appliances	ENERGY STAR Dishwasher	N/A	SF	LI	MO	82%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
1099	Appliances	ENERGY STAR Dishwasher	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
1100	Appliances	ENERGY STAR Dishwasher	N/A	MF	NLI	MO	82%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
1101	Appliances	ENERGY STAR Dishwasher	N/A	MF	LI	MO	82%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
1102	Appliances	ENERGY STAR Dishwasher	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
2001	Behavior	Home Energy Reports	N/A	SF	NLI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2002	Behavior	Home Energy Reports	N/A	SF	LI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2003	Behavior	Home Energy Reports	N/A	SF	N/A	NC	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2004	Behavior	Home Energy Reports	N/A	MF	NLI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2005	Behavior	Home Energy Reports	N/A	MF	LI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2006	Behavior	Home Energy Reports	N/A	MF	N/A	NC	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
3001	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3002	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	85%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3003	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	89%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3004	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	94%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3005	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3006	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	SFIE	SF	LI	Retrofit	85%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3007	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	PAYS	MF	NLI	Retrofit	89%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3008	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	MFIE	MF	LI	Retrofit	94%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3009	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3010	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	SFIE	SF	LI	Retrofit	85%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3011	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	89%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3012	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	MFIE	MF	LI	Retrofit	94%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3013	Building Shell	Door Sweep	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3014	Building Shell	Door Sweep	SFIE	SF	LI	Retrofit	85%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3015	Building Shell	Door Sweep	PAYS	MF	NLI	Retrofit	89%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3016	Building Shell	Door Sweep	MFIE	MF	LI	Retrofit	94%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3017	Building Shell	Weatherstripping: 17' Roll	N/A	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3018	Building Shell	Weatherstripping: 17' Roll	SFIE	SF	LI	Retrofit	85%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3019	Building Shell	Weatherstripping: 17' Roll	N/A	MF	NLI	Retrofit	89%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3020	Building Shell	Weatherstripping: 17' Roll	MFIE	MF	LI	Retrofit	94%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3021	Building Shell	Duct Insulation - Electric Heating	PAYS	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3022	Building Shell	Duct Insulation - Electric Heating	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3023	Building Shell	Duct Insulation - Gas Heating	PAYS	SF	NLI	Retrofit	72%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3024	Building Shell	Duct Insulation - Gas Heating	SFIE	SF	LI	Retrofit	59%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3025	Building Shell	Duct Repair (Sealing) - Electric Heating SF	PAYS	SF	NLI	Retrofit	90%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3026	Building Shell	Duct Repair (Sealing) - Electric Heating SF	SFIE	SF	LI	Retrofit	79%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3027	Building Shell	Duct Repair (Sealing) - Gas Heating SF	PAYS	SF	NLI	Retrofit	90%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3028	Building Shell	Duct Repair (Sealing) - Gas Heating SF	SFIE	SF	LI	Retrofit	79%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3029	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	PAYS	MF	NLI	Retrofit	85%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3030	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3031	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	PAYS	MF	NLI	Retrofit	85%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3032	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3033	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3034	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3035	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3036	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3037	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3038	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3039	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3040	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3041	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3042	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3043	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3044	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3045	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3046	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3047	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3048	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3049	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3050	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3051	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3052	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3053	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3054	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3055	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3056	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3057	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3058	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3059	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3060	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3061	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3062	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3063	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3064	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3065	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3066	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3067	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3068	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3069	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3070	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3071	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3072	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3073	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3074	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3075	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3076	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3077	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3078	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3079	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3080	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3081	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3082	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3083	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3084	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3085	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3086	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	88%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3087	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3088	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3089	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3090	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3091	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3092	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3093	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Heat Pump Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3094	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Non-Electric Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3095	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Heat Pump Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3096	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Non-Electric Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3097	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Heat Pump Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3098	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Non-Electric Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3099	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Heat Pump Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3100	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Non-Electric Heating	SFIE	SF	LI	Retrofit	59%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3101	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Heat Pump Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3102	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3103	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Heat Pump Heating	MFIE	MF	LI	Retrofit	81%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3104	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3105	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Heat Pump Heating	MFIE	MF	LI	Retrofit	81%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3106	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3107	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Heat Pump Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3108	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3109	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3110	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	62%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
3111	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3112	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	59%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3113	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3114	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	62%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
3115	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3116	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	59%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3117	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3118	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	62%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
3119	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3120	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	59%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3121	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	NLI	Retrofit	75%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3122	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3123	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3124	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	LI	Retrofit	81%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3125	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	75%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3126	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3127	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3128	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	LI	Retrofit	81%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3129	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	75%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3130	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3131	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3132	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	LI	Retrofit	81%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3133	Building Shell	Wall Insulation - Heat pump	N/A	SF	NLI	Retrofit	96%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3134	Building Shell	Wall Insulation - Heat pump	N/A	SF	LI	Retrofit	92%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3135	Building Shell	Wall Insulation - Heat pump	N/A	MF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3136	Building Shell	Wall Insulation - Heat pump	N/A	MF	LI	Retrofit	89%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
3137	Building Shell	Wall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	96%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3138	Building Shell	Wall Insulation - Electric furnace	N/A	SF	LI	Retrofit	92%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3139	Building Shell	Wall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3140	Building Shell	Wall Insulation - Electric furnace	N/A	MF	LI	Retrofit	89%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
3141	Building Shell	Wall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	96%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3142	Building Shell	Wall Insulation - Gas Heating	N/A	SF	LI	Retrofit	92%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3143	Building Shell	Wall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3144	Building Shell	Wall Insulation - Gas Heating	N/A	MF	LI	Retrofit	89%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
3145	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3146	Building Shell	Spray Foam Insulation: 12 oz. Can	SFIE	SF	LI	Retrofit	85%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3147	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	N/A	NC	72%	4%	5%	7%	9%	12%	16%	20%	26%	31%	38%	44%	50%	55%	59%	63%	66%	68%	70%	71%	72%
3148	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	NLI	Retrofit	89%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3149	Building Shell	Spray Foam Insulation: 12 oz. Can	MFIE	MF	LI	Retrofit	94%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3150	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	N/A	NC	52%	3%	4%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
3151	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3152	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3153	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3154	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3155	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3156	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3157	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3158	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	81%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3159	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3160	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3161	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3162	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3163	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3164	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3165	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3166	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	81%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3167	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3168	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3169	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3170	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3171	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3172	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3173	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3174	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3175	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3176	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3177	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3178	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3179	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3180	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3181	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3182	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3183	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3184	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3185	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3186	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3187	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3188	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3189	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3190	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	81%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3191	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3192	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3193	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3194	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	81%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3195	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3196	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	59%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3197	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3198	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	81%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3199	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	NLI	Retrofit	90%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3200	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3201	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3202	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	LI	Retrofit	81%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3203	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	NLI	Retrofit	90%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3204	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3205	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3206	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	LI	Retrofit	81%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3207	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	NLI	Retrofit	90%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3208	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3209	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3210	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	LI	Retrofit	81%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3211	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	NLI	Retrofit	90%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3212	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3213	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3214	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	LI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3215	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	NLI	Retrofit	90%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3216	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3217	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3218	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	LI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3219	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	NLI	Retrofit	90%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3220	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3221	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3222	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	LI	Retrofit	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3223	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3224	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3225	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3226	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3227	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3228	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3229	Building Shell	Floor Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3230	Building Shell	Floor Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3231	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3232	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3233	Building Shell	Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3234	Building Shell	Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4001	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4002	HVAC	ASHP-SEER15_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4003	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4004	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4005	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4006	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4007	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4008	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4009	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4010	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4011	HVAC	ASHP-SEER15_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4012	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4013	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4014	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4015	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4016	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4017	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4018	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4019	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4020	HVAC	ASHP-SEER16_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4021	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4022	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4023	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4024	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4025	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4026	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4027	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4028	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4029	HVAC	ASHP-SEER16_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4030	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4031	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4032	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4033	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4034	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4035	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4036	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4037	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4038	HVAC	ASHP-SEER17_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4039	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4040	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4041	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4042	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4043	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4044	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4045	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4046	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4047	HVAC	ASHP-SEER17_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4048	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4049	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4050	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4051	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4052	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4053	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4054	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4055	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4056	HVAC	ASHP-SEER18_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4057	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4058	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4059	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4060	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4061	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4062	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4063	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4064	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4065	HVAC	ASHP-SEER18_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4066	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4067	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4068	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4069	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4070	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4071	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4072	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4073	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4074	HVAC	ASHP-SEER19_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4075	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4076	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4077	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4078	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4079	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4080	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4081	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4082	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4083	HVAC	ASHP-SEER19_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4084	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4085	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4086	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4087	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4088	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4089	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4090	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4091	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4092	HVAC	ASHP-SEER20_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4093	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4094	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4095	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4096	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4097	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4098	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4099	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4100	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4101	HVAC	ASHP-SEER20_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4102	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4103	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4104	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4105	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4106	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4107	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4108	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4109	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4110	HVAC	ASHP-SEER21_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4111	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4112	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4113	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4114	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4115	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4116	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4117	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4118	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4119	HVAC	ASHP-SEER21_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4120	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4121	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4122	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4123	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4124	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4125	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4126	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4127	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4128	HVAC	GSHP-EER23_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4129	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4130	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4131	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4132	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4133	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4134	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4135	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4136	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4137	HVAC	DFHP-SEER19-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4138	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4139	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4140	HVAC	DFHP-SEER20-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4141	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4142	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4143	HVAC	DFHP-SEER21-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4144	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4145	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4146	HVAC	Mini/MultiSplitASHP_ROF_SF	SFIE	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4147	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4148	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4149	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4150	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4151	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4152	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4153	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4154	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4155	HVAC	Mini/MultiSplitASHP_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4156	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4157	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4158	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4159	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4160	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4161	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4162	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4163	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4164	HVAC	PTHP-SEER12-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4165	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4166	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4167	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4168	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4169	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4170	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4171	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4172	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4173	HVAC	PTHP-SEER13-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4174	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4175	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4176	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4177	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4178	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4179	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4180	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4181	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4182	HVAC	PTHP-SEER14-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4183	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4184	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4185	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4186	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4187	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4188	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4189	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4190	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4191	HVAC	PTHP-SEER15-ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4192	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4193	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4194	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4195	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4196	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4197	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4198	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4199	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4200	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4201	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4202	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4203	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4204	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4205	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4206	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4207	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4208	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4209	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4210	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4211	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4212	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4213	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4214	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4215	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4216	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4217	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4218	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4219	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4220	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4221	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4222	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4223	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4224	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4225	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4226	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4227	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4228	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4229	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4230	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4231	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4232	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4233	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4234	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4235	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4236	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4237	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4238	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4239	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4240	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4241	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4242	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4243	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4244	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4245	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4246	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4247	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4248	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4249	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4250	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4251	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4252	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4253	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4254	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4255	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4256	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4257	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4258	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4259	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4260	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4261	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4262	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4263	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4264	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4265	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4266	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4267	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4268	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4269	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4270	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4271	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4272	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4273	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4274	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4275	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4276	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4277	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4278	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4279	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4280	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4281	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4282	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4283	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4284	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4285	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4286	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4287	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4288	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4289	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4290	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4291	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4292	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4293	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4294	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4295	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4296	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4297	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4298	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4299	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4300	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4301	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4302	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4303	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4304	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4305	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4306	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4307	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4308	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4309	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4310	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4311	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4312	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4313	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4314	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4315	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4316	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4317	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4318	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4319	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4320	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4321	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4322	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4323	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4324	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4325	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4326	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4327	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4328	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4329	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4330	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4331	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4332	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4333	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4334	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4335	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4336	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4337	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4338	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4339	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4340	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4341	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4342	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4343	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4344	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4345	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4346	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4347	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4348	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4349	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4350	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4351	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4352	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4353	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4354	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4355	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4356	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4357	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4358	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4359	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4360	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4361	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4362	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4363	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4364	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4365	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4366	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4367	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4368	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4369	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4370	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4371	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4372	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4373	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4374	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4375	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4376	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4377	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4378	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4379	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4380	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4381	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4382	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4383	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4384	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4385	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4386	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4387	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4388	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4389	HVAC	CAC-SEER15_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4390	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4391	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4392	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4393	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4394	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4395	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4396	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4397	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4398	HVAC	CAC-SEER15_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4399	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4400	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4401	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4402	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4403	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4404	HVAC	CAC-SEER15_ER1_MF	PAYS	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4405	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4406	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4407	HVAC	CAC-SEER16_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4408	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4409	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4410	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4411	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4412	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4413	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4414	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4415	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4416	HVAC	CAC-SEER16_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4417	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4418	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4419	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4420	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4421	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4422	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4423	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4424	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4425	HVAC	CAC-SEER17_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4426	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4427	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4428	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4429	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4430	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4431	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4432	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4433	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4434	HVAC	CAC-SEER17_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4435	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4436	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4437	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4438	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4439	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4440	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4441	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4442	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4443	HVAC	CAC-SEER18_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4444	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4445	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4446	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4447	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4448	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4449	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4450	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4451	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4452	HVAC	CAC-SEER18_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4453	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4454	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4455	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4456	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4457	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4458	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4459	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4460	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4461	HVAC	CAC-SEER19_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4462	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4463	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4464	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4465	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4466	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4467	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4468	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4469	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4470	HVAC	CAC-SEER19_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4471	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4472	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4473	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4474	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4475	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4476	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4477	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4478	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4479	HVAC	CAC-SEER20_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4480	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4481	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4482	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4483	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4484	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4485	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4486	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4487	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4488	HVAC	CAC-SEER20_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4489	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4490	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4491	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4492	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4493	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4494	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4495	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4496	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4497	HVAC	CAC-SEER21_ROF_SF	PAYS	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4498	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4499	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4500	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4501	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4502	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4503	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4504	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4505	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4506	HVAC	CAC-SEER21_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4507	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4508	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4509	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4510	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4511	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4512	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4513	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4514	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4515	HVAC	Mini/MultiSplitAC_ROF_SF	SFIE	SF	LI	MO	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4516	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4517	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER1	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4518	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER2	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4519	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER3	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4520	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER1	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4521	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER2	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4522	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER3	66%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4523	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4524	HVAC	Mini/MultiSplitAC_ROF_MF	MFIE	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4525	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4526	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER1	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4527	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER2	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4528	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER3	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4529	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER1	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4530	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER2	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4531	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER3	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4532	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4533	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4534	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4535	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4536	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4537	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4538	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4539	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4540	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	NLI	MO	78%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4541	HVAC	AC - Energy Star Room _unknown size_SF	SFIE	SF	LI	MO	78%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4542	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4543	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	NLI	MO	78%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4544	HVAC	AC - Energy Star Room _unknown size_SF	MFIE	MF	LI	MO	78%	2%	3%	4%	6%	8%	10%	14%	17%	21%	25%	29%	33%	37%	40%	42%	44%	46%	47%	48%	48%
4545	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4546	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4547	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4548	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4549	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4550	HVAC	HP tune-up / Packaged Service SF	N/A	SF	NLI	Retrofit	85%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4551	HVAC	HP tune-up / Packaged Service SF	SFIE	SF	LI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4552	HVAC	HP tune-up / Packaged Service SF	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4553	HVAC	HP tune-up / Packaged Service MF	N/A	MF	NLI	Retrofit	88%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4554	HVAC	HP tune-up / Packaged Service MF	MFIE	MF	LI	Retrofit	90%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4555	HVAC	HP tune-up / Packaged Service MF	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4556	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	85%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4557	HVAC	HP tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4558	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4559	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	88%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4560	HVAC	HP tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	90%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4561	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4562	HVAC	AC Tune-up / Packaged service SF	N/A	SF	NLI	Retrofit	85%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4563	HVAC	AC Tune-up / Packaged service SF	SFIE	SF	LI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4564	HVAC	AC Tune-up / Packaged service SF	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4565	HVAC	AC Tune-up / Packaged service MF	N/A	MF	NLI	Retrofit	88%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4566	HVAC	AC Tune-up / Packaged service MF	MFIE	MF	LI	Retrofit	90%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4567	HVAC	AC Tune-up / Packaged service MF	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4568	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	85%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4569	HVAC	AC Tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4570	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4571	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	88%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4572	HVAC	AC Tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	90%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4573	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4574	HVAC	Dirty Filter Alarm_SF	HVAC	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4575	HVAC	Dirty Filter Alarm_SF	SFIE	SF	LI	Retrofit	82%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4576	HVAC	Dirty Filter Alarm_MF	HVAC	MF	NLI	Retrofit	86%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4577	HVAC	Dirty Filter Alarm_MF	MFIE	MF	LI	Retrofit	74%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4578	HVAC	ECM Fan	HVAC	SF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4579	HVAC	ECM Fan	SFIE	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4580	HVAC	ECM Fan	HVAC	MF	NLI	Retrofit	62%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4581	HVAC	ECM Fan	MFIE	MF	LI	Retrofit	65%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4582	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4583	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4584	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4585	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4586	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4587	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4588	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4589	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4590	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4591	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4592	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4593	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4594	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4595	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4596	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4597	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4598	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4599	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4600	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4601	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
4602	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4603	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4604	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4605	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4606	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	NLI	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4607	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	LI	MO	62%	3%	4%	6%	8%	10%	13%	17%	22%	27%	32%	37%	42%	47%	50%	54%	56%	58%	60%	61%	62%
4608	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4609	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	NLI	MO	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4610	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	LI	MO	65%	3%	4%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%
4611	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	N/A	NC	62%	3%	4%	6%	8%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	62%	62%
4612	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4613	HVAC	Learning Thermostat - electric furnace heating / central AC SF	SFIE	SF	LI	Retrofit	62%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4614	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4615	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4616	HVAC	Learning Thermostat - electric furnace heating / central AC MF	MFIE	MF	LI	Retrofit	48%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4617	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4618	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	NLI	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4619	HVAC	Learning Thermostat - Gas Heated / central AC SF**	SFIE	SF	LI	Retrofit	62%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4620	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4621	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4622	HVAC	Learning Thermostat - Gas Heated / central AC MF**	MFIE	MF	LI	Retrofit	48%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4623	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4624	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4625	HVAC	Learning Thermostat - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	62%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4626	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4627	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4628	HVAC	Learning Thermostat - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	48%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4629	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4630	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4631	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	SFIE	SF	LI	Retrofit	62%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4632	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4633	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4634	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	MFIE	MF	LI	Retrofit	48%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4635	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4636	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	NLI	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4637	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	SFIE	SF	LI	Retrofit	62%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4638	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4639	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4640	HVAC	Setback thermostat - full setback - gas heating / central AC MF	MFIE	MF	LI	Retrofit	48%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4641	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
4642	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4643	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	62%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4644	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	58%	61%	63%	65%	66%	67%
4645	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4646	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	48%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4647	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
5001	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5002	Lighting	LED - 10W (750-899 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5003	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5004	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5005	Lighting	LED - 10W (750-899 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5006	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5007	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5008	Lighting	LED - 15W (900-1399 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5009	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5010	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5011	Lighting	LED - 15W (900-1399 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5012	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5013	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5014	Lighting	LED - 20W (1400-1999 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5015	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5016	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5017	Lighting	LED - 20W (1400-1999 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5018	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5019	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5020	Lighting	LED - 6W (400-749 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5021	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5022	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5023	Lighting	LED - 6W (400-749 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5024	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5025	Lighting	LED A19 800 Lumens 6W	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5026	Lighting	LED A19 800 Lumens 6W	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5027	Lighting	LED A19 800 Lumens 6W	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5028	Lighting	LED A19 800 Lumens 6W	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5029	Lighting	LED A19 800 Lumens 6W	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5030	Lighting	LED A19 800 Lumens 6W	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5031	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5032	Lighting	LED - 10.5W Downlight E26 IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5033	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5034	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5035	Lighting	LED - 10.5W Downlight E26 IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5036	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5037	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5038	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5039	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5040	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5041	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5042	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5043	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5044	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5045	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5046	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5047	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5048	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5049	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5050	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5051	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5052	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5053	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5054	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5055	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5056	Lighting	LED - 12W Dimmable Light Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5057	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5058	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5059	Lighting	LED - 12W Dimmable Light Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5060	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5061	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5062	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5063	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5064	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5065	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5066	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5067	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5068	Lighting	LED - 4W Candelabra Specialty IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5069	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5070	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5071	Lighting	LED - 4W Candelabra Specialty IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5072	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5073	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5074	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5075	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5076	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5077	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5078	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5079	Lighting	LED Nightlights	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5080	Lighting	LED Nightlights	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5081	Lighting	LED Nightlights	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5082	Lighting	LED Nightlights	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5083	Lighting	LED Nightlights	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5084	Lighting	LED Nightlights	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5085	Lighting	Occupancy Sensor	N/A	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5086	Lighting	Occupancy Sensor	N/A	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5087	Lighting	Occupancy Sensor	N/A	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5088	Lighting	Occupancy Sensor	N/A	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5089	Lighting	Occupancy Sensor	N/A	MF	LI	Retrofit	85%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5090	Lighting	Occupancy Sensor	N/A	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5091	Lighting	Exterior Lighting Controls	N/A	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5092	Lighting	Exterior Lighting Controls	N/A	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5093	Lighting	Exterior Lighting Controls	N/A	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5094	Lighting	Exterior Lighting Controls	N/A	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5095	Lighting	Exterior Lighting Controls	N/A	MF	LI	Retrofit	85%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5096	Lighting	Exterior Lighting Controls	N/A	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5097	Lighting	Advanced Lighting	N/A	SF	N/A	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
5098	Lighting	Advanced Lighting	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
5099	Lighting	Advanced Lighting	N/A	MF	N/A	MO	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
5100	Lighting	Advanced Lighting	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
6001	New Construction	Zero Energy Ready Home	N/A	SF	N/A	NC	72%	4%	5%	7%	9%	12%	16%	20%	26%	31%	38%	44%	50%	55%	59%	63%	66%	68%	70%	71%	72%
6002	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	SF	N/A	NC	72%	4%	5%	7%	9%	12%	16%	20%	26%	31%	38%	44%	50%	55%	59%	63%	66%	68%	70%	71%	72%
6003	New Construction	Zero Energy Ready Home	N/A	MF	N/A	NC	54%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	47%	50%	51%	53%	54%	54%
6004	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	MF	N/A	NC	54%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	47%	50%	51%	53%	54%	54%
7001	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	NLI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7002	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	SFIE	SF	LI	Retrofit	73%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7003	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
7004	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	NLI	Retrofit	73%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7005	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	MFIE	MF	LI	Retrofit	71%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7006	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
7007	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	NLI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7008	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	SFIE	SF	LI	Retrofit	73%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7009	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
7010	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	NLI	Retrofit	73%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7011	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	MFIE	MF	LI	Retrofit	71%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7012	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
7013	Plug Loads	ENERGY STAR TV	N/A	SF	NLI	Retrofit	82%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7014	Plug Loads	ENERGY STAR TV	N/A	SF	LI	Retrofit	82%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7015	Plug Loads	ENERGY STAR TV	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
7016	Plug Loads	ENERGY STAR TV	N/A	MF	NLI	Retrofit	82%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7017	Plug Loads	ENERGY STAR TV	N/A	MF	LI	Retrofit	82%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7018	Plug Loads	ENERGY STAR TV	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
7019	Plug Loads	Smart Plug	N/A	SF	NLI	Retrofit	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7020	Plug Loads	Smart Plug	N/A	SF	LI	Retrofit	54%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7021	Plug Loads	Smart Plug	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
7022	Plug Loads	Smart Plug	N/A	MF	NLI	Retrofit	55%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7023	Plug Loads	Smart Plug	N/A	MF	LI	Retrofit	51%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7024	Plug Loads	Smart Plug	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8001	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER1	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8002	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER2	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8003	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER3	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8004	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	NLI	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8005	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER1	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
8006	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER2	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
8007	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER3	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
8008	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	SF	LI	MO	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
8009	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8010	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER1	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8011	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER2	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8012	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER3	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8013	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	NLI	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8014	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER1	53%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
8015	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER2	53%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
8016	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER3	53%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
8017	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	MF	LI	MO	53%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	42%	44%	46%	48%	49%	50%	51%
8018	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8019	Pools	Heat Pump Pool Heater	N/A	SF	N/A	MO	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8020	Pools	Heat Pump Pool Heater	N/A	SF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	33%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
8021	Pools	Heat Pump Pool Heater	N/A	MF	N/A	MO	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
8022	Pools	Heat Pump Pool Heater	N/A	MF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	37%	41%	45%	48%	50%	52%	53%	54%	55%
9001	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	NLI	MO	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9002	Water Heating	Heat Pump Hot Water Heater	SFIE	SF	LI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	38%	42%	46%	49%	51%	53%	54%	55%	56%
9003	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9004	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	NLI	MO	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	32%	37%	40%	44%	46%	49%	50%	52%	53%	53%
9005	Water Heating	Heat Pump Hot Water Heater	MFIE	MF	LI	MO	57%	3%	4%	5%	7%	9%	12%	16%	20%	25%	30%	35%	39%	43%	47%	50%	52%	54%	55%	56%	57%
9006	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	N/A	NC	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	32%	37%	40%	44%	46%	49%	50%	52%	53%	53%
9007	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	74%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
9008	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	68%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9009	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9010	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	64%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9011	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	72%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9012	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
9013	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	74%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
9014	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	68%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9015	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9016	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	64%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9017	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	72%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9018	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
9019	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	NLI	Retrofit	75%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9020	Water Heating	Low Flow Showerhead SFIE DI	SFIE	SF	LI	Retrofit	70%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9021	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9022	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	NLI	Retrofit	78%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9023	Water Heating	Low Flow Showerhead SFIE DI	MFIE	MF	LI	Retrofit	74%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
9024	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
9025	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	NLI	Retrofit	60%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
9026	Water Heating	Pipe Insulation SFIE DI	SFIE	SF	LI	Retrofit	56%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
9027	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9028	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	NLI	Retrofit	63%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
9029	Water Heating	Pipe Insulation SFIE DI	MFIE	MF	LI	Retrofit	51%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9030	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
9031	Water Heating	Thermostatic Restrictor Valve	N/A	SF	NLI	Retrofit	60%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9032	Water Heating	Thermostatic Restrictor Valve	N/A	SF	LI	Retrofit	56%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9033	Water Heating	Thermostatic Restrictor Valve	N/A	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9034	Water Heating	Thermostatic Restrictor Valve	N/A	MF	NLI	Retrofit	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9035	Water Heating	Thermostatic Restrictor Valve	N/A	MF	LI	Retrofit	42%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
9036	Water Heating	Thermostatic Restrictor Valve	N/A	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
9037	Water Heating	Water Heater Wrap	N/A	SF	NLI	Retrofit	60%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9038	Water Heating	Water Heater Wrap	N/A	SF	LI	Retrofit	56%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9039	Water Heating	Water Heater Wrap	N/A	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9040	Water Heating	Water Heater Wrap	N/A	MF	NLI	Retrofit	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9041	Water Heating	Water Heater Wrap	N/A	MF	LI	Retrofit	42%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
9042	Water Heating	Water Heater Wrap	N/A	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%
9043	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9044	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%
9045	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9046	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	NC	67%	3%	5%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	62%	64%	65%	67%	67%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
9047	Water Heating	Water Heater Timer / Setback	N/A	SF	NLI	Retrofit	60%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9048	Water Heating	Water Heater Timer / Setback	N/A	SF	LI	Retrofit	56%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9049	Water Heating	Water Heater Timer / Setback	N/A	SF	N/A	NC	60%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	50%	53%	55%	57%	59%	60%	60%
9050	Water Heating	Water Heater Timer / Setback	N/A	MF	NLI	Retrofit	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9051	Water Heating	Water Heater Timer / Setback	N/A	MF	LI	Retrofit	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9052	Water Heating	Water Heater Timer / Setback	N/A	MF	N/A	NC	63%	3%	4%	6%	8%	10%	14%	18%	22%	27%	32%	38%	43%	47%	51%	55%	57%	59%	61%	62%	63%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1001	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	NLI	MO	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1002	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	SFIE	SF	LI	MO	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1003	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	SF	N/A	NC	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1004	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	NLI	MO	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1005	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	MFIE	MF	LI	MO	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1006	Appliances	ENERGY STAR Air Purifier/Cleaner: 30 ≤ Smoke CADR < 100	PAYS	MF	N/A	NC	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1007	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	NLI	MO	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1008	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	SFIE	SF	LI	MO	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1009	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	SF	N/A	NC	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1010	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	NLI	MO	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1011	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1012	Appliances	ENERGY STAR Air Purifier/Cleaner: 100 ≤ Smoke CADR < 150	PAYS	MF	N/A	NC	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1013	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	NLI	MO	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1014	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	SFIE	SF	LI	MO	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1015	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	SF	N/A	NC	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1016	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	NLI	MO	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1017	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	MFIE	MF	LI	MO	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1018	Appliances	ENERGY STAR Air Purifier/Cleaner: 150 ≤ Smoke CADR < 200	PAYS	MF	N/A	NC	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1019	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	NLI	MO	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1020	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	SFIE	SF	LI	MO	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1021	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	SF	N/A	NC	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1022	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	NLI	MO	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1023	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	MFIE	MF	LI	MO	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1024	Appliances	ENERGY STAR Air Purifier/Cleaner: 200 ≤ Smoke CADR	PAYS	MF	N/A	NC	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1025	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	NLI	MO	88%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1026	Appliances	ENERGY STAR Dehumidifier	SFIE	SF	LI	MO	88%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1027	Appliances	ENERGY STAR Dehumidifier	PAYS	SF	N/A	NC	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
1028	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	NLI	MO	88%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1029	Appliances	ENERGY STAR Dehumidifier	MFIE	MF	LI	MO	88%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1030	Appliances	ENERGY STAR Dehumidifier	PAYS	MF	N/A	NC	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
1031	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	NLI	MO	88%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	33%	38%	42%	45%	48%	51%	52%	54%	55%	55%
1032	Appliances	ENERGY STAR Most Efficient Dehumidifier	SFIE	SF	LI	MO	88%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1033	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	SF	N/A	NC	55%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	33%	38%	42%	45%	48%	51%	52%	54%	55%	55%
1034	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	NLI	MO	88%	2%	3%	4%	6%	8%	10%	13%	17%	20%	24%	28%	32%	36%	38%	41%	43%	44%	45%	46%	47%
1035	Appliances	ENERGY STAR Most Efficient Dehumidifier	MFIE	MF	LI	MO	88%	1%	1%	2%	3%	3%	5%	6%	7%	9%	11%	13%	14%	16%	17%	18%	19%	20%	20%	20%	21%
1036	Appliances	ENERGY STAR Most Efficient Dehumidifier	PAYS	MF	N/A	NC	47%	2%	3%	4%	6%	8%	10%	13%	17%	20%	24%	28%	32%	36%	38%	41%	43%	44%	45%	46%	47%
1037	Appliances	Dehumidifier Recycling	N/A	SF	N/A	Recycle	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
1038	Appliances	Dehumidifier Recycling	N/A	MF	N/A	Recycle	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
1039	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER1	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1040	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1041	Appliances	Refrigerator - early replacement ER1	N/A	SF	NLI	ER3	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1042	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER1	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1043	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER2	40%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1044	Appliances	Refrigerator - early replacement ER1	SFIE	SF	LI	ER3	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1045	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER1	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1046	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1047	Appliances	Refrigerator - early replacement ER1	N/A	MF	NLI	ER3	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1048	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER1	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1049	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER2	40%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1050	Appliances	Refrigerator - early replacement ER1	MFIE	MF	LI	ER3	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1051	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER1	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1052	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1053	Appliances	Refrigerator - Pre 1993 - ER1	N/A	SF	NLI	ER3	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1054	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER1	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1055	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER2	40%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1056	Appliances	Refrigerator - Pre 1993 - ER1	SFIE	SF	LI	ER3	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
1057	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER1	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1058	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1059	Appliances	Refrigerator - Pre 1993 - ER1	N/A	MF	NLI	ER3	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1060	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER1	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1061	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER2	40%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1062	Appliances	Refrigerator - Pre 1993 - ER1	MFIE	MF	LI	ER3	40%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
1063	Appliances	Refrigerator Recycling	N/A	SF	N/A	Recycle	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
1064	Appliances	Refrigerator Recycling	N/A	MF	N/A	Recycle	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
1065	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	NLI	MO	35%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1066	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	LI	MO	35%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1067	Appliances	ENERGY STAR Freezer - Chest	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1068	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	NLI	MO	35%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1069	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	LI	MO	35%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1070	Appliances	ENERGY STAR Freezer - Chest	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1071	Appliances	Freezer Recycling	N/A	SF	N/A	Recycle	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
1072	Appliances	Freezer Recycling	N/A	MF	N/A	Recycle	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
1073	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	NLI	MO	79%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1074	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	LI	MO	79%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1075	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1076	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	NLI	MO	79%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1077	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	LI	MO	79%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1078	Appliances	ENERGY STAR Clothes Washer (CEE Tier 2)	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1079	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	NLI	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1080	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	LI	MO	26%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1081	Appliances	ENERGY STAR Clothes Dryer	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1082	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	NLI	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1083	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	LI	MO	26%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1084	Appliances	ENERGY STAR Clothes Dryer	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1085	Appliances	Heat Pump Dryer	N/A	SF	NLI	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1086	Appliances	Heat Pump Dryer	N/A	SF	LI	MO	26%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1087	Appliances	Heat Pump Dryer	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1088	Appliances	Heat Pump Dryer	N/A	MF	NLI	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1089	Appliances	Heat Pump Dryer	N/A	MF	LI	MO	26%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1090	Appliances	Heat Pump Dryer	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1091	Appliances	Ultrasonic Clothes Dryer	N/A	SF	NLI	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1092	Appliances	Ultrasonic Clothes Dryer	N/A	SF	LI	MO	22%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1093	Appliances	Ultrasonic Clothes Dryer	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1094	Appliances	Ultrasonic Clothes Dryer	N/A	MF	NLI	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1095	Appliances	Ultrasonic Clothes Dryer	N/A	MF	LI	MO	21%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1096	Appliances	Ultrasonic Clothes Dryer	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1097	Appliances	ENERGY STAR Dishwasher	N/A	SF	NLI	MO	80%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1098	Appliances	ENERGY STAR Dishwasher	N/A	SF	LI	MO	80%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
1099	Appliances	ENERGY STAR Dishwasher	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1100	Appliances	ENERGY STAR Dishwasher	N/A	MF	NLI	MO	80%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
1101	Appliances	ENERGY STAR Dishwasher	N/A	MF	LI	MO	80%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
1102	Appliances	ENERGY STAR Dishwasher	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
2001	Behavior	Home Energy Reports	N/A	SF	NLI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2002	Behavior	Home Energy Reports	N/A	SF	LI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2003	Behavior	Home Energy Reports	N/A	SF	N/A	NC	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2004	Behavior	Home Energy Reports	N/A	MF	NLI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2005	Behavior	Home Energy Reports	N/A	MF	LI	MO	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
2006	Behavior	Home Energy Reports	N/A	MF	N/A	NC	90%	4%	6%	8%	11%	15%	20%	25%	32%	39%	47%	54%	62%	68%	74%	78%	82%	85%	87%	89%	90%
3001	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3002	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	82%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3003	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3004	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	93%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3005	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	PAYS	SF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3006	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI Gas furnace base	SFIE	SF	LI	Retrofit	82%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3007	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	PAYS	MF	NLI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3008	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI gas furnace base	MFIE	MF	LI	Retrofit	93%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3009	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3010	Building Shell	Air Sealing (Infiltration reduction) - 30% SF IE DI heat pump base	SFIE	SF	LI	Retrofit	82%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3011	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3012	Building Shell	Air Sealing (Infiltration reduction) - 30% MF IE DI heat pump base	MFIE	MF	LI	Retrofit	93%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3013	Building Shell	Door Sweep	PAYS	SF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3014	Building Shell	Door Sweep	SFIE	SF	LI	Retrofit	82%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3015	Building Shell	Door Sweep	PAYS	MF	NLI	Retrofit	87%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3016	Building Shell	Door Sweep	MFIE	MF	LI	Retrofit	93%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3017	Building Shell	Weatherstripping: 17' Roll	N/A	SF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3018	Building Shell	Weatherstripping: 17' Roll	SFIE	SF	LI	Retrofit	82%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3019	Building Shell	Weatherstripping: 17' Roll	N/A	MF	NLI	Retrofit	87%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3020	Building Shell	Weatherstripping: 17' Roll	MFIE	MF	LI	Retrofit	93%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3021	Building Shell	Duct Insulation - Electric Heating	PAYS	SF	NLI	Retrofit	72%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3022	Building Shell	Duct Insulation - Electric Heating	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3023	Building Shell	Duct Insulation - Gas Heating	PAYS	SF	NLI	Retrofit	56%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3024	Building Shell	Duct Insulation - Gas Heating	SFIE	SF	LI	Retrofit	50%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3025	Building Shell	Duct Repair (Sealing) - Electric Heating SF	PAYS	SF	NLI	Retrofit	89%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3026	Building Shell	Duct Repair (Sealing) - Electric Heating SF	SFIE	SF	LI	Retrofit	76%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3027	Building Shell	Duct Repair (Sealing) - Gas Heating SF	PAYS	SF	NLI	Retrofit	88%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3028	Building Shell	Duct Repair (Sealing) - Gas Heating SF	SFIE	SF	LI	Retrofit	76%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3029	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	PAYS	MF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3030	Building Shell	Duct Repair (Sealing) - Electric Heating MF Adjusted	MFIE	MF	LI	Retrofit	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3031	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	PAYS	MF	NLI	Retrofit	81%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3032	Building Shell	Duct Repair (Sealing) - Gas Heating MF Adjusted	MFIE	MF	LI	Retrofit	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3033	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3034	Building Shell	Ceiling Insulation R11-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3035	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3036	Building Shell	Ceiling Insulation R11-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3037	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3038	Building Shell	Ceiling Insulation R11-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3039	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	64%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3040	Building Shell	Ceiling Insulation R11-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3041	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3042	Building Shell	Ceiling Insulation R11-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3043	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3044	Building Shell	Ceiling Insulation R11-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3045	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3046	Building Shell	Ceiling Insulation R5-R30 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3047	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3048	Building Shell	Ceiling Insulation R5-R30 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3049	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3050	Building Shell	Ceiling Insulation R5-R30 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3051	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3052	Building Shell	Ceiling Insulation R5-R30 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3053	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	62%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3054	Building Shell	Ceiling Insulation R5-R30 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3055	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3056	Building Shell	Ceiling Insulation R5-R30 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3057	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3058	Building Shell	Ceiling Insulation R5-R38 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3059	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3060	Building Shell	Ceiling Insulation R5-R38 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3061	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3062	Building Shell	Ceiling Insulation R5-R38 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3063	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3064	Building Shell	Ceiling Insulation R5-R38 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3065	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3066	Building Shell	Ceiling Insulation R5-R38 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3067	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3068	Building Shell	Ceiling Insulation R5-R38 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3069	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3070	Building Shell	Ceiling Insulation R5-R49 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3071	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3072	Building Shell	Ceiling Insulation R5-R49 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3073	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3074	Building Shell	Ceiling Insulation R5-R49 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3075	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3076	Building Shell	Ceiling Insulation R5-R49 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3077	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3078	Building Shell	Ceiling Insulation R5-R49 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3079	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	64%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3080	Building Shell	Ceiling Insulation R5-R49 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3081	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3082	Building Shell	Ceiling Insulation R5-R60 SF IE DI electric furnace base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3083	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3084	Building Shell	Ceiling Insulation R5-R60 SF IE DI gas heat electric cool base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3085	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	PAYS	SF	NLI	Retrofit	93%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3086	Building Shell	Ceiling Insulation R5-R60 SF IE DI heat pump base	SFIE	SF	LI	Retrofit	86%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3087	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	PAYS	MF	NLI	Retrofit	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3088	Building Shell	Ceiling Insulation R5-R60 MF IE DI electric furnace base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3089	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3090	Building Shell	Ceiling Insulation R5-R60 MF IE DI gas heat electric cool base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3091	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	PAYS	MF	NLI	Retrofit	63%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3092	Building Shell	Ceiling Insulation R5-R60 MF IE DI heat pump base	MFIE	MF	LI	Retrofit	69%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3093	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Heat Pump Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3094	Building Shell	Cool Roof: Single Family Vintage 1980-1999-Non-Electric Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3095	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Heat Pump Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3096	Building Shell	Cool Roof: Single Family Vintage 2000-2009-Non-Electric Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3097	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Heat Pump Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3098	Building Shell	Cool Roof: Single Family Vintage 2010-2015-Non-Electric Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3099	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Heat Pump Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3100	Building Shell	Cool Roof: Single Family Vintage Up to 1979-Non-Electric Heating	SFIE	SF	LI	Retrofit	50%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3101	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Heat Pump Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3102	Building Shell	Cool Roof: Multi-Family Vintage 1980-1999-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3103	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Heat Pump Heating	MFIE	MF	LI	Retrofit	52%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3104	Building Shell	Cool Roof: Multi-Family Vintage 2000-2009-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3105	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Heat Pump Heating	MFIE	MF	LI	Retrofit	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
3106	Building Shell	Cool Roof: Multi-Family Vintage 2010-2015-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3107	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Heat Pump Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3108	Building Shell	Cool Roof: Multi-Family Vintage Up to 1979-Non-Electric Heating	MFIE	MF	LI	Retrofit	81%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3109	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3110	Building Shell	Floor Insulation R25 (R-13 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	57%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
3111	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	37%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3112	Building Shell	Floor Insulation R25 (R-13 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	51%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3113	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3114	Building Shell	Floor Insulation R25 (R-13 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	57%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
3115	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	37%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3116	Building Shell	Floor Insulation R25 (R-3.96 base) MH electric furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	51%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3117	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	N/A	SF	NLI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3118	Building Shell	Floor Insulation R25 (R-3.96 base) MH gas furnace/baseboard and electric cooling	SFIE	SF	LI	Retrofit	57%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
3119	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	N/A	SF	NLI	Retrofit	37%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3120	Building Shell	Floor Insulation R25 (R-3.96 base) MH heat pump and electric cooling	SFIE	SF	LI	Retrofit	51%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3121	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	NLI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3122	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	SF	LI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3123	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3124	Building Shell	Basement Sidewall Insulation - Heat pump	N/A	MF	LI	Retrofit	52%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3125	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3126	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	SF	LI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3127	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3128	Building Shell	Basement Sidewall Insulation - Electric furnace	N/A	MF	LI	Retrofit	52%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3129	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	71%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3130	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	SF	LI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3131	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3132	Building Shell	Basement Sidewall Insulation - Gas Heating	N/A	MF	LI	Retrofit	52%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3133	Building Shell	Wall Insulation - Heat pump	N/A	SF	NLI	Retrofit	96%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3134	Building Shell	Wall Insulation - Heat pump	N/A	SF	LI	Retrofit	90%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3135	Building Shell	Wall Insulation - Heat pump	N/A	MF	NLI	Retrofit	91%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3136	Building Shell	Wall Insulation - Heat pump	N/A	MF	LI	Retrofit	87%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
3137	Building Shell	Wall Insulation - Electric furnace	N/A	SF	NLI	Retrofit	96%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3138	Building Shell	Wall Insulation - Electric furnace	N/A	SF	LI	Retrofit	90%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3139	Building Shell	Wall Insulation - Electric furnace	N/A	MF	NLI	Retrofit	91%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3140	Building Shell	Wall Insulation - Electric furnace	N/A	MF	LI	Retrofit	87%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
3141	Building Shell	Wall Insulation - Gas Heating	N/A	SF	NLI	Retrofit	96%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3142	Building Shell	Wall Insulation - Gas Heating	N/A	SF	LI	Retrofit	90%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
3143	Building Shell	Wall Insulation - Gas Heating	N/A	MF	NLI	Retrofit	91%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3144	Building Shell	Wall Insulation - Gas Heating	N/A	MF	LI	Retrofit	87%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
3145	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	NLI	Retrofit	92%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3146	Building Shell	Spray Foam Insulation: 12 oz. Can	SFIE	SF	LI	Retrofit	82%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3147	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	SF	N/A	NC	72%	4%	5%	7%	9%	12%	16%	20%	26%	31%	38%	44%	50%	55%	59%	63%	66%	68%	70%	71%	72%
3148	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	NLI	Retrofit	87%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
3149	Building Shell	Spray Foam Insulation: 12 oz. Can	MFIE	MF	LI	Retrofit	93%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3150	Building Shell	Spray Foam Insulation: 12 oz. Can	PAYS	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	43%	46%	47%	48%	49%	50%
3151	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3152	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3153	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3154	Building Shell	Storm Window - Double Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3155	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3156	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3157	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3158	Building Shell	Storm Window - Single Pane, Double Hung - Electric Furnace	MFIE	MF	LI	Retrofit	65%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3159	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3160	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3161	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3162	Building Shell	Storm Window - Double Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3163	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3164	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3165	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3166	Building Shell	Storm Window - Single Pane, Fixed - Electric Furnace	MFIE	MF	LI	Retrofit	65%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3167	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3168	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3169	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3170	Building Shell	Storm Window - Double Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3171	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3172	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3173	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3174	Building Shell	Storm Window - Single Pane, Double Hung - Gas Heating	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3175	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3176	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3177	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3178	Building Shell	Storm Window - Double Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3179	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3180	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3181	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3182	Building Shell	Storm Window - Single Pane, Fixed - Gas Heating	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3183	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3184	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3185	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3186	Building Shell	Storm Window - Double Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3187	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3188	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3189	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
3190	Building Shell	Storm Window - Single Pane, Double Hung - Heat Pump	MFIE	MF	LI	Retrofit	50%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3191	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3192	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3193	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3194	Building Shell	Storm Window - Double Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	39%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
3195	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	SF	NLI	Retrofit	38%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3196	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	SFIE	SF	LI	Retrofit	50%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3197	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3198	Building Shell	Storm Window - Single Pane, Fixed - Heat Pump	MFIE	MF	LI	Retrofit	50%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3199	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	NLI	Retrofit	89%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3200	Building Shell	Thin Triple Windows - Heat pump	N/A	SF	LI	Retrofit	76%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3201	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3202	Building Shell	Thin Triple Windows - Heat pump	N/A	MF	LI	Retrofit	64%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3203	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	NLI	Retrofit	89%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3204	Building Shell	Thin Triple Windows - Electric furnace	N/A	SF	LI	Retrofit	76%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3205	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3206	Building Shell	Thin Triple Windows - Electric furnace	N/A	MF	LI	Retrofit	64%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3207	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	NLI	Retrofit	89%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3208	Building Shell	Thin Triple Windows - Gas heating	N/A	SF	LI	Retrofit	76%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3209	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3210	Building Shell	Thin Triple Windows - Gas heating	N/A	MF	LI	Retrofit	64%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
3211	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	NLI	Retrofit	89%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3212	Building Shell	Insulated Cellular Shades - Heat pump	N/A	SF	LI	Retrofit	76%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3213	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	NLI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3214	Building Shell	Insulated Cellular Shades - Heat pump	N/A	MF	LI	Retrofit	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3215	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	NLI	Retrofit	89%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3216	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	SF	LI	Retrofit	76%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3217	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	NLI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3218	Building Shell	Insulated Cellular Shades - Electric furnace	N/A	MF	LI	Retrofit	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3219	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	NLI	Retrofit	89%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
3220	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	SF	LI	Retrofit	76%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3221	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	NLI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3222	Building Shell	Insulated Cellular Shades - Gas Heating / CAC	N/A	MF	LI	Retrofit	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3223	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3224	Building Shell	Basement Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3225	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3226	Building Shell	Ceiling / Attic Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3227	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3228	Building Shell	Crawlspace Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3229	Building Shell	Floor Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3230	Building Shell	Floor Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3231	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3232	Building Shell	Rim and Band Joist Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3233	Building Shell	Wall Insulation - Nanoinsulation	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
3234	Building Shell	Wall Insulation - Nanoinsulation	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4001	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	NLI	MO	64%	3%	4%	6%	8%	11%	14%	18%	22%	28%	33%	38%	44%	48%	52%	56%	58%	60%	62%	63%	64%
4002	HVAC	ASHP-SEER15_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4003	HVAC	ASHP-SEER15_ROF_SF	HVAC	SF	N/A	NC	64%	3%	4%	6%	8%	11%	14%	18%	22%	28%	33%	38%	44%	48%	52%	56%	58%	60%	62%	63%	64%
4004	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4005	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4006	HVAC	ASHP-SEER15_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4007	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4008	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4009	HVAC	ASHP-SEER15_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4010	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	NLI	MO	40%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	13%	15%	16%	17%	18%	18%	19%	19%	20%
4011	HVAC	ASHP-SEER15_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4012	HVAC	ASHP-SEER15_ROF_MF	HVAC	MF	N/A	NC	20%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	13%	15%	16%	17%	18%	18%	19%	19%	20%
4013	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4014	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4015	HVAC	ASHP-SEER15_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4016	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4017	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4018	HVAC	ASHP-SEER15_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4019	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
4020	HVAC	ASHP-SEER16_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4021	HVAC	ASHP-SEER16_ROF_SF	HVAC	SF	N/A	NC	44%	2%	3%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
4022	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4023	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4024	HVAC	ASHP-SEER16_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4025	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4026	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4027	HVAC	ASHP-SEER16_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4028	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	NLI	MO	40%	2%	2%	3%	4%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%
4029	HVAC	ASHP-SEER16_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4030	HVAC	ASHP-SEER16_ROF_MF	HVAC	MF	N/A	NC	32%	2%	2%	3%	4%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%
4031	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4032	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4033	HVAC	ASHP-SEER16_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4034	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4035	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4036	HVAC	ASHP-SEER16_ER1_MF	MFIE	MF	LI	ER3	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4037	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	9%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	43%
4038	HVAC	ASHP-SEER17_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4039	HVAC	ASHP-SEER17_ROF_SF	HVAC	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	43%
4040	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4041	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4042	HVAC	ASHP-SEER17_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4043	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4044	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4045	HVAC	ASHP-SEER17_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4046	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	NLI	MO	40%	2%	2%	3%	4%	5%	7%	9%	11%	14%	16%	19%	21%	24%	26%	27%	28%	29%	30%	31%	31%
4047	HVAC	ASHP-SEER17_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4048	HVAC	ASHP-SEER17_ROF_MF	HVAC	MF	N/A	NC	31%	2%	2%	3%	4%	5%	7%	9%	11%	14%	16%	19%	21%	24%	26%	27%	28%	29%	30%	31%	31%
4049	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4050	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4051	HVAC	ASHP-SEER17_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4052	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER1	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	38%	41%	44%	46%	48%	49%	50%	51%
4053	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4054	HVAC	ASHP-SEER17_ER1_MF	MFIE	MF	LI	ER3	40%	2%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
4055	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
4056	HVAC	ASHP-SEER18_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4057	HVAC	ASHP-SEER18_ROF_SF	HVAC	SF	N/A	NC	42%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
4058	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4059	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4060	HVAC	ASHP-SEER18_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4061	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4062	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4063	HVAC	ASHP-SEER18_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4064	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	3%	3%	5%	6%	8%	10%	12%	14%	17%	19%	21%	23%	24%	25%	26%	27%	27%	28%
4065	HVAC	ASHP-SEER18_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4066	HVAC	ASHP-SEER18_ROF_MF	HVAC	MF	N/A	NC	28%	1%	2%	3%	3%	5%	6%	8%	10%	12%	14%	17%	19%	21%	23%	24%	25%	26%	27%	27%	28%
4067	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4068	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4069	HVAC	ASHP-SEER18_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4070	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER1	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	32%	36%	40%	44%	46%	48%	50%	51%	52%	53%
4071	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4072	HVAC	ASHP-SEER18_ER1_MF	MFIE	MF	LI	ER3	40%	2%	2%	3%	5%	6%	8%	10%	13%	16%	19%	22%	25%	27%	30%	31%	33%	34%	35%	36%	36%
4073	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4074	HVAC	ASHP-SEER19_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4075	HVAC	ASHP-SEER19_ROF_SF	HVAC	SF	N/A	NC	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4076	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4077	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4078	HVAC	ASHP-SEER19_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4079	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4080	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4081	HVAC	ASHP-SEER19_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4082	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4083	HVAC	ASHP-SEER19_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4084	HVAC	ASHP-SEER19_ROF_MF	HVAC	MF	N/A	NC	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4085	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4086	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4087	HVAC	ASHP-SEER19_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4088	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER1	41%	2%	3%	4%	5%	7%	9%	11%	14%	18%	21%	24%	28%	31%	33%	35%	37%	38%	39%	40%	41%
4089	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4090	HVAC	ASHP-SEER19_ER1_MF	MFIE	MF	LI	ER3	40%	2%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	30%	31%
4091	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	9%	11%	14%	18%	21%	24%	28%	31%	33%	35%	37%	38%	39%	40%	40%
4092	HVAC	ASHP-SEER20_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4093	HVAC	ASHP-SEER20_ROF_SF	HVAC	SF	N/A	NC	40%	2%	3%	4%	5%	7%	9%	11%	14%	18%	21%	24%	28%	31%	33%	35%	37%	38%	39%	40%	40%
4094	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4095	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4096	HVAC	ASHP-SEER20_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4097	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4098	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4099	HVAC	ASHP-SEER20_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4100	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	15%	18%	19%	21%	22%	23%	24%	25%	25%	26%
4101	HVAC	ASHP-SEER20_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4102	HVAC	ASHP-SEER20_ROF_MF	HVAC	MF	N/A	NC	26%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	15%	18%	19%	21%	22%	23%	24%	25%	25%	26%
4103	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4104	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4105	HVAC	ASHP-SEER20_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4106	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER1	41%	2%	3%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	36%	37%	39%	40%	40%	41%
4107	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4108	HVAC	ASHP-SEER20_ER1_MF	MFIE	MF	LI	ER3	40%	2%	2%	3%	4%	5%	7%	9%	11%	14%	16%	19%	21%	24%	26%	27%	28%	29%	30%	31%	31%
4109	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	9%	12%	15%	19%	22%	26%	30%	33%	35%	38%	39%	41%	42%	43%	43%
4110	HVAC	ASHP-SEER21_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4111	HVAC	ASHP-SEER21_ROF_SF	HVAC	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	19%	22%	26%	30%	33%	35%	38%	39%	41%	42%	43%	43%
4112	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4113	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4114	HVAC	ASHP-SEER21_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4115	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4116	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4117	HVAC	ASHP-SEER21_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4118	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4119	HVAC	ASHP-SEER21_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4120	HVAC	ASHP-SEER21_ROF_MF	HVAC	MF	N/A	NC	26%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4121	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4122	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4123	HVAC	ASHP-SEER21_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4124	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER1	41%	2%	3%	4%	5%	7%	9%	12%	14%	18%	21%	25%	28%	31%	34%	36%	38%	39%	40%	41%	41%
4125	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4126	HVAC	ASHP-SEER21_ER1_MF	MFIE	MF	LI	ER3	40%	2%	2%	3%	4%	5%	7%	9%	11%	14%	16%	19%	22%	24%	26%	27%	29%	30%	31%	31%	32%
4127	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	NLI	MO	62%	2%	2%	3%	4%	5%	7%	8%	11%	13%	16%	18%	21%	23%	25%	26%	28%	28%	29%	30%	30%
4128	HVAC	GSHP-EER23_ROF_SF	PAYS	SF	LI	MO	62%	2%	2%	3%	4%	6%	7%	9%	12%	14%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	33%
4129	HVAC	GSHP-EER23_ROF_SF	HVAC	SF	N/A	NC	30%	2%	2%	3%	4%	5%	7%	8%	11%	13%	16%	18%	21%	23%	25%	26%	28%	28%	29%	30%	30%
4130	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER1	62%	3%	4%	6%	8%	10%	13%	17%	21%	26%	31%	36%	41%	46%	49%	52%	55%	57%	58%	59%	60%
4131	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4132	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4133	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER1	62%	2%	3%	3%	5%	6%	8%	11%	13%	16%	20%	23%	26%	28%	31%	33%	34%	36%	36%	37%	38%
4134	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4135	HVAC	GSHP-EER23-Replace_ASHP_ER1_SF	PAYS	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4136	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	NLI	MO	40%	1%	1%	2%	3%	3%	5%	6%	7%	9%	11%	13%	14%	16%	17%	18%	19%	20%	20%	21%	21%
4137	HVAC	DFHP-SEER19-ROF_MF	MFIE	MF	LI	MO	48%	2%	3%	4%	6%	8%	10%	13%	17%	21%	25%	29%	33%	36%	39%	41%	43%	45%	46%	47%	48%
4138	HVAC	DFHP-SEER19-ROF_MF	HVAC	MF	N/A	NC	21%	1%	1%	2%	3%	3%	5%	6%	7%	9%	11%	13%	14%	16%	17%	18%	19%	20%	20%	21%	21%
4139	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	18%	20%	21%	22%	23%	24%	24%	24%
4140	HVAC	DFHP-SEER20-ROF_MF	MFIE	MF	LI	MO	57%	3%	4%	5%	7%	9%	12%	16%	20%	25%	30%	34%	39%	43%	47%	50%	52%	54%	55%	56%	57%
4141	HVAC	DFHP-SEER20-ROF_MF	HVAC	MF	N/A	NC	24%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	18%	20%	21%	22%	23%	24%	24%	24%
4142	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	17%	20%	22%	24%	25%	26%	27%	28%	29%	29%
4143	HVAC	DFHP-SEER21-ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4144	HVAC	DFHP-SEER21-ROF_MF	HVAC	MF	N/A	NC	29%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	17%	20%	22%	24%	25%	26%	27%	28%	29%	29%
4145	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	NLI	MO	62%	2%	3%	4%	5%	7%	9%	11%	14%	17%	20%	24%	27%	30%	32%	34%	36%	37%	38%	39%	39%
4146	HVAC	Mini/MultiSplitASHP_ROF_SF	SFIE	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4147	HVAC	Mini/MultiSplitASHP_ROF_SF	HVAC	SF	N/A	NC	39%	2%	3%	4%	5%	7%	9%	11%	14%	17%	20%	24%	27%	30%	32%	34%	36%	37%	38%	39%	39%
4148	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4149	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4150	HVAC	Mini/MultiSplitASHP_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4151	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4152	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4153	HVAC	Mini/MultiSplitASHP_ER1_SF	SFIE	SF	LI	ER3	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4154	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4155	HVAC	Mini/MultiSplitASHP_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4156	HVAC	Mini/MultiSplitASHP_ROF_MF	HVAC	MF	N/A	NC	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4157	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4158	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4159	HVAC	Mini/MultiSplitASHP_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4160	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER1	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	29%	33%	38%	42%	45%	48%	50%	52%	53%	54%	55%
4161	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4162	HVAC	Mini/MultiSplitASHP_ER1_MF	PAYS	MF	LI	ER3	40%	2%	2%	3%	4%	6%	8%	10%	12%	15%	18%	21%	24%	27%	29%	31%	32%	33%	34%	35%	35%
4163	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	NLI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
4164	HVAC	PTHP-SEER12-ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4165	HVAC	PTHP-SEER12-ROF_MF	HVAC	MF	N/A	NC	26%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
4166	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4167	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4168	HVAC	PTHP-SEER12-ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4169	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4170	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4171	HVAC	PTHP-SEER12-ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4172	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	NLI	MO	40%	2%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	24%	26%	27%	28%	29%	30%	31%	31%
4173	HVAC	PTHP-SEER13-ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4174	HVAC	PTHP-SEER13-ROF_MF	HVAC	MF	N/A	NC	31%	2%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	24%	26%	27%	28%	29%	30%	31%	31%
4175	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4176	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4177	HVAC	PTHP-SEER13-ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4178	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4179	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4180	HVAC	PTHP-SEER13-ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4181	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	NLI	MO	40%	2%	2%	3%	4%	6%	8%	10%	13%	15%	18%	21%	24%	27%	29%	31%	32%	34%	34%	35%	36%
4182	HVAC	PTHP-SEER14-ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4183	HVAC	PTHP-SEER14-ROF_MF	HVAC	MF	N/A	NC	36%	2%	2%	3%	4%	6%	8%	10%	13%	15%	18%	21%	24%	27%	29%	31%	32%	34%	34%	35%	36%
4184	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4185	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4186	HVAC	PTHP-SEER14-ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4187	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4188	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4189	HVAC	PTHP-SEER14-ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4190	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	NLI	MO	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4191	HVAC	PTHP-SEER15-ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4192	HVAC	PTHP-SEER15-ROF_MF	HVAC	MF	N/A	NC	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4193	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4194	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4195	HVAC	PTHP-SEER15-ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4196	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4197	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4198	HVAC	PTHP-SEER15-ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4199	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	59%	3%	4%	5%	7%	10%	13%	16%	21%	25%	30%	35%	40%	44%	48%	51%	54%	55%	57%	58%	59%
4200	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4201	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	59%	3%	4%	5%	7%	10%	13%	16%	21%	25%	30%	35%	40%	44%	48%	51%	54%	55%	57%	58%	59%
4202	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	59%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	59%
4203	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4204	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	59%	3%	4%	5%	7%	10%	13%	16%	21%	25%	30%	35%	40%	44%	48%	51%	54%	55%	57%	58%	59%
4205	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4206	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4207	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4208	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	39%	42%	44%	46%	48%	49%	50%	51%
4209	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	57%	3%	4%	5%	7%	10%	12%	16%	20%	25%	30%	35%	39%	43%	47%	50%	52%	54%	56%	57%	57%
4210	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	39%	42%	44%	46%	48%	49%	50%	51%
4211	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	47%	2%	3%	4%	6%	8%	10%	13%	17%	20%	24%	28%	32%	36%	38%	41%	43%	44%	45%	46%	47%
4212	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4213	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	31%	35%	39%	42%	44%	46%	48%	49%	50%	51%
4214	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4215	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4216	HVAC	ASHP-SEER15-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4217	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	38%	42%	46%	49%	51%	53%	54%	55%	56%
4218	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4219	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	38%	42%	46%	49%	51%	53%	54%	55%	56%
4220	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	57%	3%	4%	5%	7%	9%	12%	16%	20%	25%	30%	35%	39%	43%	47%	50%	52%	54%	55%	56%	57%
4221	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4222	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	38%	42%	46%	49%	51%	53%	54%	55%	56%
4223	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4224	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4225	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4226	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	48%	2%	3%	4%	6%	8%	11%	14%	17%	21%	25%	29%	33%	37%	40%	42%	44%	46%	47%	48%	48%
4227	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	38%	43%	46%	49%	51%	53%	54%	55%	56%
4228	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	48%	2%	3%	4%	6%	8%	11%	14%	17%	21%	25%	29%	33%	37%	40%	42%	44%	46%	47%	48%	48%
4229	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	28%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4230	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4231	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4232	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4233	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4234	HVAC	ASHP-SEER16-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4235	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	27%	32%	36%	40%	43%	46%	48%	50%	51%	52%	53%
4236	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	24%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	14%	16%	18%	19%	21%	22%	22%	23%	23%	24%
4237	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	27%	32%	36%	40%	43%	46%	48%	50%	51%	52%	53%
4238	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	55%	3%	4%	5%	7%	9%	12%	15%	19%	24%	28%	33%	38%	42%	45%	48%	50%	52%	53%	54%	55%
4239	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4240	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	27%	32%	36%	40%	43%	46%	48%	50%	51%	52%	53%
4241	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4242	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4243	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	24%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	14%	16%	18%	19%	21%	22%	22%	23%	23%	24%
4244	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	25%	29%	33%	37%	40%	42%	44%	46%	47%	48%	49%
4245	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4246	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	25%	29%	33%	37%	40%	42%	44%	46%	47%	48%	49%
4247	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	48%	2%	3%	4%	6%	8%	10%	13%	17%	21%	25%	29%	33%	36%	39%	41%	43%	45%	46%	47%	48%
4248	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4249	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	25%	29%	33%	37%	40%	42%	44%	46%	47%	48%	49%
4250	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4251	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4252	HVAC	ASHP-SEER17-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4253	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	52%	3%	4%	5%	7%	9%	11%	15%	18%	23%	27%	32%	36%	40%	43%	46%	48%	49%	51%	52%	52%
4254	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	23%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	23%	23%	23%
4255	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	52%	3%	4%	5%	7%	9%	11%	15%	18%	23%	27%	32%	36%	40%	43%	46%	48%	49%	51%	52%	52%
4256	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	53%	3%	4%	5%	7%	9%	11%	15%	19%	23%	27%	32%	36%	40%	43%	46%	48%	50%	51%	52%	53%
4257	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4258	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	52%	3%	4%	5%	7%	9%	11%	15%	18%	23%	27%	32%	36%	40%	43%	46%	48%	49%	51%	52%	52%
4259	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4260	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4261	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	23%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	23%	23%	23%
4262	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	43%	2%	3%	4%	5%	7%	9%	12%	15%	19%	22%	26%	29%	33%	35%	37%	39%	41%	42%	42%	43%
4263	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	50%	3%	3%	5%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	44%	46%	47%	49%	50%	50%
4264	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	19%	22%	26%	29%	33%	35%	37%	39%	41%	42%	42%	43%
4265	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	48%	2%	3%	4%	6%	8%	10%	13%	17%	21%	25%	29%	33%	36%	39%	42%	44%	45%	47%	47%	48%
4266	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4267	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	43%	2%	3%	4%	5%	7%	9%	12%	15%	19%	22%	26%	29%	33%	35%	37%	39%	41%	42%	42%	43%
4268	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4269	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4270	HVAC	ASHP-SEER18-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4271	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	27%	31%	35%	39%	42%	45%	47%	48%	50%	50%	51%
4272	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	23%	1%	2%	2%	3%	4%	5%	6%	8%	10%	12%	14%	16%	17%	19%	20%	21%	22%	22%	23%	23%
4273	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	27%	31%	35%	39%	42%	45%	47%	48%	50%	50%	51%
4274	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	25%	30%	33%	37%	40%	43%	45%	46%	47%	48%	49%
4275	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4276	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	51%	3%	3%	5%	6%	8%	11%	14%	18%	22%	27%	31%	35%	39%	42%	45%	47%	48%	50%	50%	51%
4277	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4278	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4279	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	23%	1%	2%	2%	3%	4%	5%	6%	8%	10%	12%	14%	16%	17%	19%	20%	21%	22%	22%	23%	23%
4280	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4281	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	32%	36%	40%	44%	46%	49%	50%	52%	52%	53%
4282	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4283	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	45%	2%	3%	4%	6%	7%	10%	12%	16%	19%	23%	27%	31%	34%	37%	39%	41%	42%	43%	44%	45%
4284	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4285	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4286	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4287	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4288	HVAC	ASHP-SEER19-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4289	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	52%	3%	4%	5%	6%	9%	11%	14%	18%	22%	27%	31%	35%	39%	42%	45%	47%	49%	50%	51%	52%
4290	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	23%	1%	2%	2%	3%	4%	5%	6%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	22%	23%	23%
4291	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	52%	3%	4%	5%	6%	9%	11%	14%	18%	22%	27%	31%	35%	39%	42%	45%	47%	49%	50%	51%	52%
4292	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	52%	3%	4%	5%	7%	9%	11%	15%	18%	23%	27%	32%	36%	40%	43%	46%	48%	49%	51%	52%	52%
4293	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4294	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	52%	3%	4%	5%	6%	9%	11%	14%	18%	22%	27%	31%	35%	39%	42%	45%	47%	49%	50%	51%	52%
4295	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4296	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4297	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	23%	1%	2%	2%	3%	4%	5%	6%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	22%	23%	23%
4298	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	45%	2%	3%	4%	6%	7%	10%	12%	16%	19%	23%	27%	31%	34%	37%	39%	41%	42%	43%	44%	45%
4299	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	52%	3%	4%	5%	7%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	48%	49%	51%	51%	52%
4300	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	45%	2%	3%	4%	6%	7%	10%	12%	16%	19%	23%	27%	31%	34%	37%	39%	41%	42%	43%	44%	45%
4301	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	45%	2%	3%	4%	6%	7%	10%	12%	16%	19%	23%	27%	31%	34%	37%	39%	41%	42%	43%	44%	45%
4302	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4303	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	45%	2%	3%	4%	6%	7%	10%	12%	16%	19%	23%	27%	31%	34%	37%	39%	41%	42%	43%	44%	45%
4304	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4305	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4306	HVAC	ASHP-SEER20-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4307	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	50%	2%	3%	5%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4308	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	23%	1%	2%	2%	3%	4%	5%	6%	8%	10%	12%	14%	16%	17%	19%	20%	21%	21%	22%	22%	23%
4309	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4310	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	50%	2%	3%	5%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	44%	46%	47%	48%	49%	50%
4311	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4312	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	50%	2%	3%	5%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4313	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	44%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4314	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	25%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4315	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	23%	1%	2%	2%	3%	4%	5%	6%	8%	10%	12%	14%	16%	17%	19%	20%	21%	21%	22%	22%	23%
4316	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4317	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	53%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	32%	36%	40%	44%	46%	49%	50%	52%	52%	53%
4318	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4319	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	45%	2%	3%	4%	6%	7%	10%	12%	16%	19%	23%	27%	31%	34%	37%	39%	41%	42%	43%	44%	45%
4320	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4321	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	40%	42%	43%	44%	45%	46%
4322	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4323	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4324	HVAC	ASHP-SEER21-Replace_CAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4325	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	NLI	MO	27%	1%	2%	3%	3%	5%	6%	8%	10%	12%	14%	16%	19%	21%	22%	24%	25%	26%	26%	27%	27%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4326	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	MFIE	MF	LI	MO	46%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	28%	31%	35%	38%	40%	42%	43%	44%	45%	46%
4327	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ROF_SF	HVAC	MF	N/A	NC	27%	1%	2%	3%	3%	5%	6%	8%	10%	12%	14%	16%	19%	21%	22%	24%	25%	26%	26%	27%	27%
4328	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4329	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4330	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4331	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4332	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4333	HVAC	GSHP-EER23-Replace_CAC_ElectricHeat_ER1_SF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4334	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	NLI	MO	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4335	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	SFIE	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4336	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_SF	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4337	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4338	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4339	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	PAYS	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4340	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4341	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4342	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4343	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	NLI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4344	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4345	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ROF_MF	PAYS	MF	N/A	NC	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4346	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER1	48%	2%	3%	4%	6%	8%	10%	13%	17%	21%	25%	29%	33%	36%	40%	42%	44%	46%	47%	48%	48%
4347	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4348	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4349	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	38%	42%	46%	49%	51%	53%	54%	55%	56%
4350	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4351	HVAC	Mini/MultiSplitASHP-Replace_CAC_ElectricHeat_ER1_MF	PAYS	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4352	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4353	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4354	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4355	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4356	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4357	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4358	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4359	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4360	HVAC	PTHP-SEER12-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4361	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4362	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4363	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4364	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4365	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4366	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4367	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4368	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4369	HVAC	PTHP-SEER13-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4370	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4371	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4372	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4373	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4374	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4375	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4376	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4377	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4378	HVAC	PTHP-SEER14-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4379	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	NLI	MO	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4380	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	MFIE	MF	LI	MO	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4381	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ROF_MF	HVAC	MF	N/A	NC	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4382	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4383	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER2	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4384	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4385	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4386	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4387	HVAC	PTHP-SEER15-Replace_PTAC_ElectricHeat_ER1_MF	MFIE	MF	LI	ER3	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4388	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	NLI	MO	62%	1%	2%	3%	4%	5%	6%	8%	10%	12%	15%	17%	20%	22%	23%	25%	26%	27%	28%	28%	29%
4389	HVAC	CAC-SEER15_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4390	HVAC	CAC-SEER15_ROF_SF	HVAC	SF	N/A	NC	29%	1%	2%	3%	4%	5%	6%	8%	10%	12%	15%	17%	20%	22%	23%	25%	26%	27%	28%	28%	29%
4391	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4392	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4393	HVAC	CAC-SEER15_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4394	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4395	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4396	HVAC	CAC-SEER15_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4397	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	NLI	MO	39%	1%	1%	2%	2%	3%	4%	5%	6%	8%	9%	11%	12%	14%	15%	16%	16%	17%	17%	18%	18%
4398	HVAC	CAC-SEER15_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	25%
4399	HVAC	CAC-SEER15_ROF_MF	HVAC	MF	N/A	NC	18%	1%	1%	2%	2%	3%	4%	5%	6%	8%	9%	11%	12%	14%	15%	16%	16%	17%	17%	18%	18%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4400	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4401	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4402	HVAC	CAC-SEER15_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4403	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4404	HVAC	CAC-SEER15_ER1_MF	PAYS	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4405	HVAC	CAC-SEER15_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	16%	18%	20%	21%	23%	24%	24%	25%	26%	26%
4406	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	NLI	MO	62%	1%	2%	3%	4%	5%	6%	8%	10%	12%	15%	17%	20%	22%	23%	25%	26%	27%	28%	28%	29%
4407	HVAC	CAC-SEER16_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4408	HVAC	CAC-SEER16_ROF_SF	HVAC	SF	N/A	NC	29%	1%	2%	3%	4%	5%	6%	8%	10%	12%	15%	17%	20%	22%	23%	25%	26%	27%	28%	28%	29%
4409	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4410	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4411	HVAC	CAC-SEER16_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4412	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4413	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4414	HVAC	CAC-SEER16_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4415	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	NLI	MO	40%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	13%	14%	16%	17%	17%	18%	18%	19%	19%
4416	HVAC	CAC-SEER16_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	22%	23%	24%	25%	25%	26%	26%
4417	HVAC	CAC-SEER16_ROF_MF	HVAC	MF	N/A	NC	19%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	13%	14%	16%	17%	17%	18%	18%	19%	19%
4418	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4419	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4420	HVAC	CAC-SEER16_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4421	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4422	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4423	HVAC	CAC-SEER16_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4424	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	NLI	MO	62%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	17%	20%	22%	24%	25%	26%	27%	28%	28%	29%
4425	HVAC	CAC-SEER17_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4426	HVAC	CAC-SEER17_ROF_SF	HVAC	SF	N/A	NC	29%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	17%	20%	22%	24%	25%	26%	27%	28%	28%	29%
4427	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4428	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4429	HVAC	CAC-SEER17_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4430	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4431	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4432	HVAC	CAC-SEER17_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4433	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	NLI	MO	39%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	11%	13%	14%	15%	16%	17%	18%	18%	19%	19%
4434	HVAC	CAC-SEER17_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4435	HVAC	CAC-SEER17_ROF_MF	HVAC	MF	N/A	NC	19%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	11%	13%	14%	15%	16%	17%	18%	18%	19%	19%
4436	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4437	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4438	HVAC	CAC-SEER17_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4439	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4440	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4441	HVAC	CAC-SEER17_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	16%	18%	20%	21%	22%	24%	24%	25%	25%	26%
4442	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	NLI	MO	62%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	18%	20%	22%	24%	26%	27%	28%	29%	29%	29%
4443	HVAC	CAC-SEER18_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4444	HVAC	CAC-SEER18_ROF_SF	HVAC	SF	N/A	NC	29%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	18%	20%	22%	24%	26%	27%	28%	29%	29%	29%
4445	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4446	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4447	HVAC	CAC-SEER18_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4448	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4449	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4450	HVAC	CAC-SEER18_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4451	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	NLI	MO	39%	1%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	14%	15%	16%	17%	17%	18%	18%	18%
4452	HVAC	CAC-SEER18_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	15%	18%	19%	21%	22%	23%	24%	25%	25%	26%
4453	HVAC	CAC-SEER18_ROF_MF	HVAC	MF	N/A	NC	18%	1%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	14%	15%	16%	17%	17%	18%	18%	18%
4454	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4455	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4456	HVAC	CAC-SEER18_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4457	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4458	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4459	HVAC	CAC-SEER18_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4460	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	NLI	MO	62%	2%	2%	3%	4%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%
4461	HVAC	CAC-SEER19_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4462	HVAC	CAC-SEER19_ROF_SF	HVAC	SF	N/A	NC	32%	2%	2%	3%	4%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%
4463	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4464	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4465	HVAC	CAC-SEER19_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4466	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4467	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4468	HVAC	CAC-SEER19_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4469	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	NLI	MO	39%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	11%	13%	14%	15%	16%	17%	18%	18%	19%	19%
4470	HVAC	CAC-SEER19_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4471	HVAC	CAC-SEER19_ROF_MF	HVAC	MF	N/A	NC	19%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	11%	13%	14%	15%	16%	17%	18%	18%	19%	19%
4472	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4473	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4474	HVAC	CAC-SEER19_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4475	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4476	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4477	HVAC	CAC-SEER19_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	13%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4478	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	NLI	MO	62%	2%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
4479	HVAC	CAC-SEER20_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4480	HVAC	CAC-SEER20_ROF_SF	HVAC	SF	N/A	NC	31%	2%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
4481	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4482	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4483	HVAC	CAC-SEER20_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4484	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4485	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4486	HVAC	CAC-SEER20_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4487	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	NLI	MO	39%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	11%	13%	14%	15%	16%	17%	18%	18%	19%	19%
4488	HVAC	CAC-SEER20_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4489	HVAC	CAC-SEER20_ROF_MF	HVAC	MF	N/A	NC	19%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	11%	13%	14%	15%	16%	17%	18%	18%	19%	19%
4490	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4491	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4492	HVAC	CAC-SEER20_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4493	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4494	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4495	HVAC	CAC-SEER20_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4496	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	NLI	MO	62%	2%	2%	3%	4%	5%	7%	8%	11%	13%	16%	18%	21%	23%	25%	26%	28%	29%	29%	30%	30%
4497	HVAC	CAC-SEER21_ROF_SF	PAYS	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4498	HVAC	CAC-SEER21_ROF_SF	HVAC	SF	N/A	NC	30%	2%	2%	3%	4%	5%	7%	8%	11%	13%	16%	18%	21%	23%	25%	26%	28%	29%	29%	30%	30%
4499	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4500	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4501	HVAC	CAC-SEER21_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4502	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4503	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4504	HVAC	CAC-SEER21_ER1_SF	SFIE	SF	LI	ER3	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4505	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	NLI	MO	40%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	13%	14%	16%	17%	17%	18%	19%	19%	19%
4506	HVAC	CAC-SEER21_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	22%	23%	24%	25%	25%	26%	26%
4507	HVAC	CAC-SEER21_ROF_MF	HVAC	MF	N/A	NC	19%	1%	1%	2%	2%	3%	4%	5%	7%	8%	10%	12%	13%	14%	16%	17%	17%	18%	19%	19%	19%
4508	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER1	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4509	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4510	HVAC	CAC-SEER21_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4511	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER1	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
4512	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4513	HVAC	CAC-SEER21_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	22%	23%	24%	25%	25%	26%	26%
4514	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	NLI	MO	62%	1%	2%	3%	3%	5%	6%	8%	10%	12%	14%	17%	19%	21%	23%	24%	25%	26%	27%	27%	28%
4515	HVAC	Mini/MultiSplitAC_ROF_SF	SFIE	SF	LI	MO	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4516	HVAC	Mini/MultiSplitAC_ROF_SF	HVAC	SF	N/A	NC	28%	1%	2%	3%	3%	5%	6%	8%	10%	12%	14%	17%	19%	21%	23%	24%	25%	26%	27%	27%	28%
4517	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER1	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4518	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER2	62%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4519	HVAC	Mini/MultiSplitAC_ER1_SF	HVAC	SF	NLI	ER3	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4520	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER1	62%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4521	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER2	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4522	HVAC	Mini/MultiSplitAC_ER1_SF	SFIE	SF	LI	ER3	62%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	24%	25%	25%
4523	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	NLI	MO	40%	1%	1%	2%	2%	3%	4%	6%	7%	9%	10%	12%	14%	15%	16%	17%	18%	19%	19%	20%	20%
4524	HVAC	Mini/MultiSplitAC_ROF_MF	MFIE	MF	LI	MO	40%	1%	2%	2%	3%	4%	6%	8%	10%	12%	14%	16%	18%	20%	22%	23%	25%	25%	26%	27%	27%
4525	HVAC	Mini/MultiSplitAC_ROF_MF	HVAC	MF	N/A	NC	20%	1%	1%	2%	2%	3%	4%	6%	7%	9%	10%	12%	14%	15%	16%	17%	18%	19%	19%	20%	20%
4526	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER1	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	37%	38%	39%	40%	40%
4527	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER2	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4528	HVAC	Mini/MultiSplitAC_ER1_MF	HVAC	MF	NLI	ER3	56%	3%	4%	5%	7%	9%	12%	16%	20%	24%	29%	34%	39%	43%	46%	49%	51%	53%	55%	56%	56%
4529	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER1	57%	3%	4%	5%	7%	9%	12%	16%	20%	25%	29%	34%	39%	43%	47%	50%	52%	54%	55%	56%	57%
4530	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER2	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4531	HVAC	Mini/MultiSplitAC_ER1_MF	MFIE	MF	LI	ER3	40%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	22%	23%	24%	25%	25%	26%	26%
4532	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	MO	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4533	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4534	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4535	HVAC	Residential-Sized Sub-Wet Bulb Chiller	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4536	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	MO	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4537	HVAC	Solar-Assisted Air Conditioning	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4538	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4539	HVAC	Solar-Assisted Air Conditioning	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4540	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	NLI	MO	75%	2%	2%	3%	4%	5%	7%	9%	12%	14%	17%	20%	22%	25%	27%	28%	30%	31%	32%	32%	33%
4541	HVAC	AC - Energy Star Room _unknown size_SF	SFIE	SF	LI	MO	75%	2%	3%	4%	5%	7%	10%	12%	15%	19%	23%	26%	30%	33%	36%	38%	40%	41%	42%	43%	44%
4542	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	SF	N/A	NC	33%	2%	2%	3%	4%	5%	7%	9%	12%	14%	17%	20%	22%	25%	27%	28%	30%	31%	32%	32%	33%
4543	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	NLI	MO	75%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4544	HVAC	AC - Energy Star Room _unknown size_SF	MFIE	MF	LI	MO	71%	0%	1%	1%	1%	2%	2%	3%	3%	4%	5%	6%	7%	7%	8%	8%	9%	9%	9%	9%	10%
4545	HVAC	ENERGY STAR Room AC (kWh w/o ISR)	HVAC	MF	N/A	NC	26%	1%	2%	2%	3%	4%	6%	7%	9%	11%	14%	16%	18%	20%	21%	23%	24%	25%	25%	26%	26%
4546	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	MO	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4547	HVAC	Eco-Snap Air Conditioning	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4548	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4549	HVAC	Eco-Snap Air Conditioning	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4550	HVAC	HP tune-up / Packaged Service SF	N/A	SF	NLI	Retrofit	83%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4551	HVAC	HP tune-up / Packaged Service SF	SFIE	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4552	HVAC	HP tune-up / Packaged Service SF	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4553	HVAC	HP tune-up / Packaged Service MF	N/A	MF	NLI	Retrofit	86%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4554	HVAC	HP tune-up / Packaged Service MF	MFIE	MF	LI	Retrofit	89%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4555	HVAC	HP tune-up / Packaged Service MF	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4556	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	83%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4557	HVAC	HP tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4558	HVAC	HP tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4559	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	86%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4560	HVAC	HP tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	89%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4561	HVAC	HP tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4562	HVAC	AC Tune-up / Packaged service SF	N/A	SF	NLI	Retrofit	83%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4563	HVAC	AC Tune-up / Packaged service SF	SFIE	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4564	HVAC	AC Tune-up / Packaged service SF	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4565	HVAC	AC Tune-up / Packaged service MF	N/A	MF	NLI	Retrofit	86%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4566	HVAC	AC Tune-up / Packaged service MF	MFIE	MF	LI	Retrofit	89%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4567	HVAC	AC Tune-up / Packaged service MF	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4568	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	NLI	Retrofit	83%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
4569	HVAC	AC Tune-up / Refrigerant charge SF	SFIE	SF	LI	Retrofit	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4570	HVAC	AC Tune-up / Refrigerant charge SF	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4571	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	NLI	Retrofit	86%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4572	HVAC	AC Tune-up / Refrigerant charge MF	MFIE	MF	LI	Retrofit	89%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
4573	HVAC	AC Tune-up / Refrigerant charge MF	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4574	HVAC	Dirty Filter Alarm_SF	HVAC	SF	NLI	Retrofit	94%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4575	HVAC	Dirty Filter Alarm_SF	SFIE	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4576	HVAC	Dirty Filter Alarm_MF	HVAC	MF	NLI	Retrofit	84%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4577	HVAC	Dirty Filter Alarm_MF	MFIE	MF	LI	Retrofit	70%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4578	HVAC	ECM Fan	HVAC	SF	NLI	Retrofit	62%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4579	HVAC	ECM Fan	SFIE	SF	LI	Retrofit	62%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4580	HVAC	ECM Fan	HVAC	MF	NLI	Retrofit	40%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4581	HVAC	ECM Fan	MFIE	MF	LI	Retrofit	58%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4582	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4583	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4584	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4585	HVAC	Smart Vents/Sensors - Heat pump baseline	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4586	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4587	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4588	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4589	HVAC	Smart Vents/Sensors - Furnace baseline	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4590	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	Retrofit	62%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4591	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4592	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4593	HVAC	Smart Vents/Sensors - Gas/CAC baseline	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4594	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4595	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4596	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4597	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4598	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4599	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4600	HVAC	Energy Recovery Ventilator - Heat Pump	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4601	HVAC	Energy Recovery Ventilator - Electric Resistance	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
4602	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	MO	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4603	HVAC	Electro Caloric Heat Pump	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4604	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4605	HVAC	Electro Caloric Heat Pump	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4606	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	NLI	MO	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4607	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	LI	MO	40%	1%	2%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
4608	HVAC	ENERGY STAR Bath Vent Fans	N/A	SF	N/A	NC	43%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	26%	29%	32%	35%	37%	39%	40%	41%	42%	43%
4609	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	NLI	MO	40%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4610	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	LI	MO	40%	2%	3%	4%	5%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%
4611	HVAC	ENERGY STAR Bath Vent Fans	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	29%	31%	32%	33%	33%	34%
4612	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	66%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4613	HVAC	Learning Thermostat - electric furnace heating / central AC SF	SFIE	SF	LI	Retrofit	44%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4614	HVAC	Learning Thermostat - electric furnace heating / central AC SF	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4615	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4616	HVAC	Learning Thermostat - electric furnace heating / central AC MF	MFIE	MF	LI	Retrofit	33%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4617	HVAC	Learning Thermostat - electric furnace heating / central AC MF	PAYS	MF	N/A	NC	61%	3%	4%	6%	8%	10%	13%	17%	21%	26%	32%	37%	42%	46%	50%	53%	55%	57%	59%	60%	61%
4618	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	NLI	Retrofit	66%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4619	HVAC	Learning Thermostat - Gas Heated / central AC SF**	SFIE	SF	LI	Retrofit	44%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4620	HVAC	Learning Thermostat - Gas Heated / central AC SF**	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4621	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
4622	HVAC	Learning Thermostat - Gas Heated / central AC MF**	MFIE	MF	LI	Retrofit	33%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4623	HVAC	Learning Thermostat - Gas Heated / central AC MF**	PAYS	MF	N/A	NC	61%	3%	4%	6%	8%	10%	13%	17%	21%	26%	32%	37%	42%	46%	50%	53%	55%	57%	59%	60%	61%
4624	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	66%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4625	HVAC	Learning Thermostat - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	44%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4626	HVAC	Learning Thermostat - ASHP heating/cooling SF	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4627	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4628	HVAC	Learning Thermostat - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	33%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4629	HVAC	Learning Thermostat - ASHP heating/cooling MF	PAYS	MF	N/A	NC	61%	3%	4%	6%	8%	10%	13%	17%	21%	26%	32%	37%	42%	46%	50%	53%	55%	57%	59%	60%	61%
4630	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	NLI	Retrofit	66%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4631	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	SFIE	SF	LI	Retrofit	44%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4632	HVAC	Setback thermostat - full setback - elec furnace heating / central AC SF	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4633	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4634	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	MFIE	MF	LI	Retrofit	33%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4635	HVAC	Setback thermostat - full setback - elec furnace heating / central AC MF	PAYS	MF	N/A	NC	61%	3%	4%	6%	8%	10%	13%	17%	21%	26%	32%	37%	42%	46%	50%	53%	55%	57%	59%	60%	61%
4636	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	NLI	Retrofit	66%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4637	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	SFIE	SF	LI	Retrofit	44%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4638	HVAC	Setback thermostat for SF - full setback - gas heating / central AC	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4639	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4640	HVAC	Setback thermostat - full setback - gas heating / central AC MF	MFIE	MF	LI	Retrofit	33%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4641	HVAC	Setback thermostat - full setback - gas heating / central AC MF	PAYS	MF	N/A	NC	61%	3%	4%	6%	8%	10%	13%	17%	21%	26%	32%	37%	42%	46%	50%	53%	55%	57%	59%	60%	61%
4642	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	NLI	Retrofit	66%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
4643	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	SFIE	SF	LI	Retrofit	44%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
4644	HVAC	Setback thermostat - full setback - ASHP heating/cooling SF	PAYS	SF	N/A	NC	66%	3%	5%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
4645	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	NLI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
4646	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	MFIE	MF	LI	Retrofit	33%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4647	HVAC	Setback thermostat - full setback - ASHP heating/cooling MF	PAYS	MF	N/A	NC	61%	3%	4%	6%	8%	10%	13%	17%	21%	26%	32%	37%	42%	46%	50%	53%	55%	57%	59%	60%	61%
5001	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5002	Lighting	LED - 10W (750-899 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5003	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5004	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5005	Lighting	LED - 10W (750-899 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5006	Lighting	LED - 10W (750-899 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5007	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5008	Lighting	LED - 15W (900-1399 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5009	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5010	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5011	Lighting	LED - 15W (900-1399 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5012	Lighting	LED - 15W (900-1399 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5013	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5014	Lighting	LED - 20W (1400-1999 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5015	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5016	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5017	Lighting	LED - 20W (1400-1999 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5018	Lighting	LED - 20W (1400-1999 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5019	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5020	Lighting	LED - 6W (400-749 lumens) IEDI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5021	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5022	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5023	Lighting	LED - 6W (400-749 lumens) IEDI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5024	Lighting	LED - 6W (400-749 lumens) IEDI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5025	Lighting	LED A19 800 Lumens 6W	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5026	Lighting	LED A19 800 Lumens 6W	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5027	Lighting	LED A19 800 Lumens 6W	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5028	Lighting	LED A19 800 Lumens 6W	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5029	Lighting	LED A19 800 Lumens 6W	MFIE	MF	LI	Retrofit	80%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5030	Lighting	LED A19 800 Lumens 6W	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5031	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5032	Lighting	LED - 10.5W Downlight E26 IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5033	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5034	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5035	Lighting	LED - 10.5W Downlight E26 IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5036	Lighting	LED - 10.5W Downlight E26 IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5037	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5038	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5039	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5040	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5041	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5042	Lighting	LED - 11W Flood Light BR30 Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5043	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5044	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5045	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5046	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5047	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5048	Lighting	LED - 15W Flood Light PAR30 Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
5049	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5050	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5051	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5052	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5053	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5054	Lighting	LED - 18W Flood Light PAR38 Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5055	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5056	Lighting	LED - 12W Dimmable Light Bulb IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5057	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5058	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5059	Lighting	LED - 12W Dimmable Light Bulb IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5060	Lighting	LED - 12W Dimmable Light Bulb IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5061	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5062	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5063	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5064	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5065	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5066	Lighting	LED - 4.5-5.5W Globe G25 Bulb (400-500 lumens) DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5067	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5068	Lighting	LED - 4W Candelabra Specialty IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5069	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5070	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5071	Lighting	LED - 4W Candelabra Specialty IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5072	Lighting	LED - 4W Candelabra Specialty IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5073	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5074	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	SFIE	SF	LI	Retrofit	87%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5075	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5076	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5077	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5078	Lighting	LED - 8W Globe Light G25 Bulb Specialty IE DI	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5079	Lighting	LED Nightlights	PAYS	SF	NLI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5080	Lighting	LED Nightlights	SFIE	SF	LI	Retrofit	83%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5081	Lighting	LED Nightlights	PAYS	SF	N/A	NC	83%	4%	6%	8%	10%	14%	18%	23%	29%	36%	43%	50%	57%	63%	68%	72%	76%	78%	80%	82%	83%
5082	Lighting	LED Nightlights	PAYS	MF	NLI	Retrofit	80%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5083	Lighting	LED Nightlights	MFIE	MF	LI	Retrofit	85%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
5084	Lighting	LED Nightlights	PAYS	MF	N/A	NC	80%	4%	5%	7%	10%	13%	17%	22%	28%	35%	41%	48%	55%	60%	65%	70%	73%	75%	77%	79%	80%
5085	Lighting	Occupancy Sensor	N/A	SF	NLI	Retrofit	60%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5086	Lighting	Occupancy Sensor	N/A	SF	LI	Retrofit	62%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5087	Lighting	Occupancy Sensor	N/A	SF	N/A	NC	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
5088	Lighting	Occupancy Sensor	N/A	MF	NLI	Retrofit	57%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5089	Lighting	Occupancy Sensor	N/A	MF	LI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5090	Lighting	Occupancy Sensor	N/A	MF	N/A	NC	57%	3%	4%	5%	7%	10%	12%	16%	20%	25%	30%	35%	39%	43%	47%	50%	52%	54%	56%	57%	57%
5091	Lighting	Exterior Lighting Controls	N/A	SF	NLI	Retrofit	60%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5092	Lighting	Exterior Lighting Controls	N/A	SF	LI	Retrofit	62%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5093	Lighting	Exterior Lighting Controls	N/A	SF	N/A	NC	60%	3%	4%	6%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	54%	56%	58%	59%	60%
5094	Lighting	Exterior Lighting Controls	N/A	MF	NLI	Retrofit	57%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5095	Lighting	Exterior Lighting Controls	N/A	MF	LI	Retrofit	61%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
5096	Lighting	Exterior Lighting Controls	N/A	MF	N/A	NC	57%	3%	4%	5%	7%	10%	12%	16%	20%	25%	30%	35%	39%	43%	47%	50%	52%	54%	56%	57%	57%
5097	Lighting	Advanced Lighting	N/A	SF	N/A	MO	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
5098	Lighting	Advanced Lighting	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
5099	Lighting	Advanced Lighting	N/A	MF	N/A	MO	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
5100	Lighting	Advanced Lighting	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
6001	New Construction	Zero Energy Ready Home	N/A	SF	N/A	NC	37%	2%	2%	3%	5%	6%	8%	10%	13%	16%	19%	22%	25%	28%	30%	32%	33%	35%	35%	36%	37%
6002	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	SF	N/A	NC	37%	2%	2%	3%	5%	6%	8%	10%	13%	16%	19%	22%	25%	28%	30%	32%	33%	35%	35%	36%	37%
6003	New Construction	Zero Energy Ready Home	N/A	MF	N/A	NC	28%	1%	2%	3%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
6004	New Construction	ENERGY STAR® Townhomes and Duplexes	N/A	MF	N/A	NC	28%	1%	2%	3%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
7001	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7002	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	SFIE	SF	LI	Retrofit	70%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7003	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	SF	N/A	NC	45%	2%	3%	4%	6%	7%	10%	13%	16%	20%	23%	27%	31%	34%	37%	39%	41%	43%	44%	45%	45%
7004	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	NLI	Retrofit	70%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7005	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	MFIE	MF	LI	Retrofit	66%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7006	Plug Loads	Advanced Tier 1 Power Strips DI - Home Office	PAYS	MF	N/A	NC	39%	2%	3%	4%	5%	6%	8%	11%	14%	17%	20%	24%	27%	30%	32%	34%	36%	37%	38%	39%	39%
7007	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	NLI	Retrofit	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7008	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	SFIE	SF	LI	Retrofit	70%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7009	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	SF	N/A	NC	54%	3%	4%	5%	7%	9%	12%	15%	19%	23%	28%	33%	37%	41%	44%	47%	49%	51%	52%	53%	54%
7010	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	NLI	Retrofit	70%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7011	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	MFIE	MF	LI	Retrofit	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7012	Plug Loads	Advanced Tier 2 Power Strips: Infrared, TOS/NC	PAYS	MF	N/A	NC	45%	2%	3%	4%	6%	8%	10%	13%	16%	20%	24%	27%	31%	34%	37%	39%	41%	43%	44%	45%	45%
7013	Plug Loads	ENERGY STAR TV	N/A	SF	NLI	Retrofit	79%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7014	Plug Loads	ENERGY STAR TV	N/A	SF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7015	Plug Loads	ENERGY STAR TV	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
7016	Plug Loads	ENERGY STAR TV	N/A	MF	NLI	Retrofit	79%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
7017	Plug Loads	ENERGY STAR TV	N/A	MF	LI	Retrofit	79%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7018	Plug Loads	ENERGY STAR TV	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
7019	Plug Loads	Smart Plug	N/A	SF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7020	Plug Loads	Smart Plug	N/A	SF	LI	Retrofit	22%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7021	Plug Loads	Smart Plug	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
7022	Plug Loads	Smart Plug	N/A	MF	NLI	Retrofit	34%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7023	Plug Loads	Smart Plug	N/A	MF	LI	Retrofit	21%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
7024	Plug Loads	Smart Plug	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
8001	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER1	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%
8002	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER2	47%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
8003	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	SF	NLI	ER3	58%	3%	4%	5%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	48%	51%	53%	55%	56%	57%	58%
8004	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	NLI	MO	47%	2%	2%	3%	4%	6%	7%	10%	12%	15%	18%	21%	23%	26%	28%	30%	31%	32%	33%	34%	34%
8005	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER1	47%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
8006	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER2	47%	1%	2%	2%	3%	4%	5%	6%	8%	10%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
8007	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	SF	LI	ER3	47%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
8008	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	SF	LI	MO	47%	2%	3%	4%	5%	7%	9%	12%	15%	18%	22%	25%	28%	31%	34%	36%	38%	39%	40%	41%	42%
8009	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	10%	12%	15%	18%	21%	23%	26%	28%	30%	31%	32%	33%	34%	34%
8010	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER1	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	40%	43%	45%	47%	48%	49%	49%
8011	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER2	47%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
8012	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	PAYS	MF	NLI	ER3	49%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	37%	41%	43%	45%	47%	48%	49%	49%
8013	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	NLI	MO	47%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	30%	31%	32%	33%	33%	34%
8014	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER1	47%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
8015	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER2	47%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	20%	21%	21%	21%
8016	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ER	SFIE	MF	LI	ER3	47%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
8017	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	SFIE	MF	LI	MO	47%	2%	3%	4%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	38%	38%
8018	Pools	ENERGY STAR VFDs on Residential Swimming Pool Pumps - ROF	PAYS	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	18%	20%	23%	26%	28%	30%	31%	32%	33%	33%	34%
8019	Pools	Heat Pump Pool Heater	N/A	SF	N/A	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
8020	Pools	Heat Pump Pool Heater	N/A	SF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
8021	Pools	Heat Pump Pool Heater	N/A	MF	N/A	MO	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
8022	Pools	Heat Pump Pool Heater	N/A	MF	N/A	NC	34%	2%	2%	3%	4%	6%	7%	9%	12%	15%	17%	20%	23%	25%	27%	29%	31%	32%	32%	33%	34%
9001	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	NLI	MO	16%	1%	1%	1%	1%	2%	3%	3%	4%	5%	6%	7%	8%	9%	10%	10%	11%	11%	11%	12%	12%
9002	Water Heating	Heat Pump Hot Water Heater	SFIE	SF	LI	MO	22%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
9003	Water Heating	Heat Pump Hot Water Heater	HVAC	SF	N/A	NC	12%	1%	1%	1%	1%	2%	3%	3%	4%	5%	6%	7%	8%	9%	10%	10%	11%	11%	11%	12%	12%
9004	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	NLI	MO	22%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
9005	Water Heating	Heat Pump Hot Water Heater	MFIE	MF	LI	MO	35%	2%	2%	3%	4%	6%	8%	10%	13%	15%	18%	21%	24%	27%	29%	31%	32%	33%	34%	35%	35%
9006	Water Heating	Heat Pump Hot Water Heater	HVAC	MF	N/A	NC	22%	1%	1%	2%	3%	4%	5%	6%	8%	9%	11%	13%	15%	17%	18%	19%	20%	21%	21%	22%	22%
9007	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
9008	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	63%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9009	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	14%	1%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	13%	13%	14%	14%	14%	14%
9010	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	52%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9011	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	62%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9012	Water Heating	Low Flow Bathroom Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	9%	0%	1%	1%	1%	1%	2%	2%	3%	4%	4%	5%	6%	6%	7%	7%	8%	8%	8%	8%	9%
9013	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	NLI	Retrofit	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
9014	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	SFIE	SF	LI	Retrofit	63%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9015	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	SF	N/A	NC	14%	1%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	13%	13%	14%	14%	14%	14%
9016	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	NLI	Retrofit	52%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9017	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	MFIE	MF	LI	Retrofit	62%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9018	Water Heating	Low Flow Kitchen Faucet Aerator SFIE DI	PAYS	MF	N/A	NC	9%	0%	1%	1%	1%	1%	2%	2%	3%	4%	4%	5%	6%	6%	7%	7%	8%	8%	8%	8%	9%
9019	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	NLI	Retrofit	71%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9020	Water Heating	Low Flow Showerhead SFIE DI	SFIE	SF	LI	Retrofit	66%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9021	Water Heating	Low Flow Showerhead SFIE DI	PAYS	SF	N/A	NC	18%	1%	1%	2%	2%	3%	4%	5%	6%	8%	9%	11%	13%	14%	15%	16%	17%	17%	18%	18%	18%
9022	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	NLI	Retrofit	72%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
9023	Water Heating	Low Flow Showerhead SFIE DI	MFIE	MF	LI	Retrofit	66%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
9024	Water Heating	Low Flow Showerhead SFIE DI	PAYS	MF	N/A	NC	11%	1%	1%	1%	1%	2%	2%	3%	4%	5%	6%	7%	8%	8%	9%	10%	10%	10%	11%	11%	11%
9025	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	NLI	Retrofit	39%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
9026	Water Heating	Pipe Insulation SFIE DI	SFIE	SF	LI	Retrofit	35%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
9027	Water Heating	Pipe Insulation SFIE DI	PAYS	SF	N/A	NC	13%	1%	1%	1%	2%	2%	3%	4%	4%	6%	7%	8%	9%	10%	10%	11%	12%	12%	12%	13%	13%
9028	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	NLI	Retrofit	24%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
9029	Water Heating	Pipe Insulation SFIE DI	MFIE	MF	LI	Retrofit	32%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
9030	Water Heating	Pipe Insulation SFIE DI	PAYS	MF	N/A	NC	8%	0%	1%	1%	1%	1%	2%	2%	3%	3%	4%	5%	5%	6%	6%	7%	7%	7%	7%	7%	8%
9031	Water Heating	Thermostatic Restrictor Valve	N/A	SF	NLI	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9032	Water Heating	Thermostatic Restrictor Valve	N/A	SF	LI	Retrofit	22%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9033	Water Heating	Thermostatic Restrictor Valve	N/A	SF	N/A	NC	14%	1%	1%	1%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	11%	12%	13%	13%	13%	14%	14%
9034	Water Heating	Thermostatic Restrictor Valve	N/A	MF	NLI	Retrofit	28%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9035	Water Heating	Thermostatic Restrictor Valve	N/A	MF	LI	Retrofit	11%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
9036	Water Heating	Thermostatic Restrictor Valve	N/A	MF	N/A	NC	8%	0%	1%	1%	1%	1%	2%	2%	3%	4%	4%	5%	6%	6%	7%	7%	8%	8%	8%	8%	8%
9037	Water Heating	Water Heater Wrap	N/A	SF	NLI	Retrofit	20%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9038	Water Heating	Water Heater Wrap	N/A	SF	LI	Retrofit	16%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9039	Water Heating	Water Heater Wrap	N/A	SF	N/A	NC	14%	1%	1%	1%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	11%	12%	13%	13%	13%	14%	14%
9040	Water Heating	Water Heater Wrap	N/A	MF	NLI	Retrofit	15%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9041	Water Heating	Water Heater Wrap	N/A	MF	LI	Retrofit	10%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
9042	Water Heating	Water Heater Wrap	N/A	MF	N/A	NC	8%	0%	1%	1%	1%	1%	2%	2%	3%	4%	4%	5%	6%	6%	7%	7%	8%	8%	8%	8%	8%
9043	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9044	Water Heating	Gravity Film Heat Exchanger	N/A	SF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%
9045	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	Retrofit	50%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9046	Water Heating	Gravity Film Heat Exchanger	N/A	MF	N/A	NC	50%	2%	3%	5%	6%	8%	11%	14%	17%	21%	26%	30%	34%	38%	41%	43%	45%	47%	48%	49%	50%

Measure #	End-Use	Measure Name	Program	Home Type	Income Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
9047	Water Heating	Water Heater Timer / Setback	N/A	SF	NLI	Retrofit	14%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9048	Water Heating	Water Heater Timer / Setback	N/A	SF	LI	Retrofit	10%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9049	Water Heating	Water Heater Timer / Setback	N/A	SF	N/A	NC	14%	1%	1%	1%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	11%	12%	13%	13%	13%	14%	14%
9050	Water Heating	Water Heater Timer / Setback	N/A	MF	NLI	Retrofit	8%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9051	Water Heating	Water Heater Timer / Setback	N/A	MF	LI	Retrofit	3%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
9052	Water Heating	Water Heater Timer / Setback	N/A	MF	N/A	NC	8%	0%	1%	1%	1%	1%	2%	2%	3%	4%	4%	5%	6%	6%	7%	7%	8%	8%	8%	8%	8%

APPENDIX D. BUSINESS SECTOR ENERGY EFFICIENCY DETAILS

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Education	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
2	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Sales	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
3	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Service	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
4	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Health	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
5	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Lodging	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
6	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Retail	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
7	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Office	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
8	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Warehouse	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
9	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Assembly	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
10	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Other	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
11	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	BSS	ROB	13,834	29%	4,044	0.79	0.66	12	$1,628	100%	37%	1	17%	53%	per unit	2.0	5.4	2.0
12	Cooking	Commercial Electric Convection Oven	Biz-Custom	Education	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
13	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Sales	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
14	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Service	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
15	Cooking	Commercial Electric Convection Oven	Biz-Custom	Health	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
16	Cooking	Commercial Electric Convection Oven	Biz-Custom	Lodging	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
17	Cooking	Commercial Electric Convection Oven	Biz-Custom	Retail	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
18	Cooking	Commercial Electric Convection Oven	Biz-Custom	Office	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
19	Cooking	Commercial Electric Convection Oven	Biz-Custom	Warehouse	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
20	Cooking	Commercial Electric Convection Oven	Biz-Custom	Assembly	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
21	Cooking	Commercial Electric Convection Oven	Biz-Custom	Other	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
22	Cooking	Commercial Electric Convection Oven	Biz-Custom	BSS	ROB	10,624	26%	2,719	0.53	0.45	12	$1,070	100%	38%	1	17%	53%	per unit	2.1	5.4	2.1
23	Cooking	Commercial Electric Griddle	Biz-Custom	Education	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
24	Cooking	Commercial Electric Griddle	Biz-Custom	Food Sales	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
25	Cooking	Commercial Electric Griddle	Biz-Custom	Food Service	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
26	Cooking	Commercial Electric Griddle	Biz-Custom	Health	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
27	Cooking	Commercial Electric Griddle	Biz-Custom	Lodging	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
28	Cooking	Commercial Electric Griddle	Biz-Custom	Retail	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
29	Cooking	Commercial Electric Griddle	Biz-Custom	Office	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
30	Cooking	Commercial Electric Griddle	Biz-Custom	Warehouse	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
31	Cooking	Commercial Electric Griddle	Biz-Custom	Assembly	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
32	Cooking	Commercial Electric Griddle	Biz-Custom	Other	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
33	Cooking	Commercial Electric Griddle	Biz-Custom	BSS	ROB	16,556	16%	2,641	0.52	0.43	12	$850	100%	47%	2	14%	20%	per unit	2.5	5.4	2.5
34	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Education	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
35	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Sales	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
36	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Service	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
37	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Health	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
38	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Lodging	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
39	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Retail	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
40	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Office	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
41	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Warehouse	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
42	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Assembly	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
43	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Other	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	50%	3	6%	47%	per unit	4.3	8.6	4.0
44	Cooking	Commercial Electric Steam Cooker	Biz-BSS	BSS	ROB	19,898	53%	10,606	2.08	1.74	12	$2,000	100%	100%	3	6%	47%	per unit	4.3	4.3	4.5
45	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Education	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
46	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
47	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
48	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Health	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
49	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
50	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Retail	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
51	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Office	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
52	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
53	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
54	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Other	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
55	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	BSS	ROB	35,655	44%	15,766	3.10	2.59	10	$467	100%	90%	4	26%	57%	per unit	24.1	26.8	20.0
56	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Education	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
57	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
58	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
59	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Health	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
60	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
61	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Retail	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
62	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Office	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
63	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
64	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
65	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Other	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
66	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	BSS	ROB	38,282	32%	12,279	2.41	2.01	10	$1,550	100%	90%	4	26%	57%	per unit	5.7	6.3	5.4
67	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Education	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
68	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Sales	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
69	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Service	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
70	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Health	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
71	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Lodging	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
72	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Retail	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
73	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Office	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
74	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Warehouse	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
75	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Assembly	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
76	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Other	ROB	18,407	16%	3,016	0.59	0.49	12	$1,000	100%	45%	5	27%	26%	per unit	2.5	5.4	2.4
77	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	BSS	ROB	18,407	16%	3,016	0.59	0.49	13	$1,000	100%	45%	5	27%	26%	per unit	2.6	5.7	2.6
78	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Education	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
79	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Sales	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
80	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Service	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
81	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Health	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
82	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Lodging	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
83	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Retail	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
84	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Office	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
85	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Warehouse	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
86	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Assembly	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
87	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Other	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	53%	6	3%	14%	per unit	2.4	4.5	2.4
88	Cooking	Insulated Holding Cabinets (Full Size)	Biz-BSS	BSS	ROB	4,602	63%	2,904	0.57	0.48	12	$1,000	100%	120%	6	3%	14%	per unit	2.4	2.0	3.1
89	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Education	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
90	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Sales	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
91	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Service	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
92	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Health	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
93	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Lodging	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
94	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Retail	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
95	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Office	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
96	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Warehouse	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
97	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Assembly	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
98	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Other	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	35%	6	3%	14%	per unit	1.4	3.9	1.5
99	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-BSS	BSS	ROB	3,287	51%	1,676	0.33	0.27	12	$1,000	100%	80%	6	3%	14%	per unit	1.4	1.7	1.9
100	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Education	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
101	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Sales	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
102	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Service	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
103	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Health	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
104	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Lodging	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
105	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Retail	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
106	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Office	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
107	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Warehouse	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
108	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Assembly	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
109	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Other	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	8%	6	3%	14%	per unit	0.3	3.5	0.3
110	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-BSS	BSS	ROB	1,151	28%	323	0.06	0.05	12	$1,000	100%	17%	6	3%	14%	per unit	0.3	1.5	0.4
111	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Education	RET	1,090	76%	826	0.14	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.6	8.4	7.5
112	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Sales	RET	1,045	76%	792	0.13	0.13	15	$97	100%	90%	1	4%	72%	Per unit	7.2	8.0	7.3
113	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Health	RET	1,142	76%	866	0.15	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.9	8.8	7.9
114	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Lodging	RET	1,075	76%	815	0.14	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.4	8.3	7.4
115	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Office	RET	1,093	76%	829	0.14	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.6	8.4	7.6
116	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Service	RET	1,075	76%	815	0.14	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.4	8.3	7.4
117	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Retail	RET	1,055	76%	799	0.13	0.13	15	$97	100%	90%	1	4%	72%	Per unit	7.3	8.1	7.3
118	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Warehouse	RET	1,015	76%	769	0.13	0.13	15	$97	100%	90%	1	4%	72%	Per unit	7.0	7.8	7.1
119	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Assembly	RET	1,075	76%	815	0.14	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.4	8.3	7.4
120	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Other	RET	1,075	76%	815	0.14	0.14	15	$97	100%	90%	1	4%	72%	Per unit	7.4	8.3	7.4
121	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-BSS	BSS	RET	1,074	76%	814	0.14	0.14	15	$97	100%	671%	1	4%	72%	Per unit	7.4	1.1	13.3
122	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Education	RET	1,908	71%	1,355	0.23	0.23	15	$124	100%	90%	2	4%	72%	Per unit	9.7	10.8	9.4
123	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Sales	RET	1,829	71%	1,300	0.22	0.22	15	$124	100%	90%	2	4%	72%	Per unit	9.3	10.3	9.1
124	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Health	RET	2,000	71%	1,421	0.24	0.24	15	$124	100%	90%	2	4%	72%	Per unit	10.2	11.3	9.8
125	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Lodging	RET	1,882	71%	1,337	0.23	0.22	15	$124	100%	90%	2	4%	72%	Per unit	9.6	10.6	9.3
126	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Office	RET	1,914	71%	1,360	0.23	0.23	15	$124	100%	90%	2	4%	72%	Per unit	9.7	10.8	9.5
127	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Service	RET	1,882	71%	1,337	0.23	0.22	15	$124	100%	90%	2	4%	72%	Per unit	9.6	10.6	9.3
128	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Retail	RET	1,847	71%	1,312	0.22	0.22	15	$124	100%	90%	2	4%	72%	Per unit	9.4	10.4	9.2
129	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Warehouse	RET	1,777	71%	1,263	0.21	0.21	15	$124	100%	90%	2	4%	72%	Per unit	9.0	10.1	8.8
130	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Assembly	RET	1,882	71%	1,337	0.23	0.22	15	$124	100%	90%	2	4%	72%	Per unit	9.6	10.6	9.3
131	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Other	RET	1,882	71%	1,337	0.23	0.22	15	$124	100%	90%	2	4%	72%	Per unit	9.6	10.6	9.3
132	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-BSS	BSS	RET	1,880	71%	1,336	0.23	0.22	16	$124	100%	863%	2	4%	72%	Per unit	10.0	1.2	17.4
133	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Education	RET	2,725	67%	1,815	0.31	0.30	15	$134	100%	90%	3	4%	72%	Per unit	12.0	13.3	11.4

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
134	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Sales	RET	2,613	67%	1,740	0.29	0.29	15	$134	100%	90%	3	4%	72%	Per unit	11.5	12.8	11.0
135	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Health	RET	2,857	67%	1,903	0.32	0.32	15	$134	100%	90%	3	4%	72%	Per unit	12.6	14.0	11.9
136	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Lodging	RET	2,688	67%	1,790	0.30	0.30	15	$134	100%	90%	3	4%	72%	Per unit	11.8	13.1	11.3
137	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Office	RET	2,734	67%	1,821	0.31	0.30	15	$134	100%	90%	3	4%	72%	Per unit	12.0	13.4	11.5
138	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Service	RET	2,688	67%	1,790	0.30	0.30	15	$134	100%	90%	3	4%	72%	Per unit	11.8	13.1	11.3
139	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Retail	RET	2,638	67%	1,757	0.30	0.29	15	$134	100%	90%	3	4%	72%	Per unit	11.6	12.9	11.1
140	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Warehouse	RET	2,538	67%	1,691	0.29	0.28	15	$134	100%	90%	3	4%	72%	Per unit	11.2	12.4	10.7
141	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Assembly	RET	2,688	67%	1,790	0.30	0.30	15	$134	100%	90%	3	4%	72%	Per unit	11.8	13.1	11.3
142	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Other	RET	2,688	67%	1,790	0.30	0.30	15	$134	100%	90%	3	4%	72%	Per unit	11.8	13.1	11.3
143	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-BSS	BSS	RET	2,686	67%	1,789	0.30	0.30	16	$134	100%	1065%	3	4%	72%	Per unit	12.3	1.2	21.5
144	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Education	RET	4,360	65%	2,812	0.47	0.47	15	$196	100%	90%	4	4%	72%	Per unit	12.7	14.1	12.1
145	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Sales	RET	4,180	65%	2,697	0.45	0.45	15	$196	100%	90%	4	4%	72%	Per unit	12.2	13.6	11.6
146	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Health	RET	4,571	65%	2,949	0.50	0.49	15	$196	100%	90%	4	4%	72%	Per unit	13.3	14.8	12.6
147	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Lodging	RET	4,300	65%	2,774	0.47	0.46	15	$196	100%	90%	4	4%	72%	Per unit	12.5	13.9	11.9
148	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Office	RET	4,374	65%	2,822	0.48	0.47	15	$196	100%	90%	4	4%	72%	Per unit	12.8	14.2	12.1
149	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Service	RET	4,300	65%	2,774	0.47	0.46	15	$196	100%	90%	4	4%	72%	Per unit	12.5	13.9	11.9
150	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Retail	RET	4,220	65%	2,723	0.46	0.45	15	$196	100%	90%	4	4%	72%	Per unit	12.3	13.7	11.7
151	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Warehouse	RET	4,061	65%	2,620	0.44	0.44	15	$196	100%	90%	4	4%	72%	Per unit	11.8	13.2	11.3
152	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Assembly	RET	4,300	65%	2,774	0.47	0.46	15	$196	100%	90%	4	4%	72%	Per unit	12.5	13.9	11.9
153	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Other	RET	4,300	65%	2,774	0.47	0.46	15	$196	100%	90%	4	4%	72%	Per unit	12.5	13.9	11.9
154	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-BSS	BSS	RET	4,297	65%	2,772	0.47	0.46	16	$196	100%	1130%	4	4%	72%	Per unit	13.1	1.2	22.8
155	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Education	RET	10,360	70%	7,294	1.23	1.21	15	$319	100%	90%	5	4%	72%	Per unit	20.3	22.5	18.7
156	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Sales	RET	9,934	70%	6,994	1.18	1.16	15	$319	100%	90%	5	4%	72%	Per unit	19.4	21.6	18.0
157	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Health	RET	10,861	70%	7,647	1.29	1.27	15	$319	100%	90%	5	4%	72%	Per unit	21.2	23.6	19.6
158	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Lodging	RET	10,218	70%	7,194	1.21	1.20	15	$319	100%	90%	5	4%	72%	Per unit	20.0	22.2	18.5
159	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Office	RET	10,393	70%	7,318	1.23	1.22	15	$319	100%	90%	5	4%	72%	Per unit	20.3	22.6	18.8
160	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Service	RET	10,218	70%	7,194	1.21	1.20	15	$319	100%	90%	5	4%	72%	Per unit	20.0	22.2	18.5
161	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Retail	RET	10,028	70%	7,061	1.19	1.17	15	$319	100%	90%	5	4%	72%	Per unit	19.6	21.8	18.1
162	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Warehouse	RET	9,650	70%	6,794	1.15	1.13	15	$319	100%	90%	5	4%	72%	Per unit	18.9	21.0	17.5
163	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Assembly	RET	10,218	70%	7,194	1.21	1.20	15	$319	100%	90%	5	4%	72%	Per unit	20.0	22.2	18.5
164	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Other	RET	10,218	70%	7,194	1.21	1.20	15	$319	100%	90%	5	4%	72%	Per unit	20.0	22.2	18.5
165	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-BSS	BSS	RET	10,210	70%	7,188	1.21	1.19	15	$319	100%	1801%	5	4%	72%	Per unit	20.0	1.1	35.6
166	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Education	RET	545	76%	413	0.07	0.07	15	$97	100%	51%	6	16%	72%	Per unit	3.8	7.4	3.8
167	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Sales	RET	522	76%	396	0.07	0.07	15	$97	100%	49%	6	16%	72%	Per unit	3.6	7.4	3.7
168	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Health	RET	571	76%	433	0.07	0.07	15	$97	100%	54%	6	16%	72%	Per unit	4.0	7.4	4.0
169	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Lodging	RET	537	76%	407	0.07	0.07	15	$97	100%	50%	6	16%	72%	Per unit	3.7	7.4	3.8
170	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Office	RET	547	76%	414	0.07	0.07	15	$97	100%	51%	6	16%	72%	Per unit	3.8	7.4	3.8
171	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Service	RET	537	76%	407	0.07	0.07	15	$97	100%	50%	6	16%	72%	Per unit	3.7	7.4	3.8
172	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Retail	RET	527	76%	400	0.07	0.07	15	$97	100%	49%	6	16%	72%	Per unit	3.7	7.4	3.7
173	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Warehouse	RET	508	76%	385	0.06	0.06	15	$97	100%	48%	6	16%	72%	Per unit	3.5	7.4	3.6
174	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Assembly	RET	537	76%	407	0.07	0.07	15	$97	100%	50%	6	16%	72%	Per unit	3.7	7.4	3.8
175	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Other	RET	537	76%	407	0.07	0.07	15	$97	100%	50%	6	16%	72%	Per unit	3.7	7.4	3.8
176	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-BSS	BSS	RET	537	76%	407	0.07	0.07	15	$97	100%	336%	6	16%	72%	Per unit	3.7	1.1	6.6
177	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Education	RET	954	71%	678	0.11	0.11	15	$124	100%	66%	7	16%	72%	Per unit	4.9	7.4	4.9
178	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Sales	RET	915	71%	650	0.11	0.11	15	$124	100%	63%	7	16%	72%	Per unit	4.7	7.4	4.7
179	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Health	RET	1,000	71%	710	0.12	0.12	15	$124	100%	69%	7	16%	72%	Per unit	5.1	7.4	5.2
180	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Lodging	RET	941	71%	668	0.11	0.11	15	$124	100%	65%	7	16%	72%	Per unit	4.8	7.4	4.9
181	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Office	RET	957	71%	680	0.11	0.11	15	$124	100%	66%	7	16%	72%	Per unit	4.9	7.4	4.9
182	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Service	RET	941	71%	668	0.11	0.11	15	$124	100%	65%	7	16%	72%	Per unit	4.8	7.4	4.9
183	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Retail	RET	923	71%	656	0.11	0.11	15	$124	100%	64%	7	16%	72%	Per unit	4.7	7.4	4.8
184	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Warehouse	RET	889	71%	631	0.11	0.10	15	$124	100%	61%	7	16%	72%	Per unit	4.5	7.4	4.6
185	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Assembly	RET	941	71%	668	0.11	0.11	15	$124	100%	65%	7	16%	72%	Per unit	4.8	7.4	4.9
186	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Other	RET	941	71%	668	0.11	0.11	15	$124	100%	65%	7	16%	72%	Per unit	4.8	7.4	4.9
187	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-BSS	BSS	RET	940	71%	668	0.11	0.11	15	$124	100%	432%	7	16%	72%	Per unit	4.8	1.1	8.5
188	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Education	RET	1,363	67%	907	0.15	0.15	15	$134	100%	81%	8	16%	72%	Per unit	6.0	7.4	6.1
189	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Sales	RET	1,307	67%	870	0.15	0.14	15	$134	100%	78%	8	16%	72%	Per unit	5.7	7.4	5.8
190	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Health	RET	1,429	67%	951	0.16	0.16	15	$134	100%	85%	8	16%	72%	Per unit	6.3	7.4	6.4
191	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Lodging	RET	1,344	67%	895	0.15	0.15	15	$134	100%	80%	8	16%	72%	Per unit	5.9	7.4	6.0
192	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Office	RET	1,367	67%	910	0.15	0.15	15	$134	100%	81%	8	16%	72%	Per unit	6.0	7.4	6.1
193	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Service	RET	1,344	67%	895	0.15	0.15	15	$134	100%	80%	8	16%	72%	Per unit	5.9	7.4	6.0
194	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Retail	RET	1,319	67%	878	0.15	0.15	15	$134	100%	78%	8	16%	72%	Per unit	5.8	7.4	5.9
195	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Warehouse	RET	1,269	67%	845	0.14	0.14	15	$134	100%	75%	8	16%	72%	Per unit	5.6	7.4	5.7
196	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Assembly	RET	1,344	67%	895	0.15	0.15	15	$134	100%	80%	8	16%	72%	Per unit	5.9	7.4	6.0
197	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Other	RET	1,344	67%	895	0.15	0.15	15	$134	100%	80%	8	16%	72%	Per unit	5.9	7.4	6.0
198	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-BSS	BSS	RET	1,343	67%	894	0.15	0.15	15	$134	100%	533%	8	16%	72%	Per unit	5.9	1.1	10.5
199	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Education	RET	2,180	65%	1,406	0.24	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.4	9.1	6.3

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
200	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Sales	RET	2,090	65%	1,348	0.23	0.22	15	$196	100%	70%	9	16%	72%	Per unit	6.1	8.7	6.1
201	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Health	RET	2,285	65%	1,474	0.25	0.24	15	$196	100%	70%	9	16%	72%	Per unit	6.7	9.5	6.6
202	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Lodging	RET	2,150	65%	1,387	0.23	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.3	9.0	6.2
203	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Office	RET	2,187	65%	1,411	0.24	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.4	9.1	6.3
204	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Service	RET	2,150	65%	1,387	0.23	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.3	9.0	6.2
205	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Retail	RET	2,110	65%	1,361	0.23	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.2	8.8	6.1
206	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Warehouse	RET	2,031	65%	1,310	0.22	0.22	15	$196	100%	70%	9	16%	72%	Per unit	5.9	8.5	5.9
207	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Assembly	RET	2,150	65%	1,387	0.23	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.3	9.0	6.2
208	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Other	RET	2,150	65%	1,387	0.23	0.23	15	$196	100%	70%	9	16%	72%	Per unit	6.3	9.0	6.2
209	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-BSS	BSS	RET	2,148	65%	1,386	0.23	0.23	15	$196	100%	565%	9	16%	72%	Per unit	6.3	1.1	11.2
210	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Education	RET	5,180	70%	3,647	0.62	0.61	15	$319	100%	90%	10	16%	72%	Per unit	10.1	11.3	9.8
211	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Sales	RET	4,967	70%	3,497	0.59	0.58	15	$319	100%	90%	10	16%	72%	Per unit	9.7	10.8	9.4
212	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Health	RET	5,430	70%	3,823	0.64	0.64	15	$319	100%	90%	10	16%	72%	Per unit	10.6	11.8	10.2
213	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Lodging	RET	5,109	70%	3,597	0.61	0.60	15	$319	100%	90%	10	16%	72%	Per unit	10.0	11.1	9.7
214	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Office	RET	5,197	70%	3,659	0.62	0.61	15	$319	100%	90%	10	16%	72%	Per unit	10.2	11.3	9.8
215	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Service	RET	5,109	70%	3,597	0.61	0.60	15	$319	100%	90%	10	16%	72%	Per unit	10.0	11.1	9.7
216	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Retail	RET	5,014	70%	3,530	0.60	0.59	15	$319	100%	90%	10	16%	72%	Per unit	9.8	10.9	9.5
217	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Warehouse	RET	4,825	70%	3,397	0.57	0.56	15	$319	100%	90%	10	16%	72%	Per unit	9.4	10.5	9.2
218	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Assembly	RET	5,109	70%	3,597	0.61	0.60	15	$319	100%	90%	10	16%	72%	Per unit	10.0	11.1	9.7
219	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Other	RET	5,109	70%	3,597	0.61	0.60	15	$319	100%	90%	10	16%	72%	Per unit	10.0	11.1	9.7
220	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-BSS	BSS	RET	5,105	70%	3,594	0.61	0.60	15	$319	100%	900%	10	16%	72%	Per unit	10.0	1.1	17.8
221	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Education	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	9%	56%	Per unit	4.3	5.6	4.4
222	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Sales	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	15%	56%	Per unit	4.3	5.6	4.4
223	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Health	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	24%	56%	Per unit	4.3	5.6	4.4
224	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Lodging	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	58%	56%	Per unit	4.3	5.6	4.4
225	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Office	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	11%	56%	Per unit	4.3	5.6	4.4
226	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Service	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	15%	56%	Per unit	4.3	5.6	4.4
227	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Retail	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	22%	56%	Per unit	4.3	5.6	4.4
228	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Warehouse	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	8%	56%	Per unit	4.3	5.6	4.4
229	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Assembly	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	20%	56%	Per unit	4.3	5.6	4.4
230	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Other	RET	41	50%	21	0.00	0.00	10	$3	100%	76%	1	17%	56%	Per unit	4.3	5.6	4.4
231	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-BSS	BSS	RET	41	50%	21	0.00	0.00	10	$3	100%	509%	1	8%	56%	Per unit	4.3	0.8	8.7
232	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Education	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	9%	56%	Per unit	16.0	17.8	14.4
233	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Sales	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	15%	56%	Per unit	16.0	17.8	14.4
234	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Health	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	24%	56%	Per unit	16.0	17.8	14.4
235	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Lodging	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	58%	56%	Per unit	16.0	17.8	14.4
236	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Office	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	11%	56%	Per unit	16.0	17.8	14.4
237	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Service	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	15%	56%	Per unit	16.0	17.8	14.4
238	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Retail	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	22%	56%	Per unit	16.0	17.8	14.4
239	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Warehouse	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	8%	56%	Per unit	16.0	17.8	14.4
240	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Assembly	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	20%	56%	Per unit	16.0	17.8	14.4
241	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Other	RET	98	80%	78	0.01	0.01	10	$3	100%	90%	1	17%	56%	Per unit	16.0	17.8	14.4
242	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-BSS	BSS	RET	98	80%	78	0.01	0.01	10	$3	100%	1909%	1	8%	56%	Per unit	16.0	0.8	32.6
243	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Education	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	9%	56%	Per unit	5.7	6.3	5.7
244	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Sales	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	15%	56%	Per unit	5.7	6.3	5.7
245	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Health	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	24%	56%	Per unit	5.7	6.3	5.7
246	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Lodging	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	58%	56%	Per unit	5.7	6.3	5.7
247	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Office	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	11%	56%	Per unit	5.7	6.3	5.7
248	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Service	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	15%	56%	Per unit	5.7	6.3	5.7
249	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Retail	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	22%	56%	Per unit	5.7	6.3	5.7
250	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Warehouse	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	8%	56%	Per unit	5.7	6.3	5.7
251	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Assembly	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	20%	56%	Per unit	5.7	6.3	5.7
252	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Other	RET	53	52%	28	0.00	0.00	10	$3	100%	90%	1	17%	56%	Per unit	5.7	6.3	5.7
253	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-BSS	BSS	RET	53	52%	28	0.00	0.00	10	$3	100%	679%	1	8%	56%	Per unit	5.7	0.8	11.6
254	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Education	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	9%	56%	Per unit	36.1	40.1	31.2
255	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Sales	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	15%	56%	Per unit	36.1	40.1	31.2
256	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Health	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	24%	56%	Per unit	36.1	40.1	31.2
257	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Lodging	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	58%	56%	Per unit	36.1	40.1	31.2
258	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Office	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	11%	56%	Per unit	36.1	40.1	31.2
259	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Service	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	15%	56%	Per unit	36.1	40.1	31.2
260	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Retail	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	22%	56%	Per unit	36.1	40.1	31.2
261	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Warehouse	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	8%	56%	Per unit	36.1	40.1	31.2
262	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Assembly	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	20%	56%	Per unit	36.1	40.1	31.2
263	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Other	RET	206	85%	175	0.03	0.03	10	$3	100%	90%	1	17%	56%	Per unit	36.1	40.1	31.2
264	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-BSS	BSS	RET	206	85%	175	0.03	0.03	10	$3	100%	4296%	1	8%	56%	Per unit	36.1	0.8	73.3
265	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Education	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	9%	56%	Per unit	8.3	9.2	7.9

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
266	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Sales	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	15%	56%	Per unit	8.3	9.2	7.9
267	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Health	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	24%	56%	Per unit	8.3	9.2	7.9
268	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Lodging	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	58%	56%	Per unit	8.3	9.2	7.9
269	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Office	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	11%	56%	Per unit	8.3	9.2	7.9
270	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Service	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	15%	56%	Per unit	8.3	9.2	7.9
271	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Retail	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	22%	56%	Per unit	8.3	9.2	7.9
272	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Warehouse	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	8%	56%	Per unit	8.3	9.2	7.9
273	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Assembly	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	20%	56%	Per unit	8.3	9.2	7.9
274	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Other	RET	84	48%	40	0.01	0.01	10	$3	100%	90%	1	17%	56%	Per unit	8.3	9.2	7.9
275	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-BSS	bss	RET	84	48%	40	0.01	0.01	10	$3	100%	990%	1	8%	56%	Per unit	8.3	0.8	16.9
276	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Education	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	11%	54%	Per unit	9.3	10.4	9.1
277	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	17%	54%	Per unit	9.3	10.4	9.1
278	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Health	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	0%	54%	Per unit	9.3	10.4	9.1
279	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	0%	54%	Per unit	9.3	10.4	9.1
280	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Office	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	8%	54%	Per unit	9.3	10.4	9.1
281	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	17%	54%	Per unit	9.3	10.4	9.1
282	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Retail	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	11%	54%	Per unit	9.3	10.4	9.1
283	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	15%	54%	Per unit	9.3	10.4	9.1
284	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	17%	54%	Per unit	9.3	10.4	9.1
285	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Other	RET	1,016	71%	717	0.12	0.12	15	$68	100%	90%	2	13%	54%	Per unit	9.3	10.4	9.1
286	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-BSS	BSS	RET	1,016	71%	717	0.12	0.12	15	$68	100%	843%	2	0%	54%	Per unit	9.3	1.1	16.6
287	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Education	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	11%	54%	Per unit	11.8	13.1	11.3
288	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	17%	54%	Per unit	11.8	13.1	11.3
289	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Health	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	0%	54%	Per unit	11.8	13.1	11.3
290	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	0%	54%	Per unit	11.8	13.1	11.3
291	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Office	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	8%	54%	Per unit	11.8	13.1	11.3
292	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	17%	54%	Per unit	11.8	13.1	11.3
293	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Retail	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	11%	54%	Per unit	11.8	13.1	11.3
294	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	15%	54%	Per unit	11.8	13.1	11.3
295	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	17%	54%	Per unit	11.8	13.1	11.3
296	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Other	RET	1,326	60%	798	0.13	0.13	15	$60	100%	90%	2	13%	54%	Per unit	11.8	13.1	11.3
297	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-BSS	BSS	RET	1,326	60%	798	0.13	0.13	15	$60	100%	1064%	2	0%	54%	Per unit	11.8	1.1	21.0
298	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Education	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	11%	54%	Per unit	5.6	7.4	5.7
299	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	17%	54%	Per unit	5.6	7.4	5.7
300	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Health	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	0%	54%	Per unit	5.6	7.4	5.7
301	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	0%	54%	Per unit	5.6	7.4	5.7
302	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Office	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	8%	54%	Per unit	5.6	7.4	5.7
303	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	17%	54%	Per unit	5.6	7.4	5.7
304	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Retail	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	11%	54%	Per unit	5.6	7.4	5.7
305	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	15%	54%	Per unit	5.6	7.4	5.7
306	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	17%	54%	Per unit	5.6	7.4	5.7
307	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Other	RET	1,455	68%	984	0.17	0.16	15	$156	100%	76%	2	13%	54%	Per unit	5.6	7.4	5.7
308	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-BSS	BSS	RET	1,455	68%	984	0.17	0.16	15	$156	100%	504%	2	0%	54%	Per unit	5.6	1.1	10.0
309	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Education	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	1%	94%	Per unit	2.8	4.3	2.9
310	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Sales	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	0%	94%	Per unit	2.8	4.3	2.9
311	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Health	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	1%	94%	Per unit	2.8	4.3	2.9
312	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Lodging	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	1%	94%	Per unit	2.8	4.3	2.9
313	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Office	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	0%	94%	Per unit	2.8	4.3	2.9
314	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Service	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	0%	94%	Per unit	2.8	4.3	2.9
315	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Retail	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	0%	94%	Per unit	2.8	4.3	2.9
316	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Warehouse	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	0%	94%	Per unit	2.8	4.3	2.9
317	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Assembly	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	1%	94%	Per unit	2.8	4.3	2.9
318	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Other	RET	268	91%	244	0.04	0.04	7	$45	100%	65%	9	0%	94%	Per unit	2.8	4.3	2.9
319	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-BSS	BSS	RET	268	91%	244	0.04	0.04	7	$45	100%	431%	9	0%	94%	Per unit	2.8	0.6	6.5
320	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	15%	64%	Per unit	15.0	16.7	13.5
321	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	14%	64%	Per unit	15.0	16.7	13.5
322	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	14%	64%	Per unit	15.0	16.7	13.5
323	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	7%	64%	Per unit	15.0	16.7	13.5
324	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	16%	64%	Per unit	15.0	16.7	13.5
325	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	14%	64%	Per unit	15.0	16.7	13.5
326	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	13%	64%	Per unit	15.0	16.7	13.5
327	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	15%	64%	Per unit	15.0	16.7	13.5
328	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	12%	64%	Per unit	15.0	16.7	13.5
329	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	501	58%	290	0.05	0.05	10	$13	100%	90%	3	13%	64%	Per unit	15.0	16.7	13.5
330	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	501	58%	290	0.05	0.05	10	$13	100%	1786%	3	18%	64%	Per unit	15.0	0.8	30.5
331	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	15%	64%	Per unit	32.3	35.9	29.3

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
332	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	14%	64%	Per unit	32.3	35.9	29.3
333	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	14%	64%	Per unit	32.3	35.9	29.3
334	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	7%	64%	Per unit	32.3	35.9	29.3
335	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	16%	64%	Per unit	32.3	35.9	29.3
336	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	14%	64%	Per unit	32.3	35.9	29.3
337	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	13%	64%	Per unit	32.3	35.9	29.3
338	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	15%	64%	Per unit	32.3	35.9	29.3
339	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	12%	64%	Per unit	32.3	35.9	29.3
340	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	841	56%	473	0.08	0.08	15	$13	100%	90%	3	13%	64%	Per unit	32.3	35.9	29.3
341	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	841	56%	473	0.08	0.08	15	$13	100%	2913%	3	18%	64%	Per unit	32.3	1.1	57.5
342	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Education	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	15%	64%	Per unit	15.9	17.6	14.4
343	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	14%	64%	Per unit	15.9	17.6	14.4
344	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Health	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	14%	64%	Per unit	15.9	17.6	14.4
345	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Lodging	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	7%	64%	Per unit	15.9	17.6	14.4
346	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Office	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	16%	64%	Per unit	15.9	17.6	14.4
347	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Service	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	14%	64%	Per unit	15.9	17.6	14.4
348	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Retail	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	13%	64%	Per unit	15.9	17.6	14.4
349	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	15%	64%	Per unit	15.9	17.6	14.4
350	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Assembly	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	12%	64%	Per unit	15.9	17.6	14.4
351	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Other	RET	406	71%	287	0.05	0.05	11	$13	100%	90%	3	13%	64%	Per unit	15.9	17.6	14.4
352	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-BSS	BSS	RET	406	71%	287	0.05	0.05	11	$13	100%	1765%	3	18%	64%	Per unit	15.9	0.9	31.2
353	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	31%	64%	Per unit	11.4	12.6	10.5
354	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	27%	64%	Per unit	11.4	12.6	10.5
355	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	27%	64%	Per unit	11.4	12.6	10.5
356	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	14%	64%	Per unit	11.4	12.6	10.5
357	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	32%	64%	Per unit	11.4	12.6	10.5
358	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	27%	64%	Per unit	11.4	12.6	10.5
359	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	27%	64%	Per unit	11.4	12.6	10.5
360	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	29%	64%	Per unit	11.4	12.6	10.5
361	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	24%	64%	Per unit	11.4	12.6	10.5
362	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	393	56%	220	0.04	0.04	10	$13	100%	90%	5	27%	64%	Per unit	11.4	12.6	10.5
363	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	393	56%	220	0.04	0.04	10	$13	100%	1356%	5	36%	64%	Per unit	11.4	0.8	23.1
364	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	31%	64%	Per unit	13.6	15.2	12.9
365	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	27%	64%	Per unit	13.6	15.2	12.9
366	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	27%	64%	Per unit	13.6	15.2	12.9
367	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	14%	64%	Per unit	13.6	15.2	12.9
368	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	32%	64%	Per unit	13.6	15.2	12.9
369	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	27%	64%	Per unit	13.6	15.2	12.9
370	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	27%	64%	Per unit	13.6	15.2	12.9
371	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	29%	64%	Per unit	13.6	15.2	12.9
372	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	24%	64%	Per unit	13.6	15.2	12.9
373	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	328	61%	200	0.03	0.03	15	$13	100%	90%	5	27%	64%	Per unit	13.6	15.2	12.9
374	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	328	61%	200	0.03	0.03	15	$13	100%	1231%	5	36%	64%	Per unit	13.6	1.1	24.3
375	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Education	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	31%	64%	Per unit	9.4	10.4	8.9
376	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	27%	64%	Per unit	9.4	10.4	8.9
377	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Health	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	27%	64%	Per unit	9.4	10.4	8.9
378	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Lodging	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	14%	64%	Per unit	9.4	10.4	8.9
379	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Office	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	32%	64%	Per unit	9.4	10.4	8.9
380	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Food Service	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	27%	64%	Per unit	9.4	10.4	8.9
381	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Retail	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	27%	64%	Per unit	9.4	10.4	8.9
382	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	29%	64%	Per unit	9.4	10.4	8.9
383	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Assembly	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	24%	64%	Per unit	9.4	10.4	8.9
384	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Other	RET	308	55%	170	0.03	0.03	11	$13	100%	90%	5	27%	64%	Per unit	9.4	10.4	8.9
385	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-BSS	BSS	RET	308	55%	170	0.03	0.03	11	$13	100%	1044%	4	36%	64%	Per unit	9.4	0.9	18.4
386	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	31%	64%	Per unit	9.7	10.7	9.0
387	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	27%	64%	Per unit	9.7	10.7	9.0
388	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	27%	64%	Per unit	9.7	10.7	9.0
389	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	14%	64%	Per unit	9.7	10.7	9.0
390	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	32%	64%	Per unit	9.7	10.7	9.0
391	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	27%	64%	Per unit	9.7	10.7	9.0
392	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	27%	64%	Per unit	9.7	10.7	9.0
393	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	29%	64%	Per unit	9.7	10.7	9.0
394	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	24%	64%	Per unit	9.7	10.7	9.0
395	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	306	61%	187	0.03	0.03	10	$13	100%	90%	4	27%	64%	Per unit	9.7	10.7	9.0
396	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	306	61%	187	0.03	0.03	10	$13	100%	1150%	4	36%	64%	Per unit	9.7	0.8	19.6
397	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	31%	64%	Per unit	17.4	19.3	16.2

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
398	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	27%	64%	Per unit	17.4	19.3	16.2
399	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	27%	64%	Per unit	17.4	19.3	16.2
400	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	14%	64%	Per unit	17.4	19.3	16.2
401	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	32%	64%	Per unit	17.4	19.3	16.2
402	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	27%	64%	Per unit	17.4	19.3	16.2
403	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	27%	64%	Per unit	17.4	19.3	16.2
404	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	29%	64%	Per unit	17.4	19.3	16.2
405	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	24%	64%	Per unit	17.4	19.3	16.2
406	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	350	73%	255	0.04	0.04	15	$13	100%	90%	4	27%	64%	Per unit	17.4	19.3	16.2
407	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	350	73%	255	0.04	0.04	15	$13	100%	1569%	4	36%	64%	Per unit	17.4	1.1	31.0
408	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Education	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	31%	64%	Per unit	14.7	16.4	13.4
409	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	27%	64%	Per unit	14.7	16.4	13.4
410	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Health	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	27%	64%	Per unit	14.7	16.4	13.4
411	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Lodging	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	14%	64%	Per unit	14.7	16.4	13.4
412	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Office	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	32%	64%	Per unit	14.7	16.4	13.4
413	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Service	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	27%	64%	Per unit	14.7	16.4	13.4
414	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Retail	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	27%	64%	Per unit	14.7	16.4	13.4
415	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	29%	64%	Per unit	14.7	16.4	13.4
416	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Assembly	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	24%	64%	Per unit	14.7	16.4	13.4
417	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Other	RET	385	69%	266	0.04	0.04	11	$13	100%	90%	4	27%	64%	Per unit	14.7	16.4	13.4
418	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-BSS	BSS	RET	385	69%	266	0.04	0.04	11	$13	100%	1640%	4	36%	64%	Per unit	14.7	0.9	28.9
419	Lighting_Int	LED Specialty Lamp	Biz-Standard	Education	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	9%	56%	Per unit	5.3	5.9	5.4
420	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Sales	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	15%	56%	Per unit	5.3	5.9	5.4
421	Lighting_Int	LED Specialty Lamp	Biz-Standard	Health	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	24%	56%	Per unit	5.3	5.9	5.4
422	Lighting_Int	LED Specialty Lamp	Biz-Standard	Lodging	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	58%	56%	Per unit	5.3	5.9	5.4
423	Lighting_Int	LED Specialty Lamp	Biz-Standard	Office	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	11%	56%	Per unit	5.3	5.9	5.4
424	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Service	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	15%	56%	Per unit	5.3	5.9	5.4
425	Lighting_Int	LED Specialty Lamp	Biz-Standard	Retail	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	22%	56%	Per unit	5.3	5.9	5.4
426	Lighting_Int	LED Specialty Lamp	Biz-Standard	Warehouse	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	8%	56%	Per unit	5.3	5.9	5.4
427	Lighting_Int	LED Specialty Lamp	Biz-Standard	Assembly	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	20%	56%	Per unit	5.3	5.9	5.4
428	Lighting_Int	LED Specialty Lamp	Biz-Standard	Other	RET	108	87%	95	0.02	0.02	10	$12	100%	90%	1	17%	56%	Per unit	5.3	5.9	5.4
429	Lighting_Int	LED Specialty Lamp	Biz-BSS	BSS	RET	108	87%	95	0.02	0.02	10	$12	100%	633%	1	8%	56%	Per unit	5.3	0.8	10.8
430	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Education	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	97%	20%	Per unit	6.5	7.4	6.6
431	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Sales	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	100%	20%	Per unit	6.5	7.4	6.6
432	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Health	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	92%	20%	Per unit	6.5	7.4	6.6
433	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Lodging	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	92%	20%	Per unit	6.5	7.4	6.6
434	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Office	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	99%	20%	Per unit	6.5	7.4	6.6
435	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Service	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	100%	20%	Per unit	6.5	7.4	6.6
436	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Retail	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	100%	20%	Per unit	6.5	7.4	6.6
437	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Warehouse	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	97%	20%	Per unit	6.5	7.4	6.6
438	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Assembly	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	96%	20%	Per unit	6.5	7.4	6.6
439	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Other	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	97%	20%	Per unit	6.5	7.4	6.6
440	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	BSS	RET	114,665	64%	73,004	12.31	12.13	15	$10,000	100%	88%	11	98%	20%	Per unit	6.5	7.4	6.6
441	Lighting_Int	Lighting Power Density	Biz-Custom	Education	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	62%	20%	Per unit	2.7	7.4	2.7
442	Lighting_Int	Lighting Power Density	Biz-Custom	Food Sales	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	43%	20%	Per unit	2.7	7.4	2.7
443	Lighting_Int	Lighting Power Density	Biz-Custom	Health	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	58%	20%	Per unit	2.7	7.4	2.7
444	Lighting_Int	Lighting Power Density	Biz-Custom	Lodging	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	23%	20%	Per unit	2.7	7.4	2.7
445	Lighting_Int	Lighting Power Density	Biz-Custom	Office	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	55%	20%	Per unit	2.7	7.4	2.7
446	Lighting_Int	Lighting Power Density	Biz-Custom	Food Service	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	43%	20%	Per unit	2.7	7.4	2.7
447	Lighting_Int	Lighting Power Density	Biz-Custom	Retail	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	37%	20%	Per unit	2.7	7.4	2.7
448	Lighting_Int	Lighting Power Density	Biz-Custom	Warehouse	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	29%	20%	Per unit	2.7	7.4	2.7
449	Lighting_Int	Lighting Power Density	Biz-Custom	Assembly	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	48%	20%	Per unit	2.7	7.4	2.7
450	Lighting_Int	Lighting Power Density	Biz-Custom	Other	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	36%	20%	Per unit	2.7	7.4	2.7
451	Lighting_Int	Lighting Power Density	Biz-Custom	BSS	RET	3	22%	1	0.00	0.00	15	$0	100%	36%	6	69%	20%	Per unit	2.7	7.4	2.7
452	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Education	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	87%	59%	Per unit	1.6	5.6	1.6
453	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Sales	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	85%	59%	Per unit	1.6	5.6	1.6
454	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Health	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	68%	59%	Per unit	1.6	5.6	1.6
455	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Lodging	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	35%	59%	Per unit	1.6	5.6	1.6
456	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Office	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	87%	59%	Per unit	1.6	5.6	1.6
457	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Service	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	85%	59%	Per unit	1.6	5.6	1.6
458	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Retail	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	78%	59%	Per unit	1.6	5.6	1.6
459	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Warehouse	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	89%	59%	Per unit	1.6	5.6	1.6
460	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Assembly	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	76%	59%	Per unit	1.6	5.6	1.6
461	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Other	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	80%	59%	Per unit	1.6	5.6	1.6
462	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	BSS	RET	626	24%	150	0.03	0.02	10	$65	100%	28%	7	90%	59%	Per unit	1.6	5.6	1.6
463	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Education	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	87%	59%	Per unit	3.5	5.6	3.6

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
464	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Sales	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	85%	59%	Per unit	3.5	5.6	3.6
465	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Health	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	68%	59%	Per unit	3.5	5.6	3.6
466	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Lodging	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	35%	59%	Per unit	3.5	5.6	3.6
467	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Office	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	87%	59%	Per unit	3.5	5.6	3.6
468	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Service	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	85%	59%	Per unit	3.5	5.6	3.6
469	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Retail	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	78%	59%	Per unit	3.5	5.6	3.6
470	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Warehouse	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	89%	59%	Per unit	3.5	5.6	3.6
471	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Assembly	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	76%	59%	Per unit	3.5	5.6	3.6
472	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Other	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	80%	59%	Per unit	3.5	5.6	3.6
473	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	BSS	RET	2,275	24%	546	0.09	0.09	10	$105	100%	62%	7	90%	59%	Per unit	3.5	5.6	3.6
474	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Education	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	87%	15%	Per unit	0.5	7.4	0.5
475	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Sales	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	85%	15%	Per unit	0.5	7.4	0.5
476	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Health	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	68%	15%	Per unit	0.5	7.4	0.5
477	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Lodging	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	35%	15%	Per unit	0.5	7.4	0.5
478	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Office	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	87%	15%	Per unit	0.5	7.4	0.5
479	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Service	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	85%	15%	Per unit	0.5	7.4	0.5
480	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Retail	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	78%	15%	Per unit	0.5	7.4	0.5
481	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Warehouse	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	89%	15%	Per unit	0.5	7.4	0.5
482	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Assembly	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	76%	15%	Per unit	0.5	7.4	0.5
483	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Other	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	80%	15%	Per unit	0.5	7.4	0.5
484	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	BSS	RET	3,840	11%	422	0.07	0.07	15	$747	100%	7%	8	90%	15%	Per unit	0.5	7.4	0.5
485	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Education	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	87%	15%	Per unit	1.4	7.4	1.5
486	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Sales	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	85%	15%	Per unit	1.4	7.4	1.5
487	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Health	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	68%	15%	Per unit	1.4	7.4	1.5
488	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Lodging	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	35%	15%	Per unit	1.4	7.4	1.5
489	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Office	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	87%	15%	Per unit	1.4	7.4	1.5
490	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Service	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	85%	15%	Per unit	1.4	7.4	1.5
491	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Retail	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	78%	15%	Per unit	1.4	7.4	1.5
492	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Warehouse	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	89%	15%	Per unit	1.4	7.4	1.5
493	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Assembly	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	76%	15%	Per unit	1.4	7.4	1.5
494	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Other	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	80%	15%	Per unit	1.4	7.4	1.5
495	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	BSS	RET	3,840	28%	1,075	0.18	0.18	15	$663	100%	19%	8	90%	15%	Per unit	1.4	7.4	1.5
496	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Education	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	87%	15%	Per unit	3.4	7.4	3.5
497	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Sales	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	85%	15%	Per unit	3.4	7.4	3.5
498	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Health	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	68%	15%	Per unit	3.4	7.4	3.5
499	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Lodging	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	35%	15%	Per unit	3.4	7.4	3.5
500	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Office	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	87%	15%	Per unit	3.4	7.4	3.5
501	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Service	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	85%	15%	Per unit	3.4	7.4	3.5
502	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Retail	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	78%	15%	Per unit	3.4	7.4	3.5
503	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Warehouse	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	89%	15%	Per unit	3.4	7.4	3.5
504	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Assembly	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	76%	15%	Per unit	3.4	7.4	3.5
505	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Other	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	80%	15%	Per unit	3.4	7.4	3.5
506	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	BSS	RET	3,840	10%	384	0.06	0.06	15	$100	100%	46%	9	90%	15%	Per unit	3.4	7.4	3.5
507	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Education	RET	345	61%	211	0.04	0.03	10	$56	100%	45%	10	87%	15%	Per unit	2.5	5.6	2.6
508	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Sales	RET	428	61%	261	0.04	0.04	10	$56	100%	56%	10	85%	15%	Per unit	3.1	5.6	3.2
509	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Health	RET	588	61%	358	0.06	0.06	10	$56	100%	77%	10	68%	15%	Per unit	4.3	5.6	4.4
510	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Lodging	RET	359	61%	219	0.04	0.04	10	$56	100%	47%	10	35%	15%	Per unit	2.6	5.6	2.7
511	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Office	RET	364	61%	222	0.04	0.04	10	$56	100%	48%	10	87%	15%	Per unit	2.7	5.6	2.7
512	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Service	RET	448	61%	273	0.05	0.05	10	$56	100%	59%	10	85%	15%	Per unit	3.3	5.6	3.3
513	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Retail	RET	548	61%	334	0.06	0.06	10	$56	100%	72%	10	78%	15%	Per unit	4.0	5.6	4.1
514	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Warehouse	RET	412	61%	251	0.04	0.04	10	$56	100%	54%	10	89%	15%	Per unit	3.0	5.6	3.1
515	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Assembly	RET	389	61%	237	0.04	0.04	10	$56	100%	51%	10	76%	15%	Per unit	2.8	5.6	2.9
516	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Other	RET	272	61%	166	0.03	0.03	10	$56	100%	36%	10	80%	15%	Per unit	2.0	5.6	2.0
517	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	BSS	RET	415	61%	253	0.04	0.04	10	$56	100%	54%	10	90%	15%	Per unit	3.0	5.6	3.1
518	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Education	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
519	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Sales	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
520	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Health	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
521	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Lodging	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
522	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Office	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
523	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Service	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
524	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Retail	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
525	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Warehouse	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
526	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Assembly	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
527	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Other	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	59%	2	100%	16%	per HP	3.1	5.2	3.3
528	Compressed Air	Efficient Air Compressors (VSD)	Biz-BSS	BSS	ROB	4,514	22%	984	0.14	0.15	10	$202	100%	135%	2	100%	16%	per HP	3.1	2.3	4.1
529	Compressed Air	Efficient Air Nozzles	Biz-Standard	Education	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
530	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Sales	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
531	Compressed Air	Efficient Air Nozzles	Biz-Standard	Health	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
532	Compressed Air	Efficient Air Nozzles	Biz-Standard	Lodging	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
533	Compressed Air	Efficient Air Nozzles	Biz-Standard	Office	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
534	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Service	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
535	Compressed Air	Efficient Air Nozzles	Biz-Standard	Retail	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
536	Compressed Air	Efficient Air Nozzles	Biz-Standard	Warehouse	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
537	Compressed Air	Efficient Air Nozzles	Biz-Standard	Assembly	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
538	Compressed Air	Efficient Air Nozzles	Biz-Standard	Other	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	169%	5	5%	29%	per unit	16.7	9.9	17.3
539	Compressed Air	Efficient Air Nozzles	Biz-BSS	BSS	RET	2,366	50%	1,183	0.16	0.18	15	$59	100%	385%	5	5%	29%	per unit	16.7	4.3	19.5
540	Compressed Air	AODD Pump Controls	Biz-Custom	Education	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
541	Compressed Air	AODD Pump Controls	Biz-Custom	Food Sales	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
542	Compressed Air	AODD Pump Controls	Biz-Custom	Health	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
543	Compressed Air	AODD Pump Controls	Biz-Custom	Lodging	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
544	Compressed Air	AODD Pump Controls	Biz-Custom	Office	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
545	Compressed Air	AODD Pump Controls	Biz-Custom	Food Service	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
546	Compressed Air	AODD Pump Controls	Biz-Custom	Retail	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
547	Compressed Air	AODD Pump Controls	Biz-Custom	Warehouse	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
548	Compressed Air	AODD Pump Controls	Biz-Custom	Assembly	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
549	Compressed Air	AODD Pump Controls	Biz-Custom	Other	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
550	Compressed Air	AODD Pump Controls	Biz-Custom	BSS	RET	74,129	35%	25,945	3.58	3.92	10	$1,150	100%	90%	3	100%	5%	per unit	14.2	15.8	13.6
551	Compressed Air	No Loss Condensate Drain	Biz-Standard	Education	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
552	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Sales	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
553	Compressed Air	No Loss Condensate Drain	Biz-Standard	Health	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
554	Compressed Air	No Loss Condensate Drain	Biz-Standard	Lodging	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
555	Compressed Air	No Loss Condensate Drain	Biz-Standard	Office	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
556	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Service	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
557	Compressed Air	No Loss Condensate Drain	Biz-Standard	Retail	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
558	Compressed Air	No Loss Condensate Drain	Biz-Standard	Warehouse	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
559	Compressed Air	No Loss Condensate Drain	Biz-Standard	Assembly	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
560	Compressed Air	No Loss Condensate Drain	Biz-Standard	Other	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	31%	4	100%	11%	per drain	2.3	7.3	2.4
561	Compressed Air	No Loss Condensate Drain	Biz-BSS	BSS	RET	74,129	3%	2,320	0.32	0.35	13	$778	100%	70%	4	100%	11%	per drain	2.3	3.2	2.8
562	Compressed Air	Compressed Air - Custom	Biz-Custom	Education	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
563	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Sales	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
564	Compressed Air	Compressed Air - Custom	Biz-Custom	Health	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
565	Compressed Air	Compressed Air - Custom	Biz-Custom	Lodging	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
566	Compressed Air	Compressed Air - Custom	Biz-Custom	Office	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
567	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Service	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
568	Compressed Air	Compressed Air - Custom	Biz-Custom	Retail	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
569	Compressed Air	Compressed Air - Custom	Biz-Custom	Warehouse	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
570	Compressed Air	Compressed Air - Custom	Biz-Custom	Assembly	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
571	Compressed Air	Compressed Air - Custom	Biz-Custom	Other	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
572	Compressed Air	Compressed Air - Custom	Biz-Custom	BSS	RET	5	20%	1	0.00	0.00	10	$0	100%	59%	6	100%	20%	per kWh saved	2.9	4.8	3.2
573	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Education	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
574	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Sales	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
575	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Health	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
576	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Lodging	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
577	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Office	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
578	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Service	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
579	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Retail	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
580	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Warehouse	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
581	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Assembly	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
582	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Other	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
583	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	BSS	RET	5	21%	1	0.00	0.00	5	$0	100%	59%	1	100%	9%	per kWh saved	1.7	2.8	1.9
584	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Education	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
585	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Sales	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
586	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Health	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
587	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Lodging	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
588	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Office	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
589	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Service	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
590	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Retail	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
591	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Warehouse	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
592	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Assembly	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
593	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Other	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
594	Compressed Air	Compressed Air Leak Repair	Biz-Custom	BSS	RET	4,799	17%	816	0.11	0.12	2	$0	100%	90%	1	100%	50%	per CFM reduced	1,524.8	1,694.2	1,200.6
595	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Education	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	0%	10%	Per ton	0.9	1.5	1.0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
596	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Sales	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	18%	10%	Per ton	0.9	1.5	1.0
597	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Health	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	0%	10%	Per ton	0.9	1.5	1.0
598	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Lodging	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	0%	10%	Per ton	0.9	1.5	1.0
599	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Office	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	5%	10%	Per ton	0.9	1.5	1.0
600	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Service	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	19%	10%	Per ton	0.9	1.5	1.0
601	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Retail	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	18%	10%	Per ton	0.9	1.5	1.0
602	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Warehouse	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	47%	10%	Per ton	0.9	1.5	1.0
603	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Assembly	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	21%	10%	Per ton	0.9	1.5	1.0
604	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Other	ROB	943	16%	150	0.11	0.00	15	$263	100%	57%	8	0%	10%	Per ton	0.9	1.5	1.0
605	Cooling	Air Conditioner - (<65kBTUh)	Biz-BSS	BSS	ROB	943	16%	150	0.11	0.00	15	$263	100%	128%	8	17%	10%	Per ton	0.9	0.7	1.7
606	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Education	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	14%	10%	Per ton	0.8	1.5	0.9
607	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Sales	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	10%	10%	Per ton	0.8	1.5	0.9
608	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Health	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	14%	10%	Per ton	0.8	1.5	0.9
609	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Lodging	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	7%	10%	Per ton	0.8	1.5	0.9
610	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Office	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	14%	10%	Per ton	0.8	1.5	0.9
611	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Service	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	11%	10%	Per ton	0.8	1.5	0.9
612	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Retail	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	9%	10%	Per ton	0.8	1.5	0.9
613	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Warehouse	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	13%	10%	Per ton	0.8	1.5	0.9
614	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Assembly	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	11%	10%	Per ton	0.8	1.5	0.9
615	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Other	ROB	865	12%	102	0.07	0.00	15	$204	100%	50%	2	15%	10%	Per ton	0.8	1.5	0.9
616	Cooling	Air Conditioner - (65-135kBTUh)	Biz-BSS	BSS	ROB	865	12%	102	0.07	0.00	15	$204	100%	114%	2	12%	10%	Per ton	0.8	0.7	1.5
617	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Education	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	14%	10%	Per ton	0.8	1.5	1.0
618	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Sales	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	10%	10%	Per ton	0.8	1.5	1.0
619	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Health	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	14%	10%	Per ton	0.8	1.5	1.0
620	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Lodging	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	7%	10%	Per ton	0.8	1.5	1.0
621	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Office	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	14%	10%	Per ton	0.8	1.5	1.0
622	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Service	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	11%	10%	Per ton	0.8	1.5	1.0
623	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Retail	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	9%	10%	Per ton	0.8	1.5	1.0
624	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Warehouse	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	13%	10%	Per ton	0.8	1.5	1.0
625	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Assembly	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	11%	10%	Per ton	0.8	1.5	1.0
626	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Other	ROB	903	13%	118	0.08	0.00	15	$218	100%	54%	3	15%	10%	Per ton	0.8	1.5	1.0
627	Cooling	Air Conditioner - (135-240kBTUh)	Biz-BSS	BSS	ROB	903	13%	118	0.08	0.00	15	$218	100%	122%	3	12%	10%	Per ton	0.8	0.7	1.6
628	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Education	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	14%	10%	Per ton	0.9	1.6	1.0
629	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Sales	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	10%	10%	Per ton	0.9	1.6	1.0
630	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Health	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	14%	10%	Per ton	0.9	1.6	1.0
631	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Lodging	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	7%	10%	Per ton	0.9	1.6	1.0
632	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Office	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	14%	10%	Per ton	0.9	1.6	1.0
633	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Service	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	11%	10%	Per ton	0.9	1.6	1.0
634	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Retail	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	9%	10%	Per ton	0.9	1.6	1.0
635	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Warehouse	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	13%	10%	Per ton	0.9	1.6	1.0
636	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Assembly	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	11%	10%	Per ton	0.9	1.6	1.0
637	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Other	ROB	972	18%	179	0.13	0.00	15	$306	100%	57%	4	15%	10%	Per ton	0.9	1.6	1.0
638	Cooling	Air Conditioner - (240-760kBTUh)	Biz-BSS	BSS	ROB	972	18%	179	0.13	0.00	15	$306	100%	130%	4	12%	10%	Per ton	0.9	0.7	1.8
639	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Education	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	14%	10%	Per ton	1.5	1.6	1.7
640	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Sales	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	10%	10%	Per ton	1.5	1.6	1.7
641	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Health	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	14%	10%	Per ton	1.5	1.6	1.7
642	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Lodging	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	7%	10%	Per ton	1.5	1.6	1.7
643	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Office	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	14%	10%	Per ton	1.5	1.6	1.7
644	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Service	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	11%	10%	Per ton	1.5	1.6	1.7
645	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Retail	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	9%	10%	Per ton	1.5	1.6	1.7
646	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Warehouse	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	13%	10%	Per ton	1.5	1.6	1.7
647	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Assembly	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	11%	10%	Per ton	1.5	1.6	1.7
648	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Other	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	96%	5	15%	10%	Per ton	1.5	1.6	1.7
649	Cooling	Air Conditioner - (760kBTUh+)	Biz-BSS	BSS	ROB	1,149	1%	10	0.01	0.00	15	$10	100%	221%	5	12%	10%	Per ton	1.5	0.7	3.0
650	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Education	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	27%	10%	Per Ton	0.8	3.1	0.7
651	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Sales	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	0%	10%	Per Ton	0.8	3.1	0.7
652	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Health	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	26%	10%	Per Ton	0.8	3.1	0.7
653	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Lodging	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	28%	10%	Per Ton	0.8	3.1	0.7
654	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Office	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	19%	10%	Per Ton	0.8	3.1	0.7
655	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Service	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	0%	10%	Per Ton	0.8	3.1	0.7
656	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Retail	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	18%	10%	Per Ton	0.8	3.1	0.7
657	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Warehouse	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	0%	10%	Per Ton	0.8	3.1	0.7
658	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Assembly	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	21%	10%	Per Ton	0.8	3.1	0.7
659	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Other	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	24%	10%	Per Ton	0.8	3.1	0.7
660	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	BSS	RET	636	60%	382	0.27	0.00	10	$500	100%	27%	13	21%	10%	Per Ton	0.8	3.1	0.7
661	Cooling	Air Cooled Chiller	Biz-Standard	Education	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	18%	10%	Per ton	0.8	4.0	0.6

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
662	Cooling	Air Cooled Chiller	Biz-Standard	Food Sales	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	0%	10%	Per ton	0.8	4.0	0.6
663	Cooling	Air Cooled Chiller	Biz-Standard	Health	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	17%	10%	Per ton	0.8	4.0	0.6
664	Cooling	Air Cooled Chiller	Biz-Standard	Lodging	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	19%	10%	Per ton	0.8	4.0	0.6
665	Cooling	Air Cooled Chiller	Biz-Standard	Office	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	13%	10%	Per ton	0.8	4.0	0.6
666	Cooling	Air Cooled Chiller	Biz-Standard	Food Service	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	0%	10%	Per ton	0.8	4.0	0.6
667	Cooling	Air Cooled Chiller	Biz-Standard	Retail	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	12%	10%	Per ton	0.8	4.0	0.6
668	Cooling	Air Cooled Chiller	Biz-Standard	Warehouse	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	0%	10%	Per ton	0.8	4.0	0.6
669	Cooling	Air Cooled Chiller	Biz-Standard	Assembly	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	14%	10%	Per ton	0.8	4.0	0.6
670	Cooling	Air Cooled Chiller	Biz-Standard	Other	ROB	922	35%	321	0.23	0.00	23	$855	100%	20%	11	16%	10%	Per ton	0.8	4.0	0.6
671	Cooling	Air Cooled Chiller	Biz-BSS	BSS	ROB	922	35%	321	0.23	0.00	23	$855	100%	44%	11	14%	10%	Per ton	0.8	1.8	0.8
672	Cooling	Water Cooled Chiller	Biz-Standard	Education	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	27%	10%	Per ton	0.6	4.1	0.5
673	Cooling	Water Cooled Chiller	Biz-Standard	Food Sales	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	0%	10%	Per ton	0.6	4.1	0.5
674	Cooling	Water Cooled Chiller	Biz-Standard	Health	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	26%	10%	Per ton	0.6	4.1	0.5
675	Cooling	Water Cooled Chiller	Biz-Standard	Lodging	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	28%	10%	Per ton	0.6	4.1	0.5
676	Cooling	Water Cooled Chiller	Biz-Standard	Office	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	19%	10%	Per ton	0.6	4.1	0.5
677	Cooling	Water Cooled Chiller	Biz-Standard	Food Service	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	0%	10%	Per ton	0.6	4.1	0.5
678	Cooling	Water Cooled Chiller	Biz-Standard	Retail	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	18%	10%	Per ton	0.6	4.1	0.5
679	Cooling	Water Cooled Chiller	Biz-Standard	Warehouse	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	0%	10%	Per ton	0.6	4.1	0.5
680	Cooling	Water Cooled Chiller	Biz-Standard	Assembly	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	21%	10%	Per ton	0.6	4.1	0.5
681	Cooling	Water Cooled Chiller	Biz-Standard	Other	ROB	569	20%	114	0.08	0.00	23	$378	100%	15%	12	24%	10%	Per ton	0.6	4.1	0.5
682	Cooling	Water Cooled Chiller	Biz-BSS	BSS	ROB	569	20%	114	0.08	0.00	23	$378	100%	35%	12	21%	10%	Per ton	0.6	1.8	0.7
683	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Education	RET	866	6%	54	0.04	0.00	3	$5	100%	90%	1	55%	50%	Per ton	2.7	3.0	2.7
684	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Sales	RET	1,240	6%	77	0.06	0.00	3	$5	100%	90%	1	41%	50%	Per ton	3.9	4.4	3.4
685	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Health	RET	2,063	6%	128	0.09	0.00	3	$5	100%	90%	1	57%	50%	Per ton	6.5	7.2	5.1
686	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Lodging	RET	1,414	6%	88	0.06	0.00	3	$5	100%	90%	1	26%	50%	Per ton	4.5	5.0	3.8
687	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Office	RET	1,367	6%	85	0.06	0.00	3	$5	100%	90%	1	56%	50%	Per ton	4.3	4.8	3.7
688	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Service	RET	1,290	6%	80	0.06	0.00	3	$5	100%	90%	1	44%	50%	Per ton	4.1	4.5	3.6
689	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Retail	RET	871	6%	54	0.04	0.00	3	$5	100%	90%	1	35%	50%	Per ton	2.8	3.1	2.7
690	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Warehouse	RET	379	6%	23	0.02	0.00	3	$5	100%	90%	1	53%	50%	Per ton	1.2	1.3	1.7
691	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Assembly	RET	932	6%	58	0.04	0.00	3	$5	100%	90%	1	43%	50%	Per ton	2.9	3.3	2.8
692	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Other	RET	1,236	6%	77	0.05	0.00	3	$5	100%	90%	1	60%	50%	Per ton	3.9	4.3	3.4
693	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	BSS	RET	1,166	6%	72	0.05	0.00	3	$5	100%	90%	1	46%	50%	Per ton	3.7	4.1	3.3
694	Cooling	Chiller Tune-up	Biz-Custom	Education	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	45%	50%	Per ton	4.2	4.7	3.3
695	Cooling	Chiller Tune-up	Biz-Custom	Food Sales	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	0%	50%	Per ton	4.2	4.7	3.3
696	Cooling	Chiller Tune-up	Biz-Custom	Health	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	43%	50%	Per ton	4.2	4.7	3.3
697	Cooling	Chiller Tune-up	Biz-Custom	Lodging	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	47%	50%	Per ton	4.2	4.7	3.3
698	Cooling	Chiller Tune-up	Biz-Custom	Office	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	32%	50%	Per ton	4.2	4.7	3.3
699	Cooling	Chiller Tune-up	Biz-Custom	Food Service	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	0%	50%	Per ton	4.2	4.7	3.3
700	Cooling	Chiller Tune-up	Biz-Custom	Retail	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	29%	50%	Per ton	4.2	4.7	3.3
701	Cooling	Chiller Tune-up	Biz-Custom	Warehouse	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	0%	50%	Per ton	4.2	4.7	3.3
702	Cooling	Chiller Tune-up	Biz-Custom	Assembly	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	36%	50%	Per ton	4.2	4.7	3.3
703	Cooling	Chiller Tune-up	Biz-Custom	Other	RET	811	5%	41	0.03	0.00	5	$5	100%	90%	14	40%	50%	Per ton	4.2	4.7	3.3
704	Cooling	Chiller Tune-up	Biz-Custom	BSS	RET	812	5%	41	0.03	0.00	5	$5	100%	90%	14	35%	50%	Per ton	4.2	4.7	3.3
705	Cooling	Advanced Rooftop Controls	Biz-Standard	Education	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	55%	20%	per HP	1.4	23.2	0.8
706	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Sales	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	41%	20%	per HP	1.4	23.2	0.8
707	Cooling	Advanced Rooftop Controls	Biz-Standard	Health	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	57%	20%	per HP	1.4	23.2	0.8
708	Cooling	Advanced Rooftop Controls	Biz-Standard	Lodging	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	26%	20%	per HP	1.4	23.2	0.8
709	Cooling	Advanced Rooftop Controls	Biz-Standard	Office	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	56%	20%	per HP	1.4	23.2	0.8
710	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Service	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	44%	20%	per HP	1.4	23.2	0.8
711	Cooling	Advanced Rooftop Controls	Biz-Standard	Retail	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	35%	20%	per HP	1.4	23.2	0.8
712	Cooling	Advanced Rooftop Controls	Biz-Standard	Warehouse	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	53%	20%	per HP	1.4	23.2	0.8
713	Cooling	Advanced Rooftop Controls	Biz-Standard	Assembly	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	43%	20%	per HP	1.4	23.2	0.8
714	Cooling	Advanced Rooftop Controls	Biz-Standard	Other	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	6%	6	60%	20%	per HP	1.4	23.2	0.8
715	Cooling	Advanced Rooftop Controls	Biz-BSS	BSS	RET	6,773	56%	3,779	2.71	0.00	15	$4,038	100%	84%	6	46%	20%	per HP	1.4	1.7	1.6
716	Cooling	HVAC Occupancy Controls	Biz-Custom	Education	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	100%	15%	Per ton	0.5	2.5	0.5
717	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Sales	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	82%	15%	Per ton	0.5	2.5	0.5
718	Cooling	HVAC Occupancy Controls	Biz-Custom	Health	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	100%	15%	Per ton	0.5	2.5	0.5
719	Cooling	HVAC Occupancy Controls	Biz-Custom	Lodging	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	100%	15%	Per ton	0.5	2.5	0.5
720	Cooling	HVAC Occupancy Controls	Biz-Custom	Office	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	95%	15%	Per ton	0.5	2.5	0.5
721	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Service	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	81%	15%	Per ton	0.5	2.5	0.5
722	Cooling	HVAC Occupancy Controls	Biz-Custom	Retail	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	82%	15%	Per ton	0.5	2.5	0.5
723	Cooling	HVAC Occupancy Controls	Biz-Custom	Warehouse	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	53%	15%	Per ton	0.5	2.5	0.5
724	Cooling	HVAC Occupancy Controls	Biz-Custom	Assembly	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	79%	15%	Per ton	0.5	2.5	0.5
725	Cooling	HVAC Occupancy Controls	Biz-Custom	Other	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	100%	15%	Per ton	0.5	2.5	0.5
726	Cooling	HVAC Occupancy Controls	Biz-Custom	BSS	ROB	903	20%	181	0.13	0.00	8	$323	100%	20%	7	83%	15%	Per ton	0.5	2.5	0.5
727	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Education	ROB	999	13%	133	0.10	0.00	8	$1,047	100%	4%	10	0%	25%	Per ton	0.1	2.5	0.1

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
728	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Sales	ROB	1,431	13%	191	0.14	0.00	8	$1,047	100%	6%	10	41%	25%	Per ton	0.2	2.5	0.1
729	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Health	ROB	2,380	13%	317	0.23	0.00	8	$1,047	100%	11%	10	0%	25%	Per ton	0.3	2.5	0.2
730	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Lodging	ROB	1,632	13%	218	0.16	0.00	8	$1,047	100%	7%	10	26%	25%	Per ton	0.2	2.5	0.2
731	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Office	ROB	1,577	13%	210	0.15	0.00	8	$1,047	100%	7%	10	8%	25%	Per ton	0.2	2.5	0.2
732	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Service	ROB	1,488	13%	198	0.14	0.00	8	$1,047	100%	7%	10	38%	25%	Per ton	0.2	2.5	0.2
733	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Retail	ROB	785	13%	105	0.07	0.00	8	$1,047	100%	3%	10	18%	25%	Per ton	0.1	2.5	0.1
734	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Warehouse	ROB	437	13%	58	0.04	0.00	8	$1,047	100%	2%	10	0%	25%	Per ton	0.0	2.5	0.0
735	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Assembly	ROB	1,075	13%	143	0.10	0.00	8	$1,047	100%	5%	10	0%	25%	Per ton	0.1	2.5	0.1
736	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Other	ROB	1,426	13%	190	0.14	0.00	8	$1,047	100%	6%	10	0%	25%	Per ton	0.2	2.5	0.1
737	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	BSS	ROB	1,323	13%	176	0.13	0.00	8	$1,047	100%	6%	10	2%	25%	Per ton	0.1	2.5	0.1
738	Cooling	Smart Thermostat	Biz-Custom	Education	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	0%	67%	Per ton	0.3	2.8	0.2
739	Cooling	Smart Thermostat	Biz-Custom	Food Sales	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	18%	67%	Per ton	0.3	2.8	0.2
740	Cooling	Smart Thermostat	Biz-Custom	Health	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	0%	67%	Per ton	0.3	2.8	0.2
741	Cooling	Smart Thermostat	Biz-Custom	Lodging	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	0%	67%	Per ton	0.3	2.8	0.2
742	Cooling	Smart Thermostat	Biz-Custom	Office	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	5%	43%	Per ton	0.3	2.8	0.2
743	Cooling	Smart Thermostat	Biz-Custom	Food Service	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	19%	67%	Per ton	0.3	2.8	0.2
744	Cooling	Smart Thermostat	Biz-Custom	Retail	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	18%	90%	Per ton	0.3	2.8	0.2
745	Cooling	Smart Thermostat	Biz-Custom	Warehouse	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	47%	67%	Per ton	0.3	2.8	0.2
746	Cooling	Smart Thermostat	Biz-Custom	Assembly	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	21%	67%	Per ton	0.3	2.8	0.2
747	Cooling	Smart Thermostat	Biz-Custom	Other	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	0%	67%	Per ton	0.3	2.8	0.2
748	Cooling	Smart Thermostat	Biz-Custom	BSS	ROB	196	14%	27	0.02	0.00	9	$106	100%	9%	9	17%	67%	Per ton	0.3	2.8	0.2
749	Cooling	Secondary Windows	Biz-Custom	Education	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
750	Cooling	Secondary Windows	Biz-Custom	Food Sales	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
751	Cooling	Secondary Windows	Biz-Custom	Health	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
752	Cooling	Secondary Windows	Biz-Custom	Lodging	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
753	Cooling	Secondary Windows	Biz-Custom	Office	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
754	Cooling	Secondary Windows	Biz-Custom	Food Service	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
755	Cooling	Secondary Windows	Biz-Custom	Retail	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
756	Cooling	Secondary Windows	Biz-Custom	Warehouse	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
757	Cooling	Secondary Windows	Biz-Custom	Assembly	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
758	Cooling	Secondary Windows	Biz-Custom	Other	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
759	Cooling	Secondary Windows	Biz-Custom	BSS	RET	903	6%	54	0.04	0.00	30	$2,400	100%	1%	15	100%	25%	Per ton	0.1	6.8	0.0
760	Cooling	Triple Pane Windows	Biz-Custom	Education	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
761	Cooling	Triple Pane Windows	Biz-Custom	Food Sales	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
762	Cooling	Triple Pane Windows	Biz-Custom	Health	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
763	Cooling	Triple Pane Windows	Biz-Custom	Lodging	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
764	Cooling	Triple Pane Windows	Biz-Custom	Office	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
765	Cooling	Triple Pane Windows	Biz-Custom	Food Service	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
766	Cooling	Triple Pane Windows	Biz-Custom	Retail	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
767	Cooling	Triple Pane Windows	Biz-Custom	Warehouse	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
768	Cooling	Triple Pane Windows	Biz-Custom	Assembly	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
769	Cooling	Triple Pane Windows	Biz-Custom	Other	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
770	Cooling	Triple Pane Windows	Biz-Custom	BSS	ROB	903	6%	54	0.04	0.00	25	$375	100%	5%	15	100%	2%	Per ton	0.3	6.2	0.2
771	Cooling	Energy Recovery Ventilator	Biz-Custom	Education	RET	903	14%	126	0.09	0.00	15	$4	100%	90%	16	100%	2%	Per ton	51.4	57.1	27.0
772	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Sales	RET	903	17%	150	0.11	0.00	15	$4	100%	90%	16	41%	2%	Per ton	61.3	68.1	32.0
773	Cooling	Energy Recovery Ventilator	Biz-Custom	Health	RET	903	49%	440	0.31	0.00	15	$4	100%	90%	16	100%	2%	Per ton	180.0	200.0	92.3
774	Cooling	Energy Recovery Ventilator	Biz-Custom	Lodging	RET	903	0%	0	0.00	0.00	15	$4	100%	0%	16	74%	2%	Per ton	0.0	0.0	0.0
775	Cooling	Energy Recovery Ventilator	Biz-Custom	Office	RET	903	76%	689	0.49	0.00	15	$4	100%	90%	16	88%	2%	Per ton	282.0	313.4	144.1
776	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Service	RET	903	0%	0	0.00	0.00	15	$4	100%	0%	16	44%	2%	Per ton	0.0	0.0	0.0
777	Cooling	Energy Recovery Ventilator	Biz-Custom	Retail	RET	903	40%	360	0.26	0.00	15	$4	100%	90%	16	65%	2%	Per ton	147.3	163.7	75.7
778	Cooling	Energy Recovery Ventilator	Biz-Custom	Warehouse	RET	903	0%	0	0.00	0.00	15	$4	100%	0%	16	53%	2%	Per ton	0.0	0.0	0.0
779	Cooling	Energy Recovery Ventilator	Biz-Custom	Assembly	RET	903	8%	72	0.05	0.00	15	$4	100%	90%	16	79%	2%	Per ton	29.7	33.0	16.0
780	Cooling	Energy Recovery Ventilator	Biz-Custom	Other	RET	903	52%	466	0.33	0.00	15	$4	100%	90%	16	100%	2%	Per ton	190.6	211.8	97.7
781	Cooling	Energy Recovery Ventilator	Biz-Custom	BSS	RET	903	52%	470	0.34	0.00	15	$4	100%	90%	16	81%	2%	Per ton	192.3	213.7	98.5
782	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Education	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	0%	15%	Per ton	1.2	3.1	1.0
783	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Sales	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	22%	15%	Per ton	1.2	3.1	1.0
784	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Health	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	0%	15%	Per ton	1.2	3.1	1.0
785	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Lodging	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	0%	15%	Per ton	1.2	3.1	1.0
786	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Office	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	4%	15%	Per ton	1.2	3.1	1.0
787	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Service	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	19%	15%	Per ton	1.2	3.1	1.0
788	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Retail	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	20%	15%	Per ton	1.2	3.1	1.0
789	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Warehouse	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	16%	15%	Per ton	1.2	3.1	1.0
790	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Assembly	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	23%	15%	Per ton	1.2	3.1	1.0
791	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Other	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	38%	1	0%	15%	Per ton	1.2	3.1	1.0
792	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-BSS	BSS	ROB	2,639	8%	223	0.12	0.05	15	$281	100%	87%	1	18%	15%	Per ton	1.2	1.4	1.5
793	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Education	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	17%	15%	Per ton	1.2	2.3	1.1

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
794	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Sales	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	12%	15%	Per ton	1.2	2.3	1.1
795	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Health	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	13%	15%	Per ton	1.2	2.3	1.1
796	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Lodging	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	4%	15%	Per ton	1.2	2.3	1.1
797	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Office	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	13%	15%	Per ton	1.2	2.3	1.1
798	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Service	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	16%	15%	Per ton	1.2	2.3	1.1
799	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Retail	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	15%	15%	Per ton	1.2	2.3	1.1
800	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Warehouse	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	8%	15%	Per ton	1.2	2.3	1.1
801	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Assembly	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	17%	15%	Per ton	1.2	2.3	1.1
802	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Other	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	51%	2	13%	15%	Per ton	1.2	2.3	1.1
803	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-BSS	BSS	ROB	2,006	8%	170	0.09	0.04	15	$214	100%	117%	2	16%	15%	Per ton	1.2	1.0	1.8
804	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Education	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	17%	15%	Per ton	1.0	2.0	1.1
805	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	12%	15%	Per ton	1.0	2.0	1.1
806	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Health	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	13%	15%	Per ton	1.0	2.0	1.1
807	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Lodging	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	4%	15%	Per ton	1.0	2.0	1.1
808	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Office	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	13%	15%	Per ton	1.0	2.0	1.1
809	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Service	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	16%	15%	Per ton	1.0	2.0	1.1
810	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Retail	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	15%	15%	Per ton	1.0	2.0	1.1
811	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	8%	15%	Per ton	1.0	2.0	1.1
812	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Assembly	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	17%	15%	Per ton	1.0	2.0	1.1
813	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Other	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	51%	3	13%	15%	Per ton	1.0	2.0	1.1
814	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-BSS	BSS	ROB	2,080	10%	205	0.11	0.04	15	$297	100%	117%	3	16%	15%	Per ton	1.0	0.9	1.7
815	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Education	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	17%	15%	Per ton	1.4	2.7	1.2
816	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	12%	15%	Per ton	1.4	2.7	1.2
817	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Health	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	13%	15%	Per ton	1.4	2.7	1.2
818	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Lodging	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	4%	15%	Per ton	1.4	2.7	1.2
819	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Office	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	13%	15%	Per ton	1.4	2.7	1.2
820	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Service	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	16%	15%	Per ton	1.4	2.7	1.2
821	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Retail	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	15%	15%	Per ton	1.4	2.7	1.2
822	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	8%	15%	Per ton	1.4	2.7	1.2
823	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Assembly	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	17%	15%	Per ton	1.4	2.7	1.2
824	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Other	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	51%	4	13%	15%	Per ton	1.4	2.7	1.2
825	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-BSS	BSS	ROB	2,192	18%	386	0.21	0.08	15	$416	100%	117%	4	16%	15%	Per ton	1.4	1.2	1.9
826	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Education	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	3%	15%	Per ton	1.9	6.1	1.3
827	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Sales	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	0%	15%	Per ton	1.9	6.1	1.3
828	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Health	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	0%	15%	Per ton	1.9	6.1	1.3
829	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Lodging	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	8%	15%	Per ton	1.9	6.1	1.3
830	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Office	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	2%	15%	Per ton	1.9	6.1	1.3
831	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Service	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	3%	15%	Per ton	1.9	6.1	1.3
832	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Retail	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	4%	15%	Per ton	1.9	6.1	1.3
833	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Warehouse	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	0%	15%	Per ton	1.9	6.1	1.3
834	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Assembly	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	3%	15%	Per ton	1.9	6.1	1.3
835	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Other	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	31%	5	0%	15%	Per ton	1.9	6.1	1.3
836	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-BSS	BSS	ROB	2,096	25%	526	0.29	0.12	15	$416	100%	76%	5	3%	15%	Per ton	1.9	2.5	1.8
837	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Education	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	0%	15%	Per ton	1.2	3.2	1.0
838	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Sales	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	10%	15%	Per ton	1.2	3.2	1.0
839	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Health	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	0%	15%	Per ton	1.2	3.2	1.0
840	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Lodging	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	15%	15%	Per ton	1.2	3.2	1.0
841	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Office	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	10%	15%	Per ton	1.2	3.2	1.0
842	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Service	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	10%	15%	Per ton	1.2	3.2	1.0
843	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Retail	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	10%	15%	Per ton	1.2	3.2	1.0
844	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Warehouse	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	0%	15%	Per ton	1.2	3.2	1.0
845	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Assembly	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	0%	15%	Per ton	1.2	3.2	1.0
846	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Other	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	0%	15%	Per ton	1.2	3.2	1.0
847	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	BSS	ROB	4,938	27%	1,320	0.72	0.29	8	$1,047	100%	37%	6	2%	15%	Per ton	1.2	3.2	1.0
848	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Education	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	17%	15%	Per ton	0.9	5.4	0.6
849	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Sales	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	12%	15%	Per ton	0.9	5.4	0.6
850	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Health	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	13%	15%	Per ton	0.9	5.4	0.6
851	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Lodging	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	4%	15%	Per ton	0.9	5.4	0.6
852	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Office	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	13%	15%	Per ton	0.9	5.4	0.6
853	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Service	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	16%	15%	Per ton	0.9	5.4	0.6
854	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Retail	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	15%	15%	Per ton	0.9	5.4	0.6
855	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Warehouse	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	8%	15%	Per ton	0.9	5.4	0.6
856	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Assembly	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	17%	15%	Per ton	0.9	5.4	0.6
857	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Other	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	13%	15%	Per ton	0.9	5.4	0.6
858	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	BSS	ROB	2,006	14%	282	0.15	0.06	16	$495	100%	17%	7	16%	15%	Per ton	0.9	5.4	0.6
859	Hot Water	Faucet Aerator	Biz-Custom	Education	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
860	Hot Water	Faucet Aerator	Biz-Custom	Food Sales	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
861	Hot Water	Faucet Aerator	Biz-Custom	Health	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
862	Hot Water	Faucet Aerator	Biz-Custom	Lodging	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
863	Hot Water	Faucet Aerator	Biz-Custom	Office	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
864	Hot Water	Faucet Aerator	Biz-Custom	Food Service	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
865	Hot Water	Faucet Aerator	Biz-Custom	Retail	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
866	Hot Water	Faucet Aerator	Biz-Custom	Warehouse	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
867	Hot Water	Faucet Aerator	Biz-Custom	Assembly	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
868	Hot Water	Faucet Aerator	Biz-Custom	Other	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
869	Hot Water	Faucet Aerator	Biz-Custom	BSS	RET	395	32%	126	0.03	0.02	10	$8	100%	90%	3	20%	85%	per unit	11.2	12.5	9.8
870	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Education	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	66%	4%	per unit	2.8	13.7	2.5
871	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Sales	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
872	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Health	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	66%	4%	per unit	2.8	13.7	2.5
873	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Lodging	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	66%	4%	per unit	2.8	13.7	2.5
874	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Office	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
875	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Service	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
876	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Retail	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
877	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Warehouse	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
878	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Assembly	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
879	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Other	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	21%	1	95%	4%	per unit	2.8	13.7	2.5
880	Hot Water	Res-Sized Heat Pump Water Heater	Biz-BSS	BSS	ROB	5,602	75%	4,204	0.86	0.65	15	$1,400	100%	47%	1	95%	4%	per unit	2.8	6.1	2.8
881	Hot Water	Commercial-Sized HPWH	Biz-Standard	Education	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	34%	4%	per unit	14.9	13.7	13.4
882	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Sales	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
883	Hot Water	Commercial-Sized HPWH	Biz-Standard	Health	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	34%	4%	per unit	14.9	13.7	13.4
884	Hot Water	Commercial-Sized HPWH	Biz-Standard	Lodging	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	34%	4%	per unit	14.9	13.7	13.4
885	Hot Water	Commercial-Sized HPWH	Biz-Standard	Office	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
886	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Service	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
887	Hot Water	Commercial-Sized HPWH	Biz-Standard	Retail	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
888	Hot Water	Commercial-Sized HPWH	Biz-Standard	Warehouse	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
889	Hot Water	Commercial-Sized HPWH	Biz-Standard	Assembly	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
890	Hot Water	Commercial-Sized HPWH	Biz-Standard	Other	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
891	Hot Water	Commercial-Sized HPWH	Biz-BSS	BSS	ROB	217,206	77%	166,990	34.32	25.64	15	$10,600	100%	109%	2	5%	4%	per unit	14.9	13.7	13.4
892	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Education	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
893	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Sales	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
894	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Health	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
895	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Lodging	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
896	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Office	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
897	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Service	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
898	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Retail	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
899	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Warehouse	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
900	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Assembly	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
901	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Other	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
902	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	BSS	ROB	7,913	59%	4,698	0.97	0.72	5	$93	100%	90%	4	20%	85%	per unit	20.5	22.8	15.8
903	Hot Water	Custom Hot Water	Biz-Custom	Education	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
904	Hot Water	Custom Hot Water	Biz-Custom	Food Sales	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
905	Hot Water	Custom Hot Water	Biz-Custom	Health	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
906	Hot Water	Custom Hot Water	Biz-Custom	Lodging	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
907	Hot Water	Custom Hot Water	Biz-Custom	Office	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
908	Hot Water	Custom Hot Water	Biz-Custom	Food Service	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
909	Hot Water	Custom Hot Water	Biz-Custom	Retail	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
910	Hot Water	Custom Hot Water	Biz-Custom	Warehouse	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
911	Hot Water	Custom Hot Water	Biz-Custom	Assembly	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
912	Hot Water	Custom Hot Water	Biz-Custom	Other	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
913	Hot Water	Custom Hot Water	Biz-Custom	BSS	RET	2	50%	1	0.00	0.00	10	$0	100%	38%	2	90%	5%	per kWh saved	1.8	4.8	1.8
914	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Education	RET	385	61%	237	0.03	0.04	5	$233	100%	12%	1	5%	30%	per measure	0.4	3.0	0.4
915	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Sales	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
916	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Health	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
917	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Lodging	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
918	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Office	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
919	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Service	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
920	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Retail	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
921	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Warehouse	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
922	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Assembly	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
923	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Other	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
924	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	BSS	RET	1,278	12%	153	0.02	0.02	5	$233	100%	8%	1	5%	30%	per measure	0.2	3.0	0.3
925	Misc	Miscellaneous Custom	Biz-Custom	Education	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	36%	10%	per kWh	0.2	5.3	0.3

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
926	Misc	Miscellaneous Custom	Biz-Custom	Food Sales	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	37%	10%	per kWh	0.2	5.3	0.3
927	Misc	Miscellaneous Custom	Biz-Custom	Health	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	13%	10%	per kWh	0.2	5.3	0.3
928	Misc	Miscellaneous Custom	Biz-Custom	Lodging	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	46%	10%	per kWh	0.2	5.3	0.3
929	Misc	Miscellaneous Custom	Biz-Custom	Office	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	65%	10%	per kWh	0.2	5.3	0.3
930	Misc	Miscellaneous Custom	Biz-Custom	Food Service	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	63%	10%	per kWh	0.2	5.3	0.3
931	Misc	Miscellaneous Custom	Biz-Custom	Retail	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	48%	10%	per kWh	0.2	5.3	0.3
932	Misc	Miscellaneous Custom	Biz-Custom	Warehouse	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	75%	10%	per kWh	0.2	5.3	0.3
933	Misc	Miscellaneous Custom	Biz-Custom	Assembly	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	50%	10%	per kWh	0.2	5.3	0.3
934	Misc	Miscellaneous Custom	Biz-Custom	Other	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	64%	10%	per kWh	0.2	5.3	0.3
935	Misc	Miscellaneous Custom	Biz-Custom	BSS	RET	7	2%	0	0.00	0.00	10	$0	100%	5%	8	53%	10%	per kWh	0.2	5.3	0.3
936	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Education	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	27%	31%	per HP	4.2	11.0	4.4
937	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Sales	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	30%	31%	per HP	4.2	11.0	4.4
938	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Health	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	30%	31%	per HP	4.2	11.0	4.4
939	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Lodging	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	26%	31%	per HP	4.2	11.0	4.4
940	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Office	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	0%	31%	per HP	4.2	11.0	4.4
941	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Service	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	14%	31%	per HP	4.2	11.0	4.4
942	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Retail	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	25%	31%	per HP	4.2	11.0	4.4
943	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Warehouse	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	0%	31%	per HP	4.2	11.0	4.4
944	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Assembly	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	25%	31%	per HP	4.2	11.0	4.4
945	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Other	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	38%	2	0%	31%	per HP	4.2	11.0	4.4
946	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-BSS	BSS	ROB	9,932	50%	4,966	0.69	0.75	20	$1,180	100%	87%	2	19%	31%	per HP	4.2	4.9	4.8
947	Misc	High Efficiency Hand Dryers	Biz-Custom	Education	RET	2,093	83%	1,737	0.24	0.26	10	$483	100%	43%	3	2%	10%	per measure	2.3	5.3	2.5
948	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Sales	RET	3,819	83%	3,170	0.44	0.48	10	$483	100%	79%	3	2%	10%	per measure	4.1	5.3	4.5
949	Misc	High Efficiency Hand Dryers	Biz-Custom	Health	RET	1,909	83%	1,585	0.22	0.24	10	$483	100%	39%	3	2%	10%	per measure	2.1	5.3	2.2
950	Misc	High Efficiency Hand Dryers	Biz-Custom	Lodging	RET	262	83%	217	0.03	0.03	10	$483	100%	5%	3	2%	10%	per measure	0.3	5.3	0.3
951	Misc	High Efficiency Hand Dryers	Biz-Custom	Office	RET	262	83%	217	0.03	0.03	10	$483	100%	5%	3	2%	10%	per measure	0.3	5.3	0.3
952	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Service	RET	1,909	83%	1,585	0.22	0.24	10	$483	100%	39%	3	2%	10%	per measure	2.1	5.3	2.2
953	Misc	High Efficiency Hand Dryers	Biz-Custom	Retail	RET	1,909	83%	1,585	0.22	0.24	10	$483	100%	39%	3	2%	10%	per measure	2.1	5.3	2.2
954	Misc	High Efficiency Hand Dryers	Biz-Custom	Warehouse	RET	262	83%	217	0.03	0.03	10	$483	100%	5%	3	2%	10%	per measure	0.3	5.3	0.3
955	Misc	High Efficiency Hand Dryers	Biz-Custom	Assembly	RET	262	83%	217	0.03	0.03	10	$483	100%	5%	3	2%	10%	per measure	0.3	5.3	0.3
956	Misc	High Efficiency Hand Dryers	Biz-Custom	Other	RET	262	83%	217	0.03	0.03	10	$483	100%	5%	3	2%	10%	per measure	0.3	5.3	0.3
957	Misc	High Efficiency Hand Dryers	Biz-Custom	BSS	RET	265	83%	220	0.03	0.03	10	$483	100%	5%	3	2%	10%	per measure	0.3	5.3	0.3
958	Misc	Ozone Commercial Laundry	Biz-Custom	Education	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
959	Misc	Ozone Commercial Laundry	Biz-Custom	Food Sales	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
960	Misc	Ozone Commercial Laundry	Biz-Custom	Health	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
961	Misc	Ozone Commercial Laundry	Biz-Custom	Lodging	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	1%	2%	per measure	0.0	5.3	0.0
962	Misc	Ozone Commercial Laundry	Biz-Custom	Office	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
963	Misc	Ozone Commercial Laundry	Biz-Custom	Food Service	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
964	Misc	Ozone Commercial Laundry	Biz-Custom	Retail	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	1%	2%	per measure	0.0	5.3	0.0
965	Misc	Ozone Commercial Laundry	Biz-Custom	Warehouse	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
966	Misc	Ozone Commercial Laundry	Biz-Custom	Assembly	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
967	Misc	Ozone Commercial Laundry	Biz-Custom	Other	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
968	Misc	Ozone Commercial Laundry	Biz-Custom	BSS	RET	2,984	25%	746	0.10	0.11	10	$20,310	100%	0%	4	0%	2%	per measure	0.0	5.3	0.0
969	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Education	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
970	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Sales	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
971	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Health	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
972	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Lodging	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
973	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Office	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	9%	70%	per measure	1.2	7.0	1.3
974	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Service	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	0%	70%	per measure	1.2	7.0	1.3
975	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Retail	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
976	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Warehouse	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
977	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Assembly	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
978	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Other	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	1%	70%	per measure	1.2	7.0	1.3
979	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	BSS	ROB	3,096	3%	85	0.01	0.01	15	$59	100%	17%	5	3%	70%	per measure	1.2	7.0	1.3
980	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Education	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	0%	33%	per measure	4.5	8.2	4.6
981	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Sales	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	5%	33%	per measure	4.5	8.2	4.6
982	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Health	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	5%	33%	per measure	4.5	8.2	4.6
983	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Lodging	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	5%	33%	per measure	4.5	8.2	4.6
984	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Office	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	0%	33%	per measure	4.5	8.2	4.6
985	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Service	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	0%	33%	per measure	4.5	8.2	4.6
986	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Retail	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	5%	33%	per measure	4.5	8.2	4.6
987	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Warehouse	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	5%	33%	per measure	4.5	8.2	4.6
988	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Assembly	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	0%	33%	per measure	4.5	8.2	4.6
989	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Other	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	54%	6	0%	33%	per measure	4.5	8.2	4.6
990	Misc	Pool Pump w/ Variable Frequency Drive	Biz-BSS	BSS	ROB	6,988	25%	1,747	0.24	0.26	10	$246	100%	124%	6	0%	33%	per measure	4.5	3.6	5.2
991	Misc	Pool Pump Timer	Biz-Custom	Education	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	0%	33%	per measure	3.8	5.3	4.1

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
992	Misc	Pool Pump Timer	Biz-Custom	Food Sales	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	5%	33%	per measure	3.8	5.3	4.1
993	Misc	Pool Pump Timer	Biz-Custom	Health	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	5%	33%	per measure	3.8	5.3	4.1
994	Misc	Pool Pump Timer	Biz-Custom	Lodging	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	5%	33%	per measure	3.8	5.3	4.1
995	Misc	Pool Pump Timer	Biz-Custom	Office	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	0%	33%	per measure	3.8	5.3	4.1
996	Misc	Pool Pump Timer	Biz-Custom	Food Service	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	0%	33%	per measure	3.8	5.3	4.1
997	Misc	Pool Pump Timer	Biz-Custom	Retail	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	5%	33%	per measure	3.8	5.3	4.1
998	Misc	Pool Pump Timer	Biz-Custom	Warehouse	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	5%	33%	per measure	3.8	5.3	4.1
999	Misc	Pool Pump Timer	Biz-Custom	Assembly	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	0%	33%	per measure	3.8	5.3	4.1
1000	Misc	Pool Pump Timer	Biz-Custom	Other	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	0%	33%	per measure	3.8	5.3	4.1
1001	Misc	Pool Pump Timer	Biz-Custom	BSS	ROB	6,988	9%	601	0.08	0.09	10	$100	100%	72%	7	0%	33%	per measure	3.8	5.3	4.1
1002	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Education	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	34%	40%	per measure	1.0	4.0	1.2
1003	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Sales	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	41%	40%	per measure	1.0	4.0	1.2
1004	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Health	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	31%	40%	per measure	1.0	4.0	1.2
1005	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Lodging	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	34%	40%	per measure	1.0	4.0	1.2
1006	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Office	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	32%	40%	per measure	1.0	4.0	1.2
1007	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Service	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	43%	40%	per measure	1.0	4.0	1.2
1008	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Retail	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	33%	40%	per measure	1.0	4.0	1.2
1009	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Warehouse	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	32%	40%	per measure	1.0	4.0	1.2
1010	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Assembly	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	35%	40%	per measure	1.0	4.0	1.2
1011	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Other	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	32%	40%	per measure	1.0	4.0	1.2
1012	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	BSS	RET	1,086	10%	109	0.01	0.02	7	$50	100%	26%	1	34%	40%	per measure	1.0	4.0	1.2
1013	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Education	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	34%	40%	per measure	1.3	4.4	1.4
1014	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Sales	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	41%	40%	per measure	1.3	4.4	1.4
1015	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Health	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	31%	40%	per measure	1.3	4.4	1.4
1016	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Lodging	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	34%	40%	per measure	1.3	4.4	1.4
1017	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Office	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	32%	40%	per measure	1.3	4.4	1.4
1018	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Service	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	43%	40%	per measure	1.3	4.4	1.4
1019	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Retail	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	33%	40%	per measure	1.3	4.4	1.4
1020	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Warehouse	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	32%	40%	per measure	1.3	4.4	1.4
1021	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Assembly	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	35%	40%	per measure	1.3	4.4	1.4
1022	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Other	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	32%	40%	per measure	1.3	4.4	1.4
1023	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	BSS	RET	1,126	15%	169	0.02	0.03	8	$70	100%	29%	1	34%	40%	per measure	1.3	4.4	1.4
1024	Plug_Office	Energy Star Server	Biz-Custom	Education	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	29%	40%	per server	1.3	4.8	1.4
1025	Plug_Office	Energy Star Server	Biz-Custom	Food Sales	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	16%	40%	per server	1.3	4.8	1.4
1026	Plug_Office	Energy Star Server	Biz-Custom	Health	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	33%	40%	per server	1.3	4.8	1.4
1027	Plug_Office	Energy Star Server	Biz-Custom	Lodging	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	28%	40%	per server	1.3	4.8	1.4
1028	Plug_Office	Energy Star Server	Biz-Custom	Office	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	31%	40%	per server	1.3	4.8	1.4
1029	Plug_Office	Energy Star Server	Biz-Custom	Food Service	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	12%	40%	per server	1.3	4.8	1.4
1030	Plug_Office	Energy Star Server	Biz-Custom	Retail	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	30%	40%	per server	1.3	4.8	1.4
1031	Plug_Office	Energy Star Server	Biz-Custom	Warehouse	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	31%	40%	per server	1.3	4.8	1.4
1032	Plug_Office	Energy Star Server	Biz-Custom	Assembly	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	26%	40%	per server	1.3	4.8	1.4
1033	Plug_Office	Energy Star Server	Biz-Custom	Other	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	35%	40%	per server	1.3	4.8	1.4
1034	Plug_Office	Energy Star Server	Biz-Custom	BSS	RET	2,167	30%	650	0.09	0.10	9	$301	100%	26%	2	28%	40%	per server	1.3	4.8	1.4
1035	Plug_Office	Server Virtualization	Biz-Custom	Education	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	29%	40%	per server	6.5	7.2	6.7
1036	Plug_Office	Server Virtualization	Biz-Custom	Food Sales	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	16%	40%	per server	6.5	7.2	6.7
1037	Plug_Office	Server Virtualization	Biz-Custom	Health	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	33%	40%	per server	6.5	7.2	6.7
1038	Plug_Office	Server Virtualization	Biz-Custom	Lodging	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	28%	40%	per server	6.5	7.2	6.7
1039	Plug_Office	Server Virtualization	Biz-Custom	Office	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	31%	40%	per server	6.5	7.2	6.7
1040	Plug_Office	Server Virtualization	Biz-Custom	Food Service	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	12%	40%	per server	6.5	7.2	6.7
1041	Plug_Office	Server Virtualization	Biz-Custom	Retail	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	30%	40%	per server	6.5	7.2	6.7
1042	Plug_Office	Server Virtualization	Biz-Custom	Warehouse	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	31%	40%	per server	6.5	7.2	6.7
1043	Plug_Office	Server Virtualization	Biz-Custom	Assembly	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	26%	40%	per server	6.5	7.2	6.7
1044	Plug_Office	Server Virtualization	Biz-Custom	Other	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	35%	40%	per server	6.5	7.2	6.7
1045	Plug_Office	Server Virtualization	Biz-Custom	BSS	RET	2,167	14%	301	0.04	0.05	9	$27	100%	90%	2	28%	40%	per server	6.5	7.2	6.7
1046	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Education	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	29%	40%	per unit	27.4	30.4	26.5
1047	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Sales	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	16%	40%	per unit	27.4	30.4	26.5
1048	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Health	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	33%	40%	per unit	27.4	30.4	26.5
1049	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Lodging	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	28%	40%	per unit	27.4	30.4	26.5
1050	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Office	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	31%	40%	per unit	27.4	30.4	26.5
1051	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Service	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	12%	40%	per unit	27.4	30.4	26.5
1052	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Retail	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	30%	40%	per unit	27.4	30.4	26.5
1053	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Warehouse	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	31%	40%	per unit	27.4	30.4	26.5
1054	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Assembly	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	26%	40%	per unit	27.4	30.4	26.5
1055	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Other	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	35%	40%	per unit	27.4	30.4	26.5
1056	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	BSS	RET	86,783	18%	15,778	2.10	2.46	15	$480	100%	90%	3	28%	40%	per unit	27.4	30.4	26.5
1057	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Education	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	29%	40%	per ton	2.9	6.9	3.1

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1058	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Sales	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	16%	40%	per ton	2.9	6.9	3.1
1059	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Health	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	33%	40%	per ton	2.9	6.9	3.1
1060	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Lodging	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	28%	40%	per ton	2.9	6.9	3.1
1061	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Office	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	31%	40%	per ton	2.9	6.9	3.1
1062	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Service	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	12%	40%	per ton	2.9	6.9	3.1
1063	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Retail	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	30%	40%	per ton	2.9	6.9	3.1
1064	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Warehouse	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	31%	40%	per ton	2.9	6.9	3.1
1065	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Assembly	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	26%	40%	per ton	2.9	6.9	3.1
1066	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Other	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	35%	40%	per ton	2.9	6.9	3.1
1067	Plug_Office	High Efficiency CRAC unit	Biz-Custom	BSS	ROB	9,272	28%	2,596	0.34	0.41	15	$750	100%	42%	3	28%	40%	per ton	2.9	6.9	3.1
1068	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Education	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	29%	40%	mbtu/hr	3.6	6.9	3.9
1069	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Sales	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	16%	40%	mbtu/hr	3.6	6.9	3.9
1070	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Health	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	33%	40%	mbtu/hr	3.6	6.9	3.9
1071	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Lodging	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	28%	40%	mbtu/hr	3.6	6.9	3.9
1072	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Office	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	31%	40%	mbtu/hr	3.6	6.9	3.9
1073	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Service	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	12%	40%	mbtu/hr	3.6	6.9	3.9
1074	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Retail	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	30%	40%	mbtu/hr	3.6	6.9	3.9
1075	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Warehouse	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	31%	40%	mbtu/hr	3.6	6.9	3.9
1076	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Assembly	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	26%	40%	mbtu/hr	3.6	6.9	3.9
1077	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Other	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	35%	40%	mbtu/hr	3.6	6.9	3.9
1078	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	BSS	RET	764	47%	358	0.05	0.06	15	$82	100%	52%	4	28%	40%	mbtu/hr	3.6	6.9	3.9
1079	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Education	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	29%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1080	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Sales	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	16%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1081	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Health	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	33%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1082	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Lodging	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	28%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1083	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Office	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	31%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1084	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Service	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	12%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1085	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Retail	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	30%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1086	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Warehouse	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	31%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1087	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Assembly	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	26%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1088	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Other	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	35%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1089	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	BSS	RET	13	8%	1	0.00	0.00	10	$0	100%	53%	5	28%	40%	per DC w/ H/C aisle	2.8	5.2	3.0
1090	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Education	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	21%	30%	er sq. ft of door openir	0.0	0.0	0.0
1091	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Sales	RET	3,377	50%	1,688	0.22	0.22	4	$215	100%	90%	1	2%	30%	Per door	2.3	2.5	2.8
1092	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Health	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	16%	30%	er sq. ft of door openir	0.0	0.0	0.0
1093	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Lodging	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	20%	30%	er sq. ft of door openir	0.0	0.0	0.0
1094	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Office	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	11%	30%	er sq. ft of door openir	0.0	0.0	0.0
1095	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Service	RET	603	50%	301	0.04	0.04	4	$215	100%	17%	1	19%	30%	Per door	0.4	2.4	0.5
1096	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Retail	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	14%	30%	er sq. ft of door openir	0.0	0.0	0.0
1097	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Warehouse	RET	24,816	50%	12,408	1.63	1.62	4	$1,226	100%	90%	1	16%	30%	Per door	2.9	3.2	3.3
1098	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Assembly	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	9%	30%	er sq. ft of door openir	0.0	0.0	0.0
1099	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Other	RET	4,875	50%	2,437	0.32	0.32	4	$468	100%	63%	1	11%	30%	Per door	1.5	2.4	1.9
1100	Refrigeration	Strip Curtains, Cooler	Biz-Custom	BSS	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	1	9%	30%	er sq. ft of door openir	0.0	0.0	0.0
1101	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Education	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	21%	30%	Per door	1.5	3.8	1.7
1102	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Sales	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	2%	30%	Per door	1.5	3.8	1.7
1103	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Health	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	16%	30%	Per door	1.5	3.8	1.7
1104	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Lodging	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	20%	30%	Per door	1.5	3.8	1.7
1105	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Office	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	11%	30%	Per door	1.5	3.8	1.7
1106	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Service	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	19%	30%	Per door	1.5	3.8	1.7
1107	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Retail	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	14%	30%	Per door	1.5	3.8	1.7
1108	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Warehouse	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	16%	30%	Per door	1.5	3.8	1.7
1109	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Assembly	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	9%	30%	Per door	1.5	3.8	1.7
1110	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Other	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	11%	30%	Per door	1.5	3.8	1.7
1111	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	BSS	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	1	9%	30%	Per door	1.5	3.8	1.7
1112	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Education	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	14%	30%	er sq. ft of door openir	0.0	0.0	0.0
1113	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Sales	RET	13,919	50%	6,959	0.91	0.91	4	$215	100%	90%	2	1%	30%	Per door	9.4	10.4	8.5
1114	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Health	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	13%	30%	er sq. ft of door openir	0.0	0.0	0.0
1115	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Lodging	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	10%	30%	er sq. ft of door openir	0.0	0.0	0.0
1116	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Office	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	6%	30%	er sq. ft of door openir	0.0	0.0	0.0
1117	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Service	RET	3,074	50%	1,537	0.20	0.20	4	$215	100%	86%	2	15%	30%	Per door	2.1	2.4	2.5
1118	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Retail	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	8%	30%	er sq. ft of door openir	0.0	0.0	0.0
1119	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Warehouse	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	16%	30%	er sq. ft of door openir	0.0	0.0	0.0
1120	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Assembly	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	5%	30%	er sq. ft of door openir	0.0	0.0	0.0
1121	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Other	RET	5,967	50%	2,983	0.39	0.39	4	$215	100%	90%	2	8%	30%	Per door	4.0	4.5	4.2
1122	Refrigeration	Strip Curtains, Freezer	Biz-Custom	BSS	RET	0	50%	0	0.00	0.00	4	$10	100%	0%	2	5%	30%	er sq. ft of door openir	0.0	0.0	0.0
1123	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Education	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	14%	30%	Per door	1.5	3.8	1.7

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1124	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Sales	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	1%	30%	Per door	1.5	3.8	1.7
1125	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Health	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	13%	30%	Per door	1.5	3.8	1.7
1126	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Lodging	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	10%	30%	Per door	1.5	3.8	1.7
1127	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Office	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	6%	30%	Per door	1.5	3.8	1.7
1128	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Service	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	15%	30%	Per door	1.5	3.8	1.7
1129	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Retail	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	8%	30%	Per door	1.5	3.8	1.7
1130	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Warehouse	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	16%	30%	Per door	1.5	3.8	1.7
1131	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Assembly	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	5%	30%	Per door	1.5	3.8	1.7
1132	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Other	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	8%	30%	Per door	1.5	3.8	1.7
1133	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	BSS	RET	1,676,743	0%	1,576	0.21	0.21	7	$478	100%	40%	2	5%	30%	Per door	1.5	3.8	1.7
1134	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	34%	60%	Per motor	3.7	6.7	4.1
1135	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	3%	60%	Per motor	3.7	6.7	4.1
1136	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	33%	60%	Per motor	3.7	6.7	4.1
1137	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	30%	60%	Per motor	3.7	6.7	4.1
1138	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	17%	60%	Per motor	3.7	6.7	4.1
1139	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	33%	60%	Per motor	3.7	6.7	4.1
1140	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	22%	60%	Per motor	3.7	6.7	4.1
1141	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	33%	60%	Per motor	3.7	6.7	4.1
1142	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	14%	60%	Per motor	3.7	6.7	4.1
1143	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	19%	60%	Per motor	3.7	6.7	4.1
1144	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	3,172	50%	1,586	0.21	0.21	15	$347	100%	55%	3	15%	60%	Per motor	3.7	6.7	4.1
1145	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	34%	60%	Per motor	6.1	6.7	6.5
1146	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	3%	60%	Per motor	6.1	6.7	6.5
1147	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	29%	60%	Per motor	6.1	6.7	6.5
1148	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	30%	60%	Per motor	6.1	6.7	6.5
1149	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	17%	60%	Per motor	6.1	6.7	6.5
1150	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	33%	60%	Per motor	6.1	6.7	6.5
1151	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	22%	60%	Per motor	6.1	6.7	6.5
1152	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	33%	60%	Per motor	6.1	6.7	6.5
1153	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	14%	60%	Per motor	6.1	6.7	6.5
1154	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	19%	60%	Per motor	6.1	6.7	6.5
1155	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	3,172	35%	1,098	0.14	0.14	10	$110	100%	90%	3	15%	60%	Per motor	6.1	6.7	6.5
1156	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Education	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	34%	30%	Per motor controlled	1.3	6.1	1.5
1157	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Sales	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	3%	30%	Per motor controlled	1.3	6.1	1.5
1158	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Health	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	29%	30%	Per motor controlled	1.3	6.1	1.5
1159	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Lodging	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	30%	30%	Per motor controlled	1.3	6.1	1.5
1160	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Office	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	17%	30%	Per motor controlled	1.3	6.1	1.5
1161	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Service	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	33%	30%	Per motor controlled	1.3	6.1	1.5
1162	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Retail	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	22%	30%	Per motor controlled	1.3	6.1	1.5
1163	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Warehouse	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	33%	30%	Per motor controlled	1.3	6.1	1.5
1164	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Assembly	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	14%	30%	Per motor controlled	1.3	6.1	1.5
1165	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Other	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	19%	30%	Per motor controlled	1.3	6.1	1.5
1166	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	BSS	RET	1,586	18%	293	0.04	0.04	13	$162	100%	22%	4	15%	30%	Per motor controlled	1.3	6.1	1.5
1167	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Education	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	36%	30%	Per hp	0.5	6.7	0.5
1168	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Sales	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	98%	30%	Per hp	0.5	6.7	0.5
1169	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Health	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	33%	30%	Per hp	0.5	6.7	0.5
1170	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Lodging	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	33%	30%	Per hp	0.5	6.7	0.5
1171	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Office	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	38%	30%	Per hp	0.5	6.7	0.5
1172	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Service	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	45%	30%	Per hp	0.5	6.7	0.5
1173	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Retail	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	64%	30%	Per hp	0.5	6.7	0.5
1174	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Warehouse	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	36%	30%	Per hp	0.5	6.7	0.5
1175	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Assembly	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	17%	30%	Per hp	0.5	6.7	0.5
1176	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Other	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	22%	30%	Per hp	0.5	6.7	0.5
1177	Refrigeration	Floating Head Pressure Controls	Biz-Custom	BSS	RET	968	25%	242	0.03	0.03	15	$431	100%	7%	11	22%	30%	Per hp	0.5	6.7	0.5
1178	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Education	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1179	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Sales	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	4%	30%	Per door	3.1	7.1	3.4
1180	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Health	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1181	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Lodging	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1182	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Office	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1183	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Service	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1184	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Retail	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1185	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Warehouse	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1186	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Assembly	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1187	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Other	RET	1,344	50%	668	0.09	0.09	12	$150	100%	43%	5	0%	30%	Per door	3.1	7.1	3.4
1188	Refrigeration	Door Heater Controls for Cooler	Biz-BSS	BSS	RET	1,344	50%	668	0.09	0.09	12	$150	100%	99%	5	0%	30%	Per door	3.1	3.1	3.9
1189	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Education	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1190	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Sales	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	45%	30%	Per door	0.3	5.8	0.4
1191	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Health	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1192	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Lodging	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1193	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Office	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1194	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Service	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1195	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Retail	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1196	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Warehouse	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1197	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Assembly	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1198	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Other	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1199	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	BSS	RET	752	46%	343	0.05	0.04	12	$735	100%	6%	5	0%	30%	Per door	0.3	5.8	0.4
1200	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Education	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1201	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Sales	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	9%	30%	Per linear ft	0.8	6.7	0.9
1202	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Health	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1203	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Lodging	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1204	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Office	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1205	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Service	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1206	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Retail	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1207	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Warehouse	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1208	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Assembly	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1209	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Other	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1210	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	BSS	RET	1,511	25%	379	0.05	0.05	15	$390	100%	12%	6	0%	30%	Per linear ft	0.8	6.7	0.9
1211	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Education	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1212	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Sales	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	9%	30%	Per refrigerated case	8.9	9.9	9.2
1213	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Health	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1214	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Lodging	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1215	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Office	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1216	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Service	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1217	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Retail	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1218	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Warehouse	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1219	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Assembly	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1220	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Other	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1221	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	BSS	RET	44,544	10%	4,588	0.60	0.60	10	$312	100%	90%	6	0%	30%	Per refrigerated case	8.9	9.9	9.2
1222	Refrigeration	Night Covers for Coolers	Biz-Custom	Education	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1223	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Sales	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	9%	30%	Per linear foot of cove	1.1	2.9	1.3
1224	Refrigeration	Night Covers for Coolers	Biz-Custom	Health	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1225	Refrigeration	Night Covers for Coolers	Biz-Custom	Lodging	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1226	Refrigeration	Night Covers for Coolers	Biz-Custom	Office	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1227	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Service	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1228	Refrigeration	Night Covers for Coolers	Biz-Custom	Retail	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1229	Refrigeration	Night Covers for Coolers	Biz-Custom	Warehouse	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1230	Refrigeration	Night Covers for Coolers	Biz-Custom	Assembly	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1231	Refrigeration	Night Covers for Coolers	Biz-Custom	Other	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1232	Refrigeration	Night Covers for Coolers	Biz-Custom	BSS	ROB	1,511	9%	136	0.02	0.02	5	$42	100%	39%	6	0%	30%	Per linear foot of cove	1.1	2.9	1.3
1233	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Education	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1234	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Sales	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	5%	30%	Per door	3.6	5.9	4.0
1235	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Health	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1236	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Lodging	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1237	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Office	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1238	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Service	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1239	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Retail	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1240	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Warehouse	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	0%	30%	Per door	3.6	5.9	4.0
1241	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Assembly	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1242	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Other	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	60%	7	1%	30%	Per door	3.6	5.9	4.0
1243	Refrigeration	Door Heater Controls for Freezer	Biz-BSS	BSS	ROB	1,550	50%	771	0.10	0.10	12	$150	100%	136%	7	1%	30%	Per door	3.6	2.6	4.7
1244	Refrigeration	Night Covers for Freezers	Biz-Custom	Education	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1245	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Sales	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	5%	30%	Per linear foot of cove	1.8	2.9	2.1
1246	Refrigeration	Night Covers for Freezers	Biz-Custom	Health	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1247	Refrigeration	Night Covers for Freezers	Biz-Custom	Lodging	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1248	Refrigeration	Night Covers for Freezers	Biz-Custom	Office	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1249	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Service	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1250	Refrigeration	Night Covers for Freezers	Biz-Custom	Retail	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1251	Refrigeration	Night Covers for Freezers	Biz-Custom	Warehouse	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1252	Refrigeration	Night Covers for Freezers	Biz-Custom	Assembly	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1253	Refrigeration	Night Covers for Freezers	Biz-Custom	Other	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	3%	30%	Per linear foot of cove	1.8	2.9	2.1
1254	Refrigeration	Night Covers for Freezers	Biz-Custom	BSS	RET	2,349	9%	211	0.03	0.03	5	$42	100%	60%	8	0%	30%	Per linear foot of cove	1.8	2.9	2.1
1255	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Education	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	2%	30%	Per motor	6.2	6.8	6.8

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1256	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	95%	30%	Per motor	6.2	6.8	6.8
1257	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Health	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	4%	30%	Per motor	6.2	6.8	6.8
1258	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	2%	30%	Per motor	6.2	6.8	6.8
1259	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Office	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	21%	30%	Per motor	6.2	6.8	6.8
1260	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	11%	30%	Per motor	6.2	6.8	6.8
1261	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Retail	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	42%	30%	Per motor	6.2	6.8	6.8
1262	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	4%	30%	Per motor	6.2	6.8	6.8
1263	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	3%	30%	Per motor	6.2	6.8	6.8
1264	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Other	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	23%	30%	Per motor	6.2	6.8	6.8
1265	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	BSS	RET	3,172	50%	1,586	0.21	0.21	15	$208	100%	90%	10	8%	30%	Per motor	6.2	6.8	6.8
1266	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Education	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	2%	30%	Per motor	3.3	5.1	3.7
1267	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	95%	30%	Per motor	3.3	5.1	3.7
1268	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Health	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	4%	30%	Per motor	3.3	5.1	3.7
1269	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	2%	30%	Per motor	3.3	5.1	3.7
1270	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Office	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	21%	30%	Per motor	3.3	5.1	3.7
1271	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	11%	30%	Per motor	3.3	5.1	3.7
1272	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Retail	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	42%	30%	Per motor	3.3	5.1	3.7
1273	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	4%	30%	Per motor	3.3	5.1	3.7
1274	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	3%	30%	Per motor	3.3	5.1	3.7
1275	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Other	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	23%	30%	Per motor	3.3	5.1	3.7
1276	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	BSS	ROB	3,172	14%	443	0.06	0.06	10	$82	100%	65%	10	8%	30%	Per motor	3.3	5.1	3.7
1277	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Education	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	0%	30%	Per light	5.2	6.7	5.8
1278	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Sales	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	8%	30%	Per light	5.2	6.7	5.8
1279	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Health	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	0%	30%	Per light	5.2	6.7	5.8
1280	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Lodging	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	0%	30%	Per light	5.2	6.7	5.8
1281	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Office	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	2%	30%	Per light	5.2	6.7	5.8
1282	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Service	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	1%	30%	Per light	5.2	6.7	5.8
1283	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Retail	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	4%	30%	Per light	5.2	6.7	5.8
1284	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Warehouse	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	0%	30%	Per light	5.2	6.7	5.8
1285	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Assembly	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	0%	30%	Per light	5.2	6.7	5.8
1286	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Other	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	2%	30%	Per light	5.2	6.7	5.8
1287	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	BSS	ROB	96	74%	70	0.01	0.01	15	$11	100%	77%	9	1%	30%	Per light	5.2	6.7	5.8
1288	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Education	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	11%	50%	Per door	4.6	5.7	5.1
1289	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Sales	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	1%	50%	Per door	4.6	5.7	5.1
1290	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Health	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	15%	50%	Per door	4.6	5.7	5.1
1291	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Lodging	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	14%	50%	Per door	4.6	5.7	5.1
1292	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Office	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	13%	50%	Per door	4.6	5.7	5.1
1293	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Service	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	13%	50%	Per door	4.6	5.7	5.1
1294	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Retail	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	11%	50%	Per door	4.6	5.7	5.1
1295	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Warehouse	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	10%	50%	Per door	4.6	5.7	5.1
1296	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Assembly	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	16%	50%	Per door	4.6	5.7	5.1
1297	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Other	ROB	663	50%	330	0.04	0.04	12	$50	100%	80%	12	14%	50%	Per door	4.6	5.7	5.1
1298	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-BSS	BSS	ROB	663	50%	330	0.04	0.04	12	$50	100%	158%	12	15%	50%	Per door	4.6	2.9	5.9
1299	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Education	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	48%	50%	Per door	1.4	3.9	1.7
1300	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Sales	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	1%	50%	Per door	1.4	3.9	1.7
1301	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Health	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	46%	50%	Per door	1.4	3.9	1.7
1302	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Lodging	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	44%	50%	Per door	1.4	3.9	1.7
1303	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Office	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	36%	50%	Per door	1.4	3.9	1.7
1304	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Service	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	30%	50%	Per door	1.4	3.9	1.7
1305	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Retail	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	14%	50%	Per door	1.4	3.9	1.7
1306	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Warehouse	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	41%	50%	Per door	1.4	3.9	1.7
1307	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Assembly	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	56%	50%	Per door	1.4	3.9	1.7
1308	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Other	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	37%	13	24%	50%	Per door	1.4	3.9	1.7
1309	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-BSS	BSS	ROB	2,175	29%	623	0.08	0.08	12	$300	100%	100%	13	51%	50%	Per door	1.4	1.4	2.4
1310	Refrigeration	Commercial Ice Maker	Biz-Custom	Education	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	3%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1311	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Sales	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	0%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1312	Refrigeration	Commercial Ice Maker	Biz-Custom	Health	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	3%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1313	Refrigeration	Commercial Ice Maker	Biz-Custom	Lodging	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	5%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1314	Refrigeration	Commercial Ice Maker	Biz-Custom	Office	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	5%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1315	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Service	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	2%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1316	Refrigeration	Commercial Ice Maker	Biz-Custom	Retail	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	2%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1317	Refrigeration	Commercial Ice Maker	Biz-Custom	Warehouse	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	0%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1318	Refrigeration	Commercial Ice Maker	Biz-Custom	Assembly	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	4%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1319	Refrigeration	Commercial Ice Maker	Biz-Custom	Other	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	4%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1320	Refrigeration	Commercial Ice Maker	Biz-Custom	BSS	ROB	11,638	13%	1,515	0.20	0.20	9	$0	100%	90%	16	4%	50%	Per pound of ice	84,895.2	94,328.0	78,187.3
1321	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Education	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	3%	30%	Per cubic feet	0.0	5.8	0.0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1322	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Sales	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	0%	30%	Per cubic feet	0.0	5.8	0.0
1323	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Health	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	3%	30%	Per cubic feet	0.0	5.8	0.0
1324	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Lodging	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	5%	30%	Per cubic feet	0.0	5.8	0.0
1325	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Office	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	6%	30%	Per cubic feet	0.0	5.8	0.0
1326	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Service	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	0%	30%	Per cubic feet	0.0	5.8	0.0
1327	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Retail	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	3%	30%	Per cubic feet	0.0	5.8	0.0
1328	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Warehouse	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	16%	30%	Per cubic feet	0.0	5.8	0.0
1329	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Assembly	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	2%	30%	Per cubic feet	0.0	5.8	0.0
1330	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Other	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	5%	30%	Per cubic feet	0.0	5.8	0.0
1331	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	BSS	ROB	3	8%	0	0.00	0.00	12	$125	100%	0%	17	3%	30%	Per cubic feet	0.0	5.8	0.0
1332	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Education	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	3%	30%	Per machine	0.5	2.9	0.6
1333	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Sales	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	0%	30%	Per machine	0.5	2.9	0.6
1334	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Health	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	3%	30%	Per machine	0.5	2.9	0.6
1335	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Lodging	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	5%	30%	Per machine	0.5	2.9	0.6
1336	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Office	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	6%	30%	Per machine	0.5	2.9	0.6
1337	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Service	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	0%	30%	Per machine	0.5	2.9	0.6
1338	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Retail	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	3%	30%	Per machine	0.5	2.9	0.6
1339	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Warehouse	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	16%	30%	Per machine	0.5	2.9	0.6
1340	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Assembly	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	2%	30%	Per machine	0.5	2.9	0.6
1341	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Other	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	5%	30%	Per machine	0.5	2.9	0.6
1342	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	BSS	RET	1,478	25%	370	0.05	0.05	5	$245	100%	18%	17	3%	30%	Per machine	0.5	2.9	0.6
1343	Refrigeration	Refrigeration - Custom	Biz-Custom	Education	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	22%	30%	Per kWh	1.5	5.1	1.7
1344	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Sales	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	35%	30%	Per kWh	1.5	5.1	1.7
1345	Refrigeration	Refrigeration - Custom	Biz-Custom	Health	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	98%	30%	Per kWh	1.5	5.1	1.7
1346	Refrigeration	Refrigeration - Custom	Biz-Custom	Lodging	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	54%	30%	Per kWh	1.5	5.1	1.7
1347	Refrigeration	Refrigeration - Custom	Biz-Custom	Office	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	32%	30%	Per kWh	1.5	5.1	1.7
1348	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Service	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	33%	30%	Per kWh	1.5	5.1	1.7
1349	Refrigeration	Refrigeration - Custom	Biz-Custom	Retail	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	70%	30%	Per kWh	1.5	5.1	1.7
1350	Refrigeration	Refrigeration - Custom	Biz-Custom	Warehouse	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	40%	30%	Per kWh	1.5	5.1	1.7
1351	Refrigeration	Refrigeration - Custom	Biz-Custom	Assembly	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	34%	30%	Per kWh	1.5	5.1	1.7
1352	Refrigeration	Refrigeration - Custom	Biz-Custom	Other	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	53%	30%	Per kWh	1.5	5.1	1.7
1353	Refrigeration	Refrigeration - Custom	Biz-Custom	BSS	RET	7	15%	1	0.00	0.00	10	$0	100%	30%	15	33%	30%	Per kWh	1.5	5.1	1.7
1354	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Education	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	22%	30%	Per kWh	1.6	2.9	1.9
1355	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Sales	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	35%	30%	Per kWh	1.6	2.9	1.9
1356	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Health	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	98%	30%	Per kWh	1.6	2.9	1.9
1357	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Lodging	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	54%	30%	Per kWh	1.6	2.9	1.9
1358	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Office	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	32%	30%	Per kWh	1.6	2.9	1.9
1359	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Service	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	33%	30%	Per kWh	1.6	2.9	1.9
1360	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Retail	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	70%	30%	Per kWh	1.6	2.9	1.9
1361	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Warehouse	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	40%	30%	Per kWh	1.6	2.9	1.9
1362	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Assembly	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	34%	30%	Per kWh	1.6	2.9	1.9
1363	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Other	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	53%	30%	Per kWh	1.6	2.9	1.9
1364	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	BSS	RET	5	20%	1	0.00	0.00	5	$0	100%	55%	14	33%	30%	Per kWh	1.6	2.9	1.9
1365	Ventilation	Demand Controlled Ventilation	Biz-Standard	Education	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1366	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Sales	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1367	Ventilation	Demand Controlled Ventilation	Biz-Standard	Health	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1368	Ventilation	Demand Controlled Ventilation	Biz-Standard	Lodging	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1369	Ventilation	Demand Controlled Ventilation	Biz-Standard	Office	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1370	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Service	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1371	Ventilation	Demand Controlled Ventilation	Biz-Standard	Retail	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1372	Ventilation	Demand Controlled Ventilation	Biz-Standard	Warehouse	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1373	Ventilation	Demand Controlled Ventilation	Biz-Standard	Assembly	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1374	Ventilation	Demand Controlled Ventilation	Biz-Standard	Other	RET	6	20%	1	0.00	0.00	10	$0	100%	88%	5	100%	11%	Per Sq. Ft.	2.0	2.3	2.8
1375	Ventilation	Demand Controlled Ventilation	Biz-BSS	BSS	RET	6	20%	1	0.00	0.00	10	$0	100%	200%	5	100%	11%	Per Sq. Ft.	2.0	1.0	3.9
1376	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Education	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	22%	Per hp	2.1	3.8	2.6
1377	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Sales	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	34%	Per hp	2.1	3.8	2.6
1378	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Health	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	22%	Per hp	2.1	3.8	2.6
1379	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Lodging	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	22%	Per hp	2.1	3.8	2.6
1380	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Office	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	24%	Per hp	2.1	3.8	2.6
1381	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Service	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	34%	Per hp	2.1	3.8	2.6
1382	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Retail	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	21%	Per hp	2.1	3.8	2.6
1383	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Warehouse	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	60%	22%	Per hp	2.1	3.8	2.6
1384	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Assembly	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	22%	Per hp	2.1	3.8	2.6
1385	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Other	RET	2,166	43%	940	0.12	0.12	15	$360	100%	56%	1	75%	12%	Per hp	2.1	3.8	2.6
1386	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-BSS	BSS	RET	2,166	43%	940	0.12	0.12	15	$360	100%	126%	1	75%	22%	Per hp	2.1	1.7	3.3
1387	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Education	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1388	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Sales	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1389	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Health	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1390	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Lodging	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1391	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Office	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1392	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Service	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1393	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Retail	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1394	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Warehouse	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	20%	20%	Per fan	1.0	2.7	1.2
1395	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Assembly	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1396	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Other	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	35%	2	5%	20%	Per fan	1.0	2.7	1.2
1397	Ventilation	High Volume Low Speed Fan, 20	Biz-BSS	BSS	RET	7,917	83%	6,577	0.83	0.87	10	$4,150	100%	79%	2	5%	20%	Per fan	1.0	1.2	1.7
1398	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Education	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1399	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Sales	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1400	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Health	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1401	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Lodging	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1402	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Office	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1403	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Service	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1404	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Retail	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1405	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Warehouse	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	20%	20%	Per fan	1.2	2.8	1.6
1406	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Assembly	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1407	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Other	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	44%	2	5%	20%	Per fan	1.2	2.8	1.6
1408	Ventilation	High Volume Low Speed Fan, 22	Biz-BSS	BSS	RET	10,283	83%	8,543	1.07	1.13	10	$4,180	100%	100%	2	5%	20%	Per fan	1.2	1.2	2.2
1409	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Education	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1410	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Sales	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1411	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Health	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1412	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Lodging	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1413	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Office	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1414	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Service	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1415	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Retail	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1416	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Warehouse	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	20%	20%	Per fan	1.4	2.7	1.9
1417	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Assembly	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1418	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Other	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	52%	2	5%	20%	Per fan	1.4	2.7	1.9
1419	Ventilation	High Volume Low Speed Fan, 24	Biz-BSS	BSS	RET	12,058	83%	10,018	1.26	1.33	10	$4,225	100%	118%	2	5%	20%	Per fan	1.4	1.2	2.5
1420	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Education	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1421	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Sales	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1422	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Health	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1423	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Lodging	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1424	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Office	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1425	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Service	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1426	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Retail	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1427	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Warehouse	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1428	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Assembly	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1429	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Other	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	75%	4	20%	30%	Per HP	2.9	3.9	3.6
1430	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-BSS	BSS	RET	4,118	32%	1,302	0.16	0.17	15	$360	100%	158%	4	20%	30%	Per HP	2.9	1.8	4.4
1431	Ventilation	Cogged V-Belt	Biz-Custom	Education	RET	2,948	3%	91	0.01	0.01	4	$35	100%	75%	3	23%	20%	Per HP	0.7	1.0	1.4
1432	Ventilation	Cogged V-Belt	Biz-Custom	Food Sales	RET	6,264	3%	194	0.02	0.03	4	$35	100%	90%	3	23%	20%	Per HP	1.6	1.7	2.2
1433	Ventilation	Cogged V-Belt	Biz-Custom	Health	RET	4,250	3%	132	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.1	1.2	1.8
1434	Ventilation	Cogged V-Belt	Biz-Custom	Lodging	RET	4,066	3%	126	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.0	1.1	1.7
1435	Ventilation	Cogged V-Belt	Biz-Custom	Office	RET	2,613	3%	81	0.01	0.01	4	$35	100%	66%	3	23%	20%	Per HP	0.7	1.0	1.2
1436	Ventilation	Cogged V-Belt	Biz-Custom	Food Service	RET	5,354	3%	166	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.3	1.5	2.0
1437	Ventilation	Cogged V-Belt	Biz-Custom	Retail	RET	5,160	3%	160	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.3	1.4	2.0
1438	Ventilation	Cogged V-Belt	Biz-Custom	Warehouse	RET	5,009	3%	155	0.02	0.02	4	$35	100%	90%	3	18%	20%	Per HP	1.3	1.4	1.9
1439	Ventilation	Cogged V-Belt	Biz-Custom	Assembly	RET	5,305	3%	164	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.3	1.5	2.0
1440	Ventilation	Cogged V-Belt	Biz-Custom	Other	RET	4,576	3%	142	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.1	1.3	1.8
1441	Ventilation	Cogged V-Belt	Biz-Custom	BSS	RET	4,555	3%	141	0.02	0.02	4	$35	100%	90%	3	23%	20%	Per HP	1.1	1.3	1.8
1442	Ventilation	Switch Reluctance Motors	Biz-Custom	Education	RET	8,962	57%	5,150	0.65	0.68	12	$2,214	100%	67%	3	23%	20%	Per motor	1.6	2.4	2.2
1443	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Sales	RET	19,045	57%	10,944	1.38	1.45	12	$2,214	100%	90%	3	23%	20%	Per motor	3.4	3.8	4.1
1444	Ventilation	Switch Reluctance Motors	Biz-Custom	Health	RET	9,617	57%	5,527	0.69	0.73	12	$2,214	100%	72%	3	23%	20%	Per motor	1.7	2.4	2.4
1445	Ventilation	Switch Reluctance Motors	Biz-Custom	Lodging	RET	12,364	57%	7,105	0.89	0.94	12	$2,214	100%	90%	3	23%	20%	Per motor	2.2	2.4	3.0
1446	Ventilation	Switch Reluctance Motors	Biz-Custom	Office	RET	10,907	57%	6,268	0.79	0.83	12	$2,214	100%	82%	3	23%	20%	Per motor	1.9	2.4	2.7
1447	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Service	RET	16,278	57%	9,355	1.18	1.24	12	$2,214	100%	90%	3	23%	20%	Per motor	2.9	3.2	3.7
1448	Ventilation	Switch Reluctance Motors	Biz-Custom	Retail	RET	15,690	57%	9,016	1.13	1.19	12	$2,214	100%	90%	3	23%	20%	Per motor	2.8	3.1	3.6
1449	Ventilation	Switch Reluctance Motors	Biz-Custom	Warehouse	RET	15,231	57%	8,752	1.10	1.16	12	$2,214	100%	90%	3	18%	20%	Per motor	2.7	3.0	3.5
1450	Ventilation	Switch Reluctance Motors	Biz-Custom	Assembly	RET	16,129	57%	9,269	1.17	1.23	12	$2,214	100%	90%	3	23%	20%	Per motor	2.9	3.2	3.7
1451	Ventilation	Switch Reluctance Motors	Biz-Custom	Other	RET	13,913	57%	7,995	1.01	1.06	12	$2,214	100%	90%	3	23%	20%	Per motor	2.5	2.8	3.3
1452	Ventilation	Switch Reluctance Motors	Biz-Custom	BSS	RET	13,814	57%	7,938	1.00	1.05	12	$2,214	100%	90%	3	23%	20%	Per motor	2.5	2.7	3.3
1453	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Education	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1454	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Sales	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1455	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Health	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1456	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Lodging	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1457	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Office	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1458	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Service	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1459	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Retail	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1460	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Warehouse	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1461	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Assembly	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1462	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Other	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1463	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	BSS	RET	7	15%	1	0.00	0.00	5	$0	100%	90%	5	80%	30%	Per each	4.9	5.5	3.4
1464	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Education	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1465	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Sales	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1466	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Health	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1467	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Lodging	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1468	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Office	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1469	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Service	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1470	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Retail	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1471	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Warehouse	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1472	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Assembly	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1473	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Other	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1474	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	BSS	RET	13	8%	1	0.00	0.00	15	$0	100%	73%	3	80%	30%	Per unit	3.8	5.2	2.7
1475	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Education	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1476	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Sales	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1477	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Health	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1478	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Lodging	RET	738	40%	295	0.16	0.06	15	$65	100%	90%	4	80%	30%	Per ton	6.8	7.6	4.4
1479	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Office	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1480	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Service	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1481	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Retail	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1482	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Warehouse	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1483	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Assembly	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1484	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Other	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1485	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	BSS	RET	0	0%	0	0.00	0.00	15	$65	100%	0%	4	80%	30%	Per ton	0.0	0.0	0.0
1486	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Education	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	100%	30%	Per lb/hour	1.1	6.3	0.8
1487	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Sales	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	41%	30%	Per lb/hour	1.1	6.3	0.8
1488	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Health	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	100%	30%	Per lb/hour	1.1	6.3	0.8
1489	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Lodging	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	74%	30%	Per lb/hour	1.1	6.3	0.8
1490	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Office	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	88%	30%	Per lb/hour	1.1	6.3	0.8
1491	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Service	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	44%	30%	Per lb/hour	1.1	6.3	0.8
1492	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Retail	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	65%	30%	Per lb/hour	1.1	6.3	0.8
1493	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Warehouse	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	53%	30%	Per lb/hour	1.1	6.3	0.8
1494	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Assembly	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	79%	30%	Per lb/hour	1.1	6.3	0.8
1495	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Other	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	100%	30%	Per lb/hour	1.1	6.3	0.8
1496	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	BSS	RET	326	35%	113	0.06	0.02	20	$183	100%	18%	2	81%	30%	Per lb/hour	1.1	6.3	0.8
1497	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Education	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1498	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Sales	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1499	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Health	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1500	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Lodging	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1501	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Office	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1502	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Service	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1503	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Retail	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1504	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Warehouse	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1505	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Assembly	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1506	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Other	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1507	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	BSS	RET	154	24%	37	0.02	0.01	10	$8	100%	90%	1	15%	30%	Per linear foot	5.1	5.6	3.5
1508	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Education	RET	5	20%	1	0.00	0.00	25	$0	100%	83%	7	15%	30%	per kWh	6.0	7.2	3.9
1509	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Sales	RET	5	20%	1	0.00	0.00	25	$1	100%	48%	7	15%	30%	per kWh	3.5	7.2	2.3
1510	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Health	RET	5	20%	1	0.00	0.00	25	$0	100%	90%	7	15%	30%	per kWh	23.2	25.7	12.8
1511	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Lodging	RET	5	20%	1	0.00	0.00	25	$0	100%	90%	7	15%	30%	per kWh	20.9	23.2	11.6
1512	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Office	RET	5	20%	1	0.00	0.00	25	$0	100%	90%	7	15%	30%	per kWh	9.5	10.5	5.8
1513	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Service	RET	5	20%	1	0.00	0.00	25	$0	100%	90%	7	15%	30%	per kWh	6.5	7.2	4.2
1514	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Retail	RET	5	20%	1	0.00	0.00	25	$1	100%	32%	7	15%	30%	per kWh	2.3	7.2	1.5
1515	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Warehouse	RET	5	20%	1	0.00	0.00	25	$2	100%	15%	7	15%	30%	per kWh	1.0	7.2	0.7
1516	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Assembly	RET	5	20%	1	0.00	0.00	25	$1	100%	42%	7	15%	30%	per kWh	3.0	7.2	2.0
1517	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Other	RET	5	20%	1	0.00	0.00	25	$2	100%	15%	7	15%	30%	per kWh	1.0	7.2	0.7
1518	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	BSS	RET	5	20%	1	0.00	0.00	25	$2	100%	15%	7	15%	30%	per kWh	1.0	7.2	0.7
1519	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Education	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1520	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Sales	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1521	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Health	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1522	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Lodging	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1523	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Office	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1524	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Service	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1525	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Retail	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1526	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Warehouse	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1527	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Assembly	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1528	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Other	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1529	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	BSS	RET	990	1%	6	0.00	0.00	30	$6	100%	26%	1	100%	20%	per kVA	2.0	7.9	1.3
1530	WholeBldg	WholeBlg - Com RET	Biz-Custom	Education	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1531	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Sales	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1532	WholeBldg	WholeBlg - Com RET	Biz-Custom	Health	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1533	WholeBldg	WholeBlg - Com RET	Biz-Custom	Lodging	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1534	WholeBldg	WholeBlg - Com RET	Biz-Custom	Office	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1535	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Service	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1536	WholeBldg	WholeBlg - Com RET	Biz-Custom	Retail	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1537	WholeBldg	WholeBlg - Com RET	Biz-Custom	Warehouse	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1538	WholeBldg	WholeBlg - Com RET	Biz-Custom	Assembly	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1539	WholeBldg	WholeBlg - Com RET	Biz-Custom	Other	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1540	WholeBldg	WholeBlg - Com RET	Biz-Custom	BSS	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	2	80%	20%	per kWh	3.8	5.2	2.7
1541	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Education	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1542	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Sales	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1543	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Health	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1544	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Lodging	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1545	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Office	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1546	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Service	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1547	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Retail	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1548	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Warehouse	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1549	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Assembly	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1550	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Other	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1551	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	BSS	RET	7	15%	1	0.00	0.00	15	$0	100%	73%	3	80%	20%	per kWh	3.8	5.2	2.7
1552	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Education	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1553	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Sales	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1554	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Health	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1555	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Lodging	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1556	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Office	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1557	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Service	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1558	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Retail	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1559	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Warehouse	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1560	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Assembly	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1561	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Other	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1562	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	BSS	NEW	4	25%	1	0.00	0.00	15	$0	100%	30%	1	100%	60%	per door	3.8	12.6	2.2
1563	WholeBldg	COM Competitions	Biz-Custom	Education	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1564	WholeBldg	COM Competitions	Biz-Custom	Food Sales	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1565	WholeBldg	COM Competitions	Biz-Custom	Health	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1566	WholeBldg	COM Competitions	Biz-Custom	Lodging	RET	53	2%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1567	WholeBldg	COM Competitions	Biz-Custom	Office	RET	53	2%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1568	WholeBldg	COM Competitions	Biz-Custom	Food Service	RET	53	2%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1569	WholeBldg	COM Competitions	Biz-Custom	Retail	RET	53	2%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1570	WholeBldg	COM Competitions	Biz-Custom	Warehouse	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1571	WholeBldg	COM Competitions	Biz-Custom	Assembly	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1572	WholeBldg	COM Competitions	Biz-Custom	Other	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1573	WholeBldg	COM Competitions	Biz-Custom	BSS	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	5.5	6.1	3.7
1574	WholeBldg	Business Energy Reports	Biz-Custom	Education	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1575	WholeBldg	Business Energy Reports	Biz-Custom	Food Sales	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1576	WholeBldg	Business Energy Reports	Biz-Custom	Health	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1577	WholeBldg	Business Energy Reports	Biz-Custom	Lodging	RET	313	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1578	WholeBldg	Business Energy Reports	Biz-Custom	Office	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1579	WholeBldg	Business Energy Reports	Biz-Custom	Food Service	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1580	WholeBldg	Business Energy Reports	Biz-Custom	Retail	RET	313	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1581	WholeBldg	Business Energy Reports	Biz-Custom	Warehouse	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1582	WholeBldg	Business Energy Reports	Biz-Custom	Assembly	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1583	WholeBldg	Business Energy Reports	Biz-Custom	Other	RET	313	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1584	WholeBldg	Business Energy Reports	Biz-Custom	BSS	RET	313	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.1	1.3	1.5
1585	WholeBldg	Building Benchmarking	Biz-Custom	Education	RET	83	1%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1586	WholeBldg	Building Benchmarking	Biz-Custom	Food Sales	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1587	WholeBldg	Building Benchmarking	Biz-Custom	Health	RET	114	1%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1588	WholeBldg	Building Benchmarking	Biz-Custom	Lodging	RET	263	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1589	WholeBldg	Building Benchmarking	Biz-Custom	Office	RET	114	1%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1590	WholeBldg	Building Benchmarking	Biz-Custom	Food Service	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1591	WholeBldg	Building Benchmarking	Biz-Custom	Retail	RET	97	1%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1592	WholeBldg	Building Benchmarking	Biz-Custom	Warehouse	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1593	WholeBldg	Building Benchmarking	Biz-Custom	Assembly	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1594	WholeBldg	Building Benchmarking	Biz-Custom	Other	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1595	WholeBldg	Building Benchmarking	Biz-Custom	BSS	RET	0	0%	1	0.00	0.00	2	$0	100%	90%	4	100%	2%	per kWh	1.0	1.2	1.4
1596	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Education	RET	33	3%	1	0.00	0.00	5	$0	100%	90%	4	100%	22%	per kWh	2.2	2.4	2.0
1597	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Sales	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	8%	per kWh	2.2	2.4	2.0
1598	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Health	RET	33	3%	1	0.00	0.00	5	$0	100%	90%	4	100%	3%	per kWh	2.2	2.4	2.0
1599	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Lodging	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	2%	per kWh	2.2	2.4	2.0
1600	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Office	RET	33	3%	1	0.00	0.00	5	$0	100%	90%	4	100%	1%	per kWh	2.2	2.4	2.0
1601	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Service	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	8%	per kWh	2.2	2.4	2.0
1602	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Retail	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	4%	per kWh	2.2	2.4	2.0
1603	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Warehouse	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	3%	per kWh	2.2	2.4	2.0
1604	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Assembly	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	1%	per kWh	2.2	2.4	2.0
1605	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Other	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	1%	per kWh	2.2	2.4	2.0
1606	WholeBldg	Strategic Energy Management	Biz-Custom SEM	BSS	RET	0	0%	1	0.00	0.00	5	$0	100%	90%	4	100%	1%	per kWh	2.2	2.4	2.0
1607	WholeBldg	BEIMS	Biz-Custom	Education	RET	43	2%	1	0.00	0.00	2	$0	100%	66%	4	100%	22%	per kWh	0.5	0.8	0.9
1608	WholeBldg	BEIMS	Biz-Custom	Food Sales	RET	20	5%	1	0.00	0.00	2	$0	100%	66%	4	100%	8%	per kWh	0.5	0.8	0.9
1609	WholeBldg	BEIMS	Biz-Custom	Health	RET	50	2%	1	0.00	0.00	2	$0	100%	66%	4	100%	3%	per kWh	0.5	0.8	0.9
1610	WholeBldg	BEIMS	Biz-Custom	Lodging	RET	20	5%	1	0.00	0.00	2	$0	100%	66%	4	100%	2%	per kWh	0.5	0.8	0.9
1611	WholeBldg	BEIMS	Biz-Custom	Office	RET	29	4%	1	0.00	0.00	2	$0	100%	66%	4	100%	1%	per kWh	0.5	0.8	0.9
1612	WholeBldg	BEIMS	Biz-Custom	Food Service	RET	20	5%	1	0.00	0.00	2	$0	100%	66%	4	100%	8%	per kWh	0.5	0.8	0.9
1613	WholeBldg	BEIMS	Biz-Custom	Retail	RET	20	5%	1	0.00	0.00	2	$0	100%	66%	4	100%	4%	per kWh	0.5	0.8	0.9
1614	WholeBldg	BEIMS	Biz-Custom	Warehouse	RET	0	0%	1	0.00	0.00	2	$0	100%	66%	4	100%	3%	per kWh	0.5	0.8	0.9
1615	WholeBldg	BEIMS	Biz-Custom	Assembly	RET	0	0%	1	0.00	0.00	2	$0	100%	66%	4	100%	1%	per kWh	0.5	0.8	0.9
1616	WholeBldg	BEIMS	Biz-Custom	Other	RET	50	2%	1	0.00	0.00	2	$0	100%	66%	4	100%	1%	per kWh	0.5	0.8	0.9
1617	WholeBldg	BEIMS	Biz-Custom	BSS	RET	50	2%	1	0.00	0.00	2	$0	100%	66%	4	100%	1%	per kWh	0.5	0.8	0.9
1618	WholeBldg	Building Operator Certification	Biz-Custom	Education	RET	17,825	0%	45	0.02	0.01	3	$0	100%	90%	4	100%	22%	per 1000 sq ft	51.7	57.4	28.1
1619	WholeBldg	Building Operator Certification	Biz-Custom	Food Sales	RET	60,523	0%	151	0.08	0.03	3	$0	100%	90%	4	100%	8%	per 1000 sq ft	175.4	194.9	93.1
1620	WholeBldg	Building Operator Certification	Biz-Custom	Health	RET	27,632	0%	69	0.04	0.02	3	$0	100%	90%	4	100%	3%	per 1000 sq ft	80.1	89.0	43.0
1621	WholeBldg	Building Operator Certification	Biz-Custom	Lodging	RET	14,600	0%	37	0.02	0.01	3	$0	100%	90%	4	100%	2%	per 1000 sq ft	42.3	47.0	23.1
1622	WholeBldg	Building Operator Certification	Biz-Custom	Office	RET	20,140	0%	50	0.03	0.01	3	$0	100%	90%	4	100%	1%	per 1000 sq ft	58.4	64.8	31.6
1623	WholeBldg	Building Operator Certification	Biz-Custom	Food Service	RET	49,444	0%	124	0.07	0.03	3	$0	100%	90%	4	100%	8%	per 1000 sq ft	143.3	159.2	76.2
1624	WholeBldg	Building Operator Certification	Biz-Custom	Retail	RET	18,200	0%	46	0.02	0.01	3	$0	100%	90%	4	100%	4%	per 1000 sq ft	52.7	58.6	28.6
1625	WholeBldg	Building Operator Certification	Biz-Custom	Warehouse	RET	7,272	0%	18	0.01	0.00	3	$0	100%	90%	4	100%	3%	per 1000 sq ft	21.1	23.4	12.0
1626	WholeBldg	Building Operator Certification	Biz-Custom	Assembly	RET	0	0%	1	0.00	0.00	3	$0	100%	90%	4	100%	1%	per 1000 sq ft	1.2	1.3	1.5
1627	WholeBldg	Building Operator Certification	Biz-Custom	Other	RET	13,644	0%	34	0.02	0.01	3	$0	100%	90%	4	100%	1%	per 1000 sq ft	39.5	43.9	21.7
1628	WholeBldg	Building Operator Certification	Biz-Custom	BSS	RET	13,644	0%	34	0.02	0.01	3	$0	100%	90%	4	100%	1%	per 1000 sq ft	39.5	43.9	21.7
1629	Cooking	Advanced Cooking	Biz-Custom	Education	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1630	Cooking	Advanced Cooking	Biz-Custom	Food Sales	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1631	Cooking	Advanced Cooking	Biz-Custom	Health	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1632	Cooking	Advanced Cooking	Biz-Custom	Lodging	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1633	Cooking	Advanced Cooking	Biz-Custom	Office	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1634	Cooking	Advanced Cooking	Biz-Custom	Food Service	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1635	Cooking	Advanced Cooking	Biz-Custom	Retail	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1636	Cooking	Advanced Cooking	Biz-Custom	Warehouse	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1637	Cooking	Advanced Cooking	Biz-Custom	Assembly	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1638	Cooking	Advanced Cooking	Biz-Custom	Other	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1639	Cooking	Advanced Cooking	Biz-Custom	BSS	RET	250	0%	1	0.00	0.00	12	$14	100%	1%	7	100%	2%	per kWh	0.1	5.4	0.1
1640	Lighting_Int	Advanced Lighting	Biz-Custom	Education	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1641	Lighting_Int	Advanced Lighting	Biz-Custom	Food Sales	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1642	Lighting_Int	Advanced Lighting	Biz-Custom	Health	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1643	Lighting_Int	Advanced Lighting	Biz-Custom	Lodging	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1644	Lighting_Int	Advanced Lighting	Biz-Custom	Office	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1645	Lighting_Int	Advanced Lighting	Biz-Custom	Food Service	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1646	Lighting_Int	Advanced Lighting	Biz-Custom	Retail	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1647	Lighting_Int	Advanced Lighting	Biz-Custom	Warehouse	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1648	Lighting_Int	Advanced Lighting	Biz-Custom	Assembly	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1649	Lighting_Int	Advanced Lighting	Biz-Custom	Other	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1650	Lighting_Int	Advanced Lighting	Biz-Custom	BSS	RET	2	42%	1	0.00	0.00	15	$2	100%	5%	12	100%	2%	per kWh	0.4	7.4	0.4
1651	Plug_Office	Advanced IT	Biz-Custom	Education	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	29%	2%	per kWh	3.8	4.2	3.8

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Base (Standard) Annual Electric	% Elec Savings	Per Unit Elec Savings	Per Unit Summer kW	Per Unit Winter kW	EE EUL	Measure Cost	MAP Incentive (%)	RAP Incentive (%)	End Use Measure Group	Base Saturation	EE Saturation	Unit Descriptor	TRC Score	UCT Score	Participant Test Score
1652	Plug_Office	Advanced IT	Biz-Custom	Food Sales	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	16%	2%	per kWh	3.8	4.2	3.8
1653	Plug_Office	Advanced IT	Biz-Custom	Health	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	33%	2%	per kWh	3.8	4.2	3.8
1654	Plug_Office	Advanced IT	Biz-Custom	Lodging	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	28%	2%	per kWh	3.8	4.2	3.8
1655	Plug_Office	Advanced IT	Biz-Custom	Office	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	31%	2%	per kWh	3.8	4.2	3.8
1656	Plug_Office	Advanced IT	Biz-Custom	Food Service	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	12%	2%	per kWh	3.8	4.2	3.8
1657	Plug_Office	Advanced IT	Biz-Custom	Retail	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	30%	2%	per kWh	3.8	4.2	3.8
1658	Plug_Office	Advanced IT	Biz-Custom	Warehouse	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	31%	2%	per kWh	3.8	4.2	3.8
1659	Plug_Office	Advanced IT	Biz-Custom	Assembly	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	26%	2%	per kWh	3.8	4.2	3.8
1660	Plug_Office	Advanced IT	Biz-Custom	Other	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	35%	2%	per kWh	3.8	4.2	3.8
1661	Plug_Office	Advanced IT	Biz-Custom	BSS	RET	5	20%	1	0.00	0.00	4	$0	100%	90%	6	28%	2%	per kWh	3.8	4.2	3.8
1662	Refrigeration	Advanced Refrigeration	Biz-Custom	Education	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	11%	2%	per kWh	0.0	8.1	0.0
1663	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Sales	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	1%	2%	per kWh	0.0	8.1	0.0
1664	Refrigeration	Advanced Refrigeration	Biz-Custom	Health	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	15%	2%	per kWh	0.0	8.1	0.0
1665	Refrigeration	Advanced Refrigeration	Biz-Custom	Lodging	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	14%	2%	per kWh	0.0	8.1	0.0
1666	Refrigeration	Advanced Refrigeration	Biz-Custom	Office	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	13%	2%	per kWh	0.0	8.1	0.0
1667	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Service	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	13%	2%	per kWh	0.0	8.1	0.0
1668	Refrigeration	Advanced Refrigeration	Biz-Custom	Retail	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	11%	2%	per kWh	0.0	8.1	0.0
1669	Refrigeration	Advanced Refrigeration	Biz-Custom	Warehouse	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	10%	2%	per kWh	0.0	8.1	0.0
1670	Refrigeration	Advanced Refrigeration	Biz-Custom	Assembly	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	16%	2%	per kWh	0.0	8.1	0.0
1671	Refrigeration	Advanced Refrigeration	Biz-Custom	Other	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	14%	2%	per kWh	0.0	8.1	0.0
1672	Refrigeration	Advanced Refrigeration	Biz-Custom	BSS	RET	8	13%	1	0.00	0.00	20	$34	100%	0%	18	15%	2%	per kWh	0.0	8.1	0.0
1673	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Education	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1674	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Sales	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1675	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Health	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1676	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Lodging	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1677	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Office	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1678	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Service	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1679	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Retail	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1680	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Warehouse	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1681	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Assembly	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1682	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Other	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1683	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	BSS	RET	8	12%	1	0.00	0.00	15	$1	100%	58%	8	100%	2%	per kWh	3.0	5.2	2.1
1684	Water_WW	Water Supply & Wastewater treatment pumps and process efficiency	Biz-Custom	Industrial	RET	5	20%	1	0.00	0.00	11	$0	100%	27%	1	100%	25%	per kWh	1.5	5.6	1.6
1685	Compressed Air	Efficient Air Compressor Equipment	Biz-Custom	Industrial	ROB	9	11%	1	0.00	0.00	13	$0	100%	32%	1	100%	25%	per kWh	1.9	5.8	2.0
1686	Compressed Air	Efficient Air Compressor Controls	Biz-Custom	Industrial	RET	15	7%	1	0.00	0.00	3	$0	100%	90%	2	100%	25%	per kWh	1.8	2.1	2.4
1687	HVAC	Efficient HVAC Equipment	Biz-Custom	Industrial	ROB	8	13%	1	0.00	0.00	15	$0	100%	90%	1	100%	25%	per kWh	7.9	8.8	5.0
1688	HVAC	Efficient HVAC O&M	Biz-Custom	Industrial	RET	33	3%	1	0.00	0.00	3	$0	100%	90%	2	100%	25%	per kWh	3.4	3.7	2.7
1689	Lighting_Int	Efficient Lighting Equipment	Biz-Standard	Industrial	RET	2	50%	1	0.00	0.00	15	$0	100%	71%	1	100%	65%	per kWh	5.2	7.4	5.3
1690	Lighting_Int	Efficient Lighting O&M	Biz-Custom	Industrial	RET	33	3%	1	0.00	0.00	3	$0	100%	90%	2	100%	25%	per kWh	3.4	3.7	3.4
1691	Motors	Efficient MachDr Equipment	Biz-Custom	Industrial	ROB	5	20%	1	0.00	0.00	15	$0	100%	71%	1	100%	25%	per kWh	8.9	12.6	5.3
1692	Motors	Efficient MachDr O&M	Biz-Custom	Industrial	RET	33	3%	1	0.00	0.00	3	$0	100%	90%	2	100%	25%	per kWh	3.4	3.7	2.7
1693	Process Heat	Efficient ProcHeat Equipment	Biz-Custom	Industrial	ROB	10	10%	1	0.00	0.00	15	$0	100%	71%	1	100%	25%	per kWh	8.9	12.6	5.3
1694	Process Heat	Efficient ProcHeat O&M	Biz-Custom	Industrial	RET	33	3%	1	0.00	0.00	3	$0	100%	90%	2	100%	25%	per kWh	4.2	4.7	3.1
1695	Process Refrig	Efficient ProcRefrig Equipment	Biz-Custom	Industrial	ROB	6	17%	1	0.00	0.00	15	$0	100%	67%	1	100%	25%	per kWh	8.4	12.6	5.0
1696	Process Refrig	Efficient ProcRefrig O&M	Biz-Custom	Industrial	RET	33	3%	1	0.00	0.00	3	$0	100%	90%	2	100%	25%	per kWh	3.1	3.4	2.5
1697	Process Other	Efficient Other Facility Process Equipment	Biz-Custom	Industrial	ROB	4	25%	1	0.00	0.00	11	$0	100%	34%	1	100%	25%	per kWh	3.4	9.9	2.1
1698	Process Other	Efficient Other Facility Process O&M	Biz-Custom	Industrial	RET	14	7%	1	0.00	0.00	11	$0	100%	40%	2	100%	25%	per kWh	4.0	9.9	2.4
1699	WholeBldg	Power Distribution (Transformers)	Biz-Custom	Industrial	RET	179	1%	1	0.00	0.00	30	$1	100%	25%	1	100%	25%	per kWh	2.0	7.9	1.2
1700	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Industrial	RET	33	3%	1	0.00	0.00	5	$0	100%	90%	2	100%	5%	per kWh	6.6	7.3	4.2

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Education	ROB	2,301	3,017	3,883	4,890	6,010	7,192	8,374	9,493	10,501	11,367	12,082	12,654	12,408	12,532	12,527	12,413	12,077	11,723	11,368	11,032
2	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Sales	ROB	492	645	831	1,046	1,286	1,539	1,792	2,031	2,247	2,432	2,585	2,707	2,655	2,681	2,680	2,656	2,584	2,508	2,432	2,360
3	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Service	ROB	5,142	6,740	8,675	10,927	13,428	16,069	18,709	21,211	23,462	25,398	26,996	28,272	27,723	28,001	27,989	27,734	26,984	26,192	25,400	24,649
4	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Health	ROB	1,426	1,869	2,406	3,030	3,724	4,457	5,189	5,883	6,507	7,044	7,487	7,841	7,689	7,766	7,762	7,692	7,484	7,264	7,044	6,836
5	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Lodging	ROB	1,354	1,775	2,285	2,878	3,537	4,232	4,927	5,586	6,179	6,689	7,110	7,446	7,301	7,374	7,371	7,304	7,106	6,898	6,689	6,492
6	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Retail	ROB	1,300	1,704	2,194	2,763	3,395	4,063	4,731	5,363	5,933	6,422	6,826	7,149	7,010	7,080	7,077	7,013	6,823	6,623	6,422	6,233
7	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Office	ROB	1,045	1,370	1,763	2,221	2,729	3,266	3,802	4,310	4,768	5,161	5,486	5,746	5,634	5,690	5,688	5,636	5,484	5,323	5,162	5,009
8	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Warehouse	ROB	21	28	36	45	55	66	77	88	97	105	112	117	115	116	116	115	111	108	105	102
9	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Assembly	ROB	347	454	585	736	905	1,083	1,261	1,430	1,581	1,712	1,820	1,906	1,869	1,887	1,886	1,869	1,819	1,765	1,712	1,661
10	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Other	ROB	3,880	5,086	6,547	8,246	10,134	12,126	14,119	16,007	17,706	19,166	20,372	21,336	20,921	21,131	21,122	20,930	20,363	19,766	19,168	18,601
11	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	BSS	ROB	826	1,083	1,393	1,755	2,157	2,581	3,005	3,407	3,769	4,080	4,336	4,541	4,453	4,498	4,496	4,455	4,334	4,207	4,080	3,959
12	Cooking	Commercial Electric Convection Oven	Biz-Custom	Education	ROB	2,061	2,701	3,476	4,379	5,381	6,439	7,497	8,500	9,402	10,177	10,818	11,330	11,109	11,221	11,216	11,114	10,813	10,496	10,178	9,878
13	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Sales	ROB	441	578	744	937	1,151	1,378	1,604	1,819	2,012	2,177	2,314	2,424	2,377	2,401	2,400	2,378	2,313	2,246	2,178	2,113
14	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Service	ROB	4,604	6,035	7,767	9,783	12,023	14,387	16,751	18,991	21,007	22,740	24,170	25,314	24,822	25,071	25,060	24,832	24,160	23,451	22,742	22,070
15	Cooking	Commercial Electric Convection Oven	Biz-Custom	Health	ROB	1,277	1,674	2,154	2,713	3,335	3,990	4,646	5,267	5,826	6,307	6,704	7,021	6,884	6,953	6,950	6,887	6,701	6,504	6,307	6,121
16	Cooking	Commercial Electric Convection Oven	Biz-Custom	Lodging	ROB	1,212	1,589	2,046	2,577	3,166	3,789	4,412	5,001	5,532	5,989	6,366	6,667	6,537	6,603	6,600	6,540	6,363	6,176	5,989	5,812
17	Cooking	Commercial Electric Convection Oven	Biz-Custom	Retail	ROB	1,164	1,526	1,964	2,474	3,040	3,638	4,236	4,802	5,312	5,750	6,112	6,401	6,276	6,339	6,336	6,279	6,109	5,930	5,750	5,580
18	Cooking	Commercial Electric Convection Oven	Biz-Custom	Office	ROB	936	1,226	1,578	1,988	2,443	2,924	3,404	3,859	4,269	4,621	4,912	5,144	5,044	5,095	5,093	5,046	4,910	4,766	4,622	4,485
19	Cooking	Commercial Electric Convection Oven	Biz-Custom	Warehouse	ROB	19	25	32	40	50	59	69	78	87	94	100	105	103	104	104	103	100	97	94	91
20	Cooking	Commercial Electric Convection Oven	Biz-Custom	Assembly	ROB	310	407	524	659	810	970	1,129	1,280	1,416	1,533	1,629	1,706	1,673	1,690	1,689	1,674	1,628	1,581	1,533	1,488
21	Cooking	Commercial Electric Convection Oven	Biz-Custom	Other	ROB	3,474	4,554	5,862	7,383	9,073	10,857	12,641	14,332	15,853	17,160	18,240	19,103	18,732	18,920	18,911	18,739	18,232	17,697	17,162	16,655
22	Cooking	Commercial Electric Convection Oven	Biz-Custom	BSS	ROB	740	969	1,248	1,571	1,931	2,311	2,691	3,051	3,374	3,653	3,882	4,066	3,987	4,027	4,025	3,989	3,881	3,767	3,653	3,545
23	Cooking	Commercial Electric Griddle	Biz-Custom	Education	ROB	186	464	773	1,105	1,470	1,926	2,479	3,123	3,838	4,592	5,347	6,062	6,650	7,119	7,483	7,749	7,923	8,003	7,999	7,926
24	Cooking	Commercial Electric Griddle	Biz-Custom	Food Sales	ROB	40	99	165	236	314	412	530	668	821	983	1,144	1,297	1,423	1,523	1,601	1,658	1,695	1,712	1,711	1,696
25	Cooking	Commercial Electric Griddle	Biz-Custom	Food Service	ROB	415	1,037	1,728	2,468	3,283	4,304	5,540	6,977	8,575	10,261	11,947	13,544	14,858	15,907	16,720	17,313	17,703	17,880	17,872	17,710
26	Cooking	Commercial Electric Griddle	Biz-Custom	Health	ROB	115	288	479	685	911	1,194	1,536	1,935	2,378	2,846	3,313	3,756	4,121	4,412	4,637	4,802	4,910	4,959	4,957	4,912
27	Cooking	Commercial Electric Griddle	Biz-Custom	Lodging	ROB	109	273	455	650	865	1,133	1,459	1,838	2,258	2,702	3,146	3,567	3,913	4,189	4,403	4,560	4,662	4,709	4,707	4,664
28	Cooking	Commercial Electric Griddle	Biz-Custom	Retail	ROB	105	262	437	624	830	1,088	1,401	1,764	2,168	2,595	3,021	3,425	3,757	4,022	4,228	4,378	4,476	4,521	4,519	4,478
29	Cooking	Commercial Electric Griddle	Biz-Custom	Office	ROB	84	211	351	502	667	875	1,126	1,418	1,743	2,085	2,428	2,752	3,019	3,233	3,398	3,518	3,598	3,634	3,632	3,599
30	Cooking	Commercial Electric Griddle	Biz-Custom	Warehouse	ROB	2	4	7	10	14	18	23	29	35	42	49	56	61	66	69	72	73	74	74	73
31	Cooking	Commercial Electric Griddle	Biz-Custom	Assembly	ROB	28	70	116	166	221	290	373	470	578	692	805	913	1,001	1,072	1,127	1,167	1,193	1,205	1,205	1,194
32	Cooking	Commercial Electric Griddle	Biz-Custom	Other	ROB	313	782	1,304	1,863	2,478	3,248	4,180	5,265	6,471	7,743	9,016	10,221	11,212	12,004	12,618	13,065	13,359	13,493	13,487	13,365
33	Cooking	Commercial Electric Griddle	Biz-Custom	BSS	ROB	67	167	278	396	527	691	890	1,121	1,377	1,648	1,919	2,176	2,387	2,555	2,686	2,781	2,844	2,872	2,871	2,845
34	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Education	ROB	2,235	2,973	3,897	5,016	6,318	7,764	9,291	10,817	12,263	13,565	14,684	15,608	15,676	16,029	16,189	16,182	16,035	15,601	15,143	14,685
35	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Sales	ROB	478	636	834	1,073	1,352	1,661	1,988	2,314	2,624	2,902	3,142	3,339	3,354	3,429	3,464	3,462	3,431	3,338	3,240	3,142
36	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Service	ROB	4,993	6,643	8,707	11,207	14,115	17,347	20,758	24,169	27,400	30,309	32,809	34,873	35,025	35,813	36,172	36,156	35,828	34,858	33,835	32,812
37	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Health	ROB	1,385	1,842	2,415	3,108	3,915	4,811	5,757	6,703	7,599	8,406	9,099	9,672	9,714	9,933	10,032	10,028	9,937	9,668	9,384	9,100
38	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Lodging	ROB	1,315	1,749	2,293	2,951	3,717	4,568	5,467	6,365	7,216	7,982	8,641	9,184	9,224	9,432	9,526	9,522	9,436	9,180	8,911	8,641
39	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Retail	ROB	1,263	1,680	2,202	2,834	3,569	4,386	5,249	6,111	6,928	7,664	8,296	8,818	8,856	9,056	9,146	9,142	9,059	8,814	8,555	8,297
40	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Office	ROB	1,015	1,350	1,769	2,277	2,869	3,525	4,218	4,912	5,568	6,159	6,667	7,087	7,118	7,278	7,351	7,348	7,281	7,084	6,876	6,668
41	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Warehouse	ROB	21	27	36	46	58	72	86	100	113	125	136	144	145	148	149	149	148	144	140	136
42	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Assembly	ROB	337	448	587	755	951	1,169	1,399	1,629	1,847	2,043	2,211	2,350	2,361	2,414	2,438	2,437	2,415	2,349	2,281	2,212
43	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Other	ROB	3,768	5,013	6,571	8,457	10,652	13,091	15,665	18,239	20,678	22,873	24,759	26,317	26,431	27,026	27,297	27,285	27,037	26,306	25,533	24,761
44	Cooking	Commercial Electric Steam Cooker	Biz-BSS	BSS	ROB	1,524	1,998	2,572	3,239	3,981	4,763	5,546	6,288	6,955	7,529	8,002	8,381	8,218	8,300	8,297	8,221	7,999	7,764	7,529	7,307
45	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Education	ROB	14,196	18,272	23,015	28,284	33,845	39,407	44,676	49,419	53,494	56,860	55,291	56,161	56,333	55,949	55,167	53,499	51,918	50,495	49,273	48,263
46	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	3,037	3,909	4,924	6,051	7,241	8,431	9,558	10,573	11,445	12,165	11,829	12,015	12,052	11,970	11,803	11,446	11,108	10,803	10,542	10,326
47	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	31,719	40,826	51,423	63,195	75,621	88,047	99,820	110,416	119,523	127,044	123,537	125,480	125,865	125,007	123,261	119,533	116,001	112,822	110,090	107,834
48	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Health	ROB	8,797	11,323	14,262	17,527	20,973	24,419	27,684	30,623	33,149	35,235	34,262	34,801	34,908	34,670	34,186	33,152	32,172	31,291	30,533	29,907
49	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	8,354	10,752	13,543	16,643	19,916	23,188	26,289	29,079	31,478	33,458	32,535	33,046	33,148	32,922	32,462	31,480	30,550	29,713	28,993	28,399
50	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Retail	ROB	8,020	10,323	13,003	15,979	19,121	22,263	25,240	27,919	30,222	32,124	31,237	31,728	31,826	31,609	31,167	30,225	29,332	28,528	27,837	27,267
51	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Office	ROB	6,446	8,297	10,450	12,843	15,368	17,893	20,285	22,439	24,290	25,818	25,105	25,500	25,578	25,404	25,049	24,292	23,574	22,928	22,373	21,914
52	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	131	169	212	261	312	364	412	456	494	525	510	518	520	516	509	494	479	466	455	446
53	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	2,138	2,752	3,466	4,259	5,097	5,934	6,728	7,442	8,056	8,563	8,327	8,457	8,483	8,426	8,308	8,057	7,819	7,604	7,420	7,268
54	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Other	ROB	23,937	30,809	38,806	47,690	57,067	66,445	75,329	83,325	90,198	95,873	93,227	94,693	94,984	94,336	93,019	90,205	87,540	85,141	83,079	81,377
55	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	BSS	ROB	5,095	6,558	8,260	10,151	12,147	14,143	16,034	17,736	19,199	20,407	19,844	20,156	20,218	20,080	19,799	19,200	18,633	18,123	17,684	17,321
56	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Education	ROB	2,414	3,107	3,913	4,809	5,755	6,700	7,596	8,402	9,095	9,668	9,401	9,549	9,578	9,513	9,380	9,096	8,827	8,586	8,378	8,206
57	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	516	665	837	1,029	1,231	1,433	1,625	1,798	1,946	2,068	2,011	2,043	2,049	2,035	2,007	1,946	1,889	1,837	1,792	1,756
58	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	5,393	6,941	8,743	10,745	12,858	14,970	16,972	18,774	20,322	21,601	21,004	21,335	21,400	21,254	20,958	20,324	19,723	19,183	18,718	18,335
59	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Health	ROB	1,496	1,925	2,425	2,980	3,566	4,152	4,707	5,207	5,636	5,991	5,825	5,917	5,935	5,895	5,812	5,637	5,470	5,320	5,191	5,085
60	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	1,420	1,828	2,303	2,830	3,386	3,943	4,470	4,944	5,352	5,689	5,532	5,619	5,636	5,598	5,519	5,352	5,194	5,052	4,930	4,829
61	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Retail	ROB	1,364	1,755	2,211	2,717	3,251	3,785	4,291	4,747	5,139	5,462	5,311	5,395	5,411	5,374	5,299	5,139	4,987	4,850	4,733	4,636
62	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Office	ROB	1,096	1,411	1,777	2,184	2,613	3,042	3,449	3,815	4,130	4,390	4,269	4,336	4,349	4,319	4,259	4,130	4,008	3,898	3,804	3,726
63	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	22	29	36	44	53	62	70	78	84	89	87	88	88	88	87	84	81	79	77	76
64	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	364	468	589	724	867	1,009	1,144	1,265	1,370	1,456	1,416	1,438	1,442	1,433	1,413	1,370	1,329	1,293	1,262	1,236
65	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Other	ROB	4,070	5,238	6,598	8,109	9,703	11,297	12,808	14,167	15,336	16,301	15,851	16,100	16,150	16,040	15,816	15,337	14,884	14,476	14,126	13,836
66	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	BSS	ROB	866	1,115	1,404	1,726	2,065	2,405	2,726	3,016	3,264	3,470	3,374	3,427	3,437	3,414	3,366	3,265	3,168	3,081	3,007	2,945
67	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Education	ROB	981	1,635	2,335	3,107	4,072	5,242	6,602	8,114	9,709	11,304	12,816	14,176	15,051	15,820	16,382	16,751	16,918	16,911	16,757	16,304
68	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Sales	ROB	210	350	500	665	871	1,121	1,412	1,736	2,077	2,419	2,742	3,033	3,220	3,385	3,505	3,584	3,620	3,618	3,585	3,488
69	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Service	ROB	2,192	3,653	5,218	6,942	9,099	11,711	14,751	18,128	21,693	25,257	28,634	31,674	33,629	35,348	36,602	37,426	37,801	37,784	37,441	36,428
70	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Health	ROB	608	1,013	1,447	1,925	2,524	3,248	4,091	5,028	6,016	7,005	7,942	8,785	9,327	9,804	10,151	10,380	10,484	10,479	10,384	10,103

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
71	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Lodging	ROB	577	962	1,374	1,828	2,396	3,084	3,885	4,774	5,713	6,652	7,541	8,342	8,856	9,309	9,639	9,857	9,955	9,951	9,860	9,594
72	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Retail	ROB	554	924	1,319	1,755	2,301	2,961	3,730	4,584	5,485	6,386	7,240	8,009	8,503	8,938	9,255	9,463	9,558	9,554	9,467	9,211
73	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Office	ROB	445	742	1,060	1,411	1,849	2,380	2,998	3,684	4,408	5,133	5,819	6,437	6,834	7,183	7,438	7,606	7,682	7,679	7,609	7,403
74	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Warehouse	ROB	9	15	22	29	38	48	61	75	90	104	118	131	139	146	151	155	156	156	155	151
75	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Assembly	ROB	148	246	352	468	613	789	994	1,222	1,462	1,702	1,930	2,135	2,267	2,382	2,467	2,523	2,548	2,547	2,524	2,455
76	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Other	ROB	1,654	2,756	3,938	5,239	6,867	8,838	11,132	13,680	16,370	19,060	21,609	23,903	25,378	26,675	27,622	28,243	28,527	28,514	28,255	27,490
77	Cooking	Energy Efficient Electric Fryer	Biz-Custom	BSS	ROB	325	542	774	1,029	1,349	1,736	2,187	2,688	3,216	3,745	4,246	4,696	5,084	5,306	5,497	5,626	5,701	5,719	5,687	5,551
78	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Education	ROB	85	212	353	504	670	879	1,131	1,424	1,751	2,095	2,439	2,765	3,033	3,247	3,413	3,535	3,614	3,650	3,649	3,616
79	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Sales	ROB	18	45	75	108	143	188	242	305	375	448	522	592	649	695	730	756	773	781	781	774
80	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Service	ROB	189	473	788	1,126	1,498	1,963	2,527	3,183	3,911	4,680	5,450	6,178	6,777	7,256	7,627	7,897	8,075	8,156	8,152	8,078
81	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Health	ROB	52	131	219	312	415	544	701	883	1,085	1,298	1,511	1,713	1,880	2,012	2,115	2,190	2,240	2,262	2,261	2,240
82	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Lodging	ROB	50	125	208	296	394	517	665	838	1,030	1,233	1,435	1,627	1,785	1,911	2,009	2,080	2,127	2,148	2,147	2,128
83	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Retail	ROB	48	120	199	285	379	496	639	805	989	1,183	1,378	1,562	1,714	1,835	1,928	1,997	2,042	2,062	2,061	2,043
84	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Office	ROB	38	96	160	229	304	399	514	647	795	951	1,107	1,256	1,377	1,475	1,550	1,605	1,641	1,657	1,657	1,642
85	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Warehouse	ROB	1	2	3	5	6	8	10	13	16	19	23	26	28	30	32	33	33	34	34	33
86	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Assembly	ROB	13	32	53	76	101	132	170	215	264	315	367	416	457	489	514	532	544	550	549	544
87	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Other	ROB	143	357	595	850	1,130	1,482	1,907	2,402	2,952	3,532	4,112	4,662	5,114	5,476	5,755	5,960	6,094	6,155	6,152	6,096
88	Cooking	Insulated Holding Cabinets (Full Size)	Biz-BSS	BSS	ROB	372	422	467	506	537	563	583	598	609	617	617	617	506	491	477	466	456	449	443	438
89	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Education	ROB	40	99	165	235	313	410	528	665	817	978	1,138	1,290	1,416	1,516	1,593	1,650	1,687	1,704	1,703	1,687
90	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Sales	ROB	8	21	35	50	67	88	113	142	175	209	244	276	303	324	341	353	361	364	364	361
91	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Service	ROB	88	221	368	525	699	916	1,179	1,485	1,825	2,184	2,543	2,883	3,163	3,386	3,559	3,685	3,768	3,806	3,805	3,770
92	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Health	ROB	24	61	102	146	194	254	327	412	506	606	705	800	877	939	987	1,022	1,045	1,056	1,055	1,046
93	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Lodging	ROB	23	58	97	138	184	241	311	391	481	575	670	759	833	892	937	971	992	1,002	1,002	993
94	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Retail	ROB	22	56	93	133	177	232	298	376	462	552	643	729	800	856	900	932	953	962	962	953
95	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Office	ROB	18	45	75	107	142	186	240	302	371	444	517	586	643	688	723	749	766	774	773	766
96	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Warehouse	ROB	0	1	2	2	3	4	5	6	8	9	11	12	13	14	15	15	16	16	16	16
97	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Assembly	ROB	6	15	25	35	47	62	79	100	123	147	171	194	213	228	240	248	254	257	256	254
98	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Other	ROB	67	167	278	396	527	691	890	1,121	1,377	1,648	1,919	2,176	2,387	2,555	2,686	2,781	2,844	2,872	2,871	2,845
99	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-BSS	BSS	ROB	20	51	84	121	160	210	271	341	419	501	584	662	726	777	817	846	865	873	873	865
100	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Education	RET	17,857	16,073	13,813	11,407	9,114	7,092	5,405	4,055	3,007	0	0	0	0	0	0	1,786	1,607	1,381	1,141	911
112	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Sales	RET	2,031	1,828	1,571	1,298	1,037	807	615	461	342	0	0	0	0	0	0	203	183	157	130	104
113	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Health	RET	6,113	5,502	4,728	3,905	3,120	2,428	1,850	1,388	1,029	0	0	0	0	0	0	611	550	473	390	312
114	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Lodging	RET	5,382	4,844	4,163	3,438	2,747	2,138	1,629	1,222	906	0	0	0	0	0	0	538	484	416	344	275
115	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Office	RET	33,981	30,586	26,286	21,707	17,344	13,495	10,286	7,717	5,721	0	0	0	0	0	0	3,398	3,059	2,629	2,171	1,734
116	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Service	RET	3,696	3,327	2,859	2,361	1,886	1,468	1,119	839	622	0	0	0	0	0	0	370	333	286	236	189
117	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Retail	RET	32,326	29,096	25,006	20,650	16,499	12,838	9,785	7,341	5,443	0	0	0	0	0	0	3,233	2,910	2,501	2,065	1,650
118	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Warehouse	RET	8,919	8,028	6,900	5,698	4,552	3,542	2,700	2,026	1,502	0	0	0	0	0	0	892	803	690	570	455
119	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Assembly	RET	2,696	2,427	2,086	1,723	1,376	1,071	816	612	454	0	0	0	0	0	0	270	243	209	172	138
120	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Other	RET	55,214	49,698	42,711	35,272	28,182	21,928	16,713	12,539	9,296	0	0	0	0	0	0	5,521	4,970	4,271	3,527	2,818
121	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-BSS	BSS	RET	14,885	11,582	8,827	6,623	4,910	0	0	0	0	0	0	0	0	0	0	1,488	1,158	883	662	491
122	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Education	RET	16,737	15,065	12,947	10,692	8,543	6,647	5,066	3,801	2,818	0	0	0	0	0	0	1,674	1,507	1,295	1,069	854
123	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Sales	RET	1,904	1,714	1,473	1,216	972	756	576	432	321	0	0	0	0	0	0	190	171	147	122	97
124	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Health	RET	5,729	5,157	4,432	3,660	2,924	2,275	1,734	1,301	965	0	0	0	0	0	0	573	516	443	366	292
125	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Lodging	RET	5,045	4,541	3,902	3,223	2,575	2,004	1,527	1,146	849	0	0	0	0	0	0	504	454	390	322	257
126	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Office	RET	31,850	28,668	24,638	20,347	16,257	12,649	9,641	7,233	5,363	0	0	0	0	0	0	3,185	2,867	2,464	2,035	1,626
127	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Service	RET	3,464	3,118	2,680	2,213	1,768	1,376	1,049	787	583	0	0	0	0	0	0	346	312	268	221	177
128	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Retail	RET	30,300	27,272	23,438	19,356	15,465	12,033	9,172	6,881	5,102	0	0	0	0	0	0	3,030	2,727	2,344	1,936	1,547
129	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Warehouse	RET	8,360	7,525	6,467	5,341	4,267	3,320	2,531	1,899	1,408	0	0	0	0	0	0	836	752	647	534	427
130	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Assembly	RET	2,527	2,275	1,955	1,615	1,290	1,004	765	574	426	0	0	0	0	0	0	253	227	196	161	129
131	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Other	RET	51,753	46,582	40,033	33,061	26,415	20,554	15,666	11,753	8,714	0	0	0	0	0	0	5,175	4,658	4,003	3,306	2,641
132	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-BSS	BSS	RET	13,951	10,856	8,274	6,208	4,602	0	0	0	0	0	0	0	0	0	0	0	1,395	1,086	827	621
133	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Education	RET	15,690	14,123	12,137	10,023	8,008	6,231	4,749	3,563	2,642	0	0	0	0	0	0	1,569	1,412	1,214	1,002	801
134	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Sales	RET	1,785	1,606	1,381	1,140	911	709	540	405	301	0	0	0	0	0	0	178	161	138	114	91
135	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Health	RET	5,371	4,834	4,155	3,431	2,741	2,133	1,626	1,220	904	0	0	0	0	0	0	537	483	415	343	274
136	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Lodging	RET	4,729	4,257	3,658	3,021	2,414	1,878	1,432	1,074	796	0	0	0	0	0	0	473	426	366	302	241
137	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Office	RET	29,858	26,875	23,096	19,074	15,240	11,858	9,038	6,781	5,027	0	0	0	0	0	0	2,986	2,687	2,310	1,907	1,524
138	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Service	RET	3,248	2,923	2,512	2,075	1,658	1,290	983	738	547	0	0	0	0	0	0	325	292	251	207	166
139	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Retail	RET	28,404	25,566	21,972	18,145	14,498	11,281	8,598	6,451	4,782	0	0	0	0	0	0	2,840	2,557	2,197	1,814	1,450
140	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Warehouse	RET	7,837	7,054	6,062	5,007	4,000	3,113	2,372	1,780	1,320	0	0	0	0	0	0	784	705	606	501	400

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
141	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Assembly	RET	2,369	2,133	1,833	1,514	1,209	941	717	538	399	0	0	0	0	0	0	237	213	183	151	121
142	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Other	RET	48,515	43,668	37,529	30,992	24,762	19,268	14,686	11,018	8,168	0	0	0	0	0	0	4,852	4,367	3,753	3,099	2,476
143	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-BSS	BSS	RET	13,079	10,176	7,756	5,819	4,314	0	0	0	0	0	0	0	0	0	0	0	1,308	1,018	776	582
144	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Education	RET	15,199	13,680	11,757	9,709	7,758	6,036	4,601	3,452	2,559	0	0	0	0	0	0	1,520	1,368	1,176	971	776
145	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Sales	RET	1,729	1,556	1,337	1,104	882	687	523	393	291	0	0	0	0	0	0	173	156	134	110	88
146	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Health	RET	5,203	4,683	4,025	3,324	2,656	2,066	1,575	1,182	876	0	0	0	0	0	0	520	468	402	332	266
147	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Lodging	RET	4,581	4,123	3,544	2,926	2,338	1,819	1,387	1,040	771	0	0	0	0	0	0	458	412	354	293	234
148	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Office	RET	28,923	26,033	22,373	18,476	14,762	11,487	8,755	6,568	4,870	0	0	0	0	0	0	2,892	2,603	2,237	1,848	1,476
149	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Service	RET	3,146	2,832	2,433	2,010	1,606	1,249	952	714	530	0	0	0	0	0	0	315	283	243	201	161
150	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Retail	RET	27,514	24,765	21,284	17,577	14,043	10,927	8,329	6,249	4,633	0	0	0	0	0	0	2,751	2,477	2,128	1,758	1,404
151	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Warehouse	RET	7,592	6,833	5,873	4,850	3,875	3,015	2,298	1,724	1,278	0	0	0	0	0	0	759	683	587	485	387
152	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Assembly	RET	2,295	2,066	1,775	1,466	1,171	911	695	521	386	0	0	0	0	0	0	230	207	178	147	117
153	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Other	RET	46,996	42,300	36,353	30,022	23,987	18,664	14,226	10,673	7,913	0	0	0	0	0	0	4,700	4,230	3,635	3,002	2,399
154	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-BSS	BSS	RET	12,669	9,858	7,513	5,637	4,179	0	0	0	0	0	0	0	0	0	0	0	1,267	986	751	564
155	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Education	RET	16,588	14,931	12,832	10,597	8,467	6,588	5,021	3,767	2,793	0	0	0	0	0	0	1,659	1,493	1,283	1,060	847
156	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Sales	RET	1,887	1,698	1,460	1,205	963	749	571	429	318	0	0	0	0	0	0	189	170	146	121	96
157	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Health	RET	5,678	5,111	4,393	3,627	2,898	2,255	1,719	1,290	956	0	0	0	0	0	0	568	511	439	363	290
158	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Lodging	RET	5,000	4,500	3,868	3,194	2,552	1,986	1,513	1,135	842	0	0	0	0	0	0	500	450	387	319	255
159	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Office	RET	31,566	28,413	24,418	20,165	16,112	12,537	9,555	7,169	5,315	0	0	0	0	0	0	3,157	2,841	2,442	2,017	1,611
160	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Service	RET	3,433	3,090	2,656	2,193	1,752	1,364	1,039	780	578	0	0	0	0	0	0	343	309	266	219	175
161	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Retail	RET	30,029	27,029	23,229	19,183	15,327	11,926	9,090	6,820	5,056	0	0	0	0	0	0	3,003	2,703	2,323	1,918	1,533
162	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Warehouse	RET	8,286	7,458	6,409	5,293	4,229	3,291	2,508	1,882	1,395	0	0	0	0	0	0	829	746	641	529	423
163	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Assembly	RET	2,505	2,255	1,938	1,600	1,279	995	758	569	422	0	0	0	0	0	0	250	225	194	160	128
164	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Other	RET	51,291	46,167	39,677	32,766	26,179	20,370	15,526	11,648	8,636	0	0	0	0	0	0	5,129	4,617	3,968	3,277	2,618
165	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-BSS	BSS	RET	13,827	10,759	8,200	6,152	4,561	0	0	0	0	0	0	0	0	0	0	1,383	1,076	820	615	456
166	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Education	RET	71,427	64,291	55,252	45,629	36,457	28,367	21,621	16,221	12,026	0	0	0	0	0	0	7,143	6,429	5,525	4,563	3,646
167	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Sales	RET	8,125	7,313	6,285	5,190	4,147	3,227	2,459	1,845	1,368	0	0	0	0	0	0	812	731	628	519	415
168	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Health	RET	24,451	22,008	18,914	15,619	12,480	9,711	7,401	5,553	4,117	0	0	0	0	0	0	2,445	2,201	1,891	1,562	1,248
169	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Lodging	RET	21,529	19,378	16,653	13,753	10,988	8,550	6,517	4,889	3,625	0	0	0	0	0	0	2,153	1,938	1,665	1,375	1,099
170	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Office	RET	135,923	122,343	105,143	86,830	69,376	53,982	41,144	30,868	22,885	0	0	0	0	0	0	13,592	12,234	10,514	8,683	6,938
171	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Service	RET	14,784	13,307	11,436	9,444	7,546	5,871	4,475	3,357	2,489	0	0	0	0	0	0	1,478	1,331	1,144	944	755
172	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Retail	RET	129,305	116,386	100,024	82,602	65,998	51,353	39,141	29,365	21,771	0	0	0	0	0	0	12,930	11,639	10,002	8,260	6,600
173	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Warehouse	RET	35,677	32,113	27,598	22,791	18,210	14,169	10,800	8,102	6,007	0	0	0	0	0	0	3,568	3,211	2,760	2,279	1,821
174	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Assembly	RET	10,786	9,708	8,343	6,890	5,505	4,284	3,265	2,449	1,816	0	0	0	0	0	0	1,079	971	834	689	551
175	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Other	RET	220,857	198,791	170,844	141,087	112,727	87,713	66,854	50,157	37,186	0	0	0	0	0	0	22,086	19,879	17,084	14,109	11,273
176	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-BSS	BSS	RET	59,538	46,327	35,310	26,491	19,640	0	0	0	0	0	0	0	0	0	0	5,954	4,633	3,531	2,649	1,964
177	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Education	RET	66,949	60,260	51,788	42,768	34,171	26,589	20,266	15,204	11,272	0	0	0	0	0	0	6,695	6,026	5,179	4,277	3,417
178	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Sales	RET	7,616	6,855	5,891	4,865	3,887	3,024	2,305	1,729	1,282	0	0	0	0	0	0	762	685	589	486	389
179	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Health	RET	22,918	20,628	17,728	14,640	11,697	9,102	6,937	5,205	3,859	0	0	0	0	0	0	2,292	2,063	1,773	1,464	1,170
180	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Lodging	RET	20,179	18,163	15,609	12,891	10,299	8,014	6,108	4,583	3,398	0	0	0	0	0	0	2,018	1,816	1,561	1,289	1,030
181	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Office	RET	127,402	114,673	98,552	81,386	65,027	50,597	38,565	28,933	21,451	0	0	0	0	0	0	12,740	11,467	9,855	8,139	6,503
182	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Service	RET	13,857	12,473	10,719	8,852	7,073	5,503	4,195	3,147	2,333	0	0	0	0	0	0	1,386	1,247	1,072	885	707
183	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Retail	RET	121,198	109,089	93,753	77,423	61,860	48,134	36,687	27,524	20,406	0	0	0	0	0	0	12,120	10,909	9,375	7,742	6,186
184	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Warehouse	RET	33,441	30,100	25,868	21,362	17,068	13,281	10,123	7,594	5,630	0	0	0	0	0	0	3,344	3,010	2,587	2,136	1,707
185	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Assembly	RET	10,110	9,100	7,820	6,458	5,160	4,015	3,060	2,296	1,702	0	0	0	0	0	0	1,011	910	782	646	516
186	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Other	RET	207,011	186,329	160,134	132,242	105,660	82,214	62,663	47,012	34,855	0	0	0	0	0	0	20,701	18,633	16,013	13,224	10,566
187	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-BSS	BSS	RET	55,806	43,422	33,096	24,830	18,409	0	0	0	0	0	0	0	0	0	0	5,581	4,342	3,310	2,483	1,841
188	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Education	RET	62,761	56,490	48,548	40,092	32,033	24,925	18,998	14,253	10,567	0	0	0	0	0	0	6,276	5,649	4,855	4,009	3,203
189	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Sales	RET	7,139	6,426	5,522	4,561	3,644	2,835	2,161	1,621	1,202	0	0	0	0	0	0	714	643	552	456	364
190	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Health	RET	21,484	19,338	16,619	13,724	10,966	8,532	6,503	4,879	3,617	0	0	0	0	0	0	2,148	1,934	1,662	1,372	1,097
191	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Lodging	RET	18,917	17,027	14,633	12,084	9,655	7,513	5,726	4,296	3,185	0	0	0	0	0	0	1,892	1,703	1,463	1,208	966
192	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Office	RET	119,431	107,499	92,386	76,295	60,958	47,432	36,152	27,123	20,109	0	0	0	0	0	0	11,943	10,750	9,239	7,629	6,096
193	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Service	RET	12,990	11,692	10,049	8,298	6,630	5,159	3,932	2,950	2,187	0	0	0	0	0	0	1,299	1,169	1,005	830	663
194	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Retail	RET	113,616	102,264	87,888	72,580	57,990	45,122	34,392	25,802	19,130	0	0	0	0	0	0	11,362	10,226	8,789	7,258	5,799
195	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Warehouse	RET	31,349	28,217	24,250	20,026	16,001	12,450	9,489	7,119	5,278	0	0	0	0	0	0	3,135	2,822	2,425	2,003	1,600
196	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Assembly	RET	9,477	8,530	7,331	6,054	4,837	3,764	2,869	2,152	1,596	0	0	0	0	0	0	948	853	733	605	484
197	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Other	RET	194,060	174,672	150,115	123,969	99,049	77,071	58,742	44,071	32,674	0	0	0	0	0	0	19,406	17,467	15,012	12,397	9,905
198	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-BSS	BSS	RET	52,314	40,706	31,025	23,277	17,257	0	0	0	0	0	0	0	0	0	0	5,231	4,071	3,103	2,328	1,726
199	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Education	RET	60,795	54,721	47,028	38,837	31,030	24,145	18,403	13,807	10,236	0	0	0	0	0	0	6,079	5,472	4,703	3,884	3,103
200	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Sales	RET	6,915	6,225	5,349	4,418	3,530	2,746	2,093	1,571	1,164	0	0	0	0	0	0	692	622	535	442	353
201	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Health	RET	20,811	18,732	16,098	13,295	10,622	8,265	6,300	4,726	3,504	0	0	0	0	0	0	2,081	1,873	1,610	1,329	1,062
202	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Lodging	RET	18,324	16,493	14,175	11,706	9,353	7,277	5,547	4,161	3,085	0	0	0	0	0	0	1,832	1,649	1,417	1,171	935
203	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Office	RET	115,690	104,132	89,492	73,905	59,049	45,946	35,020	26,273	19,479	0	0	0	0	0	0	11,569	10,413	8,949	7,390	5,905
204	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Service	RET	12,583	11,326	9,734	8,038	6,423	4,997	3,809	2,858	2,119	0	0	0	0	0	0	1,258	1,133	973	804	642
205	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Retail	RET	110,057	99,062	85,135	70,306	56,174	43,709	33,315	24,994	18,530	0	0	0	0	0	0	11,006	9,906	8,513	7,031	5,617
206	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Warehouse	RET	30,367	27,333	23,490	19,399	15,499	12,060	9,192	6,896	5,113	0	0	0	0	0	0	3,037	2,733	2,349	1,940	1,550
207	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Assembly	RET	9,180	8,263	7,101	5,865	4,686	3,646	2,779	2,085	1,546	0	0	0	0	0	0	918	826	710	586	469
208	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Other	RET	187,982	169,201	145,414	120,086	95,947	74,657	56,902	42,691	31,651	0	0	0	0	0	0	18,798	16,920	14,541	12,009	9,595
209	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-BSS	BSS	RET	50,676	39,431	30,054	22,548	16,717	0	0	0	0	0	0	0	0	0	0	5,068	3,943	3,005	2,255	1,672
210	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Education	RET	66,352	59,723	51,327	42,387	33,867	26,352	20,085	15,069	11,172	0	0	0	0	0	0	6,635	5,972	5,133	4,239	3,387

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
211	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Sales	RET	7,548	6,794	5,838	4,822	3,852	2,998	2,285	1,714	1,271	0	0	0	0	0	0	755	679	584	482	385
212	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Health	RET	22,714	20,444	17,570	14,510	11,593	9,021	6,875	5,158	3,824	0	0	0	0	0	0	2,271	2,044	1,757	1,451	1,159
213	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Lodging	RET	19,999	18,001	15,470	12,776	10,208	7,943	6,054	4,542	3,367	0	0	0	0	0	0	2,000	1,800	1,547	1,278	1,021
214	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Office	RET	126,266	113,651	97,673	80,661	64,447	50,146	38,221	28,675	21,259	0	0	0	0	0	0	12,627	11,365	9,767	8,066	6,445
215	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Service	RET	13,734	12,361	10,624	8,773	7,010	5,454	4,157	3,119	2,312	0	0	0	0	0	0	1,373	1,236	1,062	877	701
216	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Retail	RET	120,118	108,117	92,917	76,733	61,309	47,705	36,360	27,279	20,224	0	0	0	0	0	0	12,012	10,812	9,292	7,673	6,131
217	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Warehouse	RET	33,143	29,831	25,637	21,172	16,916	13,163	10,032	7,527	5,580	0	0	0	0	0	0	3,314	2,983	2,564	2,117	1,692
218	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Assembly	RET	10,020	9,018	7,751	6,401	5,114	3,979	3,033	2,275	1,687	0	0	0	0	0	0	1,002	902	775	640	511
219	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Other	RET	205,166	184,668	158,706	131,063	104,718	81,481	62,104	46,593	34,544	0	0	0	0	0	0	20,517	18,467	15,871	13,106	10,472
220	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-BSS	BSS	RET	55,308	43,035	32,801	24,609	18,245	0	0	0	0	0	0	0	0	0	0	5,531	4,304	3,280	2,461	1,824
221	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Education	RET	5,671	5,671	5,373	4,836	4,156	3,432	2,743	2,134	1,626	1,220	1,472	567	537	484	416	343	274	213	163	122
222	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Sales	RET	1,027	1,027	973	875	752	621	496	386	294	221	266	103	97	88	75	62	50	39	29	22
223	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Health	RET	5,031	5,031	4,766	4,290	3,687	3,045	2,433	1,893	1,443	1,082	1,306	503	477	429	369	304	243	189	144	108
224	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Lodging	RET	10,750	10,750	10,185	9,167	7,878	6,506	5,198	4,045	3,083	2,313	2,790	1,075	1,018	917	788	651	520	404	308	231
225	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Office	RET	13,392	13,392	12,687	11,420	9,814	8,105	6,476	5,039	3,841	2,881	3,475	1,339	1,269	1,142	981	810	648	504	384	288
226	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Service	RET	1,871	1,871	1,772	1,595	1,371	1,132	905	704	536	402	485	187	177	160	137	113	90	70	54	40
227	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Retail	RET	24,358	24,358	23,077	20,771	17,851	14,742	11,779	9,165	6,985	5,241	6,321	2,436	2,308	2,077	1,785	1,474	1,178	916	699	524
228	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Warehouse	RET	2,443	2,443	2,315	2,083	1,790	1,479	1,181	919	701	526	634	244	231	208	179	148	118	92	70	53
229	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Assembly	RET	1,862	1,862	1,764	1,588	1,365	1,127	900	701	534	401	483	186	176	159	136	113	90	70	53	40
230	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Other	RET	33,000	33,000	31,264	28,141	24,185	19,972	15,957	12,417	9,464	7,100	8,564	3,300	3,126	2,814	2,418	1,997	1,596	1,242	946	710
231	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-BSS	BSS	RET	3,848	2,994	2,282	1,712	1,269	0	0	0	0	0	385	299	228	171	127	0	0	0	0	0
232	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Education	RET	33,694	33,694	31,922	28,733	24,693	20,392	16,293	12,678	9,663	7,250	8,744	3,369	3,192	2,873	2,469	2,039	1,629	1,268	966	725
233	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Sales	RET	6,099	6,099	5,778	5,201	4,470	3,691	2,949	2,295	1,749	1,312	1,583	610	578	520	447	369	295	229	175	131
234	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Health	RET	29,886	29,886	28,315	25,486	21,903	18,088	14,452	11,245	8,571	6,430	7,756	2,989	2,831	2,549	2,190	1,809	1,445	1,125	857	643
235	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Lodging	RET	63,865	63,865	60,507	54,461	46,805	38,653	30,883	24,030	18,315	13,741	16,574	6,386	6,051	5,446	4,680	3,865	3,088	2,403	1,832	1,374
236	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Office	RET	79,559	79,559	75,376	67,845	58,307	48,151	38,472	29,935	22,816	17,118	20,647	7,956	7,538	6,785	5,831	4,815	3,847	2,994	2,282	1,712
237	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Service	RET	11,114	11,114	10,529	9,477	8,145	6,726	5,374	4,182	3,187	2,391	2,884	1,111	1,053	948	814	673	537	418	319	239
238	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Retail	RET	144,709	144,709	137,100	123,402	106,053	87,582	69,976	54,449	41,500	31,135	37,554	14,471	13,710	12,340	10,605	8,758	6,998	5,445	4,150	3,114
239	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Warehouse	RET	14,514	14,514	13,750	12,377	10,637	8,784	7,018	5,461	4,162	3,123	3,767	1,451	1,375	1,238	1,064	878	702	546	416	312
240	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Assembly	RET	11,062	11,062	10,480	9,433	8,107	6,695	5,349	4,162	3,172	2,380	2,871	1,106	1,048	943	811	669	535	416	317	238
241	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Other	RET	196,049	196,049	185,741	167,183	143,680	118,654	94,803	73,767	56,224	42,182	50,878	19,605	18,574	16,718	14,368	11,865	9,480	7,377	5,622	4,218
242	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-BSS	BSS	RET	22,859	17,786	13,557	10,171	7,541	0	0	0	0	0	2,286	1,779	1,356	1,017	754	0	0	0	0	0
243	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Education	RET	7,850	7,850	7,437	6,694	5,753	4,751	3,796	2,954	2,251	1,689	2,037	785	744	669	575	475	380	295	225	169
244	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Sales	RET	1,421	1,421	1,346	1,212	1,041	860	687	535	407	306	369	142	135	121	104	86	69	53	41	31
245	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Health	RET	6,963	6,963	6,597	5,938	5,103	4,214	3,367	2,620	1,997	1,498	1,807	696	660	594	510	421	337	262	200	150
246	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Lodging	RET	14,880	14,880	14,097	12,689	10,905	9,005	7,195	5,599	4,267	3,201	3,861	1,488	1,410	1,269	1,090	901	720	560	427	320
247	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Office	RET	18,536	18,536	17,561	15,807	13,585	11,219	8,963	6,974	5,316	3,988	4,810	1,854	1,756	1,581	1,358	1,122	896	697	532	399
248	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Service	RET	2,589	2,589	2,453	2,208	1,898	1,567	1,252	974	743	557	672	259	245	221	190	157	125	97	74	56
249	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Retail	RET	33,715	33,715	31,942	28,751	24,709	20,405	16,303	12,686	9,669	7,254	8,750	3,371	3,194	2,875	2,471	2,041	1,630	1,269	967	725
250	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Warehouse	RET	3,381	3,381	3,204	2,884	2,478	2,047	1,635	1,272	970	728	878	338	320	288	248	205	164	127	97	73
251	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Assembly	RET	2,577	2,577	2,442	2,198	1,889	1,560	1,246	970	739	555	669	258	244	220	189	156	125	97	74	55
252	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Other	RET	45,676	45,676	43,275	38,951	33,475	27,645	22,088	17,186	13,099	9,828	11,854	4,568	4,327	3,895	3,348	2,764	2,209	1,719	1,310	983
253	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-BSS	BSS	RET	5,326	4,144	3,158	2,370	1,757	0	0	0	0	0	533	414	316	237	176	0	0	0	0	0
254	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Education	RET	81,021	81,021	76,761	69,092	59,379	49,036	39,179	30,486	23,236	17,432	21,026	8,102	7,676	6,909	5,938	4,904	3,918	3,049	2,324	1,743
255	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Sales	RET	14,665	14,665	13,894	12,506	10,748	8,876	7,092	5,518	4,206	3,155	3,806	1,467	1,389	1,251	1,075	888	709	552	421	316
256	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Health	RET	71,866	71,866	68,087	61,284	52,668	43,495	34,752	27,041	20,610	15,463	18,650	7,187	6,809	6,128	5,267	4,349	3,475	2,704	2,061	1,546
257	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Lodging	RET	153,572	153,572	145,497	130,960	112,549	92,946	74,262	57,784	44,042	33,042	39,855	15,357	14,550	13,096	11,255	9,295	7,426	5,778	4,404	3,304
258	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Office	RET	191,311	191,311	181,252	163,143	140,207	115,787	92,512	71,984	54,865	41,162	49,649	19,131	18,125	16,314	14,021	11,579	9,251	7,198	5,487	4,116
259	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Service	RET	26,724	26,724	25,319	22,789	19,586	16,174	12,923	10,055	7,664	5,750	6,935	2,672	2,532	2,279	1,959	1,617	1,292	1,006	766	575
260	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Retail	RET	347,972	347,972	329,675	296,737	255,020	210,602	168,268	130,930	99,793	74,869	90,305	34,797	32,967	29,674	25,502	21,060	16,827	13,093	9,979	7,487
261	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Warehouse	RET	34,900	34,900	33,065	29,761	25,577	21,122	16,877	13,132	10,009	7,509	9,057	3,490	3,306	2,976	2,558	2,112	1,688	1,313	1,001	751
262	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Assembly	RET	26,599	26,599	25,201	22,683	19,494	16,099	12,862	10,008	7,628	5,723	6,903	2,660	2,520	2,268	1,949	1,610	1,286	1,001	763	572
263	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Other	RET	471,428	471,428	446,639	402,015	345,498	285,320	227,967	177,382	135,198	101,432	122,343	47,143	44,664	40,202	34,550	28,532	22,797	17,738	13,520	10,143
264	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-BSS	BSS	RET	54,967	42,770	32,599	24,457	18,132	0	0	0	0	0	5,497	4,277	3,260	2,446	1,813	0	0	0	0	0
265	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Education	RET	10,574	10,574	10,018	9,018	7,750	6,400	5,113	3,979	3,033	2,275	2,744	1,057	1,002	902	775	640	511	398	303	228
266	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Sales	RET	1,914	1,914	1,813	1,632	1,403	1,158	926	720	549	412	497	191	181	163	140	116	93	72	55	41
267	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Health	RET	9,380	9,380	8,886	7,998	6,874	5,677	4,536	3,529	2,690	2,018	2,434	938	889	800	687	568	454	353	269	202
268	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Lodging	RET	20,043	20,043	18,989	17,092	14,689	12,131	9,692	7,542	5,748	4,313	5,202	2,004	1,899	1,709	1,469	1,213	969	754	575	431
269	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Office	RET	24,969	24,969	23,656	21,293	18,299	15,112	12,074	9,395	7,161	5,372	6,480	2,497	2,366	2,129	1,830	1,511	1,207	939	716	537
270	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Service	RET	3,488	3,488	3,305	2,974	2,556	2,111	1,687	1,312	1,000	750	905	349	330	297	256	211	169	131	100	75
271	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Retail	RET	45,415	45,415	43,027	38,729	33,284	27,487	21,961	17,088	13,024	9,772	11,786	4,542	4,303	3,873	3,328	2,749	2,196	1,709	1,302	977
272	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Warehouse	RET	4,555	4,555	4,315	3,884	3,338	2,757	2,203	1,714	1,306	980	1,182	455	432	388	334	276	220	171	131	98
273	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Assembly	RET	3,472	3,472	3,289	2,960	2,544	2,101	1,679	1,306	996	747	901	347	329	296	254	210	168	131	100	75
274	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Other	RET	61,528	61,528	58,293	52,469	45,093	37,239	29,753	23,151	17,645	13,238	15,968	6,153	5,829	5,247	4,509	3,724	2,975	2,315	1,765	1,324
275	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-BSS	bss	RET	7,174	5,582	4,255	3,192	2,367	0	0	0	0	0	717	558	425	319	237	0	0	0	0	0
276	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Education	RET	58,308	58,308	55,242	49,723	42,733	35,290	28,196	21,939	16,722	12,546	9,301	0	0	0	0	5,831	5,831	5,524	4,972	4,273
277	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	10,709	10,709	10,146	9,132	7,849	6,482	5,179	4,030	3,071	2,304	1,708	0	0	0	0	1,071	1,071	1,015	913	785
278	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
279	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
280	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Office	RET	81,843	81,843	77,539	69,792	59,981	49,533	39,577	30,795	23,471	17,609	13,055	0	0	0	0	8,184	8,184	7,754	6,979	5,998

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
281	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	19,515	19,515	18,489	16,642	14,302	11,811	9,437	7,343	5,597	4,199	3,113	0	0	0	0	1,952	1,952	1,849	1,664	1,430
282	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Retail	RET	110,962	110,962	105,128	94,624	81,322	67,157	53,658	41,751	31,822	23,875	17,700	0	0	0	0	11,096	11,096	10,513	9,462	8,132
283	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	41,994	41,994	39,786	35,811	30,776	25,416	20,307	15,801	12,043	9,035	6,699	0	0	0	0	4,199	4,199	3,979	3,581	3,078
284	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	13,838	13,838	13,111	11,801	10,142	8,375	6,692	5,207	3,969	2,977	2,207	0	0	0	0	1,384	1,384	1,311	1,180	1,014
285	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Other	RET	224,882	224,882	213,057	191,770	164,810	136,104	108,746	84,615	64,493	48,385	35,872	0	0	0	0	22,488	22,488	21,306	19,177	16,481
286	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-BSS	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
287	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Education	RET	62,825	62,825	59,522	53,575	46,043	38,024	30,380	23,639	18,017	13,517	10,022	0	0	0	0	6,283	6,283	5,952	5,357	4,604
288	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	11,539	11,539	10,932	9,840	8,457	6,984	5,580	4,342	3,309	2,483	1,841	0	0	0	0	1,154	1,154	1,093	984	846
289	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
290	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
291	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Office	RET	88,183	88,183	83,546	75,199	64,627	53,371	42,642	33,180	25,290	18,973	14,067	0	0	0	0	8,818	8,818	8,355	7,520	6,463
292	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	21,027	21,027	19,921	17,931	15,410	12,726	10,168	7,912	6,030	4,524	3,354	0	0	0	0	2,103	2,103	1,992	1,793	1,541
293	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Retail	RET	119,558	119,558	113,272	101,955	87,621	72,360	57,815	44,986	34,287	25,724	19,072	0	0	0	0	11,956	11,956	11,327	10,195	8,762
294	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	45,247	45,247	42,868	38,585	33,160	27,385	21,880	17,025	12,976	9,735	7,218	0	0	0	0	4,525	4,525	4,287	3,858	3,316
295	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	14,910	14,910	14,126	12,715	10,927	9,024	7,210	5,610	4,276	3,208	2,378	0	0	0	0	1,491	1,491	1,413	1,271	1,093
296	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Other	RET	242,303	242,303	229,562	206,627	177,578	146,648	117,170	91,170	69,489	52,134	38,651	0	0	0	0	24,230	24,230	22,956	20,663	17,758
297	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-BSS	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
298	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Education	RET	33,449	33,449	31,690	28,524	24,514	20,244	16,175	12,586	9,593	7,197	5,336	0	0	0	0	3,345	3,345	3,169	2,852	2,451
299	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	6,143	6,143	5,820	5,239	4,502	3,718	2,971	2,312	1,762	1,322	980	0	0	0	0	614	614	582	524	450
300	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
301	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
302	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Office	RET	46,949	46,949	44,481	40,037	34,408	28,415	22,703	17,665	13,464	10,102	7,489	0	0	0	0	4,695	4,695	4,448	4,004	3,441
303	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	11,195	11,195	10,606	9,547	8,205	6,776	5,414	4,212	3,211	2,409	1,786	0	0	0	0	1,120	1,120	1,061	955	820
304	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Retail	RET	63,654	63,654	60,307	54,281	46,650	38,525	30,781	23,951	18,255	13,696	10,154	0	0	0	0	6,365	6,365	6,031	5,428	4,665
305	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	24,090	24,090	22,823	20,543	17,655	14,580	11,649	9,064	6,909	5,183	3,843	0	0	0	0	2,409	2,409	2,282	2,054	1,765
306	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	7,938	7,938	7,521	6,770	5,818	4,805	3,839	2,987	2,277	1,708	1,266	0	0	0	0	794	794	752	677	582
307	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Other	RET	129,004	129,004	122,221	110,010	94,544	78,077	62,382	48,540	36,996	27,756	20,578	0	0	0	0	12,900	12,900	12,222	11,001	9,454
308	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-BSS	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
309	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Education	RET	6,773	5,412	4,211	3,209	2,408	1,785	0	677	541	421	321	241	179	0	68	54	42	32	24	18
310	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Sales	RET	82	66	51	39	29	22	0	8	7	5	4	3	2	0	1	1	1	0	0	0
311	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Health	RET	5,581	4,459	3,469	2,644	1,984	1,471	0	558	446	347	264	198	147	0	56	45	35	26	20	15
312	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Lodging	RET	4,454	3,559	2,769	2,111	1,584	1,174	0	445	356	277	211	158	117	0	45	36	28	21	16	12
313	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Office	RET	4,613	3,686	2,868	2,186	1,640	1,216	0	461	369	287	219	164	122	0	46	37	29	22	16	12
314	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Service	RET	90	72	56	43	32	24	0	9	7	6	4	3	2	0	1	1	1	0	0	0
315	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Retail	RET	1,522	1,216	946	721	541	401	0	152	122	95	72	54	40	0	15	12	9	7	5	4
316	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Warehouse	RET	3,024	2,416	1,880	1,433	1,075	797	0	302	242	188	143	108	80	0	30	24	19	14	11	8
317	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Assembly	RET	1,148	917	714	544	408	303	0	115	92	71	54	41	30	0	11	9	7	5	4	3
318	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Other	RET	17,929	14,325	11,146	8,495	6,374	4,725	0	1,793	1,432	1,115	850	637	473	0	179	143	111	85	64	47
319	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-BSS	BSS	RET	3,169	2,465	1,879	1,410	1,045	0	0	317	247	188	141	105	0	0	32	25	19	14	10	0
320	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	51,034	48,351	43,520	37,402	30,887	24,679	19,202	14,636	10,980	8,141	5,103	4,835	4,352	3,740	3,089	2,468	1,920	1,464	1,098	814
321	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	5,128	4,858	4,373	3,758	3,104	2,480	1,929	1,471	1,103	818	513	486	437	376	310	248	193	147	110	82
322	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	15,468	14,654	13,190	11,336	9,361	7,480	5,820	4,436	3,328	2,467	1,547	1,465	1,319	1,134	936	748	582	444	333	247
323	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	6,945	6,580	5,922	5,090	4,203	3,358	2,613	1,992	1,494	1,108	695	658	592	509	420	336	261	199	149	111
324	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	100,694	95,399	85,868	73,796	60,942	48,692	37,888	28,877	21,665	16,062	10,069	9,540	8,587	7,380	6,094	4,869	3,789	2,888	2,167	1,606
325	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	9,345	8,853	7,969	6,848	5,656	4,519	3,516	2,680	2,011	1,491	934	885	797	685	566	452	352	268	201	149
326	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	80,155	75,940	68,353	58,744	48,512	38,760	30,160	22,987	17,246	12,786	8,015	7,594	6,835	5,874	4,851	3,876	3,016	2,299	1,725	1,279
327	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	24,459	23,173	20,858	17,926	14,803	11,828	9,203	7,015	5,263	3,902	2,446	2,317	2,086	1,793	1,480	1,183	920	701	526	390
328	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	5,961	5,647	5,083	4,369	3,608	2,882	2,243	1,709	1,283	951	596	565	508	437	361	288	224	171	128	95
329	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	136,661	129,475	116,539	100,155	82,711	66,085	51,421	39,192	29,404	21,800	13,666	12,948	11,654	10,016	8,271	6,608	5,142	3,919	2,940	2,180
330	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	48,171	37,482	28,568	21,433	15,890	0	0	0	0	0	4,817	3,748	2,857	2,143	1,589	0	0	0	0	0
331	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	106,745	101,132	91,028	78,231	64,605	51,619	40,165	30,613	22,967	17,028	0	0	0	0	0	10,675	10,113	9,103	7,823	6,461
332	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	10,725	10,161	9,146	7,860	6,491	5,186	4,036	3,076	2,308	1,711	0	0	0	0	0	1,073	1,016	915	786	649
333	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	32,352	30,651	27,588	23,710	19,580	15,644	12,173	9,278	6,961	5,161	0	0	0	0	0	3,235	3,065	2,759	2,371	1,958
334	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	14,526	13,762	12,387	10,646	8,791	7,024	5,466	4,166	3,125	2,317	0	0	0	0	0	1,453	1,376	1,239	1,065	879
335	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	210,606	199,532	179,597	154,348	127,465	101,842	79,244	60,399	45,314	33,595	0	0	0	0	0	21,061	19,953	17,960	15,435	12,746
336	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	19,545	18,517	16,667	14,324	11,829	9,451	7,354	5,605	4,205	3,118	0	0	0	0	0	1,954	1,852	1,667	1,432	1,183
337	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	167,649	158,833	142,964	122,866	101,465	81,069	63,080	48,079	36,071	26,743	0	0	0	0	0	16,765	15,883	14,296	12,287	10,147
338	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	51,158	48,468	43,626	37,493	30,962	24,738	19,249	14,671	11,007	8,161	0	0	0	0	0	5,116	4,847	4,363	3,749	3,096
339	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	12,467	11,812	10,632	9,137	7,546	6,029	4,691	3,575	2,682	1,989	0	0	0	0	0	1,247	1,181	1,063	914	755
340	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	285,834	270,805	243,748	209,481	172,995	138,220	107,550	81,973	61,500	45,595	0	0	0	0	0	28,583	27,080	24,375	20,948	17,299
341	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	100,752	78,396	59,752	44,829	33,236	0	0	0	0	0	0	0	0	0	0	10,075	7,840	5,975	4,483	3,324
342	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Education	RET	65,775	62,317	56,091	48,205	39,809	31,807	24,749	18,863	14,152	10,492	0	6,578	6,232	5,609	4,821	3,981	3,181	2,475	1,886	1,415
343	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	6,609	6,261	5,636	4,843	4,000	3,196	2,487	1,895	1,422	1,054	0	661	626	564	484	400	320	249	190	142
344	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Health	RET	19,935	18,887	17,000	14,610	12,065	9,640	7,501	5,717	4,289	3,180	0	1,993	1,889	1,700	1,461	1,207	964	750	572	429
345	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Lodging	RET	8,951	8,480	7,633	6,560	5,417	4,328	3,368	2,567	1,926	1,428	0	895	848	763	656	542	433	337	257	193
346	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Office	RET	129,773	122,950	110,666	95,108	78,542	62,754	48,829	37,217	27,922	20,701	0	12,977	12,295	11,067	9,511	7,854	6,275	4,883	3,722	2,792
347	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Service	RET	12,043	11,410	10,270	8,826	7,289	5,824	4,531	3,454	2,591	1,921	0	1,204	1,141	1,027	883	729	582	453	345	259
348	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Retail	RET	103,303	97,871	88,093	75,708	62,522	49,954	38,869	29,626	22,227	16,479	0	10,330	9,787	8,809	7,571	6,252	4,995	3,887	2,963	2,223
349	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	31,523	29,866	26,882	23,102	19,079	15,244	11,861	9,040	6,782	5,028	0	3,152	2,987	2,688	2,310	1,908	1,524	1,186	904	678
350	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Assembly	RET	7,682	7,278	6,551	5,630	4,650	3,715	2,891	2,203	1,653	1,225	0	768	728	655	563	465	371	289	220	165

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
351	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Other	RET	176,128	166,867	150,195	129,080	106,597	85,170	66,271	50,511	37,896	28,095	0	17,613	16,687	15,020	12,908	10,660	8,517	6,627	5,051	3,790
352	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-BSS	BSS	RET	62,083	48,307	36,819	27,623	20,480	0	0	0	0	0	0	6,208	4,831	3,682	2,762	2,048	0	0	0	0
353	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	137,400	130,175	117,169	100,697	83,158	66,442	51,699	39,404	29,563	21,918	13,740	13,017	11,717	10,070	8,316	6,644	5,170	3,940	2,956	2,192
354	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	13,805	13,080	11,773	10,118	8,355	6,676	5,195	3,959	2,970	2,202	1,381	1,308	1,177	1,012	836	668	519	396	297	220
355	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	41,642	39,453	35,511	30,519	25,203	20,137	15,669	11,942	8,960	6,643	4,164	3,945	3,551	3,052	2,520	2,014	1,567	1,194	896	664
356	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	18,697	17,714	15,944	13,703	11,316	9,041	7,035	5,362	4,023	2,983	1,870	1,771	1,594	1,370	1,132	904	704	536	402	298
357	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	271,087	256,832	231,172	198,673	164,069	131,089	102,001	77,743	58,327	43,243	27,109	25,683	23,117	19,867	16,407	13,109	10,200	7,774	5,833	4,324
358	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	25,157	23,835	21,453	18,437	15,226	12,165	9,466	7,215	5,413	4,013	2,516	2,383	2,145	1,844	1,523	1,217	947	721	541	401
359	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	215,793	204,446	184,020	158,149	130,603	104,350	81,195	61,886	46,430	34,423	21,579	20,445	18,402	15,815	13,060	10,435	8,120	6,189	4,643	3,442
360	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	65,849	62,387	56,154	48,259	39,854	31,843	24,777	18,885	14,168	10,504	6,585	6,239	5,615	4,826	3,985	3,184	2,478	1,888	1,417	1,050
361	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	16,048	15,204	13,685	11,761	9,712	7,760	6,038	4,602	3,453	2,560	1,605	1,520	1,368	1,176	971	776	604	460	345	256
362	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	367,918	348,572	313,746	269,638	222,674	177,913	138,435	105,513	79,161	58,689	36,792	34,857	31,375	26,964	22,267	17,791	13,843	10,551	7,916	5,869
363	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	178,351	138,775	105,773	79,356	58,834	0	0	0	0	0	17,835	13,878	10,577	7,936	5,883	0	0	0	0	0
364	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	179,390	169,957	152,977	131,470	108,571	86,747	67,498	51,446	38,597	28,616	0	0	0	0	0	17,939	16,996	15,298	13,147	10,857
365	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	18,025	17,077	15,371	13,210	10,909	8,716	6,782	5,169	3,878	2,875	0	0	0	0	0	1,802	1,708	1,537	1,321	1,091
366	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	54,368	51,510	46,363	39,845	32,905	26,291	20,457	15,592	11,698	8,673	0	0	0	0	0	5,437	5,151	4,636	3,985	3,291
367	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	24,411	23,128	20,817	17,891	14,774	11,805	9,185	7,001	5,252	3,894	0	0	0	0	0	2,441	2,313	2,082	1,789	1,477
368	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	353,933	335,322	301,820	259,389	214,209	171,150	133,173	101,502	76,152	56,458	0	0	0	0	0	35,393	33,532	30,182	25,939	21,421
369	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	32,846	31,119	28,010	24,072	19,879	15,883	12,359	9,420	7,067	5,239	0	0	0	0	0	3,285	3,112	2,801	2,407	1,988
370	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	281,741	266,926	240,257	206,481	170,517	136,241	106,009	80,799	60,619	44,942	0	0	0	0	0	28,174	26,693	24,026	20,648	17,052
371	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	85,973	81,453	73,315	63,008	52,033	41,574	32,349	24,656	18,498	13,714	0	0	0	0	0	8,597	8,145	7,331	6,301	5,203
372	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	20,952	19,850	17,867	15,355	12,681	10,132	7,884	6,009	4,508	3,342	0	0	0	0	0	2,095	1,985	1,787	1,536	1,268
373	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	480,356	455,098	409,629	352,041	290,724	232,285	180,742	137,759	103,353	76,625	0	0	0	0	0	48,036	45,510	40,963	35,204	29,072
374	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	232,856	181,186	138,098	103,607	76,814	0	0	0	0	0	0	0	0	0	0	23,286	18,119	13,810	10,361	7,681
375	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Education	RET	111,314	105,461	94,924	81,579	67,370	53,828	41,884	31,923	23,950	17,756	0	11,131	10,546	9,492	8,158	6,737	5,383	4,188	3,192	2,395
376	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	11,184	10,596	9,538	8,197	6,769	5,408	4,208	3,208	2,406	1,784	0	1,118	1,060	954	820	677	541	421	321	241
377	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Health	RET	33,736	31,962	28,769	24,725	20,418	16,314	12,694	9,675	7,259	5,382	0	3,374	3,196	2,877	2,472	2,042	1,631	1,269	968	726
378	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Lodging	RET	15,148	14,351	12,917	11,101	9,168	7,325	5,700	4,344	3,259	2,416	0	1,515	1,435	1,292	1,110	917	732	570	434	326
379	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Office	RET	219,620	208,072	187,284	160,954	132,920	106,201	82,636	62,984	47,253	35,033	0	21,962	20,807	18,728	16,095	13,292	10,620	8,264	6,298	4,725
380	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Food Service	RET	20,381	19,310	17,380	14,937	12,335	9,856	7,669	5,845	4,385	3,251	0	2,038	1,931	1,738	1,494	1,234	986	767	585	439
381	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Retail	RET	174,824	165,632	149,083	128,124	105,808	84,539	65,780	50,137	37,615	27,887	0	17,482	16,563	14,908	12,812	10,581	8,454	6,578	5,014	3,761
382	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	53,348	50,543	45,493	39,097	32,287	25,797	20,073	15,299	11,478	8,510	0	5,335	5,054	4,549	3,910	3,229	2,580	2,007	1,530	1,148
383	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Assembly	RET	13,001	12,317	11,087	9,528	7,869	6,287	4,892	3,728	2,797	2,074	0	1,300	1,232	1,109	953	787	629	489	373	280
384	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Other	RET	298,068	282,395	254,181	218,447	180,399	144,136	112,153	85,481	64,132	47,547	0	29,807	28,240	25,418	21,845	18,040	14,414	11,215	8,548	6,413
385	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-BSS	BSS	RET	70,647	54,971	41,898	31,434	23,305	0	0	0	0	0	0	7,065	5,497	4,190	3,143	2,330	0	0	0	0
386	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	104,716	99,210	89,298	76,744	63,377	50,637	39,401	30,031	22,531	16,704	10,472	9,921	8,930	7,674	6,338	5,064	3,940	3,003	2,253	1,670
387	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	10,522	9,968	8,972	7,711	6,368	5,088	3,959	3,017	2,264	1,678	1,052	997	897	771	637	509	396	302	226	168
388	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	31,737	30,068	27,064	23,259	19,208	15,347	11,941	9,102	6,828	5,063	3,174	3,007	2,706	2,326	1,921	1,535	1,194	910	683	506
389	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	14,250	13,500	12,152	10,443	8,624	6,891	5,362	4,087	3,066	2,273	1,425	1,350	1,215	1,044	862	689	536	409	307	227
390	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	206,602	195,739	176,183	151,414	125,041	99,906	77,737	59,250	44,452	32,957	20,660	19,574	17,618	15,141	12,504	9,991	7,774	5,925	4,445	3,296
391	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	19,173	18,165	16,350	14,052	11,604	9,272	7,214	5,499	4,125	3,058	1,917	1,817	1,635	1,405	1,160	927	721	550	413	306
392	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	164,461	155,814	140,246	120,530	99,536	79,528	61,881	47,165	35,385	26,234	16,446	15,581	14,025	12,053	9,954	7,953	6,188	4,717	3,539	2,623
393	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	50,186	47,547	42,796	36,780	30,374	24,268	18,883	14,392	10,798	8,005	5,019	4,755	4,280	3,678	3,037	2,427	1,888	1,439	1,080	801
394	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	12,230	11,587	10,430	8,963	7,402	5,914	4,602	3,507	2,631	1,951	1,223	1,159	1,043	896	740	591	460	351	263	195
395	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	280,400	265,656	239,114	205,498	169,706	135,592	105,505	80,414	60,331	44,729	28,040	26,566	23,911	20,550	16,971	13,559	10,550	8,041	6,033	4,473
396	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	80,703	62,795	47,862	35,908	26,622	0	0	0	0	0	8,070	6,280	4,786	3,591	2,662	0	0	0	0	0
397	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	224,987	213,157	191,860	164,887	136,168	108,796	84,655	64,523	48,408	35,889	0	0	0	0	0	22,499	21,316	19,186	16,489	13,617
398	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	22,606	21,417	19,277	16,567	13,682	10,932	8,506	6,483	4,864	3,606	0	0	0	0	0	2,261	2,142	1,928	1,657	1,368
399	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	68,188	64,602	58,148	49,973	41,269	32,973	25,657	19,555	14,671	10,877	0	0	0	0	0	6,819	6,460	5,815	4,997	4,127
400	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	30,616	29,006	26,108	22,438	18,530	14,805	11,520	8,780	6,587	4,884	0	0	0	0	0	3,062	2,901	2,611	2,244	1,853
401	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	443,895	420,554	378,536	325,320	268,657	214,653	167,022	127,302	95,508	70,809	0	0	0	0	0	44,389	42,055	37,854	32,532	26,866
402	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	41,195	39,028	35,129	30,190	24,932	19,920	15,500	11,814	8,863	6,571	0	0	0	0	0	4,119	3,903	3,513	3,019	2,493
403	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	353,353	334,773	301,326	258,964	213,859	170,870	132,955	101,336	76,027	56,366	0	0	0	0	0	35,335	33,477	30,133	25,896	21,386
404	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	107,826	102,156	91,950	79,023	65,259	52,141	40,571	30,923	23,200	17,200	0	0	0	0	0	10,783	10,216	9,195	7,902	6,526
405	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	26,278	24,896	22,408	19,258	15,904	12,707	9,887	7,536	5,654	4,192	0	0	0	0	0	2,628	2,490	2,241	1,926	1,590
406	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	602,453	570,775	513,748	441,523	364,620	291,327	226,682	172,774	129,623	96,101	0	0	0	0	0	60,245	57,077	51,375	44,152	36,462
407	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	173,394	134,918	102,833	77,150	57,198	0	0	0	0	0	0	0	0	0	0	17,339	13,492	10,283	7,715	5,720
408	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Education	RET	181,257	171,726	154,569	132,839	109,702	87,650	68,201	51,982	38,999	28,914	0	18,126	17,173	15,457	13,284	10,970	8,765	6,820	5,198	3,900
409	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	18,212	17,255	15,531	13,347	11,022	8,807	6,853	5,223	3,919	2,905	0	1,821	1,725	1,553	1,335	1,102	881	685	522	392
410	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Health	RET	54,934	52,046	46,846	40,260	33,248	26,564	20,670	15,754	11,820	8,763	0	5,493	5,205	4,685	4,026	3,325	2,656	2,067	1,575	1,182
411	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Lodging	RET	24,666	23,369	21,034	18,077	14,928	11,927	9,281	7,074	5,307	3,935	0	2,467	2,337	2,103	1,808	1,493	1,193	928	707	531
412	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Office	RET	357,617	338,813	304,962	262,089	216,439	172,932	134,559	102,559	76,944	57,046	0	35,762	33,881	30,496	26,209	21,644	17,293	13,456	10,256	7,694
413	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Service	RET	33,188	31,443	28,301	24,322	20,086	16,049	12,487	9,518	7,141	5,294	0	3,319	3,144	2,830	2,432	2,009	1,605	1,249	952	714
414	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Retail	RET	284,673	269,705	242,758	208,630	172,292	137,659	107,113	81,640	61,250	45,410	0	28,467	26,970	24,276	20,863	17,229	13,766	10,711	8,164	6,125
415	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	86,868	82,301	74,078	63,664	52,575	42,007	32,686	24,912	18,690	13,857	0	8,687	8,230	7,408	6,366	5,257	4,201	3,269	2,491	1,869
416	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Assembly	RET	21,170	20,057	18,053	15,515	12,813	10,237	7,966	6,071	4,555	3,377	0	2,117	2,006	1,805	1,552	1,281	1,024	797	607	455
417	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Other	RET	485,357	459,836	413,893	355,706	293,751	234,703	182,623	139,193	104,429	77,423	0	48,536	45,984	41,389	35,571	29,375	23,470	18,262	13,919	10,443
418	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-BSS	BSS	RET	139,692	108,695	82,846	62,155	46,081	0	0	0	0	0	0	13,969	10,869	8,285	6,215	4,608	0	0	0	0
419	Lighting_Int	LED Specialty Lamp	Biz-Standard	Education	RET	12,260	12,260	11,615	10,455	8,985	7,420	5,928	4,613	3,516	2,638	3,182	1,226	1,162	1,045	898	742	593	461	352	264
420	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Sales	RET	2,219	2,219	2,102	1,892	1,626	1,343	1,073	835	636	477	576	222	210	189	163	134	107	83	64	48

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
421	Lighting_Int	LED Specialty Lamp	Biz-Standard	Health	RET	10,874	10,874	10,303	9,273	7,970	6,581	5,259	4,092	3,119	2,340	2,822	1,087	1,030	927	797	658	526	409	312	234
422	Lighting_Int	LED Specialty Lamp	Biz-Standard	Lodging	RET	23,238	23,238	22,016	19,816	17,031	14,064	11,237	8,744	6,664	5,000	6,031	2,324	2,202	1,982	1,703	1,406	1,124	874	666	500
423	Lighting_Int	LED Specialty Lamp	Biz-Standard	Office	RET	28,949	28,949	27,426	24,686	21,216	17,520	13,999	10,892	8,302	6,229	7,513	2,895	2,743	2,469	2,122	1,752	1,400	1,089	830	623
424	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Service	RET	4,044	4,044	3,831	3,448	2,964	2,447	1,955	1,522	1,160	870	1,049	404	383	345	296	245	196	152	116	87
425	Lighting_Int	LED Specialty Lamp	Biz-Standard	Retail	RET	52,654	52,654	49,885	44,901	38,589	31,867	25,462	19,812	15,100	11,329	13,665	5,265	4,989	4,490	3,859	3,187	2,546	1,981	1,510	1,133
426	Lighting_Int	LED Specialty Lamp	Biz-Standard	Warehouse	RET	5,281	5,281	5,003	4,503	3,870	3,196	2,554	1,987	1,514	1,136	1,370	528	500	450	387	320	255	199	151	114
427	Lighting_Int	LED Specialty Lamp	Biz-Standard	Assembly	RET	4,025	4,025	3,813	3,432	2,950	2,436	1,946	1,514	1,154	866	1,045	402	381	343	295	244	195	151	115	87
428	Lighting_Int	LED Specialty Lamp	Biz-Standard	Other	RET	71,335	71,335	67,584	60,831	52,279	43,174	34,495	26,841	20,458	15,348	18,513	7,133	6,758	6,083	5,228	4,317	3,450	2,684	2,046	1,535
429	Lighting_Int	LED Specialty Lamp	Biz-BSS	BSS	RET	8,317	6,472	4,933	3,701	2,744	0	0	0	0	0	832	647	493	370	274	0	0	0	0	0
430	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Education	RET	134,982	159,962	182,246	198,472	205,662	202,278	188,872	167,894	142,798	116,934	93,042	72,173	54,876	41,094	30,423	11,535	13,972	16,261	18,070	19,075
431	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Sales	RET	15,860	18,812	21,452	23,382	24,249	23,869	22,302	19,838	16,881	13,830	11,006	8,539	6,494	4,864	3,601	1,365	1,654	1,925	2,139	2,258
432	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Health	RET	44,074	52,475	60,064	65,705	68,371	67,502	63,241	56,380	48,069	39,440	31,415	24,383	18,548	13,895	10,290	3,902	4,726	5,500	6,111	6,450
433	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Lodging	RET	39,462	47,380	54,681	60,288	63,192	62,800	59,178	53,022	45,394	37,372	29,815	23,171	17,644	13,228	9,802	3,718	4,502	5,239	5,820	6,143
434	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Office	RET	262,802	311,481	354,934	386,610	400,702	394,192	368,136	327,305	278,422	228,022	181,461	140,768	107,036	80,156	59,344	22,501	27,253	31,719	35,246	37,208
435	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Service	RET	28,901	34,279	39,088	42,603	44,182	43,488	40,633	36,142	30,756	25,196	20,051	15,557	11,831	8,861	6,561	2,487	3,013	3,506	3,896	4,113
436	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Retail	RET	252,691	300,274	343,041	374,579	389,132	383,625	358,946	319,660	272,296	223,259	177,752	137,951	104,931	78,600	58,204	22,070	26,729	31,107	34,565	36,487
437	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Warehouse	RET	67,682	80,216	91,406	99,567	103,206	101,544	94,848	84,344	71,759	58,778	46,777	36,294	27,601	20,671	15,305	5,803	7,029	8,180	9,090	9,596
438	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Assembly	RET	20,351	24,188	27,636	30,177	31,349	30,904	28,914	25,748	21,932	17,981	14,313	11,108	8,449	6,328	4,686	1,777	2,152	2,505	2,783	2,938
439	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Other	RET	420,427	499,344	570,183	622,312	646,210	636,817	595,655	530,313	451,633	370,230	294,732	228,727	173,972	130,313	96,496	36,588	44,314	51,572	57,305	60,493
440	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	BSS	RET	90,555	107,670	123,208	134,802	140,297	138,932	130,418	116,406	99,310	81,507	64,846	50,284	38,223	28,617	21,183	8,030	9,725	11,316	12,572	13,270
441	Lighting_Int	Lighting Power Density	Biz-Custom	Education	RET	73,656	88,206	101,603	111,896	117,247	116,561	109,926	98,597	84,512	69,655	55,653	43,304	33,006	24,762	18,359	6,965	8,435	9,814	10,904	11,509
442	Lighting_Int	Lighting Power Density	Biz-Custom	Food Sales	RET	5,800	6,955	8,021	8,843	9,274	9,226	8,706	7,812	6,698	5,522	4,412	3,433	2,617	1,963	1,455	552	669	778	864	912
443	Lighting_Int	Lighting Power Density	Biz-Custom	Health	RET	23,869	28,621	33,008	36,389	38,163	37,966	35,825	32,146	27,563	22,723	18,155	14,127	10,767	8,078	5,989	2,272	2,752	3,202	3,557	3,754
444	Lighting_Int	Lighting Power Density	Biz-Custom	Lodging	RET	8,333	10,040	11,630	12,871	13,542	13,507	12,771	11,477	9,853	8,130	6,495	5,054	3,852	2,890	2,143	813	984	1,145	1,273	1,343
445	Lighting_Int	Lighting Power Density	Biz-Custom	Office	RET	124,850	149,451	172,084	189,453	198,458	197,252	185,991	166,798	142,955	117,815	94,133	73,245	55,826	41,883	31,052	11,782	14,266	16,600	18,443	19,466
446	Lighting_Int	Lighting Power Density	Biz-Custom	Food Service	RET	10,569	12,673	14,616	16,113	16,899	16,812	15,864	14,235	12,205	10,062	8,039	6,255	4,768	3,577	2,652	1,006	1,218	1,418	1,575	1,663
447	Lighting_Int	Lighting Power Density	Biz-Custom	Retail	RET	80,302	96,308	111,088	122,489	128,476	127,828	120,629	108,249	92,819	76,523	61,141	47,574	36,260	27,204	20,169	7,652	9,266	10,782	11,979	12,644
448	Lighting_Int	Lighting Power Density	Biz-Custom	Warehouse	RET	17,478	20,940	24,130	26,584	27,864	27,708	26,136	23,446	20,099	16,567	13,237	10,300	7,850	5,890	4,366	1,657	2,006	2,334	2,593	2,737
449	Lighting_Int	Lighting Power Density	Biz-Custom	Assembly	RET	8,652	10,388	11,993	13,235	13,892	13,830	13,057	11,721	10,053	8,289	6,623	5,153	3,928	2,947	2,185	829	1,004	1,168	1,298	1,370
450	Lighting_Int	Lighting Power Density	Biz-Custom	Other	RET	132,780	159,250	183,692	202,546	212,449	211,379	199,476	179,005	153,491	126,543	101,106	78,671	59,962	44,986	33,352	12,654	15,323	17,830	19,809	20,908
451	Lighting_Int	Lighting Power Density	Biz-Custom	BSS	RET	54,275	65,130	75,258	83,174	87,447	87,447	82,849	74,572	64,088	52,925	42,287	32,903	25,079	18,815	13,949	5,293	6,409	7,457	8,285	8,745
452	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Education	RET	144,202	134,896	120,013	102,097	83,598	66,334	51,336	38,965	29,141	21,555	13,509	12,799	11,520	9,900	8,176	6,532	5,083	3,874	2,907	2,155
453	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Sales	RET	15,968	14,943	13,298	11,315	9,266	7,353	5,691	4,320	3,231	2,390	1,497	1,419	1,277	1,097	906	724	563	429	322	239
454	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Health	RET	38,449	36,072	32,179	27,443	22,518	17,898	13,871	10,540	7,889	5,839	3,660	3,468	3,121	2,682	2,215	1,770	1,377	1,050	788	584
455	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Lodging	RET	17,351	16,357	14,657	12,548	10,329	8,231	6,392	4,864	3,645	2,700	1,693	1,604	1,444	1,241	1,025	819	637	485	364	270
456	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Office	RET	274,422	256,712	228,394	194,304	159,105	126,253	97,711	74,167	55,470	41,030	25,716	24,364	21,930	18,847	15,564	12,435	9,676	7,375	5,533	4,102
457	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Service	RET	29,098	27,229	24,231	20,618	16,884	13,399	10,370	7,871	5,887	4,354	2,728	2,585	2,327	2,000	1,651	1,319	1,027	782	587	435
458	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Retail	RET	232,703	217,995	194,197	165,394	135,556	107,646	83,357	63,299	47,358	35,038	21,959	20,804	18,726	16,093	13,290	10,619	8,262	6,297	4,725	3,503
459	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Warehouse	RET	73,359	68,609	61,023	51,900	42,486	33,706	26,080	19,793	14,801	10,947	6,860	6,499	5,850	5,027	4,152	3,317	2,581	1,967	1,476	1,094
460	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Assembly	RET	19,010	17,812	15,871	13,518	11,081	8,800	6,814	5,175	3,871	2,864	1,795	1,701	1,531	1,315	1,086	868	675	515	386	286
461	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Other	RET	407,487	381,620	339,862	289,379	237,119	188,262	145,761	110,674	82,793	61,250	38,385	36,366	32,733	28,131	23,232	18,562	14,443	11,008	8,259	6,123
462	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	BSS	RET	98,267	92,260	82,467	70,502	57,995	46,337	36,055	27,481	20,617	15,285	9,582	9,078	8,171	7,023	5,799	4,634	3,605	2,748	2,062	1,529
463	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Education	RET	324,576	303,629	270,130	229,803	188,165	149,308	115,548	87,703	65,593	48,516	30,406	28,807	25,929	22,284	18,403	14,703	11,441	8,720	6,542	4,850
464	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Sales	RET	35,942	33,634	29,931	25,468	20,857	16,551	12,810	9,723	7,272	5,379	3,371	3,193	2,874	2,470	2,040	1,630	1,268	967	725	538
465	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Health	RET	86,543	81,191	72,431	61,769	50,683	40,287	31,221	23,723	17,757	13,142	8,239	7,805	7,026	6,038	4,986	3,984	3,100	2,363	1,773	1,314
466	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Lodging	RET	39,054	36,817	32,990	28,242	23,249	18,527	14,387	10,949	8,205	6,078	3,810	3,610	3,249	2,792	2,306	1,842	1,434	1,093	820	608
467	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Office	RET	617,679	577,818	514,078	437,347	358,119	284,176	219,931	166,937	124,854	92,351	57,883	54,839	49,360	42,421	35,032	27,990	21,779	16,600	12,454	9,233
468	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Service	RET	65,495	61,289	54,541	46,407	38,003	30,158	23,340	17,716	13,250	9,801	6,141	5,818	5,237	4,501	3,717	2,970	2,311	1,761	1,321	980
469	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Retail	RET	523,778	490,672	437,106	372,276	305,115	242,294	187,624	142,477	106,595	78,864	49,426	46,827	42,148	36,223	29,914	23,901	18,597	14,175	10,634	7,884
470	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Warehouse	RET	165,120	154,427	137,354	116,819	95,630	75,866	58,702	44,550	33,315	24,640	15,441	14,629	13,167	11,316	9,345	7,467	5,810	4,428	3,322	2,463
471	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Assembly	RET	42,787	40,092	35,722	30,428	24,940	19,806	15,338	11,647	8,714	6,447	4,040	3,828	3,445	2,961	2,445	1,954	1,520	1,159	869	644
472	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Other	RET	917,189	858,965	764,975	651,346	533,717	423,747	328,085	249,109	186,354	137,865	86,398	81,855	73,677	63,319	52,290	41,779	32,509	24,778	18,589	13,782
473	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	BSS	RET	221,183	207,663	185,619	158,688	130,537	104,297	81,154	61,854	46,406	34,405	21,568	20,434	18,393	15,807	13,054	10,430	8,115	6,185	4,641	3,441
474	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
475	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
476	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
477	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
478	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
479	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
480	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
481	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
482	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
483	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
484	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
485	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Education	RET	213,861	264,288	316,325	364,344	401,348	420,710	418,435	394,785	354,226	303,715	250,749	200,345	155,889	118,817	89,142	116,175	62,687	75,909	88,326	98,130
486	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Food Sales	RET	23,682	29,276	35,050	40,379	44,486	46,637	46,387	43,767	39,272	33,672	27,796	22,208	17,280	13,171	9,881	12,878	6,949	8,415	9,791	10,878
487	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Health	RET	57,022	70,671	84,817	97,932	108,105	113,517	113,060	106,785	95,893	82,270	67,940	54,283	42,238	32,193	24,153	31,478	16,985	20,567	23,932	26,588
488	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Lodging	RET	25,732	32,047	38,632	44,777	49,588	52,206	52,101	49,286	44,310	38,049	31,421	25,105	19,534	14,889	11,170	14,558	7,855	9,512	11,068	12,297
489	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Office	RET	406,985	502,950	601,990	693,396	763,852	800,735	796,435	751,444	674,262	578,127	477,339	381,387	296,759	226,185	169,695	221,157	119,335	144,504	168,142	186,806
490	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Food Service	RET	43,154	53,348	63,868	73,577	81,060	84,977	84,522	79,748	71,556	61,353	50,646	40,465	31,486	23,998	18,005	23,465	12,661	15,332	17,840	19,820

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
491	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Retail	RET	345,114	427,096	511,856	590,229	650,797	682,721	679,442	641,340	575,654	493,698	407,596	325,663	253,400	193,138	144,901	188,844	101,899	123,391	143,575	159,512
492	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Warehouse	RET	108,797	134,418	160,842	185,211	203,975	213,771	212,579	200,536	179,915	154,247	127,332	101,737	79,162	60,336	45,267	58,995	31,833	38,547	44,853	49,831
493	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Assembly	RET	28,192	34,898	41,831	48,242	53,197	55,809	55,543	52,429	47,059	40,360	33,316	26,619	20,713	15,787	11,844	15,436	8,329	10,086	11,736	13,038
494	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Other	RET	604,330	747,670	895,794	#######	#######	#######	#######	#######	#######	863,047	712,492	569,272	442,952	337,612	253,292	330,107	178,123	215,691	250,975	278,833
495	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	BSS	RET	145,736	180,757	217,362	251,593	278,429	293,882	293,882	278,429	250,611	215,379	177,865	142,112	110,578	84,281	63,231	82,407	44,466	53,845	62,653	69,607
496	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Education	RET	44,687	55,224	66,098	76,132	83,864	87,910	87,434	82,492	74,017	63,463	52,395	41,863	32,574	24,827	18,627	24,275	13,099	15,862	18,456	20,505
497	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Sales	RET	4,948	6,117	7,324	8,437	9,296	9,745	9,693	9,145	8,206	7,036	5,808	4,641	3,611	2,752	2,065	2,691	1,452	1,758	2,046	2,273
498	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Health	RET	11,915	14,767	17,723	20,463	22,589	23,720	23,624	22,313	20,037	17,191	14,196	11,343	8,826	6,727	5,047	6,577	3,549	4,298	5,001	5,556
499	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Lodging	RET	5,377	6,696	8,072	9,356	10,362	10,909	10,887	10,299	9,259	7,950	6,566	5,246	4,082	3,111	2,334	3,042	1,641	1,988	2,313	2,569
500	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Office	RET	85,042	105,094	125,789	144,889	159,611	167,318	166,419	157,018	140,891	120,803	99,743	79,693	62,009	47,263	35,459	46,212	24,936	30,195	35,134	39,034
501	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Service	RET	9,017	11,147	13,346	15,374	16,938	17,756	17,661	16,664	14,952	12,820	10,583	8,455	6,579	5,015	3,762	4,903	2,646	3,204	3,728	4,142
502	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Retail	RET	72,113	89,244	106,955	123,332	135,988	142,658	141,973	134,011	120,286	103,161	85,169	68,049	52,949	40,357	30,278	39,460	21,292	25,783	30,001	33,331
503	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Warehouse	RET	22,734	28,087	33,609	38,701	42,622	44,669	44,419	41,903	37,594	32,231	26,607	21,258	16,541	12,608	9,459	12,327	6,652	8,055	9,372	10,413
504	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Assembly	RET	5,891	7,292	8,741	10,080	11,116	11,662	11,606	10,955	9,833	8,433	6,962	5,562	4,328	3,299	2,475	3,225	1,740	2,107	2,452	2,724
505	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Other	RET	126,278	156,230	187,181	215,785	237,874	249,495	248,258	234,308	210,290	180,339	148,879	118,952	92,557	70,546	52,927	68,978	37,220	45,070	52,443	58,264
506	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	BSS	RET	30,452	37,770	45,419	52,572	58,179	61,408	61,408	58,179	52,367	45,005	37,166	29,695	23,106	17,611	13,213	17,219	9,291	11,251	13,092	14,545
507	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
508	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
509	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
510	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
511	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
512	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
513	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
514	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
515	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
516	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
517	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
518	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Education	ROB	6,683	8,521	10,640	12,979	15,435	17,882	20,194	22,271	24,054	25,525	24,820	25,210	25,288	25,115	24,764	24,015	23,306	22,667	22,118	21,665
519	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Sales	ROB	1,033	1,317	1,644	2,005	2,385	2,763	3,120	3,441	3,717	3,944	3,835	3,895	3,907	3,881	3,827	3,711	3,601	3,503	3,418	3,348
520	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Health	ROB	2,082	2,655	3,315	4,044	4,809	5,571	6,291	6,938	7,494	7,952	7,733	7,854	7,878	7,825	7,715	7,482	7,261	7,062	6,891	6,750
521	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Lodging	ROB	1,015	1,295	1,617	1,972	2,345	2,717	3,068	3,384	3,655	3,878	3,771	3,831	3,842	3,816	3,763	3,649	3,541	3,444	3,361	3,292
522	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Office	ROB	19,032	24,265	30,301	36,961	43,955	50,923	57,507	63,422	68,499	72,688	70,681	71,793	72,013	71,522	70,523	68,390	66,369	64,550	62,987	61,696
523	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Service	ROB	802	1,022	1,276	1,557	1,851	2,145	2,422	2,671	2,885	3,061	2,977	3,024	3,033	3,012	2,970	2,880	2,795	2,719	2,653	2,598
524	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Retail	ROB	14,028	17,885	22,334	27,243	32,398	37,534	42,388	46,748	50,490	53,577	52,098	52,917	53,079	52,717	51,981	50,409	48,919	47,579	46,427	45,475
525	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Warehouse	ROB	9,675	12,336	15,404	18,790	22,346	25,888	29,235	32,243	34,824	36,953	35,933	36,498	36,610	36,360	35,852	34,768	33,741	32,816	32,021	31,365
526	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Assembly	ROB	3,506	4,470	5,582	6,809	8,097	9,381	10,594	11,683	12,618	13,390	13,020	13,225	13,266	13,175	12,991	12,598	12,226	11,891	11,603	11,365
527	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Other	ROB	19,543	24,916	31,114	37,954	45,136	52,291	59,052	65,126	70,339	74,640	72,580	73,721	73,947	73,443	72,417	70,227	68,152	66,284	64,679	63,354
528	Compressed Air	Efficient Air Compressors (VSD)	Biz-BSS	BSS	ROB	8,655	8,796	8,885	8,941	8,885	8,841	8,807	8,780	8,761	8,746	6,270	6,206	6,158	6,122	6,122	6,122	6,122	6,122	6,122	6,122
529	Compressed Air	Efficient Air Nozzles	Biz-Standard	Education	RET	6,696	6,621	6,205	5,529	4,708	3,854	3,055	2,360	1,786	1,331	983	0	0	0	0	4,246	4,240	4,012	3,608	3,099
530	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Sales	RET	1,035	1,023	959	854	727	596	472	365	276	206	152	0	0	0	0	656	655	620	558	479
531	Compressed Air	Efficient Air Nozzles	Biz-Standard	Health	RET	2,086	2,063	1,933	1,722	1,467	1,201	952	735	556	415	306	0	0	0	0	1,323	1,321	1,250	1,124	965
532	Compressed Air	Efficient Air Nozzles	Biz-Standard	Lodging	RET	1,045	1,033	968	863	735	601	477	368	279	208	153	0	0	0	0	662	661	625	562	483
533	Compressed Air	Efficient Air Nozzles	Biz-Standard	Office	RET	19,588	19,366	18,148	16,170	13,768	11,272	8,934	6,899	5,221	3,891	2,872	0	0	0	0	12,405	12,385	11,719	10,539	9,051
534	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Service	RET	825	816	764	681	580	475	376	291	220	164	121	0	0	0	0	522	522	494	444	381
535	Compressed Air	Efficient Air Nozzles	Biz-Standard	Retail	RET	14,438	14,274	13,377	11,919	10,148	8,308	6,585	5,085	3,848	2,868	2,117	0	0	0	0	9,143	9,129	8,638	7,768	6,671
536	Compressed Air	Efficient Air Nozzles	Biz-Standard	Warehouse	RET	9,958	9,845	9,226	8,220	6,999	5,730	4,542	3,507	2,654	1,978	1,460	0	0	0	0	6,306	6,296	5,958	5,358	4,601
537	Compressed Air	Efficient Air Nozzles	Biz-Standard	Assembly	RET	3,608	3,567	3,343	2,979	2,536	2,076	1,646	1,271	962	717	529	0	0	0	0	2,285	2,281	2,159	1,941	1,667
538	Compressed Air	Efficient Air Nozzles	Biz-Standard	Other	RET	20,114	19,886	18,636	16,604	14,137	11,574	9,174	7,084	5,361	3,995	2,949	0	0	0	0	12,738	12,717	12,034	10,822	9,294
539	Compressed Air	Efficient Air Nozzles	Biz-BSS	BSS	RET	9,414	7,092	5,262	3,862	0	0	0	0	0	0	0	0	0	0	0	6,066	4,621	3,465	2,568	0
540	Compressed Air	AODD Pump Controls	Biz-Custom	Education	RET	4,188	6,217	6,841	7,266	7,938	9,868	11,877	13,747	15,200	15,973	18,683	19,178	18,095	16,489	14,937	14,341	14,044	13,946	13,853	13,551
541	Compressed Air	AODD Pump Controls	Biz-Custom	Food Sales	RET	647	961	1,057	1,123	1,227	1,525	1,835	2,124	2,349	2,468	2,887	2,963	2,796	2,548	2,308	2,216	2,170	2,155	2,141	2,094
542	Compressed Air	AODD Pump Controls	Biz-Custom	Health	RET	1,305	1,937	2,131	2,264	2,473	3,074	3,700	4,283	4,735	4,976	5,821	5,975	5,638	5,137	4,653	4,468	4,375	4,345	4,316	4,222
543	Compressed Air	AODD Pump Controls	Biz-Custom	Lodging	RET	684	1,016	1,118	1,187	1,297	1,613	1,941	2,246	2,484	2,610	3,053	3,134	2,957	2,695	2,441	2,344	2,295	2,279	2,264	2,214
544	Compressed Air	AODD Pump Controls	Biz-Custom	Office	RET	12,826	19,041	20,953	22,253	24,313	30,221	36,376	42,102	46,551	48,921	57,221	58,738	55,420	50,501	45,746	43,923	43,013	42,712	42,429	41,502
545	Compressed Air	AODD Pump Controls	Biz-Custom	Food Service	RET	540	802	882	937	1,024	1,273	1,532	1,773	1,961	2,060	2,410	2,474	2,334	2,127	1,927	1,850	1,811	1,799	1,787	1,748
546	Compressed Air	AODD Pump Controls	Biz-Custom	Retail	RET	9,454	14,035	15,444	16,402	17,920	22,276	26,812	31,032	34,312	36,059	42,177	43,294	40,849	37,223	33,719	32,375	31,704	31,482	31,273	30,590
547	Compressed Air	AODD Pump Controls	Biz-Custom	Warehouse	RET	6,520	9,680	10,652	11,313	12,360	15,364	18,493	21,403	23,666	24,870	29,090	29,861	28,174	25,674	23,256	22,330	21,867	21,714	21,570	21,099
548	Compressed Air	AODD Pump Controls	Biz-Custom	Assembly	RET	2,363	3,508	3,860	4,099	4,479	5,567	6,701	7,756	8,575	9,012	10,541	10,820	10,209	9,303	8,427	8,091	7,923	7,868	7,816	7,645
549	Compressed Air	AODD Pump Controls	Biz-Custom	Other	RET	13,170	19,553	21,516	22,851	24,966	31,033	37,353	43,232	47,802	50,235	58,758	60,315	56,908	51,858	46,975	45,103	44,168	43,859	43,568	42,617
550	Compressed Air	AODD Pump Controls	Biz-Custom	BSS	RET	2,803	4,160	4,578	4,863	5,317	6,614	7,969	9,236	10,227	10,766	12,619	12,980	12,270	11,200	10,160	9,767	9,574	9,514	9,457	9,254
551	Compressed Air	No Loss Condensate Drain	Biz-Standard	Education	RET	3,173	3,929	4,708	5,426	5,977	6,259	6,213	5,847	5,229	4,466	3,674	2,925	2,269	3,759	3,831	4,025	3,567	3,958	4,173	4,171
552	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Sales	RET	490	607	727	838	923	967	960	903	808	690	568	452	351	581	592	622	551	612	645	644
553	Compressed Air	No Loss Condensate Drain	Biz-Standard	Health	RET	989	1,224	1,467	1,690	1,862	1,950	1,936	1,822	1,629	1,391	1,145	911	707	1,171	1,193	1,254	1,111	1,233	1,300	1,299
554	Compressed Air	No Loss Condensate Drain	Biz-Standard	Lodging	RET	482	597	715	824	908	951	944	888	794	678	558	444	344	570	581	611	541	600	633	633
555	Compressed Air	No Loss Condensate Drain	Biz-Standard	Office	RET	9,037	11,187	13,406	15,449	17,016	17,817	17,686	16,641	14,881	12,709	10,454	8,322	6,453	10,691	10,894	11,445	10,142	11,254	11,867	11,859
556	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Service	RET	381	471	565	651	717	750	745	701	627	535	440	350	272	450	459	482	427	474	500	499
557	Compressed Air	No Loss Condensate Drain	Biz-Standard	Retail	RET	6,661	8,246	9,881	11,387	12,542	13,133	13,036	12,266	10,968	9,368	7,706	6,134	4,756	7,880	8,030	8,436	7,475	8,295	8,747	8,741
558	Compressed Air	No Loss Condensate Drain	Biz-Standard	Warehouse	RET	4,594	5,687	6,815	7,854	8,650	9,058	8,991	8,460	7,565	6,461	5,315	4,231	3,280	5,435	5,538	5,819	5,156	5,721	6,033	6,029
559	Compressed Air	No Loss Condensate Drain	Biz-Standard	Assembly	RET	1,665	2,061	2,469	2,846	3,134	3,282	3,258	3,065	2,741	2,341	1,926	1,533	1,189	1,969	2,007	2,108	1,868	2,073	2,186	2,185
560	Compressed Air	No Loss Condensate Drain	Biz-Standard	Other	RET	9,280	11,487	13,766	15,864	17,473	18,296	18,161	17,088	15,280	13,050	10,735	8,545	6,626	10,978	11,187	11,753	10,414	11,556	12,186	12,177

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
561	Compressed Air	No Loss Condensate Drain	Biz-BSS	BSS	RET	3,955	4,736	5,453	6,003	6,284	6,240	5,874	5,258	4,496	3,696	2,948	2,290	1,743	3,876	4,077	3,615	4,014	4,234	4,233	4,009
562	Compressed Air	Compressed Air - Custom	Biz-Custom	Education	RET	38,427	44,178	48,520	50,668	50,175	47,111	42,054	35,864	29,404	23,334	42,726	42,290	41,882	40,856	33,186	31,377	28,199	24,207	19,974	15,949
563	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Sales	RET	5,938	6,826	7,497	7,829	7,753	7,280	6,498	5,542	4,543	3,606	6,602	6,535	6,472	6,313	5,128	4,848	4,357	3,740	3,086	2,464
564	Compressed Air	Compressed Air - Custom	Biz-Custom	Health	RET	11,972	13,764	15,116	15,786	15,632	14,677	13,102	11,173	9,161	7,270	13,311	13,176	13,048	12,729	10,339	9,775	8,785	7,542	6,223	4,969
565	Compressed Air	Compressed Air - Custom	Biz-Custom	Lodging	RET	5,839	6,712	7,371	7,697	7,621	7,155	6,387	5,446	4,464	3,542	6,485	6,418	6,356	6,199	5,035	4,760	4,278	3,672	3,030	2,419
566	Compressed Air	Compressed Air - Custom	Biz-Custom	Office	RET	109,424	125,795	138,148	144,253	142,838	134,104	119,695	102,064	83,669	66,390	121,545	120,290	119,117	116,188	94,368	89,217	80,177	68,824	56,787	45,343
567	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Service	RET	4,608	5,298	5,818	6,075	6,016	5,648	5,041	4,298	3,524	2,796	5,119	5,066	5,017	4,893	3,974	3,757	3,377	2,899	2,392	1,910
568	Compressed Air	Compressed Air - Custom	Biz-Custom	Retail	RET	80,655	92,721	101,827	106,326	105,284	98,846	88,225	75,230	61,671	48,935	89,588	88,664	87,799	85,640	69,557	65,760	59,097	50,729	41,857	33,422
569	Compressed Air	Compressed Air - Custom	Biz-Custom	Warehouse	RET	55,629	63,951	70,231	73,335	72,616	68,175	60,850	51,887	42,536	33,751	61,791	61,153	60,556	59,067	47,974	45,356	40,760	34,989	28,869	23,052
570	Compressed Air	Compressed Air - Custom	Biz-Custom	Assembly	RET	20,157	23,173	25,449	26,573	26,313	24,704	22,049	18,802	15,413	12,230	22,390	22,159	21,943	21,403	17,384	16,435	14,770	12,678	10,461	8,353
571	Compressed Air	Compressed Air - Custom	Biz-Custom	Other	RET	112,364	129,173	141,859	148,128	146,675	137,706	122,910	104,806	85,917	68,173	124,809	123,521	122,316	119,308	96,902	91,613	82,331	70,673	58,312	46,561
572	Compressed Air	Compressed Air - Custom	Biz-Custom	BSS	RET	23,898	27,462	30,157	31,499	31,220	29,344	26,228	22,399	18,394	14,623	26,833	26,612	26,404	25,801	20,988	19,869	17,874	15,354	12,675	10,125
573	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Education	RET	21	24	29	36	41	61	65	69	71	71	78	75	72	68	63	65	60	50	48	44
574	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Sales	RET	3	4	5	6	6	9	10	11	11	11	12	12	11	11	10	10	9	8	7	7
575	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Health	RET	7	7	9	11	13	19	20	22	22	22	24	23	22	21	20	20	19	16	15	14
576	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Lodging	RET	3	4	5	6	7	10	11	11	12	11	13	12	12	11	10	11	10	8	8	7
577	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Office	RET	65	71	89	108	126	185	198	210	216	214	238	228	219	207	192	198	183	153	145	135
578	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Service	RET	3	3	4	5	5	8	8	9	9	9	10	10	9	9	8	8	8	6	6	6
579	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Retail	RET	48	53	66	80	93	137	146	155	159	158	176	168	161	152	142	146	135	113	107	99
580	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Warehouse	RET	33	36	45	55	64	94	101	107	110	109	121	116	111	105	98	101	93	78	74	68
581	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Assembly	RET	12	13	16	20	23	34	36	39	40	39	44	42	40	38	35	37	34	28	27	25
582	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Other	RET	67	73	92	111	129	190	203	216	222	220	245	234	225	212	198	204	188	157	149	138
583	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	BSS	RET	14	16	20	24	28	41	43	46	47	47	52	50	48	45	42	43	40	33	32	29
584	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Education	RET	101,043	95,730	156,896	141,063	170,981	147,606	157,706	132,302	132,135	108,729	92,494	76,111	64,746	53,277	45,322	37,294	31,726	26,106	22,208	18,274
585	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Sales	RET	15,613	14,792	24,244	21,797	26,420	22,808	24,369	20,443	20,417	16,801	14,292	11,761	10,005	8,232	7,003	5,763	4,902	4,034	3,432	2,824
586	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Health	RET	31,480	29,825	48,881	43,948	53,269	45,986	49,133	41,218	41,166	33,875	28,817	23,712	20,172	16,599	14,120	11,619	9,884	8,133	6,919	5,693
587	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Lodging	RET	15,353	14,546	23,840	21,434	25,980	22,428	23,963	20,103	20,078	16,521	14,054	11,565	9,838	8,095	6,887	5,667	4,821	3,967	3,374	2,777
588	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Office	RET	287,748	272,618	446,804	401,716	486,915	420,347	449,111	376,764	376,289	309,636	263,402	216,745	184,382	151,722	129,067	106,205	90,347	74,344	63,243	52,040
589	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Service	RET	12,119	11,481	18,817	16,918	20,507	17,703	18,914	15,868	15,848	13,040	11,093	9,128	7,765	6,390	5,436	4,473	3,805	3,131	2,663	2,192
590	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Retail	RET	212,094	200,942	329,332	296,098	358,897	309,830	331,032	277,707	277,356	228,227	194,149	159,759	135,904	111,831	95,133	78,282	66,593	54,797	46,615	38,358
591	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Warehouse	RET	146,285	138,593	227,145	204,224	247,537	213,695	228,318	191,539	191,297	157,412	133,908	110,188	93,736	77,132	65,615	53,992	45,930	37,795	32,151	26,456
592	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Assembly	RET	53,007	50,220	82,307	74,001	89,696	77,433	82,732	69,405	69,317	57,039	48,522	39,927	33,965	27,949	23,776	19,564	16,643	13,695	11,650	9,587
593	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Other	RET	295,477	279,940	458,805	412,506	499,994	431,637	461,174	386,884	386,396	317,953	270,477	222,567	189,334	155,797	132,534	109,058	92,774	76,340	64,942	53,438
594	Compressed Air	Compressed Air Leak Repair	Biz-Custom	BSS	RET	62,893	59,586	97,658	87,803	106,425	91,875	98,162	82,349	82,246	67,677	57,572	47,374	40,300	33,162	28,210	23,213	19,747	16,249	13,823	11,374
595	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
596	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
597	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
598	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
599	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
600	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
602	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
603	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
604	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
605	Cooling	Air Conditioner - (<65kBTUh)	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
606	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
607	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
608	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
609	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
611	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
612	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
613	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
614	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
615	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
616	Cooling	Air Conditioner - (65-135kBTUh)	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
617	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
618	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
619	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
620	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
621	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
622	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
623	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
624	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
625	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
626	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
627	Cooling	Air Conditioner - (135-240kBTUh)	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
628	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
629	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
630	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
631	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
632	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
633	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
634	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
635	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
636	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
637	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
638	Cooling	Air Conditioner - (240-760kBTUh)	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
639	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Education	ROB	192	251	323	406	498	595	693	785	869	940	999	1,047	1,083	1,111	1,133	1,091	1,073	1,052	1,027	999
640	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Sales	ROB	19	25	32	41	50	60	69	79	87	94	100	105	109	111	114	109	108	106	103	100
641	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Health	ROB	123	161	207	260	319	381	444	503	556	602	640	671	694	712	726	699	688	674	658	640
642	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Lodging	ROB	40	52	65	80	95	111	126	139	151	160	168	173	178	181	184	172	168	164	160	155
643	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Office	ROB	376	483	607	744	890	1,035	1,172	1,297	1,404	1,492	1,563	1,618	1,660	1,691	1,714	1,602	1,570	1,533	1,492	1,448
644	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Service	ROB	64	82	103	126	151	175	199	220	238	253	265	274	281	287	291	272	266	260	253	245
645	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Retail	ROB	50	65	82	100	120	139	158	175	189	201	211	218	224	228	231	216	212	207	201	195
646	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Warehouse	ROB	199	255	321	393	470	547	620	685	742	789	826	855	877	894	906	847	830	810	788	765
647	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Assembly	ROB	138	177	222	273	326	379	430	475	515	547	573	593	608	620	628	587	576	562	547	531
648	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Other	ROB	470	603	758	930	1,111	1,292	1,464	1,619	1,753	1,863	1,951	2,020	2,072	2,111	2,140	2,001	1,961	1,914	1,862	1,808
649	Cooling	Air Conditioner - (760kBTUh+)	Biz-BSS	BSS	ROB	115	115	114	114	114	114	114	114	114	114	114	114	114	114	114	80	80	80	80	80
650	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
651	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
652	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
653	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
654	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
655	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
656	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
657	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
658	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
659	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
660	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
661	Cooling	Air Cooled Chiller	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
662	Cooling	Air Cooled Chiller	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
663	Cooling	Air Cooled Chiller	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
664	Cooling	Air Cooled Chiller	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
665	Cooling	Air Cooled Chiller	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
666	Cooling	Air Cooled Chiller	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
667	Cooling	Air Cooled Chiller	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
668	Cooling	Air Cooled Chiller	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
669	Cooling	Air Cooled Chiller	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
670	Cooling	Air Cooled Chiller	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
671	Cooling	Air Cooled Chiller	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
672	Cooling	Water Cooled Chiller	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
673	Cooling	Water Cooled Chiller	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
674	Cooling	Water Cooled Chiller	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
675	Cooling	Water Cooled Chiller	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
676	Cooling	Water Cooled Chiller	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
677	Cooling	Water Cooled Chiller	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
678	Cooling	Water Cooled Chiller	Biz-Standard	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
679	Cooling	Water Cooled Chiller	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
680	Cooling	Water Cooled Chiller	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
681	Cooling	Water Cooled Chiller	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
682	Cooling	Water Cooled Chiller	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
683	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Education	RET	162,875	134,506	107,469	197,634	157,890	123,045	173,795	110,523	86,132	121,657	77,366	60,292	85,160	54,156	42,205	59,612	37,909	29,543	41,728	26,537
684	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Sales	RET	16,286	13,449	10,746	19,761	15,787	12,303	17,378	11,051	8,612	12,164	7,736	6,029	8,515	5,415	4,220	5,961	3,791	2,954	4,172	2,653
685	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Health	RET	104,381	86,201	68,873	126,657	101,186	78,856	111,380	70,830	55,199	77,966	49,581	38,639	54,576	34,707	27,047	38,203	24,295	18,933	26,742	17,006
686	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Lodging	RET	30,650	25,312	20,224	37,191	29,712	23,155	32,705	20,798	16,208	22,894	14,559	11,346	16,026	10,191	7,942	11,218	7,134	5,560	7,853	4,994
687	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Office	RET	287,839	237,705	189,923	349,267	279,029	217,450	307,138	195,320	152,215	214,997	136,724	106,551	150,498	95,707	74,586	105,348	66,995	52,210	73,744	46,896
688	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Service	RET	48,645	40,172	32,097	59,026	47,156	36,749	51,907	33,009	25,725	36,335	23,107	18,007	25,434	16,175	12,605	17,804	11,322	8,824	12,463	7,926
689	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Retail	RET	38,597	31,874	25,467	46,834	37,416	29,159	41,185	26,191	20,411	28,829	18,334	14,288	20,181	12,834	10,001	14,126	8,984	7,001	9,889	6,288
690	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Warehouse	RET	152,022	125,543	100,307	184,465	147,369	114,846	162,214	103,158	80,392	113,550	72,211	56,275	79,485	50,547	39,392	55,640	35,383	27,575	38,948	24,768
691	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Assembly	RET	105,189	86,868	69,406	127,637	101,969	79,466	112,241	71,378	55,626	78,569	49,965	38,938	54,998	34,975	27,257	38,499	24,483	19,080	26,949	17,138
692	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Other	RET	359,712	297,059	237,346	436,479	348,702	271,747	383,830	244,091	190,223	268,681	170,864	133,156	188,077	119,605	93,209	131,654	83,723	65,247	92,158	58,606
693	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	BSS	RET	58,737	48,506	38,756	71,272	56,939	44,373	62,675	39,857	31,061	43,872	27,900	21,743	30,711	19,530	15,220	21,498	13,671	10,654	15,048	9,570
694	Cooling	Chiller Tune-up	Biz-Custom	Education	RET	107,469	88,750	70,910	55,176	42,054	106,779	85,517	49,637	38,623	29,438	74,745	59,862	34,746	27,036	20,607	52,322	41,903	24,322	18,925	14,425
695	Cooling	Chiller Tune-up	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
696	Cooling	Chiller Tune-up	Biz-Custom	Health	RET	64,379	53,165	42,478	33,053	25,192	63,965	51,228	29,735	23,137	17,635	44,776	35,860	20,814	16,196	12,344	31,343	25,102	14,570	11,337	8,641
697	Cooling	Chiller Tune-up	Biz-Custom	Lodging	RET	44,498	36,747	29,361	22,846	17,413	44,212	35,408	20,552	15,992	12,189	30,948	24,786	14,387	11,194	8,532	21,664	17,350	10,071	7,836	5,973
698	Cooling	Chiller Tune-up	Biz-Custom	Office	RET	131,557	108,643	86,804	67,543	51,480	130,713	104,685	60,763	47,280	36,036	91,499	73,279	42,534	33,096	25,225	64,049	51,296	29,774	23,167	17,658
699	Cooling	Chiller Tune-up	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
700	Cooling	Chiller Tune-up	Biz-Custom	Retail	RET	25,944	21,425	17,118	13,320	10,152	25,777	20,644	11,983	9,324	7,107	18,044	14,451	8,388	6,527	4,975	12,631	10,116	5,872	4,569	3,482

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
701	Cooling	Chiller Tune-up	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
702	Cooling	Chiller Tune-up	Biz-Custom	Assembly	RET	70,714	58,397	46,659	36,305	27,671	70,260	56,270	32,661	25,414	19,370	49,182	39,389	22,863	17,790	13,559	34,427	27,572	16,004	12,453	9,491
703	Cooling	Chiller Tune-up	Biz-Custom	Other	RET	193,486	159,785	127,666	99,337	75,714	192,244	153,963	89,366	69,536	53,000	134,571	107,774	62,556	48,675	37,100	94,199	75,442	43,789	34,073	25,970
704	Cooling	Chiller Tune-up	Biz-Custom	BSS	RET	35,842	29,600	23,650	18,402	14,026	35,612	28,521	16,555	12,881	9,818	24,929	19,965	11,588	9,017	6,873	17,450	13,975	8,112	6,312	4,811
705	Cooling	Advanced Rooftop Controls	Biz-Standard	Education	RET	293,163	324,842	342,142	341,575	323,203	290,633	249,595	206,118	164,683	128,138	97,663	73,270	54,320	0	0	203,261	225,819	238,348	238,345	225,809
706	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Sales	RET	29,337	32,530	34,281	34,239	32,408	29,150	25,038	20,677	16,520	12,854	9,797	7,350	5,449	0	0	20,391	22,654	23,911	23,911	22,654
707	Cooling	Advanced Rooftop Controls	Biz-Standard	Health	RET	187,860	208,143	219,214	218,839	207,061	186,189	159,896	132,044	105,499	82,088	62,565	46,938	34,799	0	0	130,213	144,664	152,690	152,688	144,657
708	Cooling	Advanced Rooftop Controls	Biz-Standard	Lodging	RET	55,260	61,317	64,654	64,603	61,169	55,032	47,280	39,044	31,196	24,273	18,501	13,880	10,290	0	0	38,507	42,781	45,155	45,155	42,780
709	Cooling	Advanced Rooftop Controls	Biz-Standard	Office	RET	518,061	574,017	604,567	603,547	571,073	513,516	441,002	364,185	290,974	226,404	172,559	129,459	95,978	0	0	359,143	399,003	421,142	421,138	398,990
710	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Service	RET	87,615	97,135	102,353	102,218	96,746	87,014	74,738	61,720	49,313	38,370	29,245	21,940	16,266	0	0	60,867	67,623	71,375	71,375	67,621
711	Cooling	Advanced Rooftop Controls	Biz-Standard	Retail	RET	69,552	77,141	81,311	81,225	76,892	69,167	59,416	49,067	39,203	30,504	23,249	17,442	12,932	0	0	48,390	53,761	56,744	56,744	53,760
712	Cooling	Advanced Rooftop Controls	Biz-Standard	Warehouse	RET	273,654	303,249	319,421	318,907	301,766	271,364	233,052	192,458	153,769	119,646	91,191	68,414	50,721	0	0	189,794	210,859	222,559	222,557	210,852
713	Cooling	Advanced Rooftop Controls	Biz-Standard	Assembly	RET	189,466	210,062	221,355	221,069	209,238	188,192	161,645	133,489	106,655	82,987	63,251	47,453	35,181	0	0	131,645	146,257	154,372	154,371	146,253
714	Cooling	Advanced Rooftop Controls	Biz-Standard	Other	RET	647,265	717,034	755,075	753,707	713,085	641,169	550,599	454,691	363,286	282,669	215,442	161,631	119,830	0	0	448,392	498,156	525,797	525,790	498,138
715	Cooling	Advanced Rooftop Controls	Biz-BSS	BSS	RET	264,874	250,391	224,975	193,079	159,281	127,162	98,887	75,370	56,546	41,922	0	0	0	0	0	183,962	174,289	156,876	134,822	111,339
716	Cooling	HVAC Occupancy Controls	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
717	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718	Cooling	HVAC Occupancy Controls	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
719	Cooling	HVAC Occupancy Controls	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
720	Cooling	HVAC Occupancy Controls	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
721	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
722	Cooling	HVAC Occupancy Controls	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
723	Cooling	HVAC Occupancy Controls	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
724	Cooling	HVAC Occupancy Controls	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
725	Cooling	HVAC Occupancy Controls	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
726	Cooling	HVAC Occupancy Controls	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
727	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
728	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
729	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
730	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
731	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
732	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
733	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
734	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
735	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
736	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
737	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
738	Cooling	Smart Thermostat	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
739	Cooling	Smart Thermostat	Biz-Custom	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
740	Cooling	Smart Thermostat	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
741	Cooling	Smart Thermostat	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
742	Cooling	Smart Thermostat	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
743	Cooling	Smart Thermostat	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
744	Cooling	Smart Thermostat	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
745	Cooling	Smart Thermostat	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
746	Cooling	Smart Thermostat	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
747	Cooling	Smart Thermostat	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
748	Cooling	Smart Thermostat	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
749	Cooling	Secondary Windows	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
750	Cooling	Secondary Windows	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
751	Cooling	Secondary Windows	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
752	Cooling	Secondary Windows	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
753	Cooling	Secondary Windows	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
754	Cooling	Secondary Windows	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
755	Cooling	Secondary Windows	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
756	Cooling	Secondary Windows	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
757	Cooling	Secondary Windows	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
758	Cooling	Secondary Windows	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
759	Cooling	Secondary Windows	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
760	Cooling	Triple Pane Windows	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
761	Cooling	Triple Pane Windows	Biz-Custom	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
762	Cooling	Triple Pane Windows	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
763	Cooling	Triple Pane Windows	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
764	Cooling	Triple Pane Windows	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
765	Cooling	Triple Pane Windows	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
766	Cooling	Triple Pane Windows	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
767	Cooling	Triple Pane Windows	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
768	Cooling	Triple Pane Windows	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
769	Cooling	Triple Pane Windows	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
770	Cooling	Triple Pane Windows	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
771	Cooling	Energy Recovery Ventilator	Biz-Custom	Education	RET	71,819	78,932	83,688	91,255	113,211	136,041	157,278	173,981	182,998	182,501	172,544	155,061	133,105	109,919	87,821	115,235	104,198	94,912	90,453	76,948
772	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Sales	RET	4,731	5,222	5,558	6,081	7,567	9,116	10,561	11,697	12,315	12,290	11,626	10,453	8,976	7,412	5,922	7,771	7,026	6,400	6,099	5,189
773	Cooling	Energy Recovery Ventilator	Biz-Custom	Health	RET	156,502	171,966	182,286	198,723	246,483	296,131	342,302	378,601	398,181	397,064	375,376	337,324	289,549	239,111	191,042	250,677	226,667	206,469	196,769	167,390
774	Cooling	Energy Recovery Ventilator	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
775	Cooling	Energy Recovery Ventilator	Biz-Custom	Office	RET	516,767	568,166	602,573	657,187	815,421	979,949	#######	#######	#######	#######	#######	#######	958,653	791,663	632,514	829,961	750,469	683,598	651,484	554,216
776	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
777	Cooling	Energy Recovery Ventilator	Biz-Custom	Retail	RET	42,485	46,877	49,890	54,595	67,950	81,883	94,891	105,137	110,730	110,541	104,592	94,050	80,768	66,700	53,291	69,925	63,226	57,591	54,885	46,690
778	Cooling	Energy Recovery Ventilator	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
779	Cooling	Energy Recovery Ventilator	Biz-Custom	Assembly	RET	23,193	25,552	27,155	29,675	36,888	44,404	51,412	56,928	59,927	59,802	56,567	50,854	43,665	36,059	28,810	37,803	34,182	31,136	29,673	25,242
780	Cooling	Energy Recovery Ventilator	Biz-Custom	Other	RET	463,673	509,269	539,589	587,976	728,973	875,464	#######	#######	#######	#######	#######	#######	854,893	705,976	564,053	740,134	669,250	609,619	580,982	494,241
781	Cooling	Energy Recovery Ventilator	Biz-Custom	BSS	RET	80,428	88,321	93,660	102,240	127,059	152,998	177,256	196,429	206,933	206,638	195,771	176,211	151,438	125,061	99,921	131,116	118,560	107,996	102,923	87,557
782	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
783	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Sales	ROB	553	696	856	1,024	1,192	1,351	1,495	1,618	1,720	1,801	1,865	1,913	1,949	1,976	1,976	1,810	1,767	1,719	1,669	1,618
784	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
785	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
786	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Office	ROB	1,995	2,513	3,089	3,696	4,303	4,879	5,396	5,842	6,209	6,503	6,731	6,905	7,036	7,133	7,133	6,534	6,379	6,206	6,024	5,842
787	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Service	ROB	2,797	3,523	4,329	5,181	6,032	6,839	7,565	8,189	8,704	9,115	9,436	9,680	9,863	9,999	9,999	9,160	8,942	8,700	8,445	8,189
788	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Retail	ROB	10,815	13,622	16,741	20,032	23,324	26,442	29,249	31,662	33,654	35,246	36,484	37,428	38,137	38,662	38,662	35,417	34,575	33,640	32,652	31,665
789	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Warehouse	ROB	1,364	1,717	2,111	2,526	2,941	3,334	3,688	3,992	4,243	4,444	4,600	4,719	4,808	4,874	4,874	4,465	4,359	4,241	4,117	3,992
790	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Assembly	ROB	4,245	5,347	6,571	7,863	9,155	10,379	11,480	12,427	13,209	13,834	14,320	14,691	14,969	15,175	15,175	13,901	13,571	13,204	12,816	12,428
791	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
792	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-BSS	BSS	ROB	310	361	409	453	490	521	546	565	580	591	599	599	599	599	599	506	490	476	463	452
793	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Education	ROB	8,587	10,815	13,291	15,905	18,518	20,994	23,223	25,138	26,720	27,984	28,967	29,716	30,279	30,696	30,696	28,120	27,451	26,708	25,924	25,140
794	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Sales	ROB	307	386	475	568	661	750	829	898	954	1,000	1,035	1,061	1,082	1,096	1,096	1,004	981	954	926	898
795	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Health	ROB	255	322	395	473	551	624	691	748	795	832	862	884	901	913	913	836	817	794	771	748
796	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Lodging	ROB	563	709	872	1,043	1,214	1,377	1,523	1,648	1,752	1,835	1,899	1,949	1,985	2,013	2,013	1,844	1,800	1,751	1,700	1,648
797	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Office	ROB	6,477	8,158	10,026	11,997	13,968	15,836	17,517	18,962	20,155	21,108	21,850	22,415	22,840	23,154	23,154	21,211	20,707	20,146	19,555	18,963
798	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Service	ROB	2,328	2,932	3,604	4,312	5,021	5,692	6,296	6,815	7,244	7,587	7,854	8,057	8,209	8,322	8,322	7,624	7,443	7,241	7,029	6,816
799	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Retail	ROB	8,101	10,204	12,540	15,006	17,472	19,808	21,910	23,718	25,210	26,402	27,330	28,037	28,568	28,961	28,961	26,531	25,900	25,199	24,459	23,720
800	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Warehouse	ROB	730	919	1,129	1,351	1,573	1,784	1,973	2,136	2,270	2,378	2,461	2,525	2,573	2,608	2,608	2,389	2,332	2,269	2,203	2,136
801	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Assembly	ROB	3,180	4,005	4,922	5,890	6,858	7,775	8,600	9,309	9,895	10,363	10,727	11,005	11,213	11,367	11,367	10,413	10,166	9,891	9,600	9,310
802	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Other	ROB	372	469	576	689	802	910	1,006	1,089	1,158	1,213	1,255	1,288	1,312	1,330	1,330	1,219	1,190	1,157	1,123	1,089
803	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-BSS	BSS	ROB	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	117	117	117
804	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Education	ROB	9,991	12,584	15,465	18,506	21,547	24,428	27,022	29,250	31,091	32,561	33,705	34,577	35,232	35,717	35,717	32,719	31,942	31,077	30,165	29,253
805	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	357	449	552	661	770	873	965	1,045	1,111	1,163	1,204	1,235	1,258	1,276	1,276	1,169	1,141	1,110	1,077	1,045
806	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Health	ROB	297	374	460	550	641	727	804	870	925	969	1,003	1,028	1,048	1,062	1,062	973	950	924	897	870
807	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Lodging	ROB	655	825	1,014	1,213	1,413	1,602	1,772	1,918	2,039	2,135	2,210	2,267	2,310	2,342	2,342	2,145	2,094	2,038	1,978	1,918
808	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Office	ROB	7,536	9,493	11,666	13,960	16,253	18,427	20,383	22,064	23,452	24,561	25,424	26,082	26,576	26,942	26,942	24,681	24,094	23,442	22,754	22,066
809	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Service	ROB	2,709	3,412	4,193	5,017	5,842	6,623	7,326	7,930	8,429	8,828	9,138	9,375	9,552	9,684	9,684	8,871	8,660	8,426	8,178	7,931
810	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Retail	ROB	9,427	11,873	14,592	17,461	20,330	23,048	25,495	27,597	29,334	30,721	31,801	32,624	33,241	33,699	33,699	30,871	30,137	29,321	28,460	27,600
811	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	849	1,069	1,314	1,572	1,831	2,076	2,296	2,485	2,642	2,767	2,864	2,938	2,994	3,035	3,035	2,780	2,714	2,641	2,563	2,485
812	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Assembly	ROB	3,700	4,660	5,727	6,853	7,979	9,046	10,007	10,832	11,514	12,058	12,482	12,805	13,047	13,227	13,227	12,117	11,829	11,509	11,171	10,833
813	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Other	ROB	433	545	670	802	934	1,059	1,171	1,268	1,347	1,411	1,461	1,498	1,527	1,548	1,548	1,418	1,384	1,347	1,307	1,268
814	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-BSS	BSS	ROB	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	136	136	136	136	136
815	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Education	ROB	17,902	22,549	27,711	33,160	38,609	43,771	48,418	52,411	55,709	58,344	60,394	61,956	63,129	63,998	63,998	58,627	57,233	55,685	54,050	52,415
816	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	639	805	990	1,184	1,379	1,563	1,729	1,872	1,990	2,084	2,157	2,213	2,255	2,286	2,286	2,094	2,044	1,989	1,931	1,872
817	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Health	ROB	532	671	824	986	1,148	1,302	1,440	1,559	1,657	1,735	1,796	1,843	1,878	1,904	1,904	1,744	1,702	1,656	1,608	1,559
818	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Lodging	ROB	1,174	1,479	1,817	2,174	2,532	2,870	3,175	3,437	3,653	3,826	3,960	4,063	4,139	4,196	4,196	3,844	3,753	3,651	3,544	3,437
819	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Office	ROB	13,504	17,009	20,903	25,013	29,123	33,017	36,522	39,534	42,022	44,009	45,556	46,734	47,619	48,274	48,274	44,223	43,172	42,004	40,770	39,537
820	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Service	ROB	4,854	6,113	7,513	8,990	10,468	11,867	13,127	14,210	15,104	15,818	16,374	16,798	17,116	17,351	17,351	15,895	15,517	15,097	14,654	14,211
821	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Retail	ROB	16,891	21,275	26,145	31,286	36,427	41,298	45,682	49,449	52,561	55,047	56,981	58,455	59,562	60,382	60,382	55,314	53,999	52,538	50,996	49,454
822	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	1,521	1,916	2,355	2,817	3,280	3,719	4,114	4,453	4,733	4,957	5,131	5,264	5,364	5,438	5,438	4,981	4,863	4,731	4,592	4,454
823	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Assembly	ROB	6,630	8,350	10,262	12,280	14,298	16,209	17,930	19,409	20,630	21,606	22,365	22,944	23,378	23,700	23,700	21,711	21,195	20,621	20,016	19,411
824	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Other	ROB	776	977	1,201	1,437	1,673	1,897	2,098	2,271	2,414	2,528	2,617	2,685	2,736	2,773	2,773	2,541	2,480	2,413	2,342	2,271
825	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-BSS	BSS	ROB	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	244	244	244	244	244
826	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Education	ROB	4,372	5,507	6,768	8,099	9,430	10,691	11,825	12,801	13,606	14,250	14,751	15,132	15,419	15,631	15,631	14,319	13,979	13,600	13,201	12,802
827	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
828	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Lodging	ROB	3,263	4,110	5,051	6,045	7,038	7,979	8,826	9,554	10,155	10,635	11,009	11,294	11,507	11,666	11,666	10,687	10,433	10,150	9,852	9,554
830	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Office	ROB	3,461	4,360	5,358	6,411	7,465	8,463	9,361	10,134	10,771	11,281	11,677	11,979	12,206	12,374	12,374	11,335	11,066	10,766	10,450	10,134
831	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Service	ROB	1,390	1,751	2,152	2,575	2,998	3,399	3,759	4,069	4,325	4,530	4,689	4,811	4,902	4,969	4,969	4,552	4,444	4,324	4,197	4,070
832	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Retail	ROB	7,026	8,850	10,876	13,014	15,153	17,179	19,003	20,570	21,864	22,898	23,703	24,316	24,776	25,118	25,118	23,010	22,463	21,855	21,213	20,572
833	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
834	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Assembly	ROB	1,511	1,904	2,339	2,799	3,259	3,695	4,087	4,424	4,703	4,925	5,098	5,230	5,329	5,403	5,403	4,949	4,831	4,701	4,563	4,425
835	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
836	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-BSS	BSS	ROB	131	153	173	191	207	220	230	239	245	249	253	253	253	253	253	213	207	201	195	191
837	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
838	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Sales	ROB	2,273	2,720	3,167	3,591	3,972	4,300	4,570	4,786	4,273	4,267	4,229	4,173	4,059	3,960	3,879	3,814	3,286	3,154	3,031	2,921
839	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
840	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Lodging	ROB	19,662	23,528	27,394	31,057	34,353	37,187	39,527	41,396	36,952	36,901	36,573	36,091	35,102	34,252	33,550	32,989	28,424	27,279	26,218	25,264

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
841	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Office	ROB	47,414	56,737	66,060	74,893	82,843	89,676	95,318	99,826	89,110	88,987	88,196	87,033	84,648	82,599	80,906	79,553	68,544	65,784	63,224	60,923
842	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Service	ROB	13,314	15,932	18,550	21,030	23,262	25,181	26,765	28,031	25,022	24,988	24,765	24,439	23,769	23,194	22,718	22,339	19,247	18,472	17,753	17,107
843	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Retail	ROB	49,932	59,750	69,568	78,870	87,242	94,438	100,380	105,127	93,842	93,712	92,879	91,655	89,143	86,985	85,202	83,778	72,184	69,277	66,582	64,158
844	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
845	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
846	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
847	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	BSS	ROB	134	160	186	211	234	253	269	282	251	251	249	246	239	233	228	224	193	186	178	172
848	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
849	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
850	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
851	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
852	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
853	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
854	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
855	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
856	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
857	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
858	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
859	Hot Water	Faucet Aerator	Biz-Custom	Education	RET	48,502	53,835	56,749	56,654	53,563	48,080	41,178	33,860	26,914	20,816	48,556	47,896	46,487	37,532	35,237	31,426	26,762	21,903	17,347	13,384
860	Hot Water	Faucet Aerator	Biz-Custom	Food Sales	RET	162	179	189	189	178	160	137	113	90	69	162	159	155	125	117	104	89	73	58	44
861	Hot Water	Faucet Aerator	Biz-Custom	Health	RET	3,357	3,726	3,928	3,922	3,708	3,329	2,852	2,346	1,865	1,443	3,369	3,325	3,229	2,609	2,452	2,188	1,865	1,528	1,211	935
862	Hot Water	Faucet Aerator	Biz-Custom	Lodging	RET	53,473	59,359	62,580	62,485	59,086	53,051	45,450	37,388	29,732	23,008	53,702	53,009	51,486	41,600	39,087	34,888	29,735	24,355	19,304	14,905
863	Hot Water	Faucet Aerator	Biz-Custom	Office	RET	38,717	42,975	45,300	45,223	42,752	38,373	32,860	27,016	21,469	16,600	38,707	38,163	37,020	29,869	28,023	24,973	21,250	17,377	13,751	10,601
864	Hot Water	Faucet Aerator	Biz-Custom	Food Service	RET	58,793	65,259	68,790	68,673	64,921	58,270	49,899	41,025	32,602	25,208	58,777	57,952	56,216	45,358	42,554	37,922	32,269	26,388	20,882	16,097
865	Hot Water	Faucet Aerator	Biz-Custom	Retail	RET	69,560	77,210	81,389	81,249	76,810	68,942	59,037	48,538	38,573	29,824	69,542	68,566	66,511	53,665	50,347	44,868	38,178	31,221	24,706	19,045
866	Hot Water	Faucet Aerator	Biz-Custom	Warehouse	RET	6,113	6,785	7,152	7,140	6,750	6,058	5,188	4,265	3,390	2,621	6,111	6,025	5,845	4,716	4,424	3,943	3,355	2,744	2,171	1,674
867	Hot Water	Faucet Aerator	Biz-Custom	Assembly	RET	6,180	6,859	7,230	7,218	6,824	6,125	5,245	4,312	3,427	2,649	6,178	6,091	5,909	4,767	4,473	3,986	3,392	2,774	2,195	1,692
868	Hot Water	Faucet Aerator	Biz-Custom	Other	RET	12,194	13,535	14,267	14,243	13,465	12,085	10,349	8,509	6,762	5,228	12,191	12,020	11,659	9,407	8,826	7,865	6,693	5,473	4,331	3,339
869	Hot Water	Faucet Aerator	Biz-Custom	BSS	RET	2,595	2,881	3,037	3,031	2,866	2,572	2,202	1,811	1,439	1,112	2,594	2,557	2,480	2,001	1,877	1,673	1,423	1,164	921	710
870	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Education	ROB	2,361	5,904	9,839	14,056	18,699	24,511	31,548	39,736	48,833	58,435	68,037	77,134	85,323	92,360	98,171	102,106	104,656	106,229	107,030	107,169
871	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Sales	ROB	10	25	42	59	79	104	133	168	207	247	288	326	361	391	415	432	443	449	453	453
872	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Health	ROB	144	360	601	858	1,142	1,497	1,926	2,426	2,982	3,568	4,155	4,710	5,210	5,640	5,995	6,235	6,391	6,487	6,536	6,544
873	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Lodging	ROB	2,402	6,005	10,008	14,297	19,019	24,930	32,088	40,416	49,669	59,435	69,202	78,454	86,783	93,940	99,851	103,853	106,447	108,047	108,862	109,003
874	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Office	ROB	2,503	6,258	10,430	14,900	19,822	25,982	33,442	42,122	51,765	61,944	72,123	81,766	90,446	97,906	104,066	108,237	110,941	112,608	113,457	113,604
875	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Service	ROB	3,801	9,503	15,838	22,626	30,101	39,455	50,783	63,964	78,608	94,064	109,521	124,165	137,346	148,673	158,028	164,362	168,467	170,999	172,289	172,512
876	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Retail	ROB	4,497	11,243	18,739	26,770	35,613	46,681	60,083	75,678	93,004	111,291	129,579	146,904	162,499	175,901	186,969	194,463	199,320	202,316	203,842	204,106
877	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Warehouse	ROB	395	988	1,647	2,353	3,130	4,102	5,280	6,650	8,173	9,780	11,387	12,910	14,280	15,458	16,431	17,089	17,516	17,779	17,913	17,936
878	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Assembly	ROB	400	999	1,665	2,378	3,164	4,147	5,338	6,723	8,262	9,887	11,511	13,051	14,436	15,627	16,610	17,276	17,707	17,973	18,109	18,132
879	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Other	ROB	788	1,971	3,285	4,693	6,243	8,183	10,533	13,266	16,304	19,509	22,715	25,752	28,486	30,835	32,776	34,089	34,941	35,466	35,733	35,780
880	Hot Water	Res-Sized Heat Pump Water Heater	Biz-BSS	BSS	ROB	246	616	1,027	1,467	1,952	2,558	3,292	4,147	5,096	6,098	7,101	8,050	8,905	9,639	10,245	10,656	10,922	11,086	11,170	11,184
881	Hot Water	Commercial-Sized HPWH	Biz-Standard	Education	ROB	573	1,433	2,388	3,412	4,539	5,950	7,658	9,645	11,853	14,184	16,515	18,723	20,711	22,419	23,829	24,784	25,403	25,785	25,980	26,013
882	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Sales	ROB	0	1	1	2	2	3	4	5	6	7	8	9	10	11	12	12	12	13	13	13
883	Hot Water	Commercial-Sized HPWH	Biz-Standard	Health	ROB	40	99	165	236	314	412	530	667	820	982	1,143	1,296	1,433	1,551	1,649	1,715	1,758	1,784	1,798	1,800
884	Hot Water	Commercial-Sized HPWH	Biz-Standard	Lodging	ROB	579	1,446	2,411	3,444	4,582	6,006	7,730	9,736	11,965	14,318	16,670	18,899	20,906	22,630	24,054	25,018	25,643	26,028	26,224	26,258
885	Hot Water	Commercial-Sized HPWH	Biz-Standard	Office	ROB	62	154	257	367	488	639	823	1,037	1,274	1,525	1,775	2,012	2,226	2,410	2,561	2,664	2,730	2,771	2,792	2,796
886	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Service	ROB	94	234	390	557	741	971	1,250	1,574	1,935	2,315	2,695	3,056	3,380	3,659	3,889	4,045	4,146	4,209	4,240	4,246
887	Hot Water	Commercial-Sized HPWH	Biz-Standard	Retail	ROB	111	277	461	659	877	1,149	1,479	1,863	2,289	2,739	3,189	3,616	3,999	4,329	4,602	4,786	4,906	4,979	5,017	5,023
888	Hot Water	Commercial-Sized HPWH	Biz-Standard	Warehouse	ROB	10	24	41	58	77	101	130	164	201	241	280	318	351	380	404	421	431	438	441	441
889	Hot Water	Commercial-Sized HPWH	Biz-Standard	Assembly	ROB	10	25	41	59	78	102	131	165	203	243	283	321	355	385	409	425	436	442	446	446
890	Hot Water	Commercial-Sized HPWH	Biz-Standard	Other	ROB	19	49	81	115	154	201	259	327	401	480	559	634	701	759	807	839	860	873	879	881
891	Hot Water	Commercial-Sized HPWH	Biz-BSS	BSS	ROB	25	28	31	34	36	38	39	40	41	42	42	42	42	42	42	34	33	32	31	31
892	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Education	ROB	63,271	77,684	92,838	107,912	122,084	115,859	122,235	126,303	128,399	128,995	115,735	111,875	107,588	101,539	96,167	82,926	77,156	71,991	67,937	64,380
893	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Sales	ROB	211	259	309	359	407	386	407	420	427	429	385	372	358	337	319	275	256	239	225	213
894	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Health	ROB	4,379	5,376	6,426	7,470	8,452	8,023	8,466	8,751	8,899	8,945	8,029	7,766	7,474	7,059	6,691	5,775	5,378	5,022	4,743	4,499
895	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Lodging	ROB	69,756	85,654	102,376	119,017	134,674	127,840	134,918	139,462	141,843	142,579	128,001	123,816	119,158	112,545	106,676	92,063	85,725	80,050	75,601	71,697
896	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Office	ROB	50,506	62,012	74,108	86,138	97,444	92,468	97,544	100,773	102,422	102,867	92,259	89,141	85,678	80,810	76,480	65,899	61,264	57,115	53,855	50,993
897	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Service	ROB	76,696	94,168	112,536	130,804	147,972	140,415	148,124	153,027	155,532	156,208	140,098	135,363	130,105	122,712	116,137	100,069	93,031	86,732	81,780	77,434
898	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Retail	ROB	90,742	111,413	133,146	154,759	175,072	166,131	175,252	181,053	184,016	184,816	165,756	160,154	153,932	145,186	137,406	118,396	110,069	102,616	96,758	91,616
899	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Warehouse	ROB	7,974	9,791	11,701	13,600	15,385	14,599	15,401	15,911	16,171	16,241	14,566	14,074	13,527	12,759	12,075	10,404	9,673	9,018	8,503	8,051
900	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Assembly	ROB	8,061	9,898	11,828	13,748	15,553	14,759	15,569	16,084	16,347	16,418	14,725	14,228	13,675	12,898	12,207	10,518	9,778	9,116	8,596	8,139
901	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Other	ROB	15,907	19,531	23,340	27,129	30,690	29,123	30,722	31,738	32,258	32,398	29,057	28,075	26,984	25,451	24,087	20,755	19,295	17,989	16,962	16,060
902	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	BSS	ROB	3,386	4,157	4,968	5,774	6,531	6,198	6,538	6,754	6,864	6,893	6,182	5,973	5,740	5,414	5,123	4,414	4,104	3,826	3,607	3,415
903	Hot Water	Custom Hot Water	Biz-Custom	Education	RET	4,934	7,401	8,223	8,811	9,702	12,143	14,704	17,109	19,008	20,063	23,517	24,189	22,866	20,871	18,934	18,202	17,842	17,730	17,623	17,245
904	Hot Water	Custom Hot Water	Biz-Custom	Food Sales	RET	16	25	27	29	32	40	49	57	63	67	78	81	76	70	63	61	59	59	59	57
905	Hot Water	Custom Hot Water	Biz-Custom	Health	RET	341	512	569	610	671	840	1,018	1,184	1,315	1,388	1,627	1,674	1,582	1,444	1,310	1,260	1,235	1,227	1,220	1,193
906	Hot Water	Custom Hot Water	Biz-Custom	Lodging	RET	4,774	7,161	7,957	8,525	9,387	11,749	14,227	16,554	18,392	19,413	22,755	23,405	22,124	20,195	18,320	17,612	17,263	17,155	17,051	16,686
907	Hot Water	Custom Hot Water	Biz-Custom	Office	RET	3,457	5,185	5,761	6,173	6,797	8,507	10,301	11,986	13,317	14,056	16,476	16,947	16,019	14,622	13,265	12,752	12,500	12,422	12,346	12,081
908	Hot Water	Custom Hot Water	Biz-Custom	Food Service	RET	5,249	7,874	8,749	9,374	10,322	12,918	15,643	18,202	20,222	21,345	25,019	25,734	24,326	22,204	20,143	19,364	18,981	18,863	18,748	18,346
909	Hot Water	Custom Hot Water	Biz-Custom	Retail	RET	6,211	9,316	10,351	11,090	12,212	15,284	18,508	21,535	23,926	25,254	29,601	30,447	28,781	26,271	23,832	22,911	22,457	22,317	22,182	21,706
910	Hot Water	Custom Hot Water	Biz-Custom	Warehouse	RET	546	819	910	975	1,073	1,343	1,626	1,892	2,103	2,219	2,601	2,676	2,529	2,309	2,094	2,013	1,974	1,961	1,949	1,907

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
911	Hot Water	Custom Hot Water	Biz-Custom	Assembly	RET	552	828	920	985	1,085	1,358	1,644	1,913	2,125	2,243	2,630	2,705	2,557	2,334	2,117	2,035	1,995	1,983	1,971	1,928
912	Hot Water	Custom Hot Water	Biz-Custom	Other	RET	1,089	1,633	1,815	1,944	2,141	2,679	3,244	3,775	4,194	4,427	5,189	5,337	5,045	4,605	4,178	4,016	3,937	3,912	3,888	3,805
913	Hot Water	Custom Hot Water	Biz-Custom	BSS	RET	232	348	386	414	456	570	691	804	893	942	1,105	1,136	1,074	980	889	855	838	833	828	810
914	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
916	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
917	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
919	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
920	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
923	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
924	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925	Misc	Miscellaneous Custom	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926	Misc	Miscellaneous Custom	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
927	Misc	Miscellaneous Custom	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
928	Misc	Miscellaneous Custom	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929	Misc	Miscellaneous Custom	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
930	Misc	Miscellaneous Custom	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
931	Misc	Miscellaneous Custom	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
932	Misc	Miscellaneous Custom	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
933	Misc	Miscellaneous Custom	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
934	Misc	Miscellaneous Custom	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
935	Misc	Miscellaneous Custom	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
936	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Education	ROB	381,220	412,662	438,627	459,373	475,515	487,819	497,050	503,893	503,893	503,893	503,893	503,893	503,893	503,893	503,893	503,893	503,893	503,893	503,893	503,893
937	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Sales	ROB	51,968	56,255	59,794	62,622	64,823	66,500	67,758	68,691	68,691	68,691	68,691	68,691	68,691	68,691	68,691	68,691	68,691	68,691	68,691	68,691
938	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Health	ROB	72,783	78,786	83,743	87,704	90,786	93,135	94,897	96,204	96,204	96,204	96,204	96,204	96,204	96,204	96,204	96,204	96,204	96,204	96,204	96,204
939	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Lodging	ROB	112,592	121,878	129,547	135,674	140,442	144,076	146,802	148,823	148,823	148,823	148,823	148,823	148,823	148,823	148,823	148,823	148,823	148,823	148,823	148,823
940	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
941	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Service	ROB	47,191	51,083	54,297	56,865	58,863	60,386	61,529	62,376	62,376	62,376	62,376	62,376	62,376	62,376	62,376	62,376	62,376	62,376	62,376	62,376
942	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Retail	ROB	487,656	527,876	561,090	587,628	608,278	624,017	635,824	644,579	644,579	644,579	644,579	644,579	644,579	644,579	644,579	644,579	644,579	644,579	644,579	644,579
943	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
944	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Assembly	ROB	101,719	110,109	117,037	122,573	126,880	130,163	132,626	134,452	134,452	134,452	134,452	134,452	134,452	134,452	134,452	134,452	134,452	134,452	134,452	134,452
945	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
946	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-BSS	BSS	ROB	272,626	289,780	303,486	314,151	322,279	328,377	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899	332,899
947	Misc	High Efficiency Hand Dryers	Biz-Custom	Education	RET	118,545	125,125	125,125	118,545	106,701	91,701	75,729	60,506	47,080	35,884	109,903	107,547	87,587	82,982	74,691	64,190	53,010	42,354	32,956	25,119
948	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Sales	RET	12,753	14,169	14,955	14,955	14,169	12,753	10,960	9,051	7,232	5,627	13,216	13,136	12,854	10,469	9,918	8,927	7,672	6,336	5,062	3,939
949	Misc	High Efficiency Hand Dryers	Biz-Custom	Health	RET	20,445	21,580	21,580	20,445	18,402	15,815	13,061	10,435	8,120	6,189	18,954	18,548	15,106	14,311	12,882	11,071	9,142	7,305	5,684	4,332
950	Misc	High Efficiency Hand Dryers	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
951	Misc	High Efficiency Hand Dryers	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
952	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Service	RET	24,459	27,174	28,682	28,682	27,174	24,459	21,021	17,359	13,870	10,792	25,347	25,193	24,653	20,078	19,022	17,121	14,714	12,151	9,709	7,554
953	Misc	High Efficiency Hand Dryers	Biz-Custom	Retail	RET	136,867	152,059	160,498	160,498	152,059	136,867	117,625	97,138	77,612	60,390	141,835	140,974	137,951	112,349	106,441	95,807	82,338	67,996	54,328	42,273
954	Misc	High Efficiency Hand Dryers	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
955	Misc	High Efficiency Hand Dryers	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
956	Misc	High Efficiency Hand Dryers	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
957	Misc	High Efficiency Hand Dryers	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
958	Misc	Ozone Commercial Laundry	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
959	Misc	Ozone Commercial Laundry	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
960	Misc	Ozone Commercial Laundry	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961	Misc	Ozone Commercial Laundry	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
962	Misc	Ozone Commercial Laundry	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
963	Misc	Ozone Commercial Laundry	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
964	Misc	Ozone Commercial Laundry	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
965	Misc	Ozone Commercial Laundry	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
966	Misc	Ozone Commercial Laundry	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
967	Misc	Ozone Commercial Laundry	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
968	Misc	Ozone Commercial Laundry	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
969	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Education	ROB	2,015	2,067	2,106	2,135	2,135	2,135	2,135	2,135	2,135	2,135	2,135	2,135	2,135	2,135	2,135	1,531	1,515	1,503	1,495	1,495
970	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Sales	ROB	134	138	141	142	142	142	142	142	142	142	142	142	142	142	142	102	101	100	100	100
971	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Health	ROB	379	389	396	402	402	402	402	402	402	402	402	402	402	402	402	288	285	283	281	281
972	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Lodging	ROB	568	583	594	602	602	602	602	602	602	602	602	602	602	602	602	432	427	424	421	421
973	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Office	ROB	25,987	26,660	27,164	27,538	27,538	27,538	27,538	27,538	27,538	27,538	27,538	27,538	27,538	27,538	27,538	19,742	19,540	19,389	19,277	19,277
974	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Service	ROB	135	138	141	143	143	143	143	143	143	143	143	143	143	143	143	102	101	100	100	100
975	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Retail	ROB	1,255	1,287	1,312	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	953	944	936	931	931
976	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Warehouse	ROB	1,094	1,122	1,143	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	831	822	816	811	811
977	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Assembly	ROB	532	546	556	564	564	564	564	564	564	564	564	564	564	564	564	404	400	397	395	395
978	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Other	ROB	3,989	4,092	4,170	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	3,031	3,000	2,976	2,959	2,959
979	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	BSS	ROB	3,441	3,530	3,597	3,647	3,647	3,647	3,647	3,647	3,647	3,647	3,647	3,647	3,647	3,647	3,647	2,614	2,588	2,568	2,553	2,553
980	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
981	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Sales	ROB	8,792	9,517	10,116	10,594	10,967	11,250	11,463	11,621	11,621	11,621	8,983	8,766	8,586	8,443	8,331	8,246	8,182	8,135	8,135	8,135
982	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Health	ROB	12,395	13,418	14,262	14,936	15,461	15,861	16,161	16,384	16,384	16,384	12,665	12,359	12,105	11,903	11,746	11,626	11,536	11,469	11,469	11,469
983	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Lodging	ROB	22,297	24,136	25,654	26,868	27,812	28,531	29,071	29,471	29,471	29,471	22,782	22,231	21,775	21,411	21,128	20,912	20,750	20,630	20,630	20,630
984	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
985	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
986	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Retail	ROB	98,479	106,601	113,308	118,668	122,838	126,016	128,400	130,168	130,168	130,168	100,625	98,188	96,176	94,568	93,317	92,364	91,648	91,118	91,118	91,118
987	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Warehouse	ROB	39,019	42,237	44,895	47,018	48,671	49,930	50,875	51,575	51,575	51,575	39,870	38,904	38,107	37,470	36,974	36,596	36,313	36,103	36,103	36,103
988	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
989	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
990	Misc	Pool Pump w/ Variable Frequency Drive	Biz-BSS	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
991	Misc	Pool Pump Timer	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
992	Misc	Pool Pump Timer	Biz-Custom	Food Sales	ROB	3,025	3,274	3,478	3,642	3,768	3,864	3,936	3,989	3,987	3,985	3,081	3,006	2,944	2,895	2,856	2,827	2,805	2,789	2,789	2,789
993	Misc	Pool Pump Timer	Biz-Custom	Health	ROB	4,265	4,615	4,904	5,134	5,313	5,448	5,549	5,623	5,621	5,619	4,343	4,238	4,151	4,081	4,027	3,986	3,955	3,932	3,932	3,932
994	Misc	Pool Pump Timer	Biz-Custom	Lodging	ROB	7,672	8,302	8,821	9,235	9,556	9,800	9,981	10,115	10,111	10,107	7,812	7,623	7,466	7,341	7,244	7,170	7,114	7,073	7,073	7,073
995	Misc	Pool Pump Timer	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
996	Misc	Pool Pump Timer	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
997	Misc	Pool Pump Timer	Biz-Custom	Retail	ROB	33,884	36,667	38,961	40,790	42,208	43,284	44,086	44,676	44,658	44,641	34,506	33,668	32,976	32,424	31,994	31,667	31,422	31,240	31,240	31,240
998	Misc	Pool Pump Timer	Biz-Custom	Warehouse	ROB	13,426	14,528	15,437	16,162	16,724	17,150	17,468	17,701	17,695	17,688	13,672	13,340	13,066	12,847	12,677	12,547	12,450	12,378	12,378	12,378
999	Misc	Pool Pump Timer	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	Misc	Pool Pump Timer	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1001	Misc	Pool Pump Timer	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1002	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Education	RET	4,797	7,195	7,994	8,566	9,432	11,805	14,294	19,990	23,515	25,101	25,500	25,081	24,896	24,300	25,798	25,893	24,909	23,444	21,753	20,538
1003	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Sales	RET	142	213	236	253	279	349	422	590	695	741	753	741	735	718	762	765	736	692	642	607
1004	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Health	RET	3,844	5,765	6,406	6,864	7,558	9,459	11,454	16,018	18,843	20,113	20,434	20,098	19,949	19,472	20,672	20,748	19,960	18,786	17,431	16,458
1005	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Lodging	RET	1,007	1,511	1,679	1,798	1,980	2,479	3,001	4,197	4,937	5,270	5,354	5,266	5,227	5,102	5,417	5,437	5,230	4,922	4,567	4,312
1006	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Office	RET	19,457	29,186	32,429	34,745	38,259	47,884	57,983	81,089	95,388	101,818	103,439	101,739	100,987	98,572	104,646	105,030	101,042	95,097	88,240	83,312
1007	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Service	RET	683	1,024	1,138	1,220	1,343	1,681	2,035	2,846	3,348	3,574	3,631	3,571	3,545	3,460	3,673	3,687	3,547	3,338	3,097	2,924
1008	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Retail	RET	4,523	6,785	7,538	8,077	8,894	11,131	13,479	18,850	22,174	23,668	24,045	23,650	23,475	22,914	24,326	24,415	23,488	22,106	20,512	19,367
1009	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Warehouse	RET	994	1,491	1,656	1,775	1,954	2,446	2,961	4,141	4,872	5,200	5,283	5,196	5,158	5,034	5,345	5,364	5,161	4,857	4,507	4,255
1010	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Assembly	RET	988	1,483	1,647	1,765	1,944	2,433	2,946	4,120	4,846	5,173	5,255	5,169	5,130	5,008	5,316	5,336	5,133	4,831	4,483	4,232
1011	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Other	RET	8,229	12,343	13,715	14,695	16,180	20,251	24,522	34,294	40,342	43,061	43,747	43,028	42,710	41,688	44,257	44,420	42,733	40,219	37,319	35,234
1012	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	BSS	RET	1,904	2,855	3,173	3,399	3,743	4,685	5,673	7,934	9,333	9,962	10,120	9,954	9,880	9,644	10,238	10,276	9,886	9,304	8,633	8,151
1013	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Education	RET	8,876	13,314	14,793	15,850	17,453	21,844	26,451	30,777	40,407	45,411	46,447	45,289	42,994	41,741	40,359	38,997	41,865	42,138	40,278	37,459
1014	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Sales	RET	262	393	437	468	515	645	781	909	1,193	1,341	1,372	1,338	1,270	1,233	1,192	1,152	1,237	1,245	1,190	1,106
1015	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Health	RET	7,112	10,668	11,854	12,701	13,985	17,503	21,195	24,662	32,378	36,388	37,218	36,290	34,451	33,447	32,340	31,248	33,546	33,766	32,275	30,016
1016	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Lodging	RET	1,864	2,795	3,106	3,328	3,664	4,586	5,554	6,462	8,484	9,535	9,752	9,509	9,027	8,764	8,474	8,188	8,790	8,848	8,457	7,865
1017	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Office	RET	36,004	54,006	60,007	64,293	70,795	88,606	107,294	124,845	163,906	184,206	188,406	183,708	174,402	169,318	163,712	158,187	169,820	170,930	163,384	151,949
1018	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Service	RET	1,264	1,896	2,106	2,257	2,485	3,110	3,766	4,382	5,753	6,466	6,613	6,448	6,122	5,943	5,747	5,553	5,961	6,000	5,735	5,334
1019	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Retail	RET	8,369	12,554	13,949	14,946	16,457	20,597	24,941	29,021	38,101	42,820	43,797	42,705	40,541	39,359	38,056	36,772	39,476	39,734	37,980	35,322
1020	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Warehouse	RET	1,839	2,758	3,065	3,284	3,616	4,525	5,480	6,376	8,371	9,408	9,623	9,383	8,907	8,648	8,361	8,079	8,673	8,730	8,345	7,761
1021	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Assembly	RET	1,829	2,744	3,049	3,266	3,597	4,501	5,451	6,342	8,327	9,358	9,571	9,333	8,860	8,602	8,317	8,036	8,627	8,684	8,300	7,719
1022	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Other	RET	15,227	22,840	25,378	27,191	29,941	37,473	45,377	52,800	69,320	77,905	79,681	77,694	73,758	71,608	69,237	66,901	71,821	72,290	69,099	64,263
1023	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	BSS	RET	3,523	5,284	5,871	6,290	6,926	8,669	10,497	12,215	16,036	18,022	18,433	17,974	17,063	16,566	16,017	15,477	16,615	16,723	15,985	14,866
1024	Plug_Office	Energy Star Server	Biz-Custom	Education	RET	5,986	8,979	9,976	10,689	11,770	14,731	17,838	20,755	23,059	28,529	30,624	30,043	28,238	26,076	25,042	24,256	23,687	23,122	25,207	25,319
1025	Plug_Office	Energy Star Server	Biz-Custom	Food Sales	RET	78	117	130	139	153	191	232	270	300	371	398	390	367	339	325	315	308	300	327	329
1026	Plug_Office	Energy Star Server	Biz-Custom	Health	RET	5,985	8,977	9,975	10,687	11,768	14,729	17,835	20,753	23,056	28,525	30,620	30,038	28,234	26,073	25,039	24,252	23,683	23,118	25,204	25,316
1027	Plug_Office	Energy Star Server	Biz-Custom	Lodging	RET	1,225	1,837	2,041	2,187	2,408	3,014	3,650	4,247	4,718	5,838	6,266	6,147	5,778	5,336	5,124	4,963	4,847	4,731	5,158	5,181
1028	Plug_Office	Energy Star Server	Biz-Custom	Office	RET	27,513	41,270	45,856	49,131	54,100	67,710	81,991	95,404	105,993	131,136	140,765	138,093	129,795	119,861	115,108	111,494	108,878	106,280	115,866	116,382
1029	Plug_Office	Energy Star Server	Biz-Custom	Food Service	RET	281	422	469	502	553	692	838	975	1,083	1,340	1,439	1,412	1,327	1,225	1,177	1,140	1,113	1,086	1,184	1,190
1030	Plug_Office	Energy Star Server	Biz-Custom	Retail	RET	5,938	8,907	9,897	10,604	11,676	14,614	17,696	20,591	22,876	28,302	30,381	29,804	28,013	25,869	24,843	24,063	23,499	22,938	25,007	25,118
1031	Plug_Office	Energy Star Server	Biz-Custom	Warehouse	RET	1,367	2,051	2,279	2,441	2,688	3,365	4,074	4,741	5,267	6,516	6,995	6,862	6,450	5,956	5,720	5,540	5,410	5,281	5,758	5,783
1032	Plug_Office	Energy Star Server	Biz-Custom	Assembly	RET	1,075	1,612	1,791	1,919	2,113	2,644	3,202	3,726	4,139	5,121	5,497	5,393	5,069	4,681	4,495	4,354	4,252	4,151	4,525	4,545
1033	Plug_Office	Energy Star Server	Biz-Custom	Other	RET	13,177	19,765	21,961	23,530	25,910	32,428	39,268	45,691	50,763	62,804	67,416	66,136	62,162	57,404	55,128	53,397	52,144	50,900	55,491	55,738
1034	Plug_Office	Energy Star Server	Biz-Custom	BSS	RET	2,212	3,319	3,687	3,951	4,350	5,445	6,593	7,671	8,523	10,545	11,319	11,104	10,437	9,638	9,256	8,965	8,755	8,546	9,317	9,358
1035	Plug_Office	Server Virtualization	Biz-Custom	Education	RET	14,333	21,499	23,888	25,594	28,182	35,272	42,711	49,698	55,215	68,312	73,328	71,936	67,614	62,439	59,963	58,080	56,717	55,364	60,358	60,626
1036	Plug_Office	Server Virtualization	Biz-Custom	Food Sales	RET	186	279	310	332	366	458	555	646	717	887	953	934	878	811	779	754	737	719	784	788
1037	Plug_Office	Server Virtualization	Biz-Custom	Health	RET	14,331	21,496	23,884	25,590	28,178	35,267	42,705	49,691	55,207	68,303	73,318	71,926	67,605	62,430	59,954	58,072	56,709	55,356	60,349	60,618
1038	Plug_Office	Server Virtualization	Biz-Custom	Lodging	RET	2,933	4,399	4,888	5,237	5,766	7,217	8,739	10,169	11,298	13,978	15,004	14,719	13,835	12,776	12,269	11,884	11,605	11,328	12,350	12,405
1039	Plug_Office	Server Virtualization	Biz-Custom	Office	RET	65,880	98,820	109,801	117,643	129,540	162,131	196,326	228,441	253,798	314,001	337,059	330,659	310,792	287,004	275,622	266,968	260,705	254,484	277,438	278,673
1040	Plug_Office	Server Virtualization	Biz-Custom	Food Service	RET	673	1,010	1,122	1,202	1,324	1,657	2,007	2,335	2,594	3,210	3,445	3,380	3,177	2,934	2,817	2,729	2,665	2,601	2,836	2,848
1041	Plug_Office	Server Virtualization	Biz-Custom	Retail	RET	14,219	21,328	23,698	25,390	27,958	34,992	42,372	49,304	54,776	67,769	72,746	71,365	67,077	61,943	59,486	57,619	56,267	54,924	59,878	60,145
1042	Plug_Office	Server Virtualization	Biz-Custom	Warehouse	RET	3,274	4,911	5,456	5,846	6,437	8,057	9,756	11,352	12,612	15,603	16,749	16,431	15,444	14,262	13,696	13,266	12,955	12,646	13,786	13,848
1043	Plug_Office	Server Virtualization	Biz-Custom	Assembly	RET	2,573	3,859	4,288	4,594	5,059	6,332	7,667	8,922	9,912	12,263	13,163	12,913	12,138	11,209	10,764	10,426	10,182	9,939	10,835	10,883
1044	Plug_Office	Server Virtualization	Biz-Custom	Other	RET	31,552	47,328	52,586	56,342	62,040	77,648	94,025	109,406	121,550	150,383	161,426	158,361	148,846	137,453	132,002	127,858	124,858	121,879	132,872	133,463
1045	Plug_Office	Server Virtualization	Biz-Custom	BSS	RET	5,297	7,946	8,829	9,460	10,416	13,037	15,787	18,369	20,408	25,249	27,103	26,588	24,991	23,078	22,163	21,467	20,963	20,463	22,309	22,408
1046	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Education	RET	15,321	22,982	25,535	27,359	30,126	37,705	45,657	53,126	59,023	62,299	62,299	59,023	53,126	45,657	37,705	40,850	39,528	35,741	32,555	31,026
1047	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Sales	RET	199	299	332	355	391	490	593	690	767	809	809	767	690	593	490	531	513	464	423	403
1048	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Health	RET	15,319	22,978	25,532	27,355	30,122	37,700	45,651	53,119	59,015	62,290	62,290	59,015	53,119	45,651	37,700	40,845	39,523	35,736	32,551	31,021
1049	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Lodging	RET	3,135	4,702	5,225	5,598	6,164	7,715	9,342	10,870	12,077	12,747	12,747	12,077	10,870	9,342	7,715	8,359	8,088	7,313	6,661	6,348
1050	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Office	RET	70,424	105,636	117,374	125,757	138,475	173,313	209,867	244,197	271,303	286,361	286,361	271,303	244,197	209,867	173,313	187,772	181,693	164,285	149,643	142,612

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1051	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Service	RET	720	1,080	1,200	1,285	1,415	1,772	2,145	2,496	2,773	2,927	2,927	2,773	2,496	2,145	1,772	1,919	1,857	1,679	1,530	1,458
1052	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Retail	RET	15,199	22,799	25,332	27,142	29,886	37,405	45,295	52,704	58,554	61,804	61,804	58,554	52,704	45,295	37,405	40,526	39,214	35,457	32,297	30,779
1053	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Warehouse	RET	3,500	5,249	5,833	6,249	6,881	8,612	10,429	12,135	13,482	14,230	14,230	13,482	12,135	10,429	8,612	9,331	9,029	8,164	7,436	7,087
1054	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Assembly	RET	2,750	4,126	4,584	4,911	5,408	6,769	8,196	9,537	10,595	11,183	11,183	10,595	9,537	8,196	6,769	7,333	7,096	6,416	5,844	5,570
1055	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Other	RET	33,728	50,592	56,213	60,228	66,319	83,004	100,510	116,952	129,934	137,145	137,145	129,934	116,952	100,510	83,004	89,928	87,017	78,680	71,668	68,300
1056	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	BSS	RET	5,663	8,494	9,438	10,112	11,135	13,936	16,875	19,636	21,815	23,026	23,026	21,815	19,636	16,875	13,936	15,099	14,610	13,210	12,033	11,467
1057	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Education	ROB	265	663	1,104	1,578	2,099	2,751	3,541	4,460	5,481	6,559	7,637	8,658	9,577	10,367	11,019	11,461	11,747	11,923	12,013	12,029
1058	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Sales	ROB	3	9	14	20	27	36	46	58	71	85	99	112	124	135	143	149	153	155	156	156
1059	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Health	ROB	265	663	1,104	1,577	2,099	2,751	3,541	4,459	5,480	6,558	7,636	8,657	9,576	10,365	11,017	11,459	11,745	11,922	12,012	12,027
1060	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Lodging	ROB	54	136	226	323	429	563	725	913	1,122	1,342	1,563	1,772	1,960	2,121	2,255	2,345	2,404	2,440	2,458	2,461
1061	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Office	ROB	1,218	3,046	5,076	7,252	9,648	12,646	16,276	20,501	25,195	30,149	35,103	39,796	44,021	47,651	50,650	52,680	53,995	54,807	55,220	55,292
1062	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Service	ROB	12	31	52	74	99	129	166	210	258	308	359	407	450	487	518	538	552	560	564	565
1063	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Retail	ROB	263	657	1,096	1,565	2,082	2,729	3,513	4,425	5,438	6,507	7,576	8,589	9,501	10,284	10,931	11,370	11,654	11,829	11,918	11,933
1064	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Warehouse	ROB	61	151	252	360	479	628	809	1,019	1,252	1,498	1,744	1,978	2,187	2,368	2,517	2,618	2,683	2,723	2,744	2,748
1065	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Assembly	ROB	48	119	198	283	377	494	636	801	984	1,177	1,371	1,554	1,719	1,861	1,978	2,057	2,109	2,140	2,157	2,159
1066	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Other	ROB	583	1,459	2,431	3,473	4,620	6,056	7,795	9,818	12,066	14,439	16,811	19,059	21,083	22,821	24,257	25,230	25,860	26,248	26,446	26,481
1067	Plug_Office	High Efficiency CRAC unit	Biz-Custom	BSS	ROB	98	245	408	583	776	1,017	1,309	1,648	2,026	2,424	2,823	3,200	3,540	3,832	4,073	4,236	4,342	4,407	4,440	4,446
1068	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Education	RET	14,415	21,615	24,006	25,709	28,294	35,388	42,818	49,775	55,242	58,242	58,175	55,055	49,503	42,504	35,073	37,973	36,723	33,188	30,218	28,789
1069	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Sales	RET	187	281	312	334	368	460	557	648	719	759	758	718	646	555	458	496	480	434	395	376
1070	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Health	RET	14,413	21,610	23,999	25,699	28,281	35,369	42,788	49,734	55,187	58,174	58,097	54,971	49,420	42,427	35,005	37,895	36,644	33,115	30,150	28,722
1071	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Lodging	RET	2,950	4,423	4,912	5,261	5,790	7,241	8,762	10,186	11,304	11,919	11,905	11,267	10,131	8,699	7,178	7,772	7,516	6,792	6,185	5,892
1072	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Office	RET	66,260	99,349	110,335	118,156	130,030	162,627	196,755	228,706	253,801	267,559	267,225	252,868	227,349	195,191	161,053	174,359	168,610	152,376	138,735	132,167
1073	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Service	RET	677	1,016	1,129	1,209	1,331	1,665	2,016	2,345	2,604	2,747	2,746	2,600	2,339	2,010	1,659	1,797	1,738	1,571	1,431	1,364
1074	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Retail	RET	14,301	21,443	23,814	25,503	28,067	35,104	42,472	49,372	54,792	57,766	57,697	54,601	49,093	42,151	34,780	37,655	36,415	32,909	29,964	28,546
1075	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Warehouse	RET	3,293	4,937	5,483	5,872	6,462	8,082	9,778	11,366	12,613	13,297	13,281	12,568	11,300	9,701	8,005	8,666	8,381	7,574	6,896	6,569
1076	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Assembly	RET	2,588	3,880	4,310	4,616	5,080	6,354	7,689	8,939	9,922	10,461	10,451	9,891	8,894	7,638	6,303	6,824	6,600	5,965	5,431	5,175
1077	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Other	RET	31,733	47,577	52,835	56,577	62,259	77,860	94,190	109,472	121,469	128,035	127,857	120,971	108,749	93,356	77,021	83,377	80,622	72,855	66,330	63,187
1078	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	BSS	RET	5,328	7,989	8,873	9,503	10,459	13,082	15,828	18,401	20,423	21,533	21,510	20,357	18,305	15,718	12,970	14,043	13,581	12,274	11,176	10,648
1079	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Education	RET	9,227	13,830	15,354	16,436	18,080	22,601	27,327	31,741	35,195	37,070	43,360	44,508	41,995	38,270	34,669	33,290	32,601	32,372	32,156	31,451
1080	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Sales	RET	120	180	200	214	235	294	356	414	459	484	567	583	550	502	455	437	428	425	423	413
1081	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Health	RET	9,225	13,826	15,347	16,426	18,067	22,580	27,295	31,695	35,133	36,993	43,256	44,388	41,869	38,145	34,549	33,168	32,477	32,245	32,027	31,323
1082	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Lodging	RET	1,888	2,830	3,142	3,363	3,700	4,625	5,592	6,496	7,203	7,587	8,874	9,110	8,596	7,833	7,096	6,814	6,673	6,627	6,583	6,438
1083	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Office	RET	42,410	63,565	70,564	75,531	83,080	103,841	125,537	145,793	161,630	170,212	199,056	204,292	192,724	175,604	159,062	152,719	149,545	148,488	147,489	144,249
1084	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Service	RET	434	650	722	774	851	1,065	1,289	1,499	1,664	1,754	2,055	2,111	1,994	1,819	1,649	1,585	1,553	1,543	1,533	1,500
1085	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Retail	RET	9,153	13,720	15,231	16,304	17,934	22,418	27,103	31,480	34,903	36,760	42,994	44,129	41,635	37,939	34,368	32,999	32,315	32,088	31,873	31,174
1086	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Warehouse	RET	2,107	3,159	3,507	3,753	4,129	5,161	6,239	7,246	8,033	8,460	9,894	10,155	9,580	8,729	7,907	7,592	7,435	7,382	7,332	7,172
1087	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Assembly	RET	1,656	2,483	2,757	2,951	3,247	4,059	4,908	5,702	6,324	6,662	7,794	8,002	7,551	6,883	6,236	5,988	5,865	5,824	5,786	5,659
1088	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Other	RET	20,310	30,438	33,786	36,161	39,770	49,700	60,073	69,751	77,309	81,393	95,160	97,638	92,088	83,891	75,975	72,935	71,410	70,899	70,416	68,866
1089	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	BSS	RET	3,410	5,112	5,676	6,076	6,684	8,356	10,103	11,736	13,015	13,710	16,037	16,464	15,535	14,158	12,827	12,317	12,063	11,979	11,899	11,639
1090	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1091	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Sales	RET	3,563	5,344	5,938	6,362	9,499	12,509	14,774	16,807	20,375	23,243	24,828	25,490	26,616	26,887	26,148	24,848	24,082	22,975	21,420	19,705
1092	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1093	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1094	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1095	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1096	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1097	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Warehouse	RET	7,746	11,618	12,909	13,832	20,652	27,195	32,119	36,540	44,296	50,532	53,979	55,418	57,865	58,455	56,847	54,023	52,356	49,951	46,569	42,840
1098	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1099	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Other	RET	5,911	8,867	9,852	10,556	15,761	20,754	24,512	27,886	33,805	38,564	41,195	42,293	44,161	44,611	43,384	41,228	39,957	38,121	35,540	32,694
1100	Refrigeration	Strip Curtains, Cooler	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1101	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Education	RET	60	91	101	108	119	149	180	252	296	316	321	316	313	306	325	326	314	295	274	259
1102	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Sales	RET	4	7	7	8	9	11	13	19	22	23	24	23	23	23	24	24	23	22	20	19
1103	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Health	RET	19	29	32	34	38	47	57	80	94	100	102	100	99	97	103	103	99	94	87	82
1104	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Lodging	RET	28	41	46	49	54	68	82	115	135	144	146	144	143	139	148	149	143	135	125	118
1105	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Office	RET	32	48	53	57	63	79	96	134	157	168	171	168	166	162	173	173	167	157	145	137
1106	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Service	RET	103	155	172	185	203	254	308	431	507	541	550	540	537	524	556	558	537	505	469	443
1107	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Retail	RET	41	62	69	74	81	101	123	172	202	215	219	215	214	209	221	222	214	201	187	176
1108	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Warehouse	RET	8	11	13	13	15	19	23	31	37	40	40	40	39	38	41	41	39	37	34	32
1109	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Assembly	RET	7	10	11	12	13	16	19	27	32	34	35	34	34	33	35	35	34	32	30	28
1110	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Other	RET	11	17	19	20	22	28	33	47	55	59	60	59	58	57	60	60	58	55	51	48
1111	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	BSS	RET	4	6	7	7	8	10	12	17	19	21	21	21	21	20	21	21	21	19	18	17
1112	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1113	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Sales	RET	2,556	3,835	4,261	4,565	6,816	8,975	10,601	12,060	14,619	16,678	17,815	18,290	19,098	19,292	18,762	17,830	17,280	16,486	15,370	14,139
1114	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1115	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1116	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1117	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Service	RET	24,678	37,016	41,129	44,067	65,798	86,643	102,330	116,417	141,126	160,994	171,976	176,560	184,358	186,236	181,114	172,115	166,807	159,142	148,370	136,487
1118	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1119	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1120	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1121	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Other	RET	6,459	9,689	10,765	11,534	17,222	22,678	26,785	30,472	36,940	42,140	45,014	46,214	48,255	48,747	47,406	45,051	43,661	41,655	38,835	35,725
1122	Refrigeration	Strip Curtains, Freezer	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1123	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Education	RET	40	60	67	72	79	99	120	168	197	211	214	211	209	204	217	217	209	197	183	172
1124	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Sales	RET	1	1	1	1	2	2	2	3	4	4	4	4	4	4	4	4	4	4	4	3
1125	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Health	RET	15	23	26	27	30	38	46	64	75	80	81	80	79	78	82	83	80	75	69	66
1126	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Lodging	RET	14	21	23	25	27	34	41	57	67	72	73	72	71	70	74	74	71	67	62	59
1127	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Office	RET	16	24	27	29	32	39	48	67	79	84	85	84	83	81	86	87	83	78	73	69
1128	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Service	RET	34	51	57	61	67	84	101	142	167	178	181	178	177	172	183	184	177	166	154	146
1129	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Retail	RET	26	39	43	46	51	63	77	107	126	135	137	135	134	130	138	139	134	126	117	110
1130	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Warehouse	RET	22	33	37	39	43	54	66	92	108	116	118	116	115	112	119	119	115	108	100	95
1131	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Assembly	RET	4	6	7	7	8	10	12	17	20	21	22	21	21	21	22	22	21	20	18	17
1132	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Other	RET	5	7	8	8	9	11	14	19	22	24	24	24	24	23	25	25	24	22	21	20
1133	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	BSS	RET	2	4	4	4	5	6	7	10	12	12	12	12	12	12	13	13	12	11	11	10
1134	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	26,955	40,432	44,924	48,133	53,000	66,334	80,325	93,464	103,837	109,600	109,599	103,835	93,460	80,321	66,331	71,864	69,537	62,875	57,271	54,580
1135	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	4,486	6,728	7,475	8,008	8,816	11,033	13,357	15,539	17,260	18,213	18,209	17,247	15,521	13,336	11,012	11,929	11,542	10,435	9,505	9,058
1136	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	10,553	15,829	17,588	18,844	20,750	25,970	31,447	36,591	40,652	42,908	42,908	40,652	36,590	31,446	25,969	28,135	27,224	24,616	22,422	21,368
1137	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	11,056	16,584	18,427	19,743	21,739	27,209	32,947	38,337	42,592	44,955	44,955	42,591	38,335	32,946	27,207	29,477	28,523	25,790	23,491	22,388
1138	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	12,884	19,326	21,473	23,007	25,334	31,707	38,395	44,675	49,634	52,389	52,388	49,634	44,675	38,394	31,707	34,352	33,239	30,055	27,376	26,090
1139	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	49,201	73,776	81,941	87,756	96,586	120,814	146,192	169,966	188,659	198,936	198,743	188,119	169,184	145,295	119,917	129,860	125,610	113,544	103,403	98,529
1140	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	17,917	26,876	29,862	31,995	35,230	44,094	53,393	62,127	69,023	72,854	72,853	69,022	62,126	53,392	44,092	47,770	46,224	41,795	38,070	36,281
1141	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	11,842	17,756	19,719	21,116	23,237	29,061	35,159	40,867	45,350	47,808	47,749	45,185	40,627	34,884	28,786	31,169	30,146	27,248	24,813	23,642
1142	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	2,837	4,255	4,728	5,065	5,577	6,981	8,453	9,836	10,927	11,534	11,534	10,927	9,835	8,453	6,980	7,563	7,318	6,617	6,027	5,744
1143	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	10,450	15,668	17,399	18,631	20,502	25,640	31,017	36,051	40,003	42,167	42,111	39,847	35,825	30,759	25,381	27,481	26,578	24,022	21,875	20,843
1144	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	1,691	2,537	2,819	3,020	3,326	4,163	5,040	5,865	6,516	6,878	6,878	6,516	5,865	5,040	4,162	4,510	4,364	3,946	3,594	3,425
1145	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	30,678	46,017	51,130	54,782	60,321	75,497	91,420	106,374	118,181	124,739	146,211	150,388	142,159	129,761	117,715	113,162	110,923	110,229	109,560	107,211
1146	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	5,105	7,657	8,507	9,114	10,034	12,557	15,203	17,686	19,644	20,729	24,292	24,980	23,608	21,545	19,542	18,784	18,411	18,295	18,183	17,792
1147	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	10,504	15,756	17,507	18,758	20,654	25,851	31,303	36,423	40,466	42,711	50,064	51,494	48,676	44,431	40,307	38,748	37,981	37,743	37,514	36,710
1148	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	12,583	18,875	20,972	22,470	24,742	30,967	37,498	43,632	48,475	51,165	59,973	61,686	58,311	53,225	48,284	46,417	45,498	45,214	44,939	43,976
1149	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	14,664	21,996	24,440	26,185	28,833	36,087	43,698	50,846	56,490	59,625	69,889	71,886	67,953	62,026	56,269	54,093	53,022	52,691	52,371	51,248
1150	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	55,998	83,967	93,259	99,878	109,927	137,503	166,385	193,443	214,718	226,415	265,135	272,460	257,339	234,729	212,815	204,488	200,369	199,060	197,810	193,538
1151	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	20,392	30,588	33,987	36,414	40,097	50,184	60,769	70,709	78,557	82,917	97,191	99,967	94,497	86,256	78,249	75,223	73,735	73,273	72,828	71,267
1152	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	13,478	20,208	22,442	24,032	26,447	33,076	40,015	46,512	51,615	54,412	63,700	65,443	61,796	56,356	51,086	49,081	48,087	47,769	47,467	46,439
1153	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	3,228	4,842	5,381	5,765	6,348	7,945	9,620	11,194	12,437	13,127	15,387	15,826	14,960	13,656	12,388	11,909	11,673	11,600	11,530	11,283
1154	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	11,894	17,832	19,802	21,205	23,334	29,181	35,302	41,031	45,528	47,992	56,179	57,712	54,493	49,692	45,043	43,273	42,396	42,115	41,847	40,941
1155	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	1,925	2,888	3,208	3,438	3,785	4,738	5,737	6,675	7,416	7,828	9,175	9,437	8,921	8,143	7,387	7,101	6,961	6,917	6,875	6,728
1156	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Education	RET	10,979	16,443	18,238	19,504	21,432	26,754	32,294	37,439	41,424	43,532	43,342	40,892	36,668	38,789	36,908	32,863	29,112	26,591	27,140	28,552
1157	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Sales	RET	1,829	2,743	3,047	3,263	3,592	4,494	5,439	6,326	7,024	7,409	7,404	7,010	6,307	6,690	6,380	5,691	5,049	4,617	4,716	4,965
1158	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Health	RET	3,760	5,632	6,248	6,682	7,345	9,171	11,074	12,843	14,216	14,946	14,887	14,052	12,606	13,339	12,696	11,307	10,018	9,152	9,342	9,829
1159	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Lodging	RET	4,504	6,747	7,485	8,006	8,799	10,988	13,268	15,389	17,035	17,911	17,842	16,842	15,109	15,990	15,219	13,555	12,010	10,972	11,200	11,783
1160	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Office	RET	5,251	7,870	8,737	9,353	10,288	12,860	15,548	18,060	20,024	21,091	21,047	19,900	17,879	18,946	18,052	16,092	14,268	13,041	13,317	14,015
1161	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Service	RET	20,041	30,006	33,271	35,568	39,068	48,746	58,806	68,127	75,320	79,089	78,679	74,174	66,466	70,268	66,827	59,480	52,675	48,103	49,090	51,637
1162	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Retail	RET	7,301	10,940	12,142	12,994	14,289	17,854	21,577	25,047	27,755	29,215	29,134	27,529	24,720	26,181	24,936	22,221	19,697	18,000	18,379	19,340
1163	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Warehouse	RET	4,824	7,222	8,007	8,559	9,401	11,728	14,147	16,386	18,113	19,016	18,914	17,828	15,973	16,884	16,055	14,289	12,653	11,555	11,791	12,403
1164	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Assembly	RET	1,156	1,733	1,924	2,060	2,267	2,834	3,427	3,982	4,417	4,654	4,646	4,394	3,950	4,186	3,990	3,557	3,154	2,884	2,945	3,099
1165	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Other	RET	4,258	6,379	7,077	7,570	8,321	10,391	12,549	14,555	16,114	16,945	16,882	15,937	14,299	15,134	14,406	12,831	11,370	10,387	10,604	11,157
1166	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	BSS	RET	689	1,033	1,147	1,228	1,351	1,689	2,043	2,374	2,633	2,774	2,769	2,618	2,353	2,494	2,377	2,119	1,879	1,718	1,754	1,846
1167	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1168	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1169	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1170	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1171	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1172	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1173	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1174	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1175	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1176	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1177	Refrigeration	Floating Head Pressure Controls	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1178	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Education	RET	25	38	42	45	50	62	76	88	98	103	103	98	106	102	92	82	74	73	75	78
1179	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Sales	RET	12,561	18,842	20,936	22,431	24,699	30,913	37,433	43,557	48,391	51,077	51,077	48,391	52,350	50,623	45,568	40,401	36,508	36,287	37,193	38,637
1180	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Health	RET	17	25	28	30	33	42	50	59	65	69	69	65	70	68	61	54	49	49	50	52
1181	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Lodging	RET	17	26	29	31	34	43	52	60	67	71	71	67	72	70	63	56	50	50	51	53
1182	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Office	RET	40	61	67	72	79	99	120	140	156	164	164	156	168	163	147	130	117	117	120	124
1183	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Service	RET	72	109	121	129	142	178	216	251	279	294	294	279	302	292	263	233	210	209	214	223
1184	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Retail	RET	45	68	76	81	89	112	135	157	175	185	185	175	189	183	165	146	132	131	134	140
1185	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Warehouse	RET	13	19	21	22	25	31	37	43	48	51	51	48	52	51	45	40	36	36	37	39
1186	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Assembly	RET	10	15	17	18	20	25	31	36	40	42	42	40	43	41	37	33	30	30	30	32
1187	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Other	RET	28	42	47	50	55	69	84	97	108	114	114	108	117	113	102	90	82	81	83	86
1188	Refrigeration	Door Heater Controls for Cooler	Biz-BSS	BSS	RET	8	13	14	15	17	21	25	29	32	34	34	32	35	34	30	27	24	24	25	26
1189	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1190	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1191	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1192	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1193	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1194	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1195	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1196	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1197	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1198	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1199	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1201	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1202	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1203	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1204	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1205	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1206	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1207	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1208	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1209	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1210	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1211	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Education	RET	6	9	10	11	12	15	18	21	23	24	28	29	28	25	23	22	21	21	21	21
1212	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Sales	RET	4,478	6,717	7,464	7,997	8,806	11,021	13,346	15,529	17,252	18,210	21,345	21,955	20,753	18,943	17,185	16,520	16,194	16,092	15,995	15,652
1213	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Health	RET	6	9	9	10	11	14	17	20	22	23	27	28	26	24	22	21	21	20	20	20
1214	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1215	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Office	RET	84	126	140	150	165	206	250	291	323	341	400	411	388	355	322	309	303	301	299	293
1216	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Service	RET	15	22	25	26	29	36	44	51	57	60	70	72	68	62	56	54	53	53	53	51
1217	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1218	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1219	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1220	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Other	RET	35	53	59	63	69	86	105	122	135	143	167	172	163	148	135	129	127	126	125	123
1221	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	BSS	RET	3	5	5	5	6	7	9	10	12	12	14	15	14	13	12	11	11	11	11	10
1222	Refrigeration	Night Covers for Coolers	Biz-Custom	Education	ROB	0	0	1	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	4
1223	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Sales	ROB	99	247	412	588	783	996	1,246	1,539	1,867	2,211	2,519	2,780	2,985	3,129	3,210	3,219	3,172	3,088	2,980	2,859
1224	Refrigeration	Night Covers for Coolers	Biz-Custom	Health	ROB	0	0	1	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	4
1225	Refrigeration	Night Covers for Coolers	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1226	Refrigeration	Night Covers for Coolers	Biz-Custom	Office	ROB	2	5	8	11	15	19	23	29	35	41	47	52	56	59	60	60	59	58	56	54
1227	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Service	ROB	0	1	1	2	3	3	4	5	6	7	8	9	10	10	11	11	10	10	10	9
1228	Refrigeration	Night Covers for Coolers	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1229	Refrigeration	Night Covers for Coolers	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1230	Refrigeration	Night Covers for Coolers	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1231	Refrigeration	Night Covers for Coolers	Biz-Custom	Other	ROB	1	2	3	5	6	8	10	12	15	17	20	22	23	25	25	25	25	24	23	22
1232	Refrigeration	Night Covers for Coolers	Biz-Custom	BSS	ROB	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
1233	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Education	ROB	73	183	305	436	579	759	977	1,231	1,513	1,811	2,108	2,390	2,622	2,807	2,950	3,055	3,124	3,155	3,154	3,125
1234	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Sales	ROB	1,061	2,652	4,420	6,314	8,399	11,010	14,170	17,848	21,935	26,248	30,561	34,647	38,007	40,690	42,770	44,288	45,285	45,738	45,718	45,303
1235	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Health	ROB	30	75	124	178	236	310	398	502	617	738	859	974	1,069	1,144	1,203	1,245	1,273	1,286	1,285	1,274
1236	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Lodging	ROB	32	80	134	191	255	334	430	541	665	796	926	1,050	1,152	1,234	1,297	1,343	1,373	1,387	1,386	1,373
1237	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Office	ROB	83	208	347	496	659	864	1,112	1,401	1,722	2,061	2,399	2,720	2,984	3,194	3,358	3,477	3,555	3,591	3,589	3,556
1238	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Service	ROB	143	358	596	852	1,133	1,486	1,912	2,408	2,960	3,542	4,124	4,675	5,128	5,491	5,771	5,976	6,111	6,172	6,169	6,113
1239	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Retail	ROB	88	220	367	525	698	915	1,178	1,484	1,824	2,182	2,541	2,880	3,160	3,383	3,556	3,682	3,765	3,803	3,801	3,766
1240	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Warehouse	ROB	29	72	120	171	227	298	384	483	594	710	827	938	1,029	1,101	1,158	1,199	1,226	1,238	1,237	1,226
1241	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Assembly	ROB	25	63	106	151	201	263	339	427	525	628	731	829	910	974	1,024	1,060	1,084	1,095	1,094	1,084
1242	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Other	ROB	58	145	241	345	459	601	774	974	1,198	1,433	1,668	1,892	2,075	2,221	2,335	2,418	2,472	2,497	2,496	2,473
1243	Refrigeration	Door Heater Controls for Freezer	Biz-BSS	BSS	ROB	11	26	44	63	84	110	141	178	219	262	305	346	380	406	427	442	452	457	457	452
1244	Refrigeration	Night Covers for Freezers	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1245	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Sales	RET	2,716	4,073	4,526	4,849	5,339	8,584	10,944	12,584	13,856	14,779	17,050	18,122	18,225	17,791	17,028	17,275	16,840	15,924	14,830	13,681
1246	Refrigeration	Night Covers for Freezers	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1247	Refrigeration	Night Covers for Freezers	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1248	Refrigeration	Night Covers for Freezers	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1249	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250	Refrigeration	Night Covers for Freezers	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1251	Refrigeration	Night Covers for Freezers	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1252	Refrigeration	Night Covers for Freezers	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1253	Refrigeration	Night Covers for Freezers	Biz-Custom	Other	RET	493	740	822	881	970	1,559	1,987	2,285	2,516	2,684	3,096	3,291	3,309	3,231	3,092	3,137	3,058	2,892	2,693	2,484
1254	Refrigeration	Night Covers for Freezers	Biz-Custom	BSS	RET	1	2	2	2	2	3	4	5	5	6	7	7	7	7	7	7	7	6	6	5
1255	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Education	RET	1,552	2,328	2,586	2,771	3,051	3,819	4,624	5,381	5,978	6,309	6,309	5,977	5,379	4,623	3,817	4,135	4,001	3,618	3,295	3,140
1256	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	173,881	260,722	289,555	310,064	341,194	426,675	516,125	599,797	665,397	701,167	699,911	661,860	594,593	510,030	420,410	454,666	439,200	396,485	360,606	343,183
1257	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Health	RET	1,584	2,375	2,639	2,828	3,114	3,897	4,719	5,490	6,099	6,437	6,437	6,098	5,488	4,716	3,894	4,219	4,082	3,691	3,361	3,203
1258	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	985	1,477	1,642	1,759	1,937	2,424	2,935	3,415	3,794	4,004	4,004	3,793	3,414	2,934	2,423	2,625	2,539	2,296	2,091	1,993
1259	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Office	RET	21,218	31,826	35,361	37,885	41,714	52,204	63,208	73,538	81,688	86,206	86,187	81,635	73,459	63,114	52,105	56,435	54,591	49,346	44,935	42,812
1260	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	22,045	33,068	36,741	39,365	43,344	54,246	65,683	76,421	84,896	89,597	89,585	84,862	76,371	65,622	54,183	58,692	56,781	51,332	46,748	44,544

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1261	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Retail	RET	44,288	66,430	73,807	79,073	87,060	108,948	131,903	153,445	170,431	179,831	179,762	170,235	153,154	131,555	108,582	117,575	113,705	102,755	93,547	89,105
1262	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	1,817	2,725	3,028	3,244	3,572	4,471	5,414	6,299	6,998	7,386	7,385	6,996	6,297	5,411	4,468	4,841	4,684	4,234	3,857	3,675
1263	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	895	1,342	1,491	1,598	1,759	2,202	2,666	3,102	3,446	3,637	3,637	3,446	3,101	2,665	2,200	2,384	2,306	2,085	1,899	1,810
1264	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Other	RET	16,283	24,424	27,136	29,072	32,009	40,058	48,500	56,424	62,674	66,136	66,118	62,623	56,348	48,410	39,965	43,285	41,870	37,846	34,462	32,833
1265	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	BSS	RET	1,160	1,740	1,933	2,071	2,281	2,854	3,456	4,022	4,468	4,715	4,715	4,466	4,020	3,454	2,852	3,090	2,989	2,703	2,461	2,346
1266	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Education	ROB	23	58	96	138	183	240	309	389	479	573	660	738	807	863	907	935	950	953	946	933
1267	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	ROB	2,593	6,480	10,795	15,413	20,491	26,836	34,505	43,406	53,265	63,633	73,186	81,766	89,197	95,266	99,855	102,799	104,239	104,391	103,523	101,936
1268	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Health	ROB	24	59	98	141	187	245	315	397	488	584	673	753	823	881	925	954	969	972	965	951
1269	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	ROB	15	37	61	87	116	152	196	247	304	363	419	469	512	548	575	593	603	605	600	592
1270	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Office	ROB	316	791	1,318	1,883	2,505	3,283	4,226	5,322	6,539	7,823	9,012	10,085	11,020	11,789	12,376	12,760	12,957	12,992	12,900	12,716
1271	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	ROB	329	822	1,370	1,957	2,603	3,412	4,391	5,530	6,796	8,131	9,367	10,484	11,457	12,257	12,869	13,270	13,476	13,515	13,421	13,231
1272	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Retail	ROB	660	1,651	2,752	3,931	5,228	6,852	8,818	11,104	13,643	16,320	18,797	21,031	22,975	24,573	25,790	26,583	26,987	27,054	26,856	26,467
1273	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	ROB	27	68	113	161	215	281	362	456	560	670	772	864	945	1,011	1,061	1,094	1,112	1,115	1,107	1,092
1274	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	ROB	13	33	56	79	106	138	178	225	276	330	380	426	465	498	523	539	547	549	545	538
1275	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Other	ROB	243	607	1,012	1,445	1,922	2,519	3,242	4,083	5,017	6,002	6,914	7,736	8,453	9,042	9,492	9,787	9,937	9,965	9,894	9,753
1276	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	BSS	ROB	17	43	72	103	137	180	231	291	358	428	493	552	603	645	677	699	709	712	707	697
1277	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Education	ROB	20	51	85	121	162	212	273	343	422	505	588	666	737	798	848	882	904	918	925	926
1278	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Sales	ROB	2,249	5,623	9,371	13,388	17,810	23,345	30,047	37,846	46,511	55,656	64,801	73,466	81,265	87,967	93,502	97,250	99,679	101,177	101,940	102,072
1279	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Health	ROB	23	57	94	135	179	235	302	380	467	559	651	738	817	884	940	977	1,002	1,017	1,024	1,026
1280	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Lodging	ROB	15	37	62	88	118	154	198	250	307	367	428	485	536	580	617	642	658	668	673	673
1281	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Office	ROB	306	766	1,276	1,823	2,425	3,178	4,091	5,153	6,332	7,578	8,823	10,002	11,064	11,977	12,730	13,241	13,571	13,775	13,879	13,897
1282	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Service	ROB	329	822	1,370	1,957	2,603	3,412	4,392	5,532	6,798	8,135	9,472	10,738	11,878	12,858	13,667	14,215	14,570	14,789	14,900	14,920
1283	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Retail	ROB	667	1,668	2,780	3,972	5,284	6,926	8,914	11,228	13,798	16,511	19,224	21,795	24,108	26,096	27,738	28,850	29,571	30,015	30,242	30,281
1284	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Warehouse	ROB	27	68	114	163	217	284	366	461	566	677	789	894	989	1,071	1,138	1,183	1,213	1,231	1,241	1,242
1285	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Assembly	ROB	13	34	56	80	107	140	180	227	279	334	388	440	487	527	560	583	597	606	611	612
1286	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Other	ROB	226	565	941	1,344	1,788	2,344	3,017	3,800	4,670	5,588	6,506	7,376	8,159	8,832	9,387	9,764	10,007	10,158	10,234	10,248
1287	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	BSS	ROB	17	42	71	101	134	176	227	285	351	420	489	554	613	664	705	734	752	763	769	770
1288	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Education	ROB	1,997	4,992	8,320	11,885	15,811	20,725	26,676	33,599	41,292	49,411	57,530	65,222	71,547	76,599	80,514	83,371	85,248	86,102	86,064	85,282
1289	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Sales	ROB	279	697	1,162	1,659	2,207	2,894	3,724	4,691	5,765	6,898	8,032	9,106	9,989	10,694	11,241	11,640	11,902	12,021	12,016	11,906
1290	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Health	ROB	1,091	2,727	4,545	6,492	8,637	11,321	14,572	18,354	22,556	26,991	31,426	35,628	39,082	41,842	43,981	45,541	46,567	47,033	47,012	46,585
1291	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Lodging	ROB	1,126	2,814	4,691	6,701	8,914	11,685	15,040	18,943	23,280	27,858	32,435	36,772	40,338	43,186	45,394	47,004	48,063	48,544	48,523	48,082
1292	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Office	ROB	2,253	5,633	9,389	13,413	17,843	23,389	30,104	37,917	46,598	55,760	64,922	73,603	80,741	86,442	90,860	94,084	96,202	97,166	97,123	96,241
1293	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Service	ROB	4,409	11,023	18,372	26,246	34,916	45,767	58,907	74,196	91,183	109,112	127,041	144,027	157,994	169,149	177,796	184,104	188,249	190,135	190,051	188,324
1294	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Retail	ROB	1,937	4,841	8,069	11,527	15,335	20,101	25,872	32,587	40,047	47,922	55,796	63,257	69,391	74,290	78,088	80,858	82,679	83,507	83,470	82,712
1295	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Warehouse	ROB	778	1,945	3,242	4,631	6,161	8,075	10,394	13,091	16,089	19,252	22,416	25,413	27,877	29,845	31,371	32,484	33,215	33,548	33,533	33,229
1296	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Assembly	ROB	720	1,799	2,998	4,283	5,698	7,469	9,614	12,109	14,881	17,807	20,733	23,505	25,785	27,605	29,016	30,046	30,722	31,030	31,016	30,735
1297	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Other	ROB	1,720	4,300	7,167	10,239	13,621	17,855	22,981	28,945	35,572	42,566	49,561	56,188	61,636	65,988	69,361	71,822	73,439	74,175	74,142	73,469
1298	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-BSS	BSS	ROB	406	1,016	1,693	2,418	3,217	4,217	5,427	6,836	8,401	10,053	11,705	13,270	14,556	15,584	16,381	16,962	17,344	17,518	17,510	17,351
1299	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Education	ROB	4,857	12,142	20,236	28,909	38,458	50,411	64,884	81,724	100,434	120,183	139,931	158,641	174,025	186,312	195,836	202,784	207,350	209,427	209,335	207,433
1300	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Sales	ROB	114	284	474	677	900	1,180	1,519	1,913	2,352	2,814	3,276	3,714	4,075	4,362	4,585	4,748	4,855	4,903	4,901	4,857
1301	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Health	ROB	1,879	4,699	7,831	11,187	14,883	19,508	25,109	31,626	38,866	46,509	54,151	61,391	67,345	72,100	75,785	78,474	80,241	81,045	81,009	80,273
1302	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Lodging	ROB	2,034	5,086	8,476	12,109	16,108	21,115	27,177	34,230	42,067	50,339	58,611	66,447	72,891	78,037	82,027	84,937	86,849	87,719	87,680	86,884
1303	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Office	ROB	3,540	8,851	14,752	21,074	28,036	36,749	47,300	59,576	73,216	87,612	102,009	115,648	126,863	135,820	142,763	147,828	151,156	152,671	152,603	151,217
1304	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Service	ROB	5,731	14,326	23,877	34,111	45,379	59,482	76,559	96,430	118,506	141,808	165,110	187,187	205,338	219,837	231,075	239,273	244,660	247,112	247,002	244,758
1305	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Retail	ROB	1,456	3,640	6,067	8,667	11,530	15,114	19,453	24,502	30,112	36,032	41,953	47,563	52,175	55,859	58,714	60,797	62,166	62,789	62,761	62,191
1306	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Warehouse	ROB	1,906	4,764	7,940	11,344	15,091	19,781	25,460	32,068	39,409	47,159	54,908	62,249	68,286	73,107	76,844	79,571	81,362	82,177	82,141	81,395
1307	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Assembly	ROB	1,486	3,716	6,193	8,848	11,771	15,429	19,858	25,013	30,739	36,783	42,827	48,554	53,262	57,023	59,938	62,064	63,462	64,098	64,069	63,487
1308	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Other	ROB	1,657	4,143	6,906	9,865	13,124	17,203	22,142	27,888	34,273	41,012	47,751	54,136	59,386	63,579	66,829	69,200	70,758	71,467	71,435	70,786
1309	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-BSS	BSS	ROB	1,094	2,736	4,560	6,515	8,667	11,360	14,622	18,417	22,634	27,084	31,535	35,751	39,218	41,987	44,133	45,699	46,728	47,196	47,175	46,747
1310	Refrigeration	Commercial Ice Maker	Biz-Custom	Education	ROB	168	420	700	1,000	1,331	1,744	2,245	2,828	3,475	4,108	4,716	5,280	5,772	6,174	6,464	6,644	6,726	6,728	6,635	6,486
1311	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Sales	ROB	23	58	97	139	185	242	311	392	482	570	654	732	801	856	896	921	933	933	920	899
1312	Refrigeration	Commercial Ice Maker	Biz-Custom	Health	ROB	80	200	333	476	633	830	1,068	1,345	1,653	1,954	2,243	2,511	2,745	2,936	3,074	3,160	3,199	3,199	3,155	3,084
1313	Refrigeration	Commercial Ice Maker	Biz-Custom	Lodging	ROB	144	359	598	855	1,137	1,491	1,919	2,417	2,970	3,511	4,030	4,512	4,933	5,276	5,523	5,677	5,748	5,749	5,669	5,542
1314	Refrigeration	Commercial Ice Maker	Biz-Custom	Office	ROB	301	753	1,255	1,793	2,385	3,127	4,025	5,069	6,230	7,364	8,454	9,464	10,347	11,067	11,586	11,909	12,056	12,059	11,892	11,625
1315	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Service	ROB	240	599	999	1,427	1,898	2,488	3,203	4,034	4,957	5,860	6,727	7,531	8,234	8,806	9,219	9,477	9,594	9,596	9,463	9,251
1316	Refrigeration	Commercial Ice Maker	Biz-Custom	Retail	ROB	107	269	448	639	851	1,115	1,435	1,808	2,221	2,626	3,014	3,374	3,689	3,946	4,131	4,246	4,299	4,300	4,240	4,145
1317	Refrigeration	Commercial Ice Maker	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1318	Refrigeration	Commercial Ice Maker	Biz-Custom	Assembly	ROB	68	170	283	405	539	706	909	1,145	1,407	1,663	1,909	2,137	2,336	2,499	2,616	2,689	2,722	2,723	2,685	2,625
1319	Refrigeration	Commercial Ice Maker	Biz-Custom	Other	ROB	175	436	727	1,039	1,382	1,812	2,332	2,938	3,610	4,268	4,899	5,484	5,996	6,413	6,714	6,901	6,987	6,989	6,892	6,737
1320	Refrigeration	Commercial Ice Maker	Biz-Custom	BSS	ROB	40	100	167	239	318	417	536	675	830	981	1,126	1,261	1,378	1,474	1,543	1,586	1,606	1,606	1,584	1,549
1321	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Education	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1322	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Sales	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1323	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Health	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1324	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Lodging	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1325	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Office	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1326	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Service	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1327	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Retail	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1328	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Warehouse	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1329	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Assembly	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1330	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Other	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1331	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	BSS	ROB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1332	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1333	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1334	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1335	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1336	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1337	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1338	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1339	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1340	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1341	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1342	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1343	Refrigeration	Refrigeration - Custom	Biz-Custom	Education	RET	5,583	8,358	9,267	9,906	10,880	13,574	16,374	18,966	20,965	22,010	25,659	26,257	24,704	22,459	20,306	19,468	19,042	18,892	18,755	18,336
1344	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Sales	RET	16,284	24,345	26,947	28,752	31,511	39,206	47,131	54,371	59,820	62,476	72,437	73,712	68,979	62,387	56,137	53,589	52,217	51,631	51,102	49,831
1345	Refrigeration	Refrigeration - Custom	Biz-Custom	Health	RET	10,321	15,454	17,137	18,322	20,127	25,116	30,303	35,112	38,826	40,777	47,556	48,680	45,816	41,662	37,676	36,126	35,340	35,064	34,810	34,033
1346	Refrigeration	Refrigeration - Custom	Biz-Custom	Lodging	RET	6,502	9,736	10,797	11,545	12,683	15,829	19,101	22,136	24,482	25,717	29,998	30,713	28,912	26,295	23,783	22,807	22,314	22,141	21,982	21,493
1347	Refrigeration	Refrigeration - Custom	Biz-Custom	Office	RET	8,155	12,213	13,547	14,487	15,919	19,871	23,985	27,804	30,760	32,321	37,712	38,618	36,357	33,067	29,905	28,674	28,047	27,824	27,617	26,995
1348	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Service	RET	16,137	24,146	26,754	28,579	31,364	39,091	47,095	54,473	60,117	63,004	73,322	74,900	70,359	63,873	57,679	55,243	53,990	53,529	53,109	51,900
1349	Refrigeration	Refrigeration - Custom	Biz-Custom	Retail	RET	18,907	28,292	31,349	33,489	36,753	45,808	55,187	63,830	70,438	73,810	85,878	87,700	82,351	74,725	67,442	64,555	63,052	62,475	61,948	60,503
1350	Refrigeration	Refrigeration - Custom	Biz-Custom	Warehouse	RET	4,834	7,234	8,017	8,566	9,403	11,723	14,128	16,349	18,052	18,929	22,042	22,530	21,176	19,234	17,377	16,650	16,278	16,144	16,022	15,661
1351	Refrigeration	Refrigeration - Custom	Biz-Custom	Assembly	RET	2,275	3,410	3,786	4,052	4,456	5,570	6,733	7,818	8,666	9,125	10,670	10,950	10,329	9,411	8,524	8,184	8,014	7,957	7,904	7,731
1352	Refrigeration	Refrigeration - Custom	Biz-Custom	Other	RET	9,489	14,202	15,740	16,819	18,465	23,024	27,752	32,119	35,470	37,198	43,318	44,277	41,614	37,793	34,137	32,701	31,962	31,689	31,439	30,721
1353	Refrigeration	Refrigeration - Custom	Biz-Custom	BSS	RET	1,283	1,923	2,134	2,283	2,511	3,137	3,791	4,401	4,876	5,132	5,997	6,152	5,800	5,282	4,783	4,591	4,495	4,462	4,431	4,334
1354	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Education	RET	11,910	17,831	19,770	21,134	23,212	37,196	47,238	54,074	59,237	62,848	72,113	76,250	76,327	74,210	70,790	71,620	69,669	65,773	61,177	56,388
1355	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Sales	RET	34,739	51,936	57,488	61,338	67,224	107,429	135,972	155,017	169,023	178,397	203,577	214,061	213,116	206,141	195,703	197,147	191,043	179,749	166,692	153,247
1356	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Health	RET	22,018	32,968	36,559	39,086	42,937	68,820	87,425	100,108	109,705	116,436	133,651	141,367	141,552	137,661	131,344	132,903	129,297	122,074	113,548	104,661
1357	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Lodging	RET	13,871	20,771	23,034	24,629	27,058	43,374	55,107	63,111	69,174	73,433	84,307	89,192	89,326	86,885	82,910	83,905	81,637	77,084	71,706	66,098
1358	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Office	RET	17,397	26,055	28,900	30,906	33,960	54,450	69,198	79,272	86,914	92,292	105,986	112,148	112,328	109,260	104,253	105,488	102,615	96,868	90,086	83,018
1359	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Service	RET	34,426	51,511	57,075	60,968	66,910	107,114	135,869	155,309	169,863	179,905	206,063	217,509	217,381	211,052	201,080	203,230	197,529	186,356	173,239	159,608
1360	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Retail	RET	40,335	60,356	66,879	71,443	78,407	125,520	159,215	181,987	199,025	210,760	241,352	254,681	254,433	246,909	235,114	237,488	230,684	217,502	202,071	186,064
1361	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Warehouse	RET	10,313	15,433	17,103	18,273	20,059	32,122	40,760	46,612	51,006	54,052	61,947	65,426	65,425	63,553	60,579	61,252	59,556	56,205	52,263	48,162
1362	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Assembly	RET	4,854	7,275	8,076	8,644	9,507	15,262	19,424	22,290	24,487	26,057	29,988	31,799	31,912	31,095	29,716	30,108	29,320	27,703	25,783	23,775
1363	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Other	RET	20,243	30,297	33,580	35,881	39,392	63,088	80,065	91,574	100,221	106,218	121,742	128,582	128,571	124,877	119,009	120,301	116,935	110,322	102,553	94,476
1364	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	BSS	RET	2,737	4,102	4,552	4,871	5,357	8,597	10,937	12,547	13,777	14,653	16,855	17,864	17,920	17,454	16,675	16,890	16,444	15,534	14,455	13,328
1365	Ventilation	Demand Controlled Ventilation	Biz-Standard	Education	RET	259,570	321,994	386,412	445,751	491,326	515,021	512,041	482,840	432,992	371,059	476,784	457,814	448,458	445,653	442,947	433,449	353,006	334,444	301,030	258,709
1366	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Sales	RET	20,404	25,298	30,354	35,021	38,618	40,504	40,295	38,021	34,114	29,248	37,596	36,126	35,407	35,185	34,972	34,222	27,871	26,405	23,767	20,426
1367	Ventilation	Demand Controlled Ventilation	Biz-Standard	Health	RET	220,881	274,367	329,680	380,755	420,118	440,760	438,517	413,737	371,181	318,192	408,951	392,685	384,662	382,256	379,935	371,788	302,788	286,867	258,206	221,906
1368	Ventilation	Demand Controlled Ventilation	Biz-Standard	Lodging	RET	188,167	226,083	260,986	287,738	301,571	299,707	282,468	253,169	216,848	178,616	267,219	261,632	259,824	258,246	252,709	205,809	194,987	175,506	150,832	124,561
1369	Ventilation	Demand Controlled Ventilation	Biz-Standard	Office	RET	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	882,092	728,453
1370	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Service	RET	120,099	144,065	166,100	182,977	191,691	190,482	179,537	160,941	137,880	113,592	169,969	166,534	165,471	164,466	160,939	131,071	124,179	111,772	96,058	79,327
1371	Ventilation	Demand Controlled Ventilation	Biz-Standard	Retail	RET	488,801	587,315	678,012	747,542	783,509	778,693	733,926	657,815	563,454	464,119	694,356	679,844	675,150	671,050	656,661	534,792	506,671	456,050	391,936	323,670
1372	Ventilation	Demand Controlled Ventilation	Biz-Standard	Warehouse	RET	120,552	144,676	166,794	183,640	192,207	190,777	179,602	160,821	137,643	113,306	169,433	165,822	164,626	163,626	160,118	130,401	123,545	111,201	95,568	78,922
1373	Ventilation	Demand Controlled Ventilation	Biz-Standard	Assembly	RET	78,267	94,038	108,556	119,683	125,437	124,661	117,491	105,304	90,197	74,294	111,148	108,824	108,072	107,416	105,113	85,605	81,104	73,001	62,738	51,810
1374	Ventilation	Demand Controlled Ventilation	Biz-Standard	Other	RET	87,480	105,238	121,624	134,216	140,758	139,935	131,896	118,201	101,221	83,353	124,669	122,035	121,169	120,368	117,740	95,888	90,846	81,770	70,274	58,034
1375	Ventilation	Demand Controlled Ventilation	Biz-BSS	BSS	RET	104,482	0	0	0	0	0	0	0	0	0	72,075	0	0	0	0	0	0	0	0	0
1376	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Education	RET	363,629	403,992	426,414	426,414	403,992	363,629	312,508	258,077	206,200	160,445	122,289	91,747	68,020	0	0	254,540	282,794	298,489	298,489	282,794
1377	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Sales	RET	48,805	48,805	46,239	41,619	35,768	29,538	23,601	18,364	13,997	10,501	7,785	0	0	0	0	34,164	34,164	32,367	29,134	25,038
1378	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Health	RET	309,024	343,326	362,381	362,381	343,326	309,024	265,580	219,323	175,236	136,351	103,925	77,969	57,806	0	0	216,317	240,328	253,667	253,667	240,328
1379	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Lodging	RET	230,153	255,700	269,892	269,892	255,700	230,153	197,797	163,346	130,511	101,551	77,401	58,070	43,052	0	0	161,107	178,990	188,924	188,924	178,990
1380	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Office	RET	#######	#######	#######	#######	#######	#######	#######	876,641	682,117	519,901	390,053	289,182	0	0	0	#######	#######	#######	#######	#######
1381	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Service	RET	251,088	251,088	237,885	214,118	184,016	151,965	121,418	94,476	72,008	54,024	40,053	0	0	0	0	175,762	175,762	166,520	149,883	128,811
1382	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Retail	RET	590,610	656,168	692,586	692,586	656,168	590,610	507,579	419,171	334,912	260,596	198,623	149,016	110,479	0	0	413,427	459,318	484,810	484,810	459,318
1383	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Warehouse	RET	118,076	131,183	138,463	138,463	131,183	118,076	101,476	83,802	66,956	52,099	39,709	29,792	22,087	0	0	82,653	91,828	96,924	96,924	91,828
1384	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Assembly	RET	95,731	106,357	112,260	112,260	106,357	95,731	82,273	67,943	54,285	42,240	32,194	24,154	17,907	0	0	67,012	74,450	78,582	78,582	74,450
1385	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Other	RET	57,564	69,705	81,108	90,111	95,112	95,112	90,111	81,108	69,705	57,564	45,993	35,787	27,277	20,464	15,172	40,295	48,794	56,775	63,077	66,578
1386	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-BSS	BSS	RET	137,889	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96,522	0	0	0	0
1387	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1388	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1389	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1390	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1391	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1392	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1393	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1394	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1395	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1396	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1397	Ventilation	High Volume Low Speed Fan, 20	Biz-BSS	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1398	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Education	RET	42,274	46,967	49,573	49,573	46,967	42,274	36,331	30,003	23,972	18,653	43,809	43,543	42,609	34,701	32,877	29,592	25,432	21,002	16,780	13,057
1399	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Sales	RET	3,326	3,695	3,900	3,900	3,695	3,326	2,858	2,360	1,886	1,467	3,447	3,426	3,352	2,730	2,586	2,328	2,001	1,652	1,320	1,027
1400	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Health	RET	35,926	39,914	42,129	42,129	39,914	35,926	30,875	25,498	20,372	15,852	37,230	37,004	36,211	29,490	27,940	25,148	21,613	17,848	14,261	11,096

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1401	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Lodging	RET	26,757	29,727	31,377	31,377	29,727	26,757	22,995	18,990	15,173	11,806	27,728	27,560	26,969	21,964	20,809	18,730	16,097	13,293	10,621	8,264
1402	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Office	RET	157,788	175,303	185,032	185,032	175,303	157,788	135,606	111,986	89,476	69,621	163,516	162,523	159,038	129,523	122,712	110,452	94,924	78,390	62,633	48,735
1403	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Service	RET	17,110	19,009	20,064	20,064	19,009	17,110	14,705	12,143	9,702	7,550	17,731	17,624	17,246	14,045	13,307	11,977	10,293	8,500	6,792	5,285
1404	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Retail	RET	69,504	77,219	81,504	81,504	77,219	69,504	59,732	49,329	39,413	30,667	72,027	71,589	70,054	57,053	54,053	48,653	41,813	34,530	27,589	21,467
1405	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Warehouse	RET	68,636	76,254	80,486	80,486	76,254	68,636	58,986	48,712	38,921	30,284	71,127	70,695	69,179	56,340	53,378	48,045	41,290	34,099	27,244	21,199
1406	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Assembly	RET	11,129	12,365	13,051	13,051	12,365	11,129	9,565	7,899	6,311	4,911	11,533	11,463	11,218	9,136	8,655	7,791	6,695	5,529	4,418	3,437
1407	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Other	RET	12,424	13,803	14,569	14,569	13,803	12,424	10,677	8,818	7,045	5,482	12,875	12,797	12,522	10,198	9,662	8,697	7,474	6,172	4,932	3,837
1408	Ventilation	High Volume Low Speed Fan, 22	Biz-BSS	BSS	RET	14,935	0	0	0	0	0	0	0	0	0	10,454	0	0	0	0	0	0	0	0	0
1409	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Education	RET	49,045	54,489	57,513	57,513	54,489	49,045	42,150	34,809	27,812	21,640	50,825	50,517	49,434	40,259	38,142	34,332	29,505	24,366	19,468	15,148
1410	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Sales	RET	3,858	4,287	4,525	4,525	4,287	3,858	3,316	2,738	2,188	1,702	3,999	3,974	3,889	3,167	3,001	2,701	2,321	1,917	1,532	1,192
1411	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Health	RET	41,680	46,307	48,877	48,877	46,307	41,680	35,821	29,582	23,635	18,391	43,193	42,931	42,010	34,214	32,415	29,176	25,074	20,707	16,545	12,873
1412	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Lodging	RET	31,042	34,488	36,402	36,402	34,488	31,042	26,678	22,032	17,603	13,697	32,169	31,974	31,288	25,481	24,142	21,730	18,675	15,422	12,322	9,588
1413	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Office	RET	183,061	203,380	214,668	214,668	203,380	183,061	157,325	129,923	103,807	80,772	189,706	188,554	184,511	150,268	142,366	128,142	110,127	90,946	72,665	56,541
1414	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Service	RET	19,851	22,054	23,278	23,278	22,054	19,851	17,060	14,088	11,256	8,759	20,571	20,446	20,008	16,295	15,438	13,895	11,942	9,862	7,880	6,131
1415	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Retail	RET	80,636	89,586	94,558	94,558	89,586	80,636	69,300	57,229	45,725	35,579	83,563	83,056	81,275	66,191	62,710	56,445	48,510	40,060	32,008	24,905
1416	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Warehouse	RET	79,629	88,467	93,377	93,377	88,467	79,629	68,434	56,514	45,154	35,135	82,519	82,018	80,259	65,364	61,927	55,740	47,904	39,560	31,608	24,594
1417	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Assembly	RET	12,912	14,345	15,141	15,141	14,345	12,912	11,097	9,164	7,322	5,697	13,381	13,299	13,014	10,599	10,042	9,038	7,768	6,415	5,125	3,988
1418	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Other	RET	14,414	16,014	16,903	16,903	16,014	14,414	12,388	10,230	8,174	6,360	14,937	14,847	14,528	11,832	11,210	10,090	8,671	7,161	5,722	4,452
1419	Ventilation	High Volume Low Speed Fan, 24	Biz-BSS	BSS	RET	17,327	0	0	0	0	0	0	0	0	0	12,129	0	0	0	0	0	0	0	0	0
1420	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Education	RET	195,588	206,444	206,444	195,588	176,047	151,297	124,945	99,829	77,678	59,205	44,418	32,931	0	0	0	136,912	144,510	144,510	136,912	123,233
1421	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Sales	RET	15,387	16,241	16,241	15,387	13,850	11,903	9,830	7,854	6,111	4,658	3,494	2,591	0	0	0	10,771	11,369	11,369	10,771	9,695
1422	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Health	RET	166,218	175,443	175,443	166,218	149,611	128,578	106,183	84,838	66,013	50,314	37,748	27,986	0	0	0	116,352	122,810	122,810	116,352	104,728
1423	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Lodging	RET	123,795	130,665	130,665	123,795	111,426	95,761	79,082	63,185	49,165	37,473	28,114	20,843	0	0	0	86,656	91,466	91,466	86,656	77,998
1424	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Office	RET	730,033	770,550	770,550	730,033	657,095	564,717	466,357	372,613	289,931	220,982	165,791	122,916	0	0	0	511,023	539,385	539,385	511,023	459,966
1425	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Service	RET	79,162	83,556	83,556	79,162	71,253	61,236	50,570	40,405	31,439	23,963	17,978	13,329	0	0	0	55,414	58,489	58,489	55,414	49,877
1426	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Retail	RET	321,570	339,417	339,417	321,570	289,441	248,750	205,424	164,131	127,711	97,340	73,029	54,143	0	0	0	225,099	237,592	237,592	225,099	202,609
1427	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Warehouse	RET	79,388	83,794	83,794	79,388	71,457	61,411	50,715	40,520	31,529	24,031	18,029	13,367	0	0	0	55,572	58,656	58,656	55,572	50,020
1428	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Assembly	RET	51,492	54,349	54,349	51,492	46,347	39,831	32,894	26,282	20,450	15,587	11,694	8,670	0	0	0	36,044	38,045	38,045	36,044	32,443
1429	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Other	RET	57,482	60,672	60,672	57,482	51,739	44,465	36,720	29,339	22,829	17,400	13,054	9,678	0	0	0	40,237	42,470	42,470	40,237	36,217
1430	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-BSS	BSS	RET	74,629	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52,240	0	0	0	0
1431	Ventilation	Cogged V-Belt	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1432	Ventilation	Cogged V-Belt	Biz-Custom	Food Sales	RET	642	642	608	548	920	838	736	625	828	725	618	438	580	507	433	306	406	355	303	214
1433	Ventilation	Cogged V-Belt	Biz-Custom	Health	RET	8,408	8,408	7,965	7,170	12,047	10,974	9,641	8,182	10,844	9,491	8,090	5,728	7,591	6,643	5,663	4,009	5,314	4,650	3,964	2,807
1434	Ventilation	Cogged V-Belt	Biz-Custom	Lodging	RET	5,167	5,167	4,895	4,406	7,404	6,744	5,925	5,029	6,664	5,833	4,972	3,520	4,665	4,083	3,480	2,464	3,266	2,858	2,436	1,725
1435	Ventilation	Cogged V-Belt	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1436	Ventilation	Cogged V-Belt	Biz-Custom	Food Service	RET	3,304	3,304	3,130	2,818	4,734	4,313	3,789	3,216	4,262	3,730	3,179	2,251	2,983	2,611	2,226	1,576	2,088	1,828	1,558	1,103
1437	Ventilation	Cogged V-Belt	Biz-Custom	Retail	RET	13,422	13,422	12,716	11,446	19,232	17,519	15,392	13,062	17,311	15,151	12,915	9,143	12,118	10,606	9,041	6,400	8,483	7,424	6,328	4,480
1438	Ventilation	Cogged V-Belt	Biz-Custom	Warehouse	RET	2,651	2,651	2,511	2,261	3,798	3,460	3,040	2,580	3,419	2,992	2,551	1,806	2,393	2,095	1,786	1,264	1,675	1,466	1,250	885
1439	Ventilation	Cogged V-Belt	Biz-Custom	Assembly	RET	2,149	2,149	2,036	1,833	3,080	2,805	2,465	2,092	2,772	2,426	2,068	1,464	1,940	1,698	1,448	1,025	1,358	1,189	1,013	717
1440	Ventilation	Cogged V-Belt	Biz-Custom	Other	RET	2,399	2,399	2,273	2,046	3,438	3,132	2,751	2,335	3,094	2,708	2,309	1,634	2,166	1,896	1,616	1,144	1,516	1,327	1,131	801
1441	Ventilation	Cogged V-Belt	Biz-Custom	BSS	RET	512	512	485	436	733	668	587	498	660	577	492	348	462	404	345	244	323	283	241	171
1442	Ventilation	Switch Reluctance Motors	Biz-Custom	Education	RET	490,459	490,459	464,669	418,244	359,445	296,838	237,170	184,543	140,656	105,527	78,237	0	343,321	343,321	325,269	292,771	251,612	207,787	166,019	129,180
1443	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Sales	RET	26,383	26,383	24,995	22,498	19,335	15,967	12,758	9,927	7,566	5,676	4,208	0	18,468	18,468	17,497	15,749	13,535	11,177	8,930	6,949
1444	Ventilation	Switch Reluctance Motors	Biz-Custom	Health	RET	257,065	257,065	243,548	219,215	188,396	155,582	124,308	96,725	73,722	55,310	41,006	0	179,945	179,945	170,483	153,450	131,877	108,908	87,016	67,707
1445	Ventilation	Switch Reluctance Motors	Biz-Custom	Lodging	RET	212,255	212,255	201,094	181,003	155,557	128,462	102,640	79,864	60,872	45,669	33,858	0	148,579	148,579	140,766	126,702	108,890	89,924	71,848	55,905
1446	Ventilation	Switch Reluctance Motors	Biz-Custom	Office	RET	#######	#######	#######	#######	#######	#######	885,236	688,805	524,998	393,877	292,017	0	#######	#######	#######	#######	939,139	775,564	619,665	482,163
1447	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Service	RET	135,730	135,730	128,593	115,745	99,473	82,147	65,635	51,071	38,925	29,204	21,651	0	95,011	95,011	90,015	81,022	69,631	57,503	45,944	35,749
1448	Ventilation	Switch Reluctance Motors	Biz-Custom	Retail	RET	551,356	551,356	522,364	470,175	404,075	333,695	266,618	207,456	158,120	118,629	87,951	0	385,949	385,949	365,655	329,122	282,852	233,586	186,632	145,219
1449	Ventilation	Switch Reluctance Motors	Biz-Custom	Warehouse	RET	108,894	108,894	103,168	92,860	79,806	65,905	52,658	40,973	31,229	23,429	17,370	0	76,226	76,226	72,218	65,002	55,864	46,134	36,860	28,681
1450	Ventilation	Switch Reluctance Motors	Biz-Custom	Assembly	RET	88,286	88,286	83,644	75,287	64,703	53,433	42,692	33,219	25,319	18,996	14,083	0	61,800	61,800	58,551	52,701	45,292	37,403	29,885	23,253
1451	Ventilation	Switch Reluctance Motors	Biz-Custom	Other	RET	98,557	98,557	93,375	84,046	72,230	59,649	47,659	37,084	28,265	21,205	15,722	0	68,990	68,990	65,362	58,832	50,561	41,754	33,361	25,959
1452	Ventilation	Switch Reluctance Motors	Biz-Custom	BSS	RET	20,962	20,962	19,859	17,875	15,362	12,687	10,136	7,887	6,011	4,510	3,344	0	14,673	14,673	13,902	12,513	10,754	8,881	7,095	5,521
1453	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Education	RET	565,912	621,402	647,798	639,585	598,277	904,228	860,774	796,498	715,728	623,728	776,055	707,635	634,531	488,600	428,219	535,526	490,501	441,372	340,685	299,183
1454	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Sales	RET	42,850	47,098	49,168	48,637	45,600	69,097	65,953	61,187	55,119	48,141	60,011	54,818	49,225	37,942	33,281	41,643	38,144	34,326	26,497	23,270
1455	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Health	RET	273,084	298,656	309,994	304,670	283,622	426,547	404,049	372,113	332,894	288,939	358,269	325,766	291,486	224,144	196,255	245,297	224,639	202,128	156,018	137,055
1456	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Lodging	RET	254,809	278,451	288,572	282,961	262,691	393,911	372,082	341,799	305,217	264,595	327,854	298,015	266,625	204,985	179,462	224,441	205,749	185,294	143,132	125,770
1457	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Office	RET	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	966,248	#######	#######	996,380	769,074	675,506
1458	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Service	RET	199,338	218,958	228,413	225,765	211,517	320,323	305,631	283,476	255,358	223,049	278,097	254,088	228,211	175,917	154,308	193,160	176,937	159,225	122,908	107,931
1459	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Retail	RET	684,429	752,652	785,913	777,396	728,729	#######	#######	977,111	880,095	768,613	958,122	875,006	785,615	605,514	531,073	664,694	608,805	547,818	422,843	371,315
1460	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Warehouse	RET	227,009	249,254	259,902	256,773	240,473	364,073	347,333	322,214	290,303	253,635	316,328	289,020	259,612	200,255	175,759	220,079	201,649	181,504	140,131	123,072
1461	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Assembly	RET	223,782	246,219	257,309	254,779	239,094	362,615	346,406	321,662	289,968	253,399	316,011	288,649	259,169	199,763	175,204	219,258	200,800	180,669	139,442	122,446
1462	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Other	RET	268,797	293,458	304,252	298,820	277,955	417,557	394,887	363,024	323,949	280,319	346,423	313,906	279,958	214,703	187,573	234,188	214,125	192,445	148,421	130,407
1463	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	BSS	RET	56,856	62,222	64,734	63,857	59,704	90,188	85,773	79,270	71,089	61,789	76,713	69,775	62,414	47,941	41,936	52,382	47,908	43,065	33,217	29,180
1464	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Education	RET	675,864	669,449	627,738	558,930	475,068	388,066	306,857	236,537	178,788	133,175	98,152	0	0	0	0	424,589	424,400	401,932	361,661	310,761
1465	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Sales	RET	51,176	50,739	47,645	42,502	36,208	29,652	23,509	18,168	13,766	10,277	7,588	0	0	0	0	33,008	32,997	31,254	28,126	24,169
1466	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Health	RET	326,143	321,751	300,403	266,265	225,236	183,088	144,070	110,537	83,185	61,718	45,333	0	0	0	0	194,572	194,433	184,112	165,652	142,374
1467	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Lodging	RET	305,692	303,066	284,504	253,679	216,004	176,825	140,160	108,310	82,082	61,295	45,279	0	0	0	0	197,383	197,370	186,980	168,288	144,622
1468	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Office	RET	#######	#######	#######	#######	#######	881,365	695,707	535,489	404,291	300,869	221,591	0	0	0	0	958,756	958,192	907,396	816,454	701,661
1469	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Service	RET	238,068	235,888	221,340	197,293	167,953	137,466	108,946	84,175	63,779	47,616	35,165	0	0	0	0	153,107	153,063	144,976	130,462	112,100
1470	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Retail	RET	817,409	810,844	761,569	679,347	578,631	473,756	375,527	290,137	219,812	164,080	121,153	0	0	0	0	526,872	526,663	498,801	448,837	385,662

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1471	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Warehouse	RET	271,115	268,526	251,854	224,391	190,947	156,243	123,813	95,679	72,508	54,146	40,000	0	0	0	0	174,441	174,436	165,258	148,740	127,824
1472	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Assembly	RET	267,261	265,255	249,337	222,642	189,843	155,608	123,473	95,507	72,417	54,090	39,955	0	0	0	0	173,783	173,699	164,498	148,012	127,176
1473	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Other	RET	321,023	316,153	294,841	261,156	220,740	179,235	140,810	107,845	80,959	59,886	43,843	0	0	0	0	185,825	185,388	175,335	157,617	135,487
1474	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	BSS	RET	67,903	67,033	62,730	55,806	47,410	38,707	30,578	23,542	17,759	13,195	9,704	0	0	0	0	41,541	41,461	39,224	35,267	30,312
1475	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1476	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1477	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1478	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Lodging	RET	636,951	788,630	944,247	#######	#######	#######	#######	#######	#######	888,390	730,705	582,276	452,207	344,292	258,088	597,343	508,205	615,434	716,139	795,648
1479	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1480	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1481	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1482	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1483	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1484	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1485	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1486	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Education	RET	463,767	576,007	691,907	798,541	880,045	921,736	915,147	861,565	771,185	659,614	542,592	432,217	335,510	255,316	191,297	141,691	0	0	0	0
1487	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Sales	RET	4,772	5,923	7,110	8,203	9,037	9,463	9,395	8,844	7,916	6,772	5,571	4,439	3,447	2,624	1,966	1,456	0	0	0	0
1488	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Health	RET	223,794	276,843	331,118	380,429	417,277	434,935	429,756	402,743	358,953	305,837	250,751	199,208	154,320	117,282	87,794	64,985	0	0	0	0
1489	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Lodging	RET	67,275	80,811	93,233	102,689	107,475	106,624	100,294	89,716	76,711	63,086	50,243	39,004	29,680	22,247	16,482	0	0	0	0	0
1490	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Office	RET	814,729	975,426	########	########	########	########	########	########	906,062	743,133	590,433	457,476	347,661	260,270	192,634	0	0	0	0	0
1491	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Service	RET	93,358	112,129	129,376	142,535	149,237	148,124	139,395	124,742	106,688	87,754	69,893	54,270	41,298	30,948	22,922	0	0	0	0	0
1492	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Retail	RET	157,961	189,837	219,113	241,417	252,720	250,735	235,831	210,901	180,260	148,177	117,952	91,520	69,605	52,145	38,614	0	0	0	0	0
1493	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Warehouse	RET	43,181	51,810	59,710	65,701	68,705	68,115	64,041	57,277	48,964	40,262	32,063	24,888	18,936	14,197	10,520	0	0	0	0	0
1494	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Assembly	RET	62,720	75,425	87,138	96,118	100,745	100,079	94,242	84,387	72,195	59,388	47,297	36,707	27,919	20,918	15,490	0	0	0	0	0
1495	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Other	RET	95,896	114,451	131,210	143,603	149,241	146,905	137,003	121,503	102,939	83,880	66,222	51,000	38,541	28,736	21,200	0	0	0	0	0
1496	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	BSS	RET	16,399	19,616	22,562	24,795	25,894	25,623	24,023	21,412	18,226	14,914	11,826	9,140	6,927	5,172	3,820	0	0	0	0	0
1497	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Education	RET	159,086	197,714	237,681	274,561	302,892	317,583	315,655	297,479	266,521	228,146	292,820	280,787	274,683	272,608	270,649	264,633	215,422	204,017	183,576	157,739
1498	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Sales	RET	12,030	14,942	17,953	20,729	22,861	23,965	23,817	22,443	20,109	17,215	22,098	21,197	20,743	20,590	20,445	19,993	16,277	15,417	13,874	11,922
1499	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Health	RET	76,768	95,026	113,745	130,804	143,622	149,864	148,243	139,073	124,070	105,800	135,346	129,436	126,362	125,243	124,226	121,382	98,783	93,537	84,157	72,330
1500	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Lodging	RET	71,882	89,303	107,304	123,894	136,625	143,220	142,348	134,169	120,261	103,006	132,298	126,952	124,283	123,429	122,620	119,979	97,703	92,559	83,306	71,590
1501	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Office	RET	366,213	453,463	543,080	625,038	687,083	718,010	711,472	668,631	597,607	510,502	654,113	626,467	612,499	607,518	602,915	589,523	479,821	454,377	408,834	351,347
1502	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Service	RET	56,001	69,565	83,594	96,543	106,506	111,699	111,070	104,729	93,898	80,439	103,320	99,165	97,084	96,393	95,734	93,650	76,246	72,217	64,987	55,840
1503	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Retail	RET	192,199	238,895	287,175	331,684	365,842	383,527	381,162	359,163	321,810	275,515	353,688	339,221	331,916	329,457	327,127	319,960	260,471	246,688	221,976	190,731
1504	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Warehouse	RET	63,743	79,102	94,945	109,515	120,667	126,408	125,579	118,342	106,054	90,827	116,646	111,919	109,553	108,822	108,124	105,801	86,161	81,626	73,467	63,136
1505	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Assembly	RET	62,847	78,166	94,051	108,753	120,102	126,066	125,437	118,347	106,138	90,934	116,792	112,041	109,638	108,834	108,068	105,690	86,032	81,474	73,308	62,988
1506	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Other	RET	75,500	93,194	111,275	127,666	139,799	145,410	143,296	133,911	118,939	100,949	128,532	122,360	118,963	117,516	116,246	113,392	92,127	87,128	78,321	67,322
1507	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	BSS	RET	15,968	19,754	23,664	27,262	29,998	31,365	31,073	29,183	26,040	22,194	28,382	27,116	26,437	26,155	25,903	25,283	20,550	19,441	17,480	15,023
1508	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Education	RET	92,250	113,881	135,902	155,783	170,518	177,447	175,130	164,002	146,127	124,511	102,115	81,173	62,909	47,827	35,808	26,515	0	0	0	0
1509	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Sales	RET	6,985	8,631	10,315	11,847	12,997	13,560	13,419	12,599	11,254	9,611	7,897	6,289	4,881	3,714	2,783	2,062	0	0	0	0
1510	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Health	RET	44,516	54,733	65,032	74,204	80,829	83,698	82,197	76,609	67,956	57,669	47,135	37,364	28,896	21,939	16,410	12,145	0	0	0	0
1511	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Lodging	RET	41,537	51,030	60,538	68,915	74,860	77,289	75,689	70,363	62,301	52,807	43,132	34,180	26,431	20,063	15,006	11,112	0	0	0	0
1512	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Office	RET	212,431	261,403	310,971	355,436	388,057	402,958	396,994	371,214	330,374	281,236	230,490	183,149	141,958	107,917	80,798	59,867	0	0	0	0
1513	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Service	RET	32,494	40,127	47,919	54,990	60,287	62,863	62,185	58,372	52,139	44,530	36,595	29,149	22,627	17,221	12,904	9,564	0	0	0	0
1514	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Retail	RET	111,569	137,935	164,879	189,353	207,707	216,654	214,354	201,203	179,698	153,446	126,081	100,378	77,892	59,274	44,411	32,912	0	0	0	0
1515	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Warehouse	RET	46,558	55,604	63,778	69,850	72,723	71,824	67,306	60,034	51,209	42,036	33,434	25,934	19,722	14,785	10,954	0	0	0	0	0
1516	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Assembly	RET	36,479	45,123	53,982	62,058	68,149	71,165	70,484	66,237	59,208	50,590	41,585	33,113	25,696	19,555	14,651	10,856	0	0	0	0
1517	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Other	RET	55,129	65,465	74,658	81,282	84,048	82,363	76,507	67,622	57,128	46,443	36,603	28,159	21,262	15,847	11,688	0	0	0	0	0
1518	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	BSS	RET	11,661	13,881	15,885	17,370	18,055	17,791	16,620	14,768	12,538	10,239	8,107	6,260	4,741	3,539	2,613	0	0	0	0	0
1519	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Education	RET	38,477	41,918	51,911	62,194	71,629	78,787	82,382	81,644	76,714	68,529	58,547	48,087	38,232	29,623	22,499	16,825	12,442	0	0	0
1520	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Sales	RET	7,974	8,716	10,829	13,015	15,031	16,561	17,326	17,159	16,092	14,332	12,199	9,978	7,902	6,099	4,617	3,443	2,540	0	0	0
1521	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Health	RET	14,919	16,214	20,027	23,926	27,474	30,124	31,395	31,011	29,045	25,867	22,040	18,062	14,334	11,092	8,416	6,290	4,649	0	0	0
1522	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Lodging	RET	14,719	16,004	19,768	23,610	27,096	29,699	30,943	30,562	28,630	25,507	21,743	17,827	14,154	10,955	8,313	6,214	4,595	0	0	0
1523	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Office	RET	77,953	84,818	104,910	125,557	144,478	158,807	165,964	164,413	154,456	137,971	117,894	96,867	77,063	59,746	45,408	33,991	25,153	0	0	0
1524	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Service	RET	16,799	18,343	22,765	27,331	31,535	34,738	36,359	36,046	33,861	30,222	25,782	21,140	16,777	12,974	9,836	7,344	5,421	0	0	0
1525	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Retail	RET	50,640	55,143	68,264	81,769	94,172	103,601	108,362	107,430	100,991	90,262	77,167	63,424	50,456	39,114	29,721	22,238	16,448	0	0	0
1526	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Warehouse	RET	17,193	18,738	23,218	27,840	32,099	35,354	37,024	36,755	34,596	30,958	26,498	21,802	17,362	13,474	10,249	7,676	5,682	0	0	0
1527	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Assembly	RET	11,436	12,474	15,469	18,559	21,406	23,582	24,695	24,512	23,065	20,631	17,644	14,504	11,540	8,947	6,798	5,086	3,761	0	0	0
1528	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Other	RET	69,029	75,336	93,504	112,318	129,724	143,096	150,060	149,134	140,498	125,817	107,740	88,674	70,635	54,820	41,704	31,238	23,131	0	0	0
1529	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	BSS	RET	14,680	16,028	19,909	23,936	27,668	30,567	32,090	31,917	30,083	26,944	23,067	18,977	15,109	11,719	8,909	6,669	4,934	0	0	0
1530	WholeBldg	WholeBlg - Com RET	Biz-Custom	Education	RET	274,822	299,389	370,734	444,134	511,464	562,524	588,126	582,791	547,542	489,074	417,806	343,138	272,801	211,360	160,523	144,542	115,672	33,587	40,570	47,094
1531	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Sales	RET	56,954	62,251	77,337	92,940	107,326	118,239	123,691	122,482	114,854	102,287	87,052	71,203	56,381	43,517	32,942	29,578	23,610	6,842	8,253	9,570
1532	WholeBldg	WholeBlg - Com RET	Biz-Custom	Health	RET	106,559	115,806	143,024	170,860	196,175	215,077	224,125	221,361	207,303	184,603	157,281	128,882	102,277	79,140	60,046	54,033	43,226	12,549	15,156	17,595
1533	WholeBldg	WholeBlg - Com RET	Biz-Custom	Lodging	RET	105,129	114,302	141,177	168,602	193,481	212,041	220,904	218,157	204,343	182,040	155,160	127,209	100,992	78,164	59,313	53,385	42,719	12,403	14,981	17,388
1534	WholeBldg	WholeBlg - Com RET	Biz-Custom	Office	RET	556,782	605,784	749,237	896,624	#######	#######	#######	#######	#######	984,667	841,315	691,216	549,868	426,288	323,977	292,009	233,854	67,953	82,143	95,430
1535	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Service	RET	119,985	131,008	162,584	195,175	225,174	248,024	259,566	257,301	241,680	215,687	183,987	150,849	119,709	92,573	70,181	63,091	50,402	14,613	17,630	20,445
1536	WholeBldg	WholeBlg - Com RET	Biz-Custom	Retail	RET	361,696	393,844	487,522	583,925	672,435	739,685	773,593	766,858	720,820	644,182	550,683	452,575	360,020	279,080	212,053	191,040	152,918	44,412	53,658	62,298
1537	WholeBldg	WholeBlg - Com RET	Biz-Custom	Warehouse	RET	122,804	133,830	165,817	198,811	229,206	252,422	264,318	262,364	246,927	220,943	189,100	155,577	123,888	96,140	73,126	65,943	52,830	15,357	18,569	21,577
1538	WholeBldg	WholeBlg - Com RET	Biz-Custom	Assembly	RET	81,682	89,094	110,473	132,532	152,851	168,368	176,298	174,970	164,628	147,239	125,909	103,497	82,339	63,834	48,503	43,693	34,967	10,153	12,264	14,236
1539	WholeBldg	WholeBlg - Com RET	Biz-Custom	Other	RET	493,039	538,065	667,777	802,079	926,296	#######	#######	#######	#######	897,941	768,868	632,765	504,011	391,145	297,553	268,367	215,058	62,534	75,645	87,942
1540	WholeBldg	WholeBlg - Com RET	Biz-Custom	BSS	RET	104,850	114,477	142,185	170,931	197,566	218,241	229,092	227,830	214,719	192,294	164,617	135,417	107,808	83,614	63,566	57,290	45,877	13,330	16,112	18,716

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1541	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Education	RET	167,057	174,387	172,457	161,555	143,822	122,271	99,941	79,065	60,962	46,078	34,343	25,310	0	0	0	103,432	108,875	108,583	102,623	92,153
1542	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Sales	RET	34,621	36,260	35,976	33,808	30,180	25,701	21,019	16,617	12,788	9,637	7,155	5,252	0	0	0	21,162	22,219	22,116	20,872	18,723
1543	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Health	RET	64,775	67,454	66,531	62,150	55,163	46,748	38,085	30,030	23,079	17,391	12,927	9,505	0	0	0	38,660	40,681	40,564	38,333	34,426
1544	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Lodging	RET	63,905	66,578	65,672	61,329	54,405	46,088	37,537	29,595	22,750	17,150	12,753	9,382	0	0	0	38,197	40,205	40,095	37,891	34,022
1545	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Office	RET	338,454	352,855	348,528	326,148	290,093	246,451	201,335	159,219	122,740	92,770	69,155	50,983	0	0	0	208,962	220,118	219,693	207,789	186,742
1546	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Service	RET	72,936	76,309	75,631	70,996	63,319	53,911	44,109	34,908	26,909	20,321	15,124	11,126	0	0	0	45,144	47,437	47,240	44,592	40,002
1547	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Retail	RET	219,866	229,405	226,784	212,404	189,086	160,778	131,458	104,037	80,255	60,692	45,266	33,382	0	0	0	136,710	143,937	143,584	135,732	121,907
1548	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Warehouse	RET	74,650	77,953	77,134	72,318	64,452	54,867	44,916	35,595	27,493	20,817	15,545	11,476	0	0	0	47,192	49,731	49,651	46,975	42,224
1549	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Assembly	RET	49,652	51,895	51,390	48,209	42,981	36,597	29,959	23,738	18,330	13,873	10,350	7,634	0	0	0	31,268	32,915	32,827	31,024	27,858
1550	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Other	RET	299,706	313,410	310,635	291,759	260,474	222,076	182,048	144,430	111,656	84,606	63,205	46,677	0	0	0	192,066	202,449	202,192	191,367	172,103
1551	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	BSS	RET	63,735	66,680	66,141	62,177	55,556	47,438	38,931	30,910	23,908	18,119	13,533	9,989	0	0	0	41,001	43,186	43,098	40,759	36,626
1552	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Education	NEW	371,897	602,673	276,153	282,892	129,343	313,981	176,783	406,645	413,962	525,580	194,965	474,941	511,311	508,964	218,294	430,592	467,218	613,348	510,466	521,735
1553	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Sales	NEW	76,795	124,449	57,024	58,416	26,709	64,836	36,505	83,970	85,481	108,530	40,259	98,073	105,583	105,099	45,077	88,915	96,479	126,654	105,409	107,736
1554	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Health	NEW	144,494	234,157	107,294	109,912	50,254	121,991	68,686	157,994	160,837	204,204	75,750	184,529	198,660	197,748	84,814	167,298	181,529	238,305	198,332	202,710
1555	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Lodging	NEW	142,459	230,860	105,783	108,365	49,546	120,274	67,718	155,770	158,572	201,329	74,683	181,931	195,863	194,964	83,620	164,943	178,973	234,949	195,539	199,856
1556	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Office	NEW	754,368	#######	560,157	573,827	262,364	636,889	358,592	824,852	839,694	#######	395,473	963,384	#######	#######	442,795	873,427	947,721	#######	#######	#######
1557	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Service	NEW	161,976	262,487	120,275	123,210	56,334	136,751	76,996	177,110	180,296	228,910	84,915	206,855	222,696	221,673	95,076	187,540	203,492	267,137	222,328	227,236
1558	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Retail	NEW	489,713	793,598	363,637	372,512	170,319	413,450	232,787	535,470	545,104	692,082	256,730	625,400	673,293	670,202	287,449	567,003	615,232	807,656	672,181	687,020
1559	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Warehouse	NEW	166,154	269,258	123,378	126,389	57,787	140,278	78,982	181,678	184,947	234,815	87,105	212,191	228,440	227,391	97,528	192,377	208,741	274,028	228,063	233,097
1560	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Assembly	NEW	110,412	178,927	81,987	83,988	38,401	93,218	52,485	120,729	122,901	156,039	57,883	141,005	151,803	151,106	64,809	127,838	138,712	182,096	151,552	154,897
1561	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Other	NEW	666,337	#######	494,789	506,864	231,747	562,567	316,746	728,596	741,705	941,693	349,323	850,962	916,127	911,922	391,123	771,502	837,126	########	914,614	934,805
1562	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	BSS	NEW	141,832	229,843	105,317	107,888	49,328	119,744	67,420	155,084	157,874	200,442	74,354	181,130	195,000	194,105	83,252	164,216	178,185	233,915	194,678	198,976
1563	WholeBldg	COM Competitions	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1564	WholeBldg	COM Competitions	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1565	WholeBldg	COM Competitions	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1566	WholeBldg	COM Competitions	Biz-Custom	Lodging	RET	412	609	948	1,120	1,409	1,705	2,086	2,454	2,842	3,160	3,419	3,556	3,593	3,513	3,356	3,129	2,869	2,585	2,303	2,026
1567	WholeBldg	COM Competitions	Biz-Custom	Office	RET	1,458	2,159	3,364	3,980	5,024	6,094	7,478	8,828	10,253	11,429	12,395	12,920	13,080	12,812	12,258	11,443	10,503	9,470	8,443	7,435
1568	WholeBldg	COM Competitions	Biz-Custom	Food Service	RET	71	105	164	195	247	300	369	436	506	564	610	635	641	626	598	557	510	459	408	359
1569	WholeBldg	COM Competitions	Biz-Custom	Retail	RET	852	1,263	1,970	2,333	2,947	3,578	4,394	5,191	6,033	6,729	7,302	7,613	7,708	7,549	7,221	6,737	6,181	5,570	4,963	4,368
1570	WholeBldg	COM Competitions	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1571	WholeBldg	COM Competitions	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1572	WholeBldg	COM Competitions	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1573	WholeBldg	COM Competitions	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1574	WholeBldg	Business Energy Reports	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1575	WholeBldg	Business Energy Reports	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1576	WholeBldg	Business Energy Reports	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1577	WholeBldg	Business Energy Reports	Biz-Custom	Lodging	RET	89	131	204	241	304	367	449	529	612	681	736	766	774	757	723	674	618	557	496	436
1578	WholeBldg	Business Energy Reports	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1579	WholeBldg	Business Energy Reports	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1580	WholeBldg	Business Energy Reports	Biz-Custom	Retail	RET	127	189	294	348	440	534	656	775	901	1,005	1,090	1,137	1,151	1,127	1,078	1,006	923	832	741	652
1581	WholeBldg	Business Energy Reports	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1582	WholeBldg	Business Energy Reports	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1583	WholeBldg	Business Energy Reports	Biz-Custom	Other	RET	364	541	846	1,005	1,273	1,550	1,909	2,260	2,633	2,942	3,198	3,339	3,385	3,319	3,178	2,969	2,727	2,460	2,195	1,934
1584	WholeBldg	Business Energy Reports	Biz-Custom	BSS	RET	77	115	180	214	272	331	408	484	564	630	685	715	724	709	679	634	582	524	467	412
1585	WholeBldg	Building Benchmarking	Biz-Custom	Education	RET	263	390	609	721	911	1,106	1,358	1,604	1,863	2,077	2,252	2,346	2,374	2,324	2,222	2,072	1,901	1,712	1,525	1,342
1586	WholeBldg	Building Benchmarking	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1587	WholeBldg	Building Benchmarking	Biz-Custom	Health	RET	36	53	83	98	123	149	183	215	249	277	299	311	314	307	293	273	251	226	201	177
1588	WholeBldg	Building Benchmarking	Biz-Custom	Lodging	RET	48	71	110	130	164	198	242	285	330	367	397	413	417	408	390	363	333	300	267	235
1589	WholeBldg	Building Benchmarking	Biz-Custom	Office	RET	439	650	1,013	1,198	1,512	1,834	2,251	2,657	3,086	3,441	3,731	3,889	3,937	3,857	3,690	3,445	3,162	2,851	2,541	2,238
1590	WholeBldg	Building Benchmarking	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1591	WholeBldg	Building Benchmarking	Biz-Custom	Retail	RET	443	657	1,025	1,213	1,533	1,861	2,286	2,700	3,138	3,500	3,798	3,960	4,009	3,926	3,756	3,504	3,215	2,897	2,581	2,272
1592	WholeBldg	Building Benchmarking	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1593	WholeBldg	Building Benchmarking	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1594	WholeBldg	Building Benchmarking	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1595	WholeBldg	Building Benchmarking	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1596	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Education	RET	42,071	39,411	35,074	29,798	24,334	47,067	40,908	34,432	28,111	22,325	31,507	27,504	23,257	19,076	15,219	21,548	18,873	16,003	13,154	10,510
1597	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1598	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Health	RET	1,395	1,515	1,870	2,232	2,561	3,715	3,909	4,102	4,156	4,079	4,491	4,263	4,062	3,816	3,534	3,632	3,340	2,785	2,625	2,438
1599	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1600	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Office	RET	10,454	11,471	12,137	13,198	16,320	26,414	30,043	32,736	34,592	36,483	41,786	41,786	40,598	38,703	37,030	38,064	35,923	33,390	30,753	25,676
1601	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1602	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1603	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1604	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1605	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1606	WholeBldg	Strategic Energy Management	Biz-Custom SEM	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1607	WholeBldg	BEIMS	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1608	WholeBldg	BEIMS	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1609	WholeBldg	BEIMS	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1610	WholeBldg	BEIMS	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1611	WholeBldg	BEIMS	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1612	WholeBldg	BEIMS	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1613	WholeBldg	BEIMS	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1614	WholeBldg	BEIMS	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615	WholeBldg	BEIMS	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1616	WholeBldg	BEIMS	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1617	WholeBldg	BEIMS	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1618	WholeBldg	Building Operator Certification	Biz-Custom	Education	RET	22,545	24,546	30,375	51,613	58,446	66,532	82,992	87,190	89,843	96,345	93,578	89,493	88,419	81,645	74,832	70,922	63,801	51,926	49,260	44,330
1619	WholeBldg	Building Operator Certification	Biz-Custom	Food Sales	RET	1,223	1,820	2,006	2,967	3,570	4,254	5,480	6,408	7,261	8,277	8,859	9,161	9,402	9,250	8,895	8,536	7,979	7,358	6,814	6,199
1620	WholeBldg	Building Operator Certification	Biz-Custom	Health	RET	4,906	7,259	7,953	11,693	13,989	16,588	21,288	24,829	28,094	32,025	34,315	35,548	36,563	36,067	34,760	33,432	31,320	28,934	26,830	24,438
1621	WholeBldg	Building Operator Certification	Biz-Custom	Lodging	RET	5,192	7,686	8,422	12,378	14,801	17,543	22,509	26,250	29,708	33,878	36,316	37,639	38,732	38,215	36,835	35,436	33,206	30,681	28,450	25,909
1622	WholeBldg	Building Operator Certification	Biz-Custom	Office	RET	7,722	11,438	12,551	18,485	22,161	26,343	33,902	39,657	45,009	51,462	55,301	57,438	59,225	58,534	56,508	54,438	51,052	47,208	43,811	39,934
1623	WholeBldg	Building Operator Certification	Biz-Custom	Food Service	RET	826	1,228	1,352	1,998	2,402	2,862	3,688	4,317	4,900	5,598	6,006	6,225	6,403	6,312	6,078	5,840	5,463	5,041	4,669	4,248
1624	WholeBldg	Building Operator Certification	Biz-Custom	Retail	RET	10,403	15,422	16,936	24,966	29,957	35,640	45,906	53,739	61,033	69,823	75,071	77,996	80,421	79,475	76,707	73,861	69,233	63,986	59,351	54,065
1625	WholeBldg	Building Operator Certification	Biz-Custom	Warehouse	RET	308	456	502	740	889	1,059	1,366	1,601	1,821	2,086	2,245	2,335	2,410	2,384	2,304	2,220	2,083	1,927	1,789	1,631
1626	WholeBldg	Building Operator Certification	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1627	WholeBldg	Building Operator Certification	Biz-Custom	Other	RET	6,071	9,020	9,931	14,681	17,666	21,074	27,215	31,938	36,351	41,668	44,874	46,688	48,202	47,690	46,084	44,424	41,687	38,573	35,822	32,675
1628	WholeBldg	Building Operator Certification	Biz-Custom	BSS	RET	1,291	1,919	2,115	3,129	3,768	4,502	5,820	6,835	7,784	8,924	9,608	9,992	10,311	10,195	9,845	9,483	8,893	8,222	7,630	6,954
1629	Cooking	Advanced Cooking	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	Cooking	Advanced Cooking	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1631	Cooking	Advanced Cooking	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1632	Cooking	Advanced Cooking	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1633	Cooking	Advanced Cooking	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1634	Cooking	Advanced Cooking	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1635	Cooking	Advanced Cooking	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1636	Cooking	Advanced Cooking	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1637	Cooking	Advanced Cooking	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1638	Cooking	Advanced Cooking	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1639	Cooking	Advanced Cooking	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1640	Lighting_Int	Advanced Lighting	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1641	Lighting_Int	Advanced Lighting	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1642	Lighting_Int	Advanced Lighting	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1643	Lighting_Int	Advanced Lighting	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1644	Lighting_Int	Advanced Lighting	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1645	Lighting_Int	Advanced Lighting	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1646	Lighting_Int	Advanced Lighting	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1647	Lighting_Int	Advanced Lighting	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1648	Lighting_Int	Advanced Lighting	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1649	Lighting_Int	Advanced Lighting	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1650	Lighting_Int	Advanced Lighting	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1651	Plug_Office	Advanced IT	Biz-Custom	Education	RET	0	0	0	0	0	0	11,654	17,441	19,329	20,654	23,385	30,310	34,896	39,410	45,130	53,860	60,875	67,518	74,429	82,629
1652	Plug_Office	Advanced IT	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	152	228	253	270	306	398	458	518	594	709	802	890	981	1,090
1653	Plug_Office	Advanced IT	Biz-Custom	Health	RET	0	0	0	0	0	0	11,637	17,409	19,286	20,599	23,313	30,205	34,762	39,245	44,929	53,608	60,579	67,180	74,048	82,199
1654	Plug_Office	Advanced IT	Biz-Custom	Lodging	RET	0	0	0	0	0	0	2,555	3,824	4,238	4,529	5,128	6,647	7,653	8,643	9,898	11,813	13,352	14,809	16,325	18,124
1655	Plug_Office	Advanced IT	Biz-Custom	Office	RET	0	0	0	0	0	0	57,348	85,808	95,078	101,569	114,974	148,988	171,493	193,639	221,714	264,565	298,994	331,596	365,515	405,763
1656	Plug_Office	Advanced IT	Biz-Custom	Food Service	RET	0	0	0	0	0	0	590	884	981	1,049	1,190	1,545	1,781	2,014	2,309	2,758	3,119	3,461	3,817	4,239
1657	Plug_Office	Advanced IT	Biz-Custom	Retail	RET	0	0	0	0	0	0	12,383	18,530	20,535	21,940	24,839	32,191	37,058	41,849	47,920	57,187	64,632	71,683	79,019	87,723
1658	Plug_Office	Advanced IT	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	2,850	4,265	4,726	5,049	5,715	7,407	8,526	9,627	11,023	13,154	14,866	16,488	18,174	20,176
1659	Plug_Office	Advanced IT	Biz-Custom	Assembly	RET	0	0	0	0	0	0	2,243	3,358	3,722	3,978	4,505	5,841	6,726	7,597	8,702	10,386	11,740	13,022	14,356	15,939
1660	Plug_Office	Advanced IT	Biz-Custom	Other	RET	0	0	0	0	0	0	27,436	41,040	45,459	48,546	54,934	71,163	81,887	92,438	105,817	126,245	142,653	158,190	174,355	193,540
1661	Plug_Office	Advanced IT	Biz-Custom	BSS	RET	0	0	0	0	0	0	4,617	6,910	7,659	8,185	9,268	12,015	13,834	15,625	17,894	21,357	24,140	26,776	29,518	32,770
1662	Refrigeration	Advanced Refrigeration	Biz-Custom	Education	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1663	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1664	Refrigeration	Advanced Refrigeration	Biz-Custom	Health	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1665	Refrigeration	Advanced Refrigeration	Biz-Custom	Lodging	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1666	Refrigeration	Advanced Refrigeration	Biz-Custom	Office	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1667	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Service	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1668	Refrigeration	Advanced Refrigeration	Biz-Custom	Retail	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1669	Refrigeration	Advanced Refrigeration	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1670	Refrigeration	Advanced Refrigeration	Biz-Custom	Assembly	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1671	Refrigeration	Advanced Refrigeration	Biz-Custom	Other	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1672	Refrigeration	Advanced Refrigeration	Biz-Custom	BSS	RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1673	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Education	RET	0	0	0	0	0	0	102,679	152,142	167,247	177,575	131,036	155,587	183,201	213,621	245,965	279,185	311,833	341,670	366,567	384,534
1674	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Sales	RET	0	0	0	0	0	0	7,868	11,689	12,881	13,708	10,134	12,054	14,214	16,591	19,119	21,712	24,253	26,575	28,513	29,912
1675	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Health	RET	0	0	0	0	0	0	48,190	71,065	77,771	82,239	60,477	71,608	84,137	97,975	112,701	127,854	142,785	156,440	167,841	176,125
1676	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Lodging	RET	0	0	0	0	0	0	46,255	68,036	74,320	78,494	57,684	68,280	80,218	93,393	107,420	121,937	136,320	149,490	160,507	168,474
1677	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Office	RET	0	0	0	0	0	0	242,623	358,963	394,145	418,086	308,300	365,918	430,914	502,434	578,511	657,056	733,810	803,983	862,556	904,997
1678	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Service	RET	0	0	0	0	0	0	38,006	56,449	62,207	66,203	48,954	58,243	68,693	80,186	92,404	104,984	117,270	128,499	137,868	144,618
1679	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Retail	RET	0	0	0	0	0	0	131,008	194,574	214,400	228,133	168,660	200,571	236,471	275,998	318,019	361,263	403,500	442,098	474,304	497,526
1680	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Warehouse	RET	0	0	0	0	0	0	43,178	64,145	70,706	75,273	55,682	66,252	78,150	91,291	105,268	119,647	133,685	146,517	157,228	164,950

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1681	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Assembly	RET	0	0	0	0	0	0	43,079	64,056	70,642	75,216	55,631	66,167	78,013	91,056	104,919	119,170	133,088	145,806	156,416	164,069
1682	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Other	RET	0	0	0	0	0	0	49,076	72,244	78,866	83,145	60,943	71,911	84,220	97,812	112,268	127,239	141,874	155,263	166,440	174,693
1683	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	BSS	RET	0	0	0	0	0	0	10,662	15,779	17,311	18,333	13,500	15,990	18,782	21,847	25,107	28,467	31,750	34,753	37,258	39,098
1684	Water_WW	Water Supply & Wastewater treatment pumps and process efficiency	Biz-Custom	Industrial	RET	#######	#######	944,635	783,223	626,886	489,810	374,181	282,181	210,304	0	0	887,515	803,915	695,235	575,679	462,172	361,236	276,958	208,680	155,373
1685	Compressed Air	Efficient Air Compressor Equipment	Biz-Custom	Industrial	ROB	86,618	107,473	129,133	150,954	171,439	190,426	206,603	220,740	232,393	242,153	249,025	255,243	260,400	234,338	228,607	222,964	217,194	212,023	207,100	202,946
1686	Compressed Air	Efficient Air Compressor Controls	Biz-Custom	Industrial	RET	193,146	216,446	229,140	366,906	370,150	357,754	426,622	400,725	364,417	389,709	349,700	307,707	312,597	247,987	217,681	221,040	175,132	154,320	156,699	124,180
1687	HVAC	Efficient HVAC Equipment	Biz-Custom	Industrial	ROB	283,832	316,982	344,535	367,679	385,747	400,962	412,278	422,254	430,313	433,164	434,221	436,797	439,570	442,331	443,515	354,209	346,052	339,670	334,140	329,955
1688	HVAC	Efficient HVAC O&M	Biz-Custom	Industrial	RET	306,389	277,987	239,473	415,361	353,762	291,786	385,520	319,836	258,264	272,802	225,692	182,374	192,592	159,959	128,831	136,027	112,950	91,426	96,520	80,151
1689	Lighting_Int	Efficient Lighting Equipment	Biz-Standard	Industrial	RET	#######	#######	#######	#######	#######	#######	#######	#######	#######	769,047	0	0	0	0	0	496,005	472,039	427,391	368,886	305,933
1690	Lighting_Int	Efficient Lighting O&M	Biz-Custom	Industrial	RET	83,246	94,670	102,469	125,119	125,645	120,970	115,922	104,039	90,290	77,334	63,937	51,912	41,662	32,769	13,221	10,562	8,269	3,342	2,670	2,092
1691	Motors	Efficient MachDr Equipment	Biz-Custom	Industrial	ROB	335,023	443,367	573,002	724,612	892,072	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######
1692	Motors	Efficient MachDr O&M	Biz-Custom	Industrial	RET	215,866	272,574	331,105	539,709	621,358	687,331	833,294	869,087	873,577	925,003	889,516	837,653	824,653	761,047	689,094	653,667	534,411	485,930	460,996	377,070
1693	Process Heat	Efficient ProcHeat Equipment	Biz-Custom	Industrial	ROB	217,279	242,656	263,748	281,464	295,296	306,943	315,606	323,243	329,412	331,594	332,404	334,376	336,499	338,612	339,518	271,153	264,909	260,023	255,790	252,586
1694	Process Heat	Efficient ProcHeat O&M	Biz-Custom	Industrial	RET	293,268	266,167	229,370	397,984	339,095	279,800	369,837	306,952	247,965	262,031	216,874	175,322	185,221	153,900	124,005	130,949	108,744	88,028	92,938	77,179
1695	Process Refrig	Efficient ProcRefrig Equipment	Biz-Custom	Industrial	ROB	290,357	324,269	352,456	376,131	394,615	410,179	421,755	431,961	440,206	443,122	444,203	446,839	449,676	452,499	453,711	362,352	354,008	347,479	341,821	337,540
1696	Process Refrig	Efficient ProcRefrig O&M	Biz-Custom	Industrial	RET	234,961	213,067	183,441	317,978	270,645	223,081	294,539	244,186	197,038	207,984	171,943	138,844	146,521	121,610	97,873	103,317	85,774	69,421	73,282	60,849
1697	Process Other	Efficient Other Facility Process Equipment	Biz-Custom	Industrial	ROB	306,966	342,818	372,616	397,646	417,187	433,642	445,880	456,670	465,386	468,469	469,612	375,470	367,499	360,852	354,403	350,155	347,078	345,563	344,362	343,829
1698	Process Other	Efficient Other Facility Process O&M	Biz-Custom	Industrial	RET	285,673	258,475	221,993	183,132	145,796	113,291	86,054	64,525	47,810	0	0	199,055	180,067	155,573	128,707	103,276	80,693	61,859	46,603	34,697
1699	WholeBldg	Power Distribution (Transformers)	Biz-Custom	Industrial	RET	102,277	128,503	155,391	180,605	200,050	211,117	210,750	199,976	180,331	155,552	128,438	102,993	80,469	61,586	46,223	34,378	0	0	0	0
1700	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Industrial	RET	550,630	691,768	836,426	972,034	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	981,203

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Education	ROB	$756	$998	$1,294	$1,641	$2,031	$2,449	$2,872	$3,281	$3,656	$3,988	$4,272	$4,510	$4,457	$4,538	$4,573	$4,569	$4,483	$4,388	$4,292	$4,201
2	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Sales	ROB	$162	$214	$277	$351	$435	$524	$614	$702	$782	$853	$914	$965	$954	$971	$978	$978	$959	$939	$918	$899
3	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Service	ROB	$1,690	$2,230	$2,890	$3,667	$4,539	$5,471	$6,417	$7,330	$8,169	$8,911	$9,546	$10,076	$9,959	$10,140	$10,218	$10,209	$10,016	$9,804	$9,589	$9,386
4	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Health	ROB	$469	$618	$802	$1,017	$1,259	$1,517	$1,780	$2,033	$2,266	$2,471	$2,647	$2,794	$2,762	$2,812	$2,834	$2,831	$2,778	$2,719	$2,659	$2,603
5	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Lodging	ROB	$445	$587	$761	$966	$1,195	$1,441	$1,690	$1,930	$2,151	$2,347	$2,514	$2,654	$2,623	$2,670	$2,691	$2,689	$2,638	$2,582	$2,525	$2,472
6	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Retail	ROB	$427	$564	$731	$927	$1,148	$1,383	$1,623	$1,853	$2,066	$2,253	$2,414	$2,548	$2,518	$2,564	$2,584	$2,581	$2,533	$2,479	$2,425	$2,373
7	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Office	ROB	$343	$453	$587	$745	$922	$1,112	$1,304	$1,490	$1,660	$1,811	$1,940	$2,048	$2,024	$2,061	$2,077	$2,075	$2,035	$1,992	$1,949	$1,907
8	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Warehouse	ROB	$7	$9	$12	$15	$19	$23	$27	$30	$34	$37	$39	$42	$41	$42	$42	$42	$41	$41	$40	$39
9	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Assembly	ROB	$114	$150	$195	$247	$306	$369	$433	$494	$551	$601	$643	$679	$671	$683	$689	$688	$675	$661	$646	$633
10	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Other	ROB	$1,275	$1,683	$2,181	$2,767	$3,425	$4,129	$4,843	$5,531	$6,165	$6,725	$7,204	$7,604	$7,516	$7,652	$7,711	$7,704	$7,558	$7,399	$7,236	$7,083
11	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	BSS	ROB	$271	$358	$464	$589	$729	$879	$1,031	$1,177	$1,312	$1,431	$1,533	$1,618	$1,600	$1,629	$1,641	$1,640	$1,609	$1,575	$1,540	$1,508
12	Cooking	Commercial Electric Convection Oven	Biz-Custom	Education	ROB	$677	$894	$1,158	$1,469	$1,819	$2,192	$2,571	$2,937	$3,274	$3,571	$3,825	$4,038	$3,991	$4,063	$4,095	$4,091	$4,014	$3,929	$3,842	$3,761
13	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Sales	ROB	$145	$191	$248	$314	$389	$469	$550	$628	$700	$764	$818	$864	$854	$869	$876	$875	$859	$841	$822	$805
14	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Service	ROB	$1,513	$1,997	$2,588	$3,283	$4,064	$4,898	$5,746	$6,563	$7,314	$7,979	$8,547	$9,021	$8,917	$9,079	$9,149	$9,141	$8,968	$8,778	$8,585	$8,404
15	Cooking	Commercial Electric Convection Oven	Biz-Custom	Health	ROB	$420	$554	$718	$911	$1,127	$1,359	$1,593	$1,820	$2,029	$2,213	$2,370	$2,502	$2,473	$2,518	$2,537	$2,535	$2,487	$2,435	$2,381	$2,331
16	Cooking	Commercial Electric Convection Oven	Biz-Custom	Lodging	ROB	$398	$526	$682	$865	$1,070	$1,290	$1,513	$1,728	$1,926	$2,101	$2,251	$2,376	$2,348	$2,391	$2,409	$2,407	$2,362	$2,312	$2,261	$2,213
17	Cooking	Commercial Electric Convection Oven	Biz-Custom	Retail	ROB	$382	$505	$654	$830	$1,028	$1,239	$1,453	$1,659	$1,850	$2,017	$2,161	$2,281	$2,255	$2,296	$2,313	$2,311	$2,268	$2,220	$2,171	$2,125
18	Cooking	Commercial Electric Convection Oven	Biz-Custom	Office	ROB	$307	$406	$526	$667	$826	$995	$1,168	$1,334	$1,486	$1,621	$1,737	$1,833	$1,812	$1,845	$1,859	$1,858	$1,822	$1,784	$1,745	$1,708
19	Cooking	Commercial Electric Convection Oven	Biz-Custom	Warehouse	ROB	$6	$8	$11	$14	$17	$20	$24	$27	$30	$33	$35	$37	$37	$38	$38	$38	$37	$36	$35	$35
20	Cooking	Commercial Electric Convection Oven	Biz-Custom	Assembly	ROB	$102	$135	$174	$221	$274	$330	$387	$442	$493	$538	$576	$608	$601	$612	$617	$616	$604	$592	$579	$566
21	Cooking	Commercial Electric Convection Oven	Biz-Custom	Other	ROB	$1,142	$1,507	$1,953	$2,477	$3,067	$3,697	$4,336	$4,952	$5,520	$6,021	$6,450	$6,808	$6,729	$6,851	$6,904	$6,898	$6,767	$6,624	$6,479	$6,342
22	Cooking	Commercial Electric Convection Oven	Biz-Custom	BSS	ROB	$243	$321	$416	$527	$653	$787	$923	$1,054	$1,175	$1,282	$1,373	$1,449	$1,432	$1,458	$1,470	$1,468	$1,440	$1,410	$1,379	$1,350
23	Cooking	Commercial Electric Griddle	Biz-Custom	Education	ROB	$61	$154	$258	$371	$497	$656	$850	$1,079	$1,336	$1,611	$1,891	$2,160	$2,389	$2,578	$2,732	$2,852	$2,941	$2,995	$3,020	$3,018
24	Cooking	Commercial Electric Griddle	Biz-Custom	Food Sales	ROB	$13	$33	$55	$79	$106	$140	$182	$231	$286	$345	$405	$462	$511	$552	$585	$610	$629	$641	$646	$646
25	Cooking	Commercial Electric Griddle	Biz-Custom	Food Service	ROB	$136	$343	$576	$828	$1,110	$1,465	$1,900	$2,411	$2,986	$3,600	$4,224	$4,827	$5,337	$5,760	$6,104	$6,373	$6,571	$6,693	$6,747	$6,744
26	Cooking	Commercial Electric Griddle	Biz-Custom	Health	ROB	$38	$95	$160	$230	$308	$406	$527	$669	$828	$998	$1,172	$1,339	$1,480	$1,598	$1,693	$1,767	$1,822	$1,856	$1,871	$1,870
27	Cooking	Commercial Electric Griddle	Biz-Custom	Lodging	ROB	$36	$90	$152	$218	$292	$386	$500	$635	$786	$948	$1,113	$1,271	$1,406	$1,517	$1,608	$1,678	$1,731	$1,763	$1,777	$1,776
28	Cooking	Commercial Electric Griddle	Biz-Custom	Retail	ROB	$34	$87	$146	$209	$281	$371	$480	$610	$755	$910	$1,068	$1,221	$1,350	$1,457	$1,543	$1,611	$1,661	$1,692	$1,706	$1,705
29	Cooking	Commercial Electric Griddle	Biz-Custom	Office	ROB	$28	$70	$117	$168	$226	$298	$386	$490	$607	$732	$858	$981	$1,085	$1,171	$1,240	$1,295	$1,335	$1,360	$1,371	$1,370
30	Cooking	Commercial Electric Griddle	Biz-Custom	Warehouse	ROB	$1	$1	$2	$3	$5	$6	$8	$10	$12	$15	$17	$20	$22	$24	$25	$26	$27	$28	$28	$28
31	Cooking	Commercial Electric Griddle	Biz-Custom	Assembly	ROB	$9	$23	$39	$56	$75	$99	$128	$163	$201	$243	$285	$325	$360	$388	$411	$430	$443	$451	$455	$455
32	Cooking	Commercial Electric Griddle	Biz-Custom	Other	ROB	$103	$259	$434	$625	$837	$1,106	$1,434	$1,820	$2,253	$2,717	$3,188	$3,643	$4,028	$4,347	$4,606	$4,809	$4,959	$5,051	$5,092	$5,089
33	Cooking	Commercial Electric Griddle	Biz-Custom	BSS	ROB	$22	$55	$92	$133	$178	$235	$305	$387	$480	$578	$679	$775	$857	$925	$981	$1,024	$1,055	$1,075	$1,084	$1,083
34	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Education	ROB	$556	$747	$988	$1,284	$1,632	$2,025	$2,447	$2,877	$3,294	$3,680	$4,024	$4,320	$4,383	$4,529	$4,622	$4,669	$4,676	$4,598	$4,512	$4,423
35	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Sales	ROB	$119	$160	$211	$275	$349	$433	$524	$616	$705	$787	$861	$924	$938	$969	$989	$999	$1,000	$984	$965	$946
36	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Service	ROB	$1,243	$1,669	$2,208	$2,869	$3,647	$4,525	$5,468	$6,428	$7,360	$8,222	$8,990	$9,653	$9,794	$10,118	$10,327	$10,431	$10,447	$10,273	$10,080	$9,882
37	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Health	ROB	$345	$463	$612	$796	$1,012	$1,255	$1,516	$1,783	$2,041	$2,280	$2,493	$2,677	$2,716	$2,806	$2,864	$2,893	$2,897	$2,849	$2,796	$2,741
38	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Lodging	ROB	$327	$440	$582	$755	$961	$1,192	$1,440	$1,693	$1,938	$2,165	$2,368	$2,542	$2,579	$2,665	$2,720	$2,747	$2,751	$2,706	$2,655	$2,603
39	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Retail	ROB	$314	$422	$558	$725	$922	$1,144	$1,383	$1,625	$1,861	$2,079	$2,273	$2,441	$2,477	$2,559	$2,611	$2,638	$2,642	$2,598	$2,549	$2,499
40	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Office	ROB	$253	$339	$449	$583	$741	$920	$1,111	$1,306	$1,496	$1,671	$1,827	$1,962	$1,990	$2,056	$2,099	$2,120	$2,123	$2,088	$2,048	$2,008
41	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Warehouse	ROB	$5	$7	$9	$12	$15	$19	$23	$27	$30	$34	$37	$40	$40	$42	$43	$43	$43	$42	$42	$41
42	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Assembly	ROB	$84	$112	$149	$193	$246	$305	$369	$433	$496	$554	$606	$651	$660	$682	$696	$703	$704	$692	$679	$666
43	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Other	ROB	$938	$1,260	$1,666	$2,165	$2,752	$3,415	$4,126	$4,851	$5,554	$6,205	$6,784	$7,284	$7,391	$7,636	$7,793	$7,872	$7,884	$7,753	$7,607	$7,458
44	Cooking	Commercial Electric Steam Cooker	Biz-BSS	BSS	ROB	$409	$540	$699	$886	$1,095	$1,319	$1,545	$1,763	$1,963	$2,139	$2,289	$2,414	$2,383	$2,424	$2,440	$2,435	$2,387	$2,334	$2,280	$2,229
45	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Education	ROB	$2,163	$2,825	$3,612	$4,506	$5,475	$6,472	$7,450	$8,368	$9,198	$9,929	$9,806	$10,117	$10,308	$10,400	$10,418	$10,264	$10,121	$10,002	$9,917	$9,872
46	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	$463	$604	$773	$964	$1,171	$1,385	$1,594	$1,790	$1,968	$2,124	$2,098	$2,165	$2,205	$2,225	$2,229	$2,196	$2,165	$2,140	$2,122	$2,112
47	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	$4,832	$6,312	$8,071	$10,069	$12,232	$14,459	$16,645	$18,696	$20,552	$22,185	$21,910	$22,604	$23,031	$23,237	$23,277	$22,933	$22,613	$22,347	$22,158	$22,056
48	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Health	ROB	$1,340	$1,751	$2,238	$2,792	$3,392	$4,010	$4,616	$5,185	$5,700	$6,153	$6,077	$6,269	$6,388	$6,445	$6,456	$6,360	$6,271	$6,198	$6,145	$6,117
49	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	$1,273	$1,662	$2,125	$2,652	$3,221	$3,808	$4,384	$4,924	$5,413	$5,843	$5,770	$5,953	$6,066	$6,120	$6,130	$6,040	$5,955	$5,885	$5,836	$5,809
50	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Retail	ROB	$1,222	$1,596	$2,041	$2,546	$3,093	$3,656	$4,209	$4,727	$5,197	$5,610	$5,540	$5,716	$5,824	$5,876	$5,886	$5,799	$5,718	$5,651	$5,603	$5,577
51	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Office	ROB	$982	$1,283	$1,640	$2,046	$2,486	$2,938	$3,383	$3,799	$4,177	$4,508	$4,453	$4,594	$4,680	$4,722	$4,730	$4,661	$4,595	$4,541	$4,503	$4,482
52	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	$20	$26	$33	$42	$51	$60	$69	$77	$85	$92	$91	$93	$95	$96	$96	$95	$93	$92	$92	$91
53	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	$326	$425	$544	$679	$824	$975	$1,122	$1,260	$1,385	$1,495	$1,477	$1,524	$1,552	$1,566	$1,569	$1,546	$1,524	$1,506	$1,493	$1,487
54	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Other	ROB	$3,646	$4,764	$6,090	$7,598	$9,231	$10,912	$12,561	$14,109	$15,509	$16,742	$16,534	$17,058	$17,381	$17,536	$17,566	$17,307	$17,065	$16,864	$16,722	$16,645
55	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	BSS	ROB	$776	$1,014	$1,296	$1,617	$1,965	$2,323	$2,674	$3,003	$3,301	$3,564	$3,519	$3,631	$3,700	$3,732	$3,739	$3,684	$3,632	$3,590	$3,559	$3,543
56	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Education	ROB	$668	$866	$1,100	$1,364	$1,646	$1,933	$2,211	$2,467	$2,694	$2,890	$2,835	$2,907	$2,943	$2,950	$2,937	$2,875	$2,818	$2,767	$2,727	$2,698
57	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	$143	$185	$235	$292	$352	$414	$473	$528	$576	$618	$607	$622	$630	$631	$628	$615	$603	$592	$583	$577
58	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	$1,492	$1,936	$2,459	$3,047	$3,677	$4,319	$4,939	$5,512	$6,020	$6,456	$6,335	$6,494	$6,575	$6,592	$6,562	$6,425	$6,296	$6,183	$6,093	$6,028
59	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Health	ROB	$414	$537	$682	$845	$1,020	$1,198	$1,370	$1,529	$1,669	$1,791	$1,757	$1,801	$1,824	$1,828	$1,820	$1,782	$1,746	$1,715	$1,690	$1,672
60	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	$393	$510	$648	$802	$968	$1,137	$1,301	$1,452	$1,585	$1,700	$1,668	$1,710	$1,732	$1,736	$1,728	$1,692	$1,658	$1,628	$1,605	$1,588
61	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Retail	ROB	$377	$489	$622	$770	$930	$1,092	$1,249	$1,394	$1,522	$1,632	$1,602	$1,642	$1,663	$1,667	$1,659	$1,625	$1,592	$1,563	$1,541	$1,524
62	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Office	ROB	$303	$393	$500	$619	$747	$878	$1,004	$1,120	$1,223	$1,312	$1,287	$1,320	$1,336	$1,340	$1,333	$1,306	$1,279	$1,257	$1,238	$1,225
63	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	$6	$8	$10	$13	$15	$18	$20	$23	$25	$27	$26	$27	$27	$27	$27	$27	$26	$26	$25	$25
64	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	$101	$130	$166	$205	$248	$291	$333	$371	$406	$435	$427	$438	$443	$444	$442	$433	$424	$417	$411	$406
65	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Other	ROB	$1,126	$1,461	$1,855	$2,299	$2,775	$3,259	$3,727	$4,159	$4,543	$4,872	$4,781	$4,901	$4,962	$4,975	$4,952	$4,848	$4,751	$4,666	$4,598	$4,549
66	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	BSS	ROB	$240	$311	$395	$489	$591	$694	$793	$885	$967	$1,037	$1,018	$1,043	$1,056	$1,059	$1,054	$1,032	$1,011	$993	$979	$968
67	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Education	ROB	$322	$541	$778	$1,043	$1,376	$1,785	$2,264	$2,804	$3,381	$3,966	$4,532	$5,052	$5,407	$5,729	$5,981	$6,166	$6,280	$6,330	$6,326	$6,208
68	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Sales	ROB	$69	$116	$166	$223	$294	$382	$484	$600	$723	$849	$970	$1,081	$1,157	$1,226	$1,280	$1,319	$1,344	$1,354	$1,353	$1,328
69	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Service	ROB	$720	$1,208	$1,739	$2,329	$3,075	$3,987	$5,059	$6,264	$7,553	$8,862	$10,125	$11,288	$12,080	$12,800	$13,363	$13,776	$14,031	$14,143	$14,135	$13,871
70	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Health	ROB	$200	$335	$482	$646	$853	$1,106	$1,403	$1,737	$2,095	$2,458	$2,808	$3,131	$3,350	$3,550	$3,706	$3,821	$3,891	$3,923	$3,920	$3,847
71	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Lodging	ROB	$190	$318	$458	$613	$810	$1,050	$1,332	$1,650	$1,989	$2,334	$2,667	$2,973	$3,181	$3,371	$3,519	$3,628	$3,695	$3,725	$3,722	$3,653
72	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Retail	ROB	$182	$306	$440	$589	$778	$1,008	$1,279	$1,584	$1,910	$2,241	$2,560	$2,854	$3,055	$3,237	$3,379	$3,483	$3,548	$3,576	$3,574	$3,507
73	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Office	ROB	$146	$246	$353	$473	$625	$810	$1,028	$1,273	$1,535	$1,801	$2,058	$2,294	$2,455	$2,601	$2,716	$2,800	$2,851	$2,874	$2,872	$2,819
74	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Warehouse	ROB	$3	$5	$7	$10	$13	$16	$21	$26	$31	$37	$42	$47	$50	$53	$55	$57	$58	$58	$58	$57
75	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Assembly	ROB	$49	$81	$117	$157	$207	$269	$341	$422	$509	$597	$682	$761	$814	$863	$901	$929	$946	$953	$953	$935
76	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Other	ROB	$543	$912	$1,312	$1,758	$2,321	$3,009	$3,818	$4,727	$5,700	$6,688	$7,641	$8,519	$9,116	$9,660	$10,084	$10,396	$10,588	$10,673	$10,667	$10,468
77	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	BSS	ROB	$107	$179	$258	$345	$456	$591	$750	$929	$1,120	$1,314	$1,501	$1,674	$1,826	$1,921	$2,007	$2,071	$2,116	$2,141	$2,147	$2,114

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
78	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Education	ROB	$32	$80	$134	$192	$258	$340	$440	$558	$691	$832	$976	$1,114	$1,231	$1,327	$1,405	$1,465	$1,509	$1,536	$1,547	$1,545
79	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Sales	ROB	$7	$17	$29	$41	$55	$73	$94	$119	$148	$178	$209	$238	$263	$284	$301	$313	$323	$329	$331	$330
80	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Service	ROB	$71	$178	$299	$430	$576	$760	$984	$1,248	$1,544	$1,860	$2,180	$2,489	$2,749	$2,965	$3,139	$3,274	$3,372	$3,432	$3,456	$3,451
81	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Health	ROB	$20	$49	$83	$119	$160	$211	$273	$346	$428	$516	$605	$690	$763	$822	$871	$908	$935	$952	$959	$957
82	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Lodging	ROB	$19	$47	$79	$113	$152	$200	$259	$329	$407	$490	$574	$655	$724	$781	$827	$862	$888	$904	$910	$909
83	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Retail	ROB	$18	$45	$76	$109	$146	$192	$249	$315	$390	$470	$551	$629	$695	$750	$794	$828	$853	$868	$874	$873
84	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Office	ROB	$14	$36	$61	$87	$117	$154	$200	$254	$314	$378	$443	$506	$559	$602	$638	$665	$685	$697	$702	$701
85	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Warehouse	ROB	$0	$1	$1	$2	$2	$3	$4	$5	$6	$8	$9	$10	$11	$12	$13	$14	$14	$14	$14	$14
86	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Assembly	ROB	$5	$12	$20	$29	$39	$51	$66	$84	$104	$125	$147	$168	$185	$200	$212	$221	$227	$231	$233	$233
87	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Other	ROB	$54	$135	$226	$325	$435	$573	$743	$942	$1,165	$1,403	$1,645	$1,878	$2,075	$2,237	$2,369	$2,471	$2,545	$2,590	$2,608	$2,605
88	Cooking	Insulated Holding Cabinets (Full Size)	Biz-BSS	BSS	ROB	$184	$209	$232	$252	$269	$283	$294	$303	$309	$315	$316	$317	$261	$254	$248	$243	$239	$236	$234	$233
89	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Education	ROB	$16	$41	$69	$99	$132	$174	$225	$286	$353	$425	$498	$568	$627	$676	$715	$746	$768	$781	$786	$784
90	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Sales	ROB	$3	$9	$15	$21	$28	$37	$48	$61	$76	$91	$107	$122	$134	$145	$153	$160	$164	$167	$168	$168
91	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Service	ROB	$36	$92	$153	$220	$295	$389	$503	$638	$789	$950	$1,113	$1,270	$1,402	$1,510	$1,598	$1,666	$1,715	$1,744	$1,756	$1,752
92	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Health	ROB	$10	$25	$43	$61	$82	$108	$140	$177	$219	$263	$309	$352	$389	$419	$443	$462	$476	$484	$487	$486
93	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Lodging	ROB	$10	$24	$40	$58	$78	$102	$133	$168	$208	$250	$293	$334	$369	$398	$421	$439	$452	$459	$462	$461
94	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Retail	ROB	$9	$23	$39	$56	$75	$98	$127	$161	$199	$240	$281	$321	$354	$382	$404	$421	$434	$441	$444	$443
95	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Office	ROB	$7	$19	$31	$45	$60	$79	$102	$130	$160	$193	$226	$258	$285	$307	$325	$339	$349	$354	$357	$356
96	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Warehouse	ROB	$0	$0	$1	$1	$1	$2	$2	$3	$3	$4	$5	$5	$6	$6	$7	$7	$7	$7	$7	$7
97	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Assembly	ROB	$2	$6	$10	$15	$20	$26	$34	$43	$53	$64	$75	$86	$94	$102	$108	$112	$116	$118	$118	$118
98	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Other	ROB	$27	$69	$116	$166	$223	$293	$380	$481	$595	$717	$840	$958	$1,058	$1,140	$1,206	$1,257	$1,294	$1,316	$1,325	$1,322
99	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-BSS	BSS	ROB	$11	$28	$47	$67	$90	$118	$153	$193	$238	$286	$334	$380	$418	$449	$474	$492	$505	$512	$514	$511
100	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
101	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
102	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
103	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
104	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
105	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
106	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
107	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
108	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
109	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
110	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
111	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Education	RET	$4,737	$4,301	$3,728	$3,106	$2,504	$1,966	$1,512	$1,145	$857	$0	$0	$0	$0	$0	$0	$544	$495	$430	$358	$289
112	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Sales	RET	$552	$501	$434	$362	$292	$229	$176	$133	$100	$0	$0	$0	$0	$0	$0	$63	$57	$50	$42	$34
113	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Health	RET	$1,579	$1,434	$1,243	$1,036	$835	$656	$505	$382	$286	$0	$0	$0	$0	$0	$0	$182	$166	$144	$120	$97
114	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Lodging	RET	$1,439	$1,306	$1,132	$943	$760	$597	$459	$348	$260	$0	$0	$0	$0	$0	$0	$165	$150	$130	$109	$88
115	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Office	RET	$8,998	$8,169	$7,082	$5,900	$4,756	$3,734	$2,872	$2,175	$1,627	$0	$0	$0	$0	$0	$0	$1,034	$940	$816	$681	$550
116	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Service	RET	$988	$897	$778	$648	$522	$410	$315	$239	$179	$0	$0	$0	$0	$0	$0	$113	$103	$90	$75	$60
117	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Retail	RET	$8,737	$7,931	$6,874	$5,726	$4,615	$3,623	$2,786	$2,109	$1,578	$0	$0	$0	$0	$0	$0	$1,001	$910	$790	$659	$532
118	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Warehouse	RET	$2,465	$2,237	$1,939	$1,615	$1,301	$1,021	$785	$594	$445	$0	$0	$0	$0	$0	$0	$282	$256	$222	$185	$150
119	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Assembly	RET	$721	$655	$567	$473	$381	$299	$230	$174	$130	$0	$0	$0	$0	$0	$0	$83	$75	$65	$54	$44
120	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Other	RET	$14,764	$13,402	$11,618	$9,678	$7,801	$6,124	$4,710	$3,566	$2,668	$0	$0	$0	$0	$0	$0	$1,695	$1,541	$1,337	$1,116	$901
121	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-BSS	BSS	RET	$13,098	$10,210	$7,797	$5,860	$4,353	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,351	$1,054	$805	$605	$450
122	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Education	RET	$3,879	$3,525	$3,060	$2,552	$2,060	$1,619	$1,247	$945	$708	$0	$0	$0	$0	$0	$0	$454	$413	$359	$300	$243
123	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Sales	RET	$451	$410	$355	$296	$239	$188	$145	$110	$82	$0	$0	$0	$0	$0	$0	$53	$48	$42	$35	$28
124	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Health	RET	$1,297	$1,179	$1,023	$854	$689	$542	$417	$317	$237	$0	$0	$0	$0	$0	$0	$152	$139	$121	$101	$81
125	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Lodging	RET	$1,177	$1,070	$929	$775	$625	$491	$378	$287	$215	$0	$0	$0	$0	$0	$0	$138	$125	$109	$91	$74
126	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Office	RET	$7,369	$6,698	$5,814	$4,850	$3,914	$3,077	$2,369	$1,796	$1,346	$0	$0	$0	$0	$0	$0	$863	$785	$683	$570	$461
127	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Service	RET	$808	$735	$638	$532	$429	$337	$260	$197	$148	$0	$0	$0	$0	$0	$0	$95	$86	$75	$62	$50
128	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Retail	RET	$7,139	$6,488	$5,631	$4,696	$3,789	$2,978	$2,293	$1,738	$1,302	$0	$0	$0	$0	$0	$0	$834	$759	$659	$551	$445
129	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Warehouse	RET	$2,010	$1,826	$1,584	$1,321	$1,066	$838	$645	$489	$366	$0	$0	$0	$0	$0	$0	$234	$213	$185	$155	$125
130	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Assembly	RET	$590	$536	$465	$388	$313	$246	$190	$144	$108	$0	$0	$0	$0	$0	$0	$69	$63	$55	$46	$37
131	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Other	RET	$12,077	$10,977	$9,527	$7,946	$6,413	$5,041	$3,882	$2,942	$2,204	$0	$0	$0	$0	$0	$0	$1,412	$1,286	$1,117	$933	$754
132	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-BSS	BSS	RET	$12,277	$9,570	$7,308	$5,493	$4,080	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,269	$990	$756	$569
133	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Education	RET	$3,287	$2,990	$2,598	$2,170	$1,753	$1,379	$1,063	$807	$605	$0	$0	$0	$0	$0	$0	$391	$356	$310	$259	$210
134	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Sales	RET	$381	$347	$301	$251	$203	$160	$123	$93	$70	$0	$0	$0	$0	$0	$0	$45	$41	$36	$30	$24
135	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Health	RET	$1,101	$1,002	$871	$728	$588	$463	$357	$271	$203	$0	$0	$0	$0	$0	$0	$131	$120	$104	$87	$71
136	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Lodging	RET	$997	$907	$788	$658	$532	$418	$322	$245	$183	$0	$0	$0	$0	$0	$0	$118	$108	$94	$78	$63
137	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Office	RET	$6,245	$5,682	$4,937	$4,123	$3,331	$2,621	$2,021	$1,533	$1,150	$0	$0	$0	$0	$0	$0	$743	$677	$589	$492	$398
138	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Service	RET	$685	$623	$541	$452	$365	$287	$221	$168	$126	$0	$0	$0	$0	$0	$0	$81	$74	$64	$54	$44
139	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Retail	RET	$6,039	$5,494	$4,773	$3,985	$3,219	$2,533	$1,952	$1,481	$1,111	$0	$0	$0	$0	$0	$0	$716	$652	$568	$475	$384
140	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Warehouse	RET	$1,696	$1,543	$1,340	$1,119	$904	$711	$548	$416	$312	$0	$0	$0	$0	$0	$0	$201	$183	$159	$133	$107
141	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Assembly	RET	$499	$454	$395	$330	$266	$210	$162	$123	$92	$0	$0	$0	$0	$0	$0	$59	$54	$47	$39	$32
142	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Other	RET	$10,226	$9,304	$8,084	$6,750	$5,453	$4,291	$3,307	$2,510	$1,882	$0	$0	$0	$0	$0	$0	$1,214	$1,107	$963	$805	$651
143	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-BSS	BSS	RET	$11,509	$8,972	$6,851	$5,149	$3,825	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,190	$928	$709	$533
144	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Education	RET	$3,100	$2,821	$2,452	$2,048	$1,655	$1,303	$1,005	$763	$572	$0	$0	$0	$0	$0	$0	$370	$337	$294	$246	$199
145	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Sales	RET	$359	$327	$284	$237	$192	$151	$116	$88	$66	$0	$0	$0	$0	$0	$0	$43	$39	$34	$28	$23
146	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Health	RET	$1,040	$946	$823	$687	$556	$437	$337	$256	$192	$0	$0	$0	$0	$0	$0	$125	$114	$99	$83	$67
147	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Lodging	RET	$940	$856	$744	$621	$502	$395	$305	$231	$173	$0	$0	$0	$0	$0	$0	$112	$102	$89	$74	$60
148	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Office	RET	$5,891	$5,362	$4,660	$3,892	$3,146	$2,476	$1,909	$1,449	$1,087	$0	$0	$0	$0	$0	$0	$703	$641	$558	$467	$378
149	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Service	RET	$646	$588	$511	$426	$345	$271	$209	$159	$119	$0	$0	$0	$0	$0	$0	$77	$70	$61	$51	$41
150	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Retail	RET	$5,693	$5,181	$4,502	$3,760	$3,038	$2,391	$1,843	$1,399	$1,049	$0	$0	$0	$0	$0	$0	$678	$618	$538	$450	$364
151	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Warehouse	RET	$1,598	$1,454	$1,264	$1,055	$852	$671	$517	$392	$294	$0	$0	$0	$0	$0	$0	$190	$173	$151	$126	$102
152	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Assembly	RET	$471	$429	$373	$311	$251	$198	$153	$116	$87	$0	$0	$0	$0	$0	$0	$56	$51	$45	$37	$30
153	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Other	RET	$9,644	$8,777	$7,628	$6,371	$5,148	$4,052	$3,124	$2,371	$1,779	$0	$0	$0	$0	$0	$0	$1,150	$1,048	$912	$763	$617
154	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-BSS	BSS	RET	$11,149	$8,691	$6,636	$4,988	$3,705	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,153	$899	$687	$517

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
155	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Education	RET	$2,829	$2,581	$2,248	$1,882	$1,524	$1,202	$929	$707	$531	$0	$0	$0	$0	$0	$0	$349	$318	$278	$233	$189
156	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Sales	RET	$326	$298	$259	$217	$176	$139	$107	$81	$61	$0	$0	$0	$0	$0	$0	$40	$37	$32	$27	$22
157	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Health	RET	$954	$870	$758	$635	$514	$406	$314	$239	$179	$0	$0	$0	$0	$0	$0	$118	$108	$94	$79	$64
158	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Lodging	RET	$857	$781	$681	$570	$461	$364	$281	$214	$161	$0	$0	$0	$0	$0	$0	$105	$96	$84	$70	$57
159	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Office	RET	$5,379	$4,906	$4,273	$3,577	$2,897	$2,285	$1,766	$1,343	$1,010	$0	$0	$0	$0	$0	$0	$663	$605	$528	$442	$359
160	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Service	RET	$588	$537	$467	$391	$317	$250	$193	$147	$110	$0	$0	$0	$0	$0	$0	$72	$66	$58	$48	$39
161	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Retail	RET	$5,178	$4,722	$4,113	$3,442	$2,787	$2,198	$1,698	$1,292	$971	$0	$0	$0	$0	$0	$0	$636	$581	$507	$425	$344
162	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Warehouse	RET	$1,448	$1,320	$1,149	$962	$779	$614	$474	$361	$271	$0	$0	$0	$0	$0	$0	$178	$162	$141	$118	$96
163	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Assembly	RET	$429	$391	$341	$285	$231	$182	$141	$107	$81	$0	$0	$0	$0	$0	$0	$53	$48	$42	$35	$29
164	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Other	RET	$8,789	$8,016	$6,982	$5,844	$4,733	$3,733	$2,884	$2,194	$1,649	$0	$0	$0	$0	$0	$0	$1,082	$988	$861	$722	$585
165	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-BSS	BSS	RET	$12,168	$9,485	$7,243	$5,444	$4,044	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,255	$979	$748	$562	$418
166	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Education	RET	$20,408	$18,516	$16,041	$13,356	$10,760	$8,442	$6,489	$4,910	$3,672	$0	$0	$0	$0	$0	$0	$2,323	$2,111	$1,831	$1,527	$1,232
167	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Sales	RET	$2,321	$2,106	$1,825	$1,519	$1,224	$960	$738	$559	$418	$0	$0	$0	$0	$0	$0	$264	$240	$208	$174	$140
168	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Health	RET	$6,986	$6,338	$5,491	$4,572	$3,683	$2,890	$2,221	$1,681	$1,257	$0	$0	$0	$0	$0	$0	$795	$723	$627	$523	$422
169	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Lodging	RET	$6,151	$5,581	$4,835	$4,026	$3,243	$2,545	$1,956	$1,480	$1,107	$0	$0	$0	$0	$0	$0	$700	$636	$552	$460	$371
170	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Office	RET	$38,835	$35,235	$30,526	$25,416	$20,475	$16,065	$12,349	$9,344	$6,988	$0	$0	$0	$0	$0	$0	$4,421	$4,017	$3,485	$2,906	$2,344
171	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Service	RET	$4,224	$3,832	$3,320	$2,764	$2,227	$1,747	$1,343	$1,016	$760	$0	$0	$0	$0	$0	$0	$481	$437	$379	$316	$255
172	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Retail	RET	$36,944	$33,519	$29,040	$24,178	$19,478	$15,283	$11,747	$8,889	$6,647	$0	$0	$0	$0	$0	$0	$4,206	$3,821	$3,315	$2,764	$2,230
173	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Warehouse	RET	$10,194	$9,248	$8,013	$6,671	$5,374	$4,217	$3,241	$2,453	$1,834	$0	$0	$0	$0	$0	$0	$1,160	$1,054	$915	$763	$615
174	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Assembly	RET	$3,082	$2,796	$2,422	$2,017	$1,625	$1,275	$980	$741	$554	$0	$0	$0	$0	$0	$0	$351	$319	$277	$231	$186
175	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Other	RET	$63,102	$57,252	$49,601	$41,298	$33,270	$26,104	$20,065	$15,183	$11,354	$0	$0	$0	$0	$0	$0	$7,183	$6,527	$5,663	$4,722	$3,809
176	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-BSS	BSS	RET	$52,393	$40,842	$31,187	$23,442	$17,413	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,404	$4,215	$3,220	$2,422	$1,800
177	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Education	RET	$19,128	$17,355	$15,036	$12,519	$10,085	$7,913	$6,082	$4,602	$3,442	$0	$0	$0	$0	$0	$0	$2,177	$1,978	$1,717	$1,431	$1,155
178	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Sales	RET	$2,176	$1,974	$1,710	$1,424	$1,147	$900	$692	$524	$392	$0	$0	$0	$0	$0	$0	$248	$225	$195	$163	$131
179	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Health	RET	$6,548	$5,941	$5,147	$4,285	$3,452	$2,709	$2,082	$1,575	$1,178	$0	$0	$0	$0	$0	$0	$745	$677	$588	$490	$395
180	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Lodging	RET	$5,765	$5,231	$4,532	$3,773	$3,040	$2,385	$1,833	$1,387	$1,037	$0	$0	$0	$0	$0	$0	$656	$596	$517	$431	$348
181	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Office	RET	$36,400	$33,026	$28,613	$23,823	$19,192	$15,058	$11,575	$8,758	$6,550	$0	$0	$0	$0	$0	$0	$4,144	$3,765	$3,267	$2,724	$2,197
182	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Service	RET	$3,959	$3,592	$3,112	$2,591	$2,087	$1,638	$1,259	$953	$712	$0	$0	$0	$0	$0	$0	$451	$410	$355	$296	$239
183	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Retail	RET	$34,628	$31,418	$27,219	$22,663	$18,257	$14,325	$11,011	$8,332	$6,231	$0	$0	$0	$0	$0	$0	$3,942	$3,582	$3,107	$2,591	$2,090
184	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Warehouse	RET	$9,554	$8,669	$7,510	$6,253	$5,037	$3,953	$3,038	$2,299	$1,719	$0	$0	$0	$0	$0	$0	$1,088	$988	$857	$715	$577
185	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Assembly	RET	$2,888	$2,621	$2,270	$1,890	$1,523	$1,195	$918	$695	$520	$0	$0	$0	$0	$0	$0	$329	$299	$259	$216	$174
186	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Other	RET	$59,146	$53,663	$46,492	$38,709	$31,184	$24,468	$18,807	$14,231	$10,642	$0	$0	$0	$0	$0	$0	$6,733	$6,118	$5,308	$4,426	$3,570
187	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-BSS	BSS	RET	$49,109	$38,281	$29,231	$21,972	$16,321	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,065	$3,951	$3,018	$2,270	$1,687
188	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Education	RET	$17,932	$16,269	$14,095	$11,735	$9,454	$7,418	$5,702	$4,314	$3,226	$0	$0	$0	$0	$0	$0	$2,041	$1,855	$1,609	$1,342	$1,082
189	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Sales	RET	$2,040	$1,851	$1,603	$1,335	$1,075	$844	$649	$491	$367	$0	$0	$0	$0	$0	$0	$232	$211	$183	$153	$123
190	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Health	RET	$6,138	$5,569	$4,825	$4,017	$3,236	$2,539	$1,952	$1,477	$1,104	$0	$0	$0	$0	$0	$0	$699	$635	$551	$459	$371
191	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Lodging	RET	$5,405	$4,904	$4,248	$3,537	$2,850	$2,236	$1,719	$1,300	$972	$0	$0	$0	$0	$0	$0	$615	$559	$485	$404	$326
192	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Office	RET	$34,123	$30,960	$26,823	$22,332	$17,991	$14,116	$10,850	$8,210	$6,140	$0	$0	$0	$0	$0	$0	$3,884	$3,529	$3,062	$2,553	$2,060
193	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Service	RET	$3,711	$3,367	$2,917	$2,429	$1,957	$1,535	$1,180	$893	$668	$0	$0	$0	$0	$0	$0	$422	$384	$333	$278	$224
194	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Retail	RET	$32,462	$29,452	$25,517	$21,245	$17,115	$13,429	$10,322	$7,811	$5,841	$0	$0	$0	$0	$0	$0	$3,695	$3,358	$2,913	$2,429	$1,960
195	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Warehouse	RET	$8,957	$8,126	$7,040	$5,862	$4,722	$3,705	$2,848	$2,155	$1,612	$0	$0	$0	$0	$0	$0	$1,020	$926	$804	$670	$541
196	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Assembly	RET	$2,708	$2,457	$2,128	$1,772	$1,428	$1,120	$861	$652	$487	$0	$0	$0	$0	$0	$0	$308	$280	$243	$203	$163
197	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Other	RET	$55,446	$50,305	$43,583	$36,287	$29,233	$22,937	$17,630	$13,341	$9,976	$0	$0	$0	$0	$0	$0	$6,312	$5,735	$4,976	$4,149	$3,347
198	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-BSS	BSS	RET	$46,036	$35,886	$27,403	$20,597	$15,300	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,748	$3,704	$2,830	$2,128	$1,582
199	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Education	RET	$15,429	$14,012	$12,152	$10,128	$8,167	$6,415	$4,936	$3,738	$2,799	$0	$0	$0	$0	$0	$0	$1,783	$1,622	$1,409	$1,176	$949
200	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Sales	RET	$1,796	$1,631	$1,414	$1,178	$950	$746	$574	$435	$325	$0	$0	$0	$0	$0	$0	$207	$188	$163	$136	$110
201	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Health	RET	$5,147	$4,676	$4,056	$3,381	$2,727	$2,143	$1,649	$1,249	$935	$0	$0	$0	$0	$0	$0	$597	$543	$472	$394	$318
202	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Lodging	RET	$4,686	$4,255	$3,690	$3,075	$2,480	$1,948	$1,498	$1,135	$849	$0	$0	$0	$0	$0	$0	$541	$492	$427	$357	$288
203	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Office	RET	$29,308	$26,617	$23,084	$19,239	$15,515	$12,186	$9,376	$7,102	$5,317	$0	$0	$0	$0	$0	$0	$3,388	$3,082	$2,676	$2,234	$1,804
204	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Service	RET	$3,218	$2,922	$2,534	$2,112	$1,703	$1,337	$1,029	$779	$583	$0	$0	$0	$0	$0	$0	$372	$338	$293	$245	$198
205	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Retail	RET	$28,437	$25,823	$22,391	$18,658	$15,044	$11,814	$9,088	$6,883	$5,152	$0	$0	$0	$0	$0	$0	$3,279	$2,982	$2,589	$2,161	$1,745
206	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Warehouse	RET	$8,018	$7,279	$6,311	$5,258	$4,238	$3,328	$2,560	$1,938	$1,450	$0	$0	$0	$0	$0	$0	$922	$838	$728	$607	$490
207	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Assembly	RET	$2,348	$2,132	$1,849	$1,541	$1,242	$976	$751	$569	$426	$0	$0	$0	$0	$0	$0	$271	$247	$214	$179	$144
208	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Other	RET	$48,070	$43,654	$37,856	$31,548	$25,439	$19,979	$15,371	$11,642	$8,715	$0	$0	$0	$0	$0	$0	$5,550	$5,048	$4,384	$3,659	$2,954
209	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-BSS	BSS	RET	$44,595	$34,762	$26,544	$19,952	$14,821	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,600	$3,588	$2,741	$2,061	$1,532
210	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Education	RET	$15,052	$13,685	$11,881	$9,912	$8,002	$6,292	$4,846	$3,674	$2,754	$0	$0	$0	$0	$0	$0	$1,768	$1,609	$1,399	$1,169	$945
211	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Sales	RET	$1,749	$1,589	$1,380	$1,151	$929	$730	$562	$426	$319	$0	$0	$0	$0	$0	$0	$205	$186	$162	$135	$109
212	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Health	RET	$5,035	$4,578	$3,976	$3,318	$2,679	$2,107	$1,623	$1,231	$923	$0	$0	$0	$0	$0	$0	$593	$540	$470	$393	$317
213	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Lodging	RET	$4,568	$4,153	$3,605	$3,008	$2,428	$1,909	$1,470	$1,115	$835	$0	$0	$0	$0	$0	$0	$536	$488	$424	$354	$286
214	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Office	RET	$28,598	$26,001	$22,573	$18,833	$15,204	$11,954	$9,208	$6,982	$5,232	$0	$0	$0	$0	$0	$0	$3,359	$3,058	$2,659	$2,222	$1,796
215	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Service	RET	$3,137	$2,852	$2,476	$2,065	$1,667	$1,311	$1,010	$765	$574	$0	$0	$0	$0	$0	$0	$368	$335	$291	$243	$197
216	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Retail	RET	$27,696	$25,176	$21,853	$18,229	$14,714	$11,567	$8,908	$6,753	$5,060	$0	$0	$0	$0	$0	$0	$3,244	$2,954	$2,567	$2,145	$1,734
217	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Warehouse	RET	$7,793	$7,083	$6,147	$5,126	$4,137	$3,252	$2,504	$1,898	$1,422	$0	$0	$0	$0	$0	$0	$910	$829	$720	$601	$486
218	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Assembly	RET	$2,289	$2,081	$1,806	$1,507	$1,216	$956	$737	$558	$418	$0	$0	$0	$0	$0	$0	$268	$244	$212	$178	$144
219	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Other	RET	$46,864	$42,604	$36,984	$30,854	$24,906	$19,581	$15,081	$11,435	$8,568	$0	$0	$0	$0	$0	$0	$5,497	$5,005	$4,351	$3,635	$2,939
220	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-BSS	BSS	RET	$48,671	$37,940	$28,971	$21,776	$16,176	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,020	$3,915	$2,992	$2,250	$1,672
221	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Education	RET	$1,620	$1,633	$1,560	$1,416	$1,227	$1,022	$823	$646	$497	$376	$457	$178	$170	$154	$134	$112	$90	$71	$54	$41
222	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Sales	RET	$293	$296	$282	$256	$222	$185	$149	$117	$90	$68	$83	$32	$31	$28	$24	$20	$16	$13	$10	$7
223	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Health	RET	$1,437	$1,449	$1,384	$1,256	$1,088	$906	$730	$573	$440	$333	$406	$158	$151	$137	$119	$99	$80	$63	$48	$37
224	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Lodging	RET	$3,071	$3,096	$2,957	$2,683	$2,325	$1,936	$1,560	$1,224	$941	$712	$867	$337	$322	$293	$254	$212	$171	$134	$103	$78
225	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Office	RET	$3,826	$3,857	$3,684	$3,343	$2,897	$2,412	$1,944	$1,525	$1,173	$887	$1,080	$420	$401	$365	$316	$264	$213	$167	$129	$97
226	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Service	RET	$534	$539	$515	$467	$405	$337	$271	$213	$164	$124	$151	$59	$56	$51	$44	$37	$30	$23	$18	$14
227	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Retail	RET	$6,959	$7,015	$6,700	$6,080	$5,269	$4,387	$3,535	$2,774	$2,133	$1,614	$1,964	$764	$730	$663	$575	$479	$387	$304	$234	$177
228	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Warehouse	RET	$698	$704	$672	$610	$528	$440	$355	$278	$214	$162	$197	$77	$73	$67	$58	$48	$39	$30	$23	$18
229	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Assembly	RET	$532	$536	$512	$465	$403	$335	$270	$212	$163	$123	$150	$58	$56	$51	$44	$37	$30	$23	$18	$14
230	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Other	RET	$9,428	$9,504	$9,077	$8,237	$7,138	$5,944	$4,789	$3,759	$2,890	$2,187	$2,661	$1,035	$989	$898	$779	$650	$524	$412	$317	$240
231	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-BSS	BSS	RET	$3,386	$2,639	$2,015	$1,515	$1,125	$0	$0	$0	$0	$0	$345	$269	$206	$155	$115	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
232	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Education	RET	$5,667	$5,744	$5,516	$5,033	$4,386	$3,672	$2,975	$2,348	$1,815	$1,381	$1,689	$660	$635	$580	$505	$424	$343	$271	$210	$160
233	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Sales	RET	$1,026	$1,040	$998	$911	$794	$665	$539	$425	$328	$250	$306	$120	$115	$105	$91	$77	$62	$49	$38	$29
234	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Health	RET	$5,026	$5,095	$4,893	$4,464	$3,890	$3,257	$2,639	$2,082	$1,610	$1,225	$1,499	$586	$563	$514	$448	$376	$305	$241	$186	$142
235	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Lodging	RET	$10,741	$10,887	$10,455	$9,540	$8,313	$6,960	$5,639	$4,450	$3,440	$2,617	$3,202	$1,252	$1,203	$1,099	$958	$803	$651	$514	$398	$303
236	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Office	RET	$13,380	$13,562	$13,025	$11,885	$10,355	$8,671	$7,025	$5,543	$4,285	$3,261	$3,989	$1,559	$1,499	$1,369	$1,193	$1,000	$811	$640	$495	$377
237	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Service	RET	$1,869	$1,894	$1,819	$1,660	$1,447	$1,211	$981	$774	$599	$455	$557	$218	$209	$191	$167	$140	$113	$89	$69	$53
238	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Retail	RET	$24,337	$24,668	$23,690	$21,617	$18,835	$15,771	$12,777	$10,082	$7,794	$5,930	$7,256	$2,836	$2,726	$2,489	$2,171	$1,819	$1,475	$1,165	$901	$686
239	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Warehouse	RET	$2,441	$2,474	$2,376	$2,168	$1,889	$1,582	$1,282	$1,011	$782	$595	$728	$284	$273	$250	$218	$182	$148	$117	$90	$69
240	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Assembly	RET	$1,860	$1,886	$1,811	$1,652	$1,440	$1,206	$977	$771	$596	$453	$555	$217	$208	$190	$166	$139	$113	$89	$69	$52
241	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Other	RET	$32,971	$33,419	$32,095	$29,286	$25,517	$21,366	$17,311	$13,659	$10,559	$8,035	$9,830	$3,842	$3,693	$3,373	$2,941	$2,465	$1,998	$1,578	$1,221	$930
242	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-BSS	BSS	RET	$20,116	$15,681	$11,974	$9,000	$6,685	$0	$0	$0	$0	$0	$2,052	$1,600	$1,222	$919	$683	$0	$0	$0	$0	$0
243	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Education	RET	$2,086	$2,104	$2,011	$1,826	$1,583	$1,319	$1,064	$835	$642	$487	$592	$230	$220	$200	$174	$145	$117	$92	$71	$54
244	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Sales	RET	$378	$381	$364	$331	$287	$239	$193	$151	$116	$88	$107	$42	$40	$36	$31	$26	$21	$17	$13	$10
245	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Health	RET	$1,851	$1,866	$1,784	$1,620	$1,404	$1,170	$943	$741	$570	$432	$525	$204	$196	$178	$154	$129	$104	$82	$63	$48
246	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Lodging	RET	$3,955	$3,989	$3,812	$3,461	$3,001	$2,501	$2,016	$1,583	$1,218	$922	$1,123	$437	$418	$380	$330	$275	$222	$174	$134	$102
247	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Office	RET	$4,926	$4,969	$4,748	$4,312	$3,738	$3,115	$2,511	$1,972	$1,517	$1,149	$1,399	$544	$521	$473	$411	$342	$276	$217	$167	$127
248	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Service	RET	$688	$694	$663	$602	$522	$435	$351	$275	$212	$160	$195	$76	$73	$66	$57	$48	$39	$30	$23	$18
249	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Retail	RET	$8,960	$9,037	$8,637	$7,842	$6,800	$5,666	$4,568	$3,587	$2,759	$2,090	$2,544	$990	$947	$861	$747	$623	$503	$395	$304	$231
250	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Warehouse	RET	$899	$906	$866	$787	$682	$568	$458	$360	$277	$210	$255	$99	$95	$86	$75	$62	$50	$40	$31	$23
251	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Assembly	RET	$685	$691	$660	$599	$520	$433	$349	$274	$211	$160	$194	$76	$72	$66	$57	$48	$38	$30	$23	$18
252	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Other	RET	$12,139	$12,244	$11,701	$10,625	$9,212	$7,676	$6,189	$4,860	$3,738	$2,831	$3,447	$1,341	$1,283	$1,166	$1,012	$844	$681	$535	$412	$312
253	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-BSS	BSS	RET	$4,687	$3,653	$2,790	$2,097	$1,558	$0	$0	$0	$0	$0	$478	$373	$285	$214	$159	$0	$0	$0	$0	$0
254	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Education	RET	$11,199	$11,385	$10,965	$10,034	$8,767	$7,361	$5,981	$4,732	$3,668	$2,798	$3,433	$1,345	$1,296	$1,187	$1,038	$872	$708	$561	$435	$332
255	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Sales	RET	$2,027	$2,061	$1,985	$1,816	$1,587	$1,332	$1,083	$857	$664	$507	$621	$244	$235	$215	$188	$158	$128	$102	$79	$60
256	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Health	RET	$9,934	$10,098	$9,726	$8,900	$7,776	$6,530	$5,305	$4,197	$3,253	$2,482	$3,045	$1,193	$1,150	$1,053	$920	$773	$628	$497	$386	$294
257	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Lodging	RET	$21,228	$21,579	$20,783	$19,018	$16,618	$13,953	$11,336	$8,969	$6,952	$5,304	$6,506	$2,550	$2,457	$2,250	$1,967	$1,652	$1,343	$1,063	$824	$629
258	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Office	RET	$26,444	$26,882	$25,891	$23,692	$20,701	$17,382	$14,122	$11,173	$8,660	$6,608	$8,105	$3,177	$3,061	$2,803	$2,450	$2,058	$1,673	$1,324	$1,027	$784
259	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Service	RET	$3,694	$3,755	$3,617	$3,310	$2,892	$2,428	$1,973	$1,561	$1,210	$923	$1,132	$444	$428	$391	$342	$288	$234	$185	$143	$109
260	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Retail	RET	$48,099	$48,895	$47,092	$43,093	$37,653	$31,616	$25,685	$20,323	$15,752	$12,018	$14,743	$5,778	$5,568	$5,097	$4,456	$3,744	$3,043	$2,409	$1,868	$1,426
261	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Warehouse	RET	$4,824	$4,904	$4,723	$4,322	$3,776	$3,171	$2,576	$2,038	$1,580	$1,205	$1,479	$579	$558	$511	$447	$375	$305	$242	$187	$143
262	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Assembly	RET	$3,677	$3,738	$3,600	$3,294	$2,878	$2,417	$1,963	$1,553	$1,204	$919	$1,127	$442	$426	$390	$341	$286	$233	$184	$143	$109
263	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Other	RET	$65,164	$66,242	$63,800	$58,382	$51,012	$42,833	$34,798	$27,533	$21,340	$16,282	$19,973	$7,828	$7,543	$6,906	$6,037	$5,072	$4,122	$3,263	$2,531	$1,932
264	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-BSS	BSS	RET	$48,371	$37,706	$28,792	$21,642	$16,076	$0	$0	$0	$0	$0	$4,933	$3,847	$2,939	$2,210	$1,642	$0	$0	$0	$0	$0
265	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Education	RET	$2,307	$2,331	$2,232	$2,031	$1,764	$1,472	$1,189	$936	$721	$547	$667	$260	$249	$227	$197	$165	$133	$105	$81	$62
266	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Sales	RET	$418	$422	$404	$368	$319	$267	$215	$169	$131	$99	$121	$47	$45	$41	$36	$30	$24	$19	$15	$11
267	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Health	RET	$2,046	$2,068	$1,980	$1,801	$1,565	$1,306	$1,055	$830	$640	$485	$592	$231	$221	$201	$175	$146	$118	$93	$72	$55
268	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Lodging	RET	$4,373	$4,419	$4,231	$3,849	$3,343	$2,791	$2,254	$1,774	$1,367	$1,037	$1,265	$493	$473	$430	$374	$313	$253	$199	$154	$117
269	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Office	RET	$5,448	$5,505	$5,271	$4,795	$4,165	$3,477	$2,808	$2,209	$1,703	$1,292	$1,576	$614	$589	$536	$466	$389	$315	$248	$191	$145
270	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Service	RET	$761	$769	$736	$670	$582	$486	$392	$309	$238	$180	$220	$86	$82	$75	$65	$54	$44	$35	$27	$20
271	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Retail	RET	$9,909	$10,013	$9,586	$8,721	$7,575	$6,324	$5,108	$4,019	$3,097	$2,350	$2,866	$1,117	$1,071	$975	$848	$708	$573	$451	$348	$264
272	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Warehouse	RET	$994	$1,004	$961	$875	$760	$634	$512	$403	$311	$236	$287	$112	$107	$98	$85	$71	$57	$45	$35	$26
273	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Assembly	RET	$757	$765	$733	$667	$579	$483	$390	$307	$237	$180	$219	$85	$82	$75	$65	$54	$44	$34	$27	$20
274	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Other	RET	$13,424	$13,565	$12,988	$11,815	$10,263	$8,568	$6,921	$5,445	$4,196	$3,184	$3,883	$1,514	$1,451	$1,321	$1,148	$960	$776	$611	$471	$358
275	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-BSS	bss	RET	$6,313	$4,921	$3,758	$2,825	$2,098	$0	$0	$0	$0	$0	$644	$502	$384	$288	$214	$0	$0	$0	$0	$0
276	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Education	RET	$13,778	$13,911	$13,308	$12,097	$10,500	$8,758	$7,069	$5,557	$4,279	$3,244	$2,431	$0	$0	$0	$0	$1,608	$1,626	$1,558	$1,418	$1,233
277	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	$2,530	$2,555	$2,444	$2,222	$1,928	$1,609	$1,298	$1,021	$786	$596	$446	$0	$0	$0	$0	$295	$299	$286	$260	$226
278	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
279	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
280	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Office	RET	$19,339	$19,526	$18,680	$16,979	$14,738	$12,293	$9,922	$7,800	$6,006	$4,553	$3,412	$0	$0	$0	$0	$2,257	$2,283	$2,187	$1,991	$1,730
281	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	$4,611	$4,656	$4,454	$4,049	$3,514	$2,931	$2,366	$1,860	$1,432	$1,086	$813	$0	$0	$0	$0	$538	$544	$521	$475	$413
282	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Retail	RET	$26,219	$26,473	$25,326	$23,021	$19,981	$16,667	$13,452	$10,575	$8,144	$6,174	$4,625	$0	$0	$0	$0	$3,061	$3,095	$2,965	$2,699	$2,346
283	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	$9,923	$10,019	$9,585	$8,712	$7,562	$6,308	$5,091	$4,002	$3,082	$2,336	$1,750	$0	$0	$0	$0	$1,158	$1,171	$1,122	$1,021	$888
284	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	$3,270	$3,301	$3,158	$2,871	$2,492	$2,079	$1,678	$1,319	$1,016	$770	$577	$0	$0	$0	$0	$382	$386	$370	$337	$293
285	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Other	RET	$53,137	$53,651	$51,327	$46,655	$40,496	$33,779	$27,263	$21,431	$16,504	$12,512	$9,374	$0	$0	$0	$0	$6,203	$6,272	$6,009	$5,470	$4,755
286	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-BSS	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
287	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Education	RET	$13,252	$13,396	$12,830	$11,676	$10,146	$8,473	$6,846	$5,388	$4,154	$3,153	$2,365	$0	$0	$0	$0	$1,574	$1,593	$1,528	$1,392	$1,212
288	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	$2,434	$2,460	$2,356	$2,144	$1,863	$1,556	$1,257	$990	$763	$579	$434	$0	$0	$0	$0	$289	$293	$281	$256	$223
289	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
290	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
291	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Office	RET	$18,601	$18,802	$18,009	$16,388	$14,241	$11,893	$9,610	$7,563	$5,831	$4,425	$3,319	$0	$0	$0	$0	$2,209	$2,236	$2,144	$1,954	$1,701
292	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	$4,435	$4,483	$4,294	$3,908	$3,396	$2,836	$2,291	$1,803	$1,390	$1,055	$791	$0	$0	$0	$0	$527	$533	$511	$466	$406
293	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Retail	RET	$25,219	$25,492	$24,416	$22,219	$19,308	$16,124	$13,029	$10,253	$7,905	$6,000	$4,500	$0	$0	$0	$0	$2,994	$3,031	$2,907	$2,650	$2,306
294	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	$9,544	$9,648	$9,240	$8,409	$7,307	$6,102	$4,931	$3,880	$2,992	$2,271	$1,703	$0	$0	$0	$0	$1,133	$1,147	$1,100	$1,003	$873
295	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	$3,145	$3,179	$3,045	$2,771	$2,408	$2,011	$1,625	$1,279	$986	$748	$561	$0	$0	$0	$0	$373	$378	$363	$330	$288
296	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Other	RET	$51,110	$51,664	$49,483	$45,030	$39,130	$32,678	$26,405	$20,780	$16,021	$12,159	$9,120	$0	$0	$0	$0	$6,069	$6,143	$5,892	$5,370	$4,673
297	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-BSS	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
298	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Education	RET	$9,557	$9,633	$9,201	$8,349	$7,235	$6,025	$4,855	$3,810	$2,929	$2,217	$1,658	$0	$0	$0	$0	$1,088	$1,098	$1,050	$955	$828
299	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	$1,755	$1,769	$1,690	$1,533	$1,329	$1,107	$892	$700	$538	$407	$305	$0	$0	$0	$0	$200	$202	$193	$175	$152
300	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
301	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
302	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Office	RET	$13,414	$13,521	$12,914	$11,719	$10,155	$8,457	$6,814	$5,347	$4,111	$3,111	$2,327	$0	$0	$0	$0	$1,527	$1,541	$1,474	$1,340	$1,163
303	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	$3,199	$3,224	$3,079	$2,794	$2,421	$2,016	$1,625	$1,275	$980	$742	$555	$0	$0	$0	$0	$364	$368	$352	$319	$277
304	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Retail	RET	$18,187	$18,332	$17,509	$15,889	$13,768	$11,465	$9,238	$7,250	$5,574	$4,218	$3,155	$0	$0	$0	$0	$2,070	$2,090	$1,999	$1,817	$1,576
305	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	$6,883	$6,938	$6,626	$6,013	$5,211	$4,339	$3,496	$2,744	$2,109	$1,596	$1,194	$0	$0	$0	$0	$783	$791	$756	$687	$597
306	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	$2,268	$2,286	$2,184	$1,982	$1,717	$1,430	$1,152	$904	$695	$526	$393	$0	$0	$0	$0	$258	$261	$249	$227	$197
307	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Other	RET	$36,858	$37,153	$35,485	$32,201	$27,903	$23,236	$18,723	$14,693	$11,296	$8,549	$6,395	$0	$0	$0	$0	$4,196	$4,235	$4,051	$3,682	$3,195
308	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-BSS	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
309	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Education	RET	$1,935	$1,559	$1,223	$939	$711	$531	$0	$205	$165	$130	$100	$75	$56	$0	$22	$18	$14	$11	$8	$6
310	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Sales	RET	$23	$19	$15	$11	$9	$6	$0	$2	$2	$2	$1	$1	$1	$0	$0	$0	$0	$0	$0	$0
311	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Health	RET	$1,594	$1,284	$1,007	$774	$586	$438	$0	$169	$136	$107	$82	$62	$47	$0	$18	$15	$11	$9	$7	$5
312	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Lodging	RET	$1,273	$1,025	$804	$618	$467	$349	$0	$135	$109	$85	$66	$50	$37	$0	$14	$12	$9	$7	$5	$4
313	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Office	RET	$1,318	$1,061	$833	$640	$484	$362	$0	$140	$113	$88	$68	$51	$38	$0	$15	$12	$9	$7	$5	$4
314	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Service	RET	$26	$21	$16	$12	$9	$7	$0	$3	$2	$2	$1	$1	$1	$0	$0	$0	$0	$0	$0	$0
315	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Retail	RET	$435	$350	$275	$211	$160	$119	$0	$46	$37	$29	$22	$17	$13	$0	$5	$4	$3	$2	$2	$1
316	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Warehouse	RET	$864	$696	$546	$419	$317	$237	$0	$92	$74	$58	$45	$34	$25	$0	$10	$8	$6	$5	$4	$3
317	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Assembly	RET	$328	$264	$207	$159	$120	$90	$0	$35	$28	$22	$17	$13	$10	$0	$4	$3	$2	$2	$1	$1
318	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Other	RET	$5,122	$4,126	$3,236	$2,487	$1,881	$1,406	$0	$543	$437	$343	$264	$200	$149	$0	$58	$47	$37	$28	$21	$16
319	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-BSS	BSS	RET	$2,788	$2,174	$1,660	$1,248	$927	$0	$0	$283	$220	$168	$127	$94	$0	$0	$29	$22	$17	$13	$10	$0
320	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	$8,771	$8,420	$7,681	$6,690	$5,599	$4,535	$3,577	$2,764	$2,103	$1,581	$1,005	$965	$881	$768	$644	$522	$412	$318	$242	$182
321	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	$881	$846	$772	$672	$563	$456	$359	$278	$211	$159	$101	$97	$89	$77	$65	$52	$41	$32	$24	$18
322	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	$2,658	$2,552	$2,328	$2,028	$1,697	$1,374	$1,084	$838	$637	$479	$305	$293	$267	$233	$195	$158	$125	$97	$73	$55
323	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	$1,194	$1,146	$1,045	$910	$762	$617	$487	$376	$286	$215	$137	$131	$120	$105	$88	$71	$56	$43	$33	$25
324	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	$17,306	$16,614	$15,154	$13,199	$11,048	$8,948	$7,058	$5,454	$4,149	$3,119	$1,983	$1,905	$1,739	$1,516	$1,270	$1,029	$813	$628	$478	$360
325	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	$1,606	$1,542	$1,406	$1,225	$1,025	$830	$655	$506	$385	$289	$184	$177	$161	$141	$118	$96	$75	$58	$44	$33
326	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	$13,776	$13,225	$12,063	$10,507	$8,795	$7,123	$5,618	$4,341	$3,302	$2,483	$1,578	$1,516	$1,384	$1,207	$1,011	$819	$647	$500	$381	$287
327	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	$4,204	$4,036	$3,681	$3,206	$2,684	$2,173	$1,714	$1,325	$1,008	$758	$482	$463	$422	$368	$308	$250	$197	$153	$116	$87
328	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	$1,024	$984	$897	$781	$654	$530	$418	$323	$246	$185	$117	$113	$103	$90	$75	$61	$48	$37	$28	$21
329	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	$23,487	$22,548	$20,567	$17,914	$14,994	$12,144	$9,579	$7,402	$5,630	$4,233	$2,691	$2,585	$2,360	$2,057	$1,724	$1,397	$1,103	$853	$649	$488
330	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	$42,390	$33,044	$25,232	$18,966	$14,088	$0	$0	$0	$0	$0	$4,323	$3,371	$2,575	$1,936	$1,439	$0	$0	$0	$0	$0
331	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	$15,968	$15,360	$14,037	$12,250	$10,273	$8,336	$6,587	$5,100	$3,886	$2,927	$0	$0	$0	$0	$0	$2,019	$1,944	$1,778	$1,553	$1,304
332	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	$1,604	$1,543	$1,410	$1,231	$1,032	$838	$662	$512	$390	$294	$0	$0	$0	$0	$0	$203	$195	$179	$156	$131
333	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	$4,840	$4,655	$4,254	$3,713	$3,113	$2,526	$1,996	$1,546	$1,178	$887	$0	$0	$0	$0	$0	$612	$589	$539	$471	$395
334	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	$2,173	$2,090	$1,910	$1,667	$1,398	$1,134	$896	$694	$529	$398	$0	$0	$0	$0	$0	$275	$265	$242	$211	$177
335	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	$31,505	$30,304	$27,695	$24,169	$20,268	$16,446	$12,997	$10,061	$7,668	$5,775	$0	$0	$0	$0	$0	$3,983	$3,835	$3,508	$3,064	$2,572
336	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	$2,924	$2,812	$2,570	$2,243	$1,881	$1,526	$1,206	$934	$712	$536	$0	$0	$0	$0	$0	$370	$356	$326	$284	$239
337	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	$25,079	$24,123	$22,046	$19,239	$16,134	$13,092	$10,346	$8,009	$6,104	$4,597	$0	$0	$0	$0	$0	$3,171	$3,053	$2,793	$2,439	$2,048
338	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	$7,653	$7,361	$6,727	$5,871	$4,923	$3,995	$3,157	$2,444	$1,863	$1,403	$0	$0	$0	$0	$0	$967	$932	$852	$744	$625
339	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	$1,865	$1,794	$1,640	$1,431	$1,200	$974	$769	$596	$454	$342	$0	$0	$0	$0	$0	$236	$227	$208	$181	$152
340	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	$42,758	$41,129	$37,588	$32,802	$27,508	$22,321	$17,639	$13,655	$10,406	$7,837	$0	$0	$0	$0	$0	$5,406	$5,205	$4,761	$4,159	$3,491
341	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	$88,662	$69,114	$52,775	$39,669	$29,467	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,145	$7,133	$5,450	$4,099	$3,046
342	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Education	RET	$11,351	$10,896	$9,938	$8,656	$7,245	$5,867	$4,628	$3,576	$2,720	$2,045	$0	$1,318	$1,266	$1,156	$1,008	$844	$684	$540	$418	$318
343	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	$1,140	$1,095	$999	$870	$728	$590	$465	$359	$273	$205	$0	$132	$127	$116	$101	$85	$69	$54	$42	$32
344	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Health	RET	$3,440	$3,302	$3,012	$2,623	$2,196	$1,778	$1,403	$1,084	$824	$620	$0	$399	$384	$350	$305	$256	$207	$164	$127	$96
345	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Lodging	RET	$1,545	$1,483	$1,352	$1,178	$986	$798	$630	$487	$370	$278	$0	$179	$172	$157	$137	$115	$93	$74	$57	$43
346	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Office	RET	$22,394	$21,498	$19,608	$17,078	$14,294	$11,576	$9,130	$7,055	$5,366	$4,034	$0	$2,600	$2,499	$2,281	$1,988	$1,666	$1,350	$1,066	$824	$628
347	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Service	RET	$2,078	$1,995	$1,820	$1,585	$1,326	$1,074	$847	$655	$498	$374	$0	$241	$232	$212	$185	$155	$125	$99	$77	$58
348	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Retail	RET	$17,827	$17,113	$15,609	$13,594	$11,378	$9,215	$7,268	$5,616	$4,272	$3,211	$0	$2,070	$1,989	$1,816	$1,583	$1,326	$1,075	$849	$656	$500
349	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	$5,440	$5,222	$4,763	$4,148	$3,472	$2,812	$2,218	$1,714	$1,303	$980	$0	$632	$607	$554	$483	$405	$328	$259	$200	$152
350	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Assembly	RET	$1,326	$1,273	$1,161	$1,011	$846	$685	$540	$418	$318	$239	$0	$154	$148	$135	$118	$99	$80	$63	$49	$37
351	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Other	RET	$30,394	$29,177	$26,612	$23,178	$19,399	$15,710	$12,392	$9,575	$7,283	$5,475	$0	$3,529	$3,391	$3,096	$2,699	$2,261	$1,833	$1,447	$1,119	$852
352	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-BSS	BSS	RET	$54,633	$42,587	$32,519	$24,444	$18,157	$0	$0	$0	$0	$0	$0	$5,584	$4,355	$3,327	$2,501	$1,859	$0	$0	$0	$0
353	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	$26,126	$25,050	$22,820	$19,852	$16,596	$13,424	$10,576	$8,162	$6,201	$4,656	$2,957	$2,837	$2,587	$2,253	$1,885	$1,526	$1,203	$930	$707	$531
354	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	$2,625	$2,517	$2,293	$1,995	$1,667	$1,349	$1,063	$820	$623	$468	$297	$285	$260	$226	$189	$153	$121	$93	$71	$53
355	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	$7,918	$7,592	$6,916	$6,017	$5,030	$4,068	$3,205	$2,474	$1,879	$1,411	$896	$860	$784	$683	$571	$462	$365	$282	$214	$161
356	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	$3,555	$3,409	$3,105	$2,701	$2,258	$1,827	$1,439	$1,111	$844	$634	$402	$386	$352	$307	$256	$208	$164	$126	$96	$72
357	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	$51,547	$49,423	$45,024	$39,167	$32,743	$26,486	$20,866	$16,104	$12,235	$9,187	$5,833	$5,598	$5,104	$4,444	$3,719	$3,011	$2,374	$1,834	$1,395	$1,048
358	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	$4,784	$4,587	$4,178	$3,635	$3,039	$2,458	$1,936	$1,494	$1,135	$853	$541	$520	$474	$412	$345	$279	$220	$170	$129	$97
359	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	$41,033	$39,342	$35,841	$31,178	$26,064	$21,083	$16,610	$12,819	$9,739	$7,313	$4,643	$4,456	$4,063	$3,538	$2,960	$2,397	$1,890	$1,460	$1,110	$834
360	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	$12,521	$12,005	$10,937	$9,514	$7,954	$6,434	$5,069	$3,912	$2,972	$2,232	$1,417	$1,360	$1,240	$1,080	$903	$731	$577	$445	$339	$255
361	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	$3,051	$2,926	$2,665	$2,319	$1,938	$1,568	$1,235	$953	$724	$544	$345	$331	$302	$263	$220	$178	$141	$109	$83	$62
362	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	$69,959	$67,077	$61,107	$53,157	$44,439	$35,946	$28,319	$21,856	$16,605	$12,468	$7,917	$7,598	$6,928	$6,032	$5,047	$4,086	$3,222	$2,489	$1,893	$1,422
363	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	$156,949	$122,344	$93,422	$70,221	$52,162	$0	$0	$0	$0	$0	$16,007	$12,482	$9,535	$7,170	$5,328	$0	$0	$0	$0	$0
364	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	$35,492	$34,014	$30,973	$26,931	$22,504	$18,195	$14,328	$11,053	$8,394	$6,300	$0	$0	$0	$0	$0	$4,258	$4,087	$3,726	$3,245	$2,715
365	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	$3,566	$3,418	$3,112	$2,706	$2,261	$1,828	$1,440	$1,111	$843	$633	$0	$0	$0	$0	$0	$428	$411	$374	$326	$273
366	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	$10,757	$10,309	$9,387	$8,162	$6,820	$5,514	$4,342	$3,350	$2,544	$1,909	$0	$0	$0	$0	$0	$1,291	$1,239	$1,129	$983	$823
367	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	$4,830	$4,629	$4,215	$3,665	$3,062	$2,476	$1,950	$1,504	$1,142	$857	$0	$0	$0	$0	$0	$579	$556	$507	$442	$369
368	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	$70,025	$67,110	$61,109	$53,134	$44,399	$35,898	$28,268	$21,807	$16,561	$12,429	$0	$0	$0	$0	$0	$8,402	$8,063	$7,352	$6,402	$5,356
369	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	$6,499	$6,228	$5,671	$4,931	$4,120	$3,331	$2,623	$2,024	$1,537	$1,153	$0	$0	$0	$0	$0	$780	$748	$682	$594	$497
370	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	$55,742	$53,421	$48,644	$42,297	$35,343	$28,576	$22,502	$17,359	$13,183	$9,894	$0	$0	$0	$0	$0	$6,688	$6,418	$5,852	$5,096	$4,264
371	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	$17,010	$16,302	$14,844	$12,907	$10,785	$8,720	$6,867	$5,297	$4,023	$3,019	$0	$0	$0	$0	$0	$2,041	$1,959	$1,786	$1,555	$1,301
372	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	$4,145	$3,973	$3,617	$3,145	$2,628	$2,125	$1,673	$1,291	$980	$736	$0	$0	$0	$0	$0	$497	$477	$435	$379	$317
373	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	$95,038	$91,081	$82,936	$72,114	$60,259	$48,720	$38,366	$29,596	$22,476	$16,869	$0	$0	$0	$0	$0	$11,403	$10,943	$9,978	$8,688	$7,270
374	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	$204,913	$159,734	$121,972	$91,682	$68,102	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$21,136	$16,485	$12,595	$9,472	$7,040
375	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Education	RET	$23,684	$22,680	$20,635	$17,928	$14,969	$12,093	$9,515	$7,335	$5,566	$4,174	$0	$2,678	$2,567	$2,338	$2,034	$1,700	$1,375	$1,083	$835	$635
376	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	$2,380	$2,279	$2,073	$1,801	$1,504	$1,215	$956	$737	$559	$419	$0	$269	$258	$235	$204	$171	$138	$109	$84	$64
377	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Health	RET	$7,178	$6,874	$6,254	$5,434	$4,537	$3,665	$2,884	$2,223	$1,687	$1,265	$0	$812	$778	$709	$616	$515	$417	$328	$253	$192
378	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Lodging	RET	$3,223	$3,086	$2,808	$2,440	$2,037	$1,646	$1,295	$998	$757	$568	$0	$364	$349	$318	$277	$231	$187	$147	$114	$86
379	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Office	RET	$46,728	$44,746	$40,712	$35,372	$29,533	$23,859	$18,774	$14,471	$10,981	$8,235	$0	$5,284	$5,065	$4,613	$4,012	$3,354	$2,712	$2,136	$1,648	$1,252
380	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Food Service	RET	$4,336	$4,153	$3,778	$3,283	$2,741	$2,214	$1,742	$1,343	$1,019	$764	$0	$490	$470	$428	$372	$311	$252	$198	$153	$116
381	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Retail	RET	$37,197	$35,619	$32,408	$28,157	$23,509	$18,993	$14,944	$11,519	$8,741	$6,555	$0	$4,206	$4,032	$3,672	$3,194	$2,669	$2,159	$1,700	$1,312	$997
382	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	$11,351	$10,869	$9,889	$8,592	$7,174	$5,796	$4,560	$3,515	$2,667	$2,000	$0	$1,283	$1,230	$1,121	$975	$815	$659	$519	$400	$304
383	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Assembly	RET	$2,766	$2,649	$2,410	$2,094	$1,748	$1,412	$1,111	$857	$650	$487	$0	$313	$300	$273	$238	$199	$161	$126	$98	$74
384	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Other	RET	$63,419	$60,730	$55,255	$48,006	$40,082	$32,382	$25,479	$19,640	$14,903	$11,177	$0	$7,171	$6,874	$6,261	$5,445	$4,551	$3,681	$2,899	$2,237	$1,699
385	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-BSS	BSS	RET	$62,169	$48,462	$37,006	$27,816	$20,662	$0	$0	$0	$0	$0	$0	$6,354	$4,955	$3,785	$2,847	$2,115	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
386	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	$21,333	$20,438	$18,604	$16,171	$13,508	$10,918	$8,595	$6,628	$5,032	$3,775	$2,395	$2,297	$2,093	$1,821	$1,523	$1,232	$971	$749	$569	$428
387	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	$2,143	$2,054	$1,869	$1,625	$1,357	$1,097	$864	$666	$506	$379	$241	$231	$210	$183	$153	$124	$98	$75	$57	$43
388	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	$6,465	$6,194	$5,638	$4,901	$4,094	$3,309	$2,605	$2,009	$1,525	$1,144	$726	$696	$634	$552	$461	$373	$294	$227	$173	$130
389	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	$2,903	$2,781	$2,532	$2,201	$1,838	$1,486	$1,170	$902	$685	$514	$326	$313	$285	$248	$207	$168	$132	$102	$77	$58
390	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	$42,090	$40,324	$36,706	$31,906	$26,652	$21,542	$16,958	$13,078	$9,928	$7,449	$4,726	$4,532	$4,129	$3,593	$3,004	$2,430	$1,915	$1,478	$1,123	$843
391	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	$3,906	$3,742	$3,406	$2,961	$2,473	$1,999	$1,574	$1,214	$921	$691	$439	$421	$383	$333	$279	$226	$178	$137	$104	$78
392	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	$33,505	$32,099	$29,219	$25,398	$21,216	$17,148	$13,499	$10,410	$7,903	$5,929	$3,762	$3,608	$3,287	$2,860	$2,391	$1,935	$1,524	$1,177	$894	$671
393	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	$10,224	$9,795	$8,916	$7,750	$6,474	$5,233	$4,119	$3,177	$2,412	$1,809	$1,148	$1,101	$1,003	$873	$730	$590	$465	$359	$273	$205
394	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	$2,492	$2,387	$2,173	$1,889	$1,578	$1,275	$1,004	$774	$588	$441	$280	$268	$244	$213	$178	$144	$113	$87	$66	$50
395	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	$57,124	$54,728	$49,817	$43,302	$36,172	$29,236	$23,015	$17,749	$13,474	$10,110	$6,414	$6,151	$5,604	$4,876	$4,077	$3,298	$2,599	$2,006	$1,524	$1,145
396	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	$71,018	$55,360	$42,273	$31,775	$23,603	$0	$0	$0	$0	$0	$7,243	$5,648	$4,315	$3,244	$2,411	$0	$0	$0	$0	$0
397	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	$40,462	$38,822	$35,390	$30,807	$25,771	$20,860	$16,445	$12,700	$9,655	$7,255	$0	$0	$0	$0	$0	$4,936	$4,742	$4,328	$3,772	$3,160
398	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	$4,065	$3,901	$3,556	$3,095	$2,589	$2,096	$1,652	$1,276	$970	$729	$0	$0	$0	$0	$0	$496	$476	$435	$379	$317
399	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	$12,263	$11,766	$10,726	$9,337	$7,811	$6,322	$4,984	$3,849	$2,926	$2,199	$0	$0	$0	$0	$0	$1,496	$1,437	$1,312	$1,143	$958
400	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	$5,506	$5,283	$4,816	$4,192	$3,507	$2,839	$2,238	$1,728	$1,314	$987	$0	$0	$0	$0	$0	$672	$645	$589	$513	$430
401	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	$79,831	$76,594	$69,824	$60,782	$50,847	$41,157	$32,446	$25,057	$19,050	$14,313	$0	$0	$0	$0	$0	$9,738	$9,355	$8,539	$7,443	$6,234
402	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	$7,408	$7,108	$6,480	$5,641	$4,719	$3,819	$3,011	$2,325	$1,768	$1,328	$0	$0	$0	$0	$0	$904	$868	$792	$691	$579
403	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	$63,547	$60,971	$55,582	$48,384	$40,475	$32,762	$25,828	$19,946	$15,164	$11,394	$0	$0	$0	$0	$0	$7,751	$7,447	$6,797	$5,925	$4,963
404	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	$19,392	$18,605	$16,961	$14,764	$12,351	$9,997	$7,881	$6,087	$4,627	$3,477	$0	$0	$0	$0	$0	$2,365	$2,272	$2,074	$1,808	$1,514
405	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	$4,726	$4,534	$4,133	$3,598	$3,010	$2,436	$1,921	$1,483	$1,128	$847	$0	$0	$0	$0	$0	$576	$554	$505	$441	$369
406	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	$108,346	$103,953	$94,765	$82,492	$69,009	$55,858	$44,035	$34,008	$25,855	$19,426	$0	$0	$0	$0	$0	$13,216	$12,697	$11,589	$10,101	$8,461
407	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	$152,586	$118,944	$90,825	$68,270	$50,712	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,738	$12,275	$9,379	$7,054	$5,242
408	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Education	RET	$32,083	$30,789	$28,073	$24,442	$20,451	$16,557	$13,055	$10,084	$7,668	$5,762	$0	$3,712	$3,566	$3,255	$2,836	$2,375	$1,925	$1,519	$1,175	$894
409	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	$3,224	$3,094	$2,821	$2,456	$2,055	$1,664	$1,312	$1,013	$770	$579	$0	$373	$358	$327	$285	$239	$193	$153	$118	$90
410	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Health	RET	$9,724	$9,331	$8,508	$7,408	$6,198	$5,018	$3,957	$3,056	$2,324	$1,746	$0	$1,125	$1,081	$986	$860	$720	$583	$460	$356	$271
411	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Lodging	RET	$4,366	$4,190	$3,820	$3,326	$2,783	$2,253	$1,777	$1,372	$1,043	$784	$0	$505	$485	$443	$386	$323	$262	$207	$160	$122
412	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Office	RET	$63,299	$60,746	$55,387	$48,224	$40,350	$32,667	$25,758	$19,896	$15,129	$11,369	$0	$7,325	$7,036	$6,421	$5,596	$4,687	$3,798	$2,997	$2,317	$1,764
413	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Service	RET	$5,874	$5,637	$5,140	$4,475	$3,745	$3,032	$2,390	$1,846	$1,404	$1,055	$0	$680	$653	$596	$519	$435	$352	$278	$215	$164
414	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Retail	RET	$50,388	$48,355	$44,090	$38,388	$32,119	$26,004	$20,504	$15,838	$12,043	$9,050	$0	$5,831	$5,601	$5,111	$4,455	$3,731	$3,023	$2,386	$1,845	$1,404
415	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	$15,376	$14,756	$13,454	$11,714	$9,801	$7,935	$6,257	$4,833	$3,675	$2,762	$0	$1,779	$1,709	$1,560	$1,359	$1,138	$922	$728	$563	$428
416	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Assembly	RET	$3,747	$3,596	$3,279	$2,855	$2,389	$1,934	$1,525	$1,178	$896	$673	$0	$434	$417	$380	$331	$277	$225	$177	$137	$104
417	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Other	RET	$85,910	$82,444	$75,172	$65,449	$54,762	$44,335	$34,958	$27,003	$20,533	$15,430	$0	$9,941	$9,549	$8,715	$7,595	$6,361	$5,154	$4,068	$3,145	$2,394
418	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-BSS	BSS	RET	$122,929	$95,825	$73,172	$55,000	$40,855	$0	$0	$0	$0	$0	$0	$12,565	$9,798	$7,485	$5,628	$4,183	$0	$0	$0	$0
419	Lighting_Int	LED Specialty Lamp	Biz-Standard	Education	RET	$3,392	$3,421	$3,268	$2,966	$2,571	$2,141	$1,726	$1,355	$1,042	$789	$960	$373	$357	$324	$281	$235	$189	$149	$114	$87
420	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Sales	RET	$614	$619	$591	$537	$465	$388	$312	$245	$189	$143	$174	$68	$65	$59	$51	$42	$34	$27	$21	$16
421	Lighting_Int	LED Specialty Lamp	Biz-Standard	Health	RET	$3,009	$3,034	$2,898	$2,631	$2,280	$1,899	$1,531	$1,202	$924	$700	$852	$331	$317	$288	$250	$208	$168	$132	$102	$77
422	Lighting_Int	LED Specialty Lamp	Biz-Standard	Lodging	RET	$6,430	$6,483	$6,194	$5,622	$4,873	$4,059	$3,272	$2,568	$1,975	$1,495	$1,820	$708	$677	$615	$533	$445	$359	$282	$217	$164
423	Lighting_Int	LED Specialty Lamp	Biz-Standard	Office	RET	$8,011	$8,077	$7,716	$7,004	$6,071	$5,057	$4,075	$3,199	$2,460	$1,862	$2,267	$882	$843	$766	$665	$554	$447	$351	$270	$205
424	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Service	RET	$1,119	$1,128	$1,078	$978	$848	$706	$569	$447	$344	$260	$317	$123	$118	$107	$93	$77	$62	$49	$38	$29
425	Lighting_Int	LED Specialty Lamp	Biz-Standard	Retail	RET	$14,570	$14,690	$14,034	$12,739	$11,042	$9,197	$7,413	$5,819	$4,475	$3,387	$4,123	$1,603	$1,533	$1,393	$1,209	$1,008	$813	$639	$492	$373
426	Lighting_Int	LED Specialty Lamp	Biz-Standard	Warehouse	RET	$1,461	$1,473	$1,408	$1,278	$1,107	$922	$743	$584	$449	$340	$414	$161	$154	$140	$121	$101	$82	$64	$49	$37
427	Lighting_Int	LED Specialty Lamp	Biz-Standard	Assembly	RET	$1,114	$1,123	$1,073	$974	$844	$703	$567	$445	$342	$259	$315	$123	$117	$106	$92	$77	$62	$49	$38	$28
428	Lighting_Int	LED Specialty Lamp	Biz-Standard	Other	RET	$19,739	$19,902	$19,014	$17,259	$14,959	$12,460	$10,043	$7,883	$6,062	$4,589	$5,586	$2,172	$2,077	$1,887	$1,638	$1,365	$1,101	$866	$666	$505
429	Lighting_Int	LED Specialty Lamp	Biz-BSS	BSS	RET	$7,319	$5,706	$4,357	$3,275	$2,433	$0	$0	$0	$0	$0	$747	$582	$445	$334	$248	$0	$0	$0	$0	$0
430	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Education	RET	$39,396	$48,087	$56,406	$63,180	$67,239	$67,803	$64,783	$58,810	$50,981	$42,470	$34,234	$26,877	$20,671	$15,650	$11,710	$4,485	$5,482	$6,440	$7,223	$7,699
431	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Sales	RET	$4,625	$5,645	$6,622	$7,417	$7,893	$7,960	$7,605	$6,904	$5,985	$4,986	$4,019	$3,155	$2,427	$1,837	$1,375	$526	$644	$756	$848	$904
432	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Health	RET	$12,806	$15,631	$18,335	$20,538	$21,857	$22,040	$21,058	$19,117	$16,572	$13,806	$11,128	$8,737	$6,719	$5,087	$3,807	$1,458	$1,782	$2,093	$2,348	$2,503
433	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Lodging	RET	$11,371	$13,880	$16,281	$18,237	$19,408	$19,571	$18,699	$16,975	$14,715	$12,259	$9,882	$7,758	$5,966	$4,517	$3,380	$1,294	$1,582	$1,859	$2,085	$2,222
434	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Office	RET	$76,694	$93,613	$109,808	$122,996	$130,898	$131,995	$126,115	$114,489	$99,247	$82,679	$66,645	$52,322	$40,241	$30,467	$22,797	$8,730	$10,672	$12,536	$14,062	$14,987
435	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Service	RET	$8,428	$10,287	$12,066	$13,516	$14,384	$14,504	$13,858	$12,581	$10,906	$9,085	$7,323	$5,749	$4,422	$3,348	$2,505	$959	$1,173	$1,378	$1,545	$1,647
436	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Retail	RET	$73,557	$89,784	$105,316	$117,965	$125,544	$126,596	$120,957	$109,806	$95,187	$79,297	$63,919	$50,182	$38,595	$29,221	$21,865	$8,373	$10,235	$12,023	$13,487	$14,374
437	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Warehouse	RET	$19,753	$24,110	$28,282	$31,678	$33,713	$33,996	$32,482	$29,487	$25,561	$21,294	$17,165	$13,476	$10,364	$7,847	$5,872	$2,249	$2,749	$3,229	$3,622	$3,860
438	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Assembly	RET	$5,923	$7,229	$8,480	$9,499	$10,109	$10,194	$9,740	$8,842	$7,665	$6,385	$5,147	$4,041	$3,108	$2,353	$1,761	$674	$824	$968	$1,086	$1,157
439	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Other	RET	$122,444	$149,455	$175,311	$196,366	$208,982	$210,734	$201,346	$182,784	$158,449	$131,999	$106,401	$83,533	$64,245	$48,641	$36,396	$13,938	$17,038	$20,014	$22,451	$23,928
440	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	BSS	RET	$26,395	$32,217	$37,791	$42,330	$45,049	$45,427	$43,403	$39,402	$34,156	$28,454	$22,936	$18,007	$13,849	$10,485	$7,846	$3,005	$3,673	$4,314	$4,840	$5,158
441	Lighting_Int	Lighting Power Density	Biz-Custom	Education	RET	$21,290	$25,987	$30,482	$34,143	$36,337	$36,641	$35,009	$31,782	$27,551	$22,951	$18,501	$14,524	$11,171	$8,458	$6,328	$2,424	$2,962	$3,480	$3,904	$4,160
442	Lighting_Int	Lighting Power Density	Biz-Custom	Food Sales	RET	$1,674	$2,044	$2,397	$2,685	$2,857	$2,881	$2,753	$2,499	$2,167	$1,805	$1,455	$1,142	$878	$665	$498	$191	$233	$274	$307	$327
443	Lighting_Int	Lighting Power Density	Biz-Custom	Health	RET	$6,890	$8,410	$9,865	$11,050	$11,760	$11,858	$11,330	$10,286	$8,916	$7,428	$5,987	$4,701	$3,615	$2,737	$2,048	$784	$959	$1,126	$1,263	$1,346
444	Lighting_Int	Lighting Power Density	Biz-Custom	Lodging	RET	$2,393	$2,921	$3,426	$3,838	$4,085	$4,119	$3,935	$3,573	$3,097	$2,580	$2,080	$1,633	$1,256	$951	$711	$272	$333	$391	$439	$468
445	Lighting_Int	Lighting Power Density	Biz-Custom	Office	RET	$36,103	$44,067	$51,691	$57,899	$61,619	$62,135	$59,367	$53,894	$46,719	$38,920	$31,373	$24,630	$18,943	$14,342	$10,732	$4,110	$5,024	$5,901	$6,620	$7,055
446	Lighting_Int	Lighting Power Density	Biz-Custom	Food Service	RET	$3,051	$3,724	$4,368	$4,893	$5,207	$5,251	$5,017	$4,554	$3,948	$3,289	$2,651	$2,081	$1,601	$1,212	$907	$347	$425	$499	$559	$596
447	Lighting_Int	Lighting Power Density	Biz-Custom	Retail	RET	$23,175	$28,288	$33,181	$37,166	$39,554	$39,886	$38,109	$34,596	$29,990	$24,984	$20,139	$15,810	$12,160	$9,206	$6,889	$2,638	$3,225	$3,788	$4,249	$4,529
448	Lighting_Int	Lighting Power Density	Biz-Custom	Warehouse	RET	$5,049	$6,163	$7,230	$8,098	$8,618	$8,690	$8,303	$7,538	$6,534	$5,443	$4,388	$3,445	$2,649	$2,006	$1,501	$575	$703	$825	$926	$987
449	Lighting_Int	Lighting Power Density	Biz-Custom	Assembly	RET	$2,494	$3,044	$3,571	$4,000	$4,257	$4,293	$4,101	$3,723	$3,228	$2,689	$2,167	$1,702	$1,309	$991	$741	$284	$347	$408	$457	$487
450	Lighting_Int	Lighting Power Density	Biz-Custom	Other	RET	$38,320	$46,773	$54,865	$61,454	$65,402	$65,951	$63,013	$57,203	$49,588	$41,310	$33,299	$26,142	$20,106	$15,223	$11,390	$4,362	$5,332	$6,264	$7,026	$7,488
451	Lighting_Int	Lighting Power Density	Biz-Custom	BSS	RET	$15,687	$19,147	$22,460	$25,157	$26,774	$26,998	$25,796	$23,417	$20,300	$16,911	$13,632	$10,702	$8,231	$6,232	$4,663	$1,786	$2,183	$2,564	$2,876	$3,066
452	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Education	RET	$41,746	$39,867	$36,174	$31,343	$26,099	$21,027	$16,500	$12,684	$9,599	$7,179	$4,540	$4,340	$3,942	$3,419	$2,849	$2,298	$1,805	$1,389	$1,052	$788
453	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Sales	RET	$4,621	$4,413	$4,004	$3,469	$2,889	$2,328	$1,826	$1,404	$1,062	$795	$503	$480	$436	$378	$315	$254	$200	$154	$116	$87
454	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Health	RET	$11,099	$10,599	$9,617	$8,333	$6,939	$5,590	$4,387	$3,372	$2,552	$1,909	$1,207	$1,154	$1,048	$909	$758	$611	$480	$369	$280	$209
455	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Lodging	RET	$4,983	$4,759	$4,318	$3,742	$3,115	$2,510	$1,970	$1,514	$1,146	$857	$542	$518	$471	$408	$340	$274	$215	$166	$126	$94
456	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Office	RET	$79,445	$75,870	$68,843	$59,649	$49,668	$40,017	$31,401	$24,139	$18,267	$13,662	$8,640	$8,260	$7,502	$6,506	$5,423	$4,373	$3,435	$2,643	$2,002	$1,499
457	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Service	RET	$8,420	$8,042	$7,297	$6,322	$5,264	$4,241	$3,328	$2,558	$1,936	$1,448	$916	$875	$795	$690	$575	$464	$364	$280	$212	$159
458	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Retail	RET	$67,268	$64,240	$58,290	$50,506	$42,055	$33,883	$26,588	$20,439	$15,467	$11,568	$7,316	$6,993	$6,352	$5,509	$4,591	$3,703	$2,908	$2,238	$1,695	$1,269
459	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Warehouse	RET	$21,242	$20,286	$18,407	$15,949	$13,280	$10,699	$8,396	$6,454	$4,884	$3,653	$2,310	$2,208	$2,006	$1,740	$1,450	$1,169	$918	$707	$535	$401
460	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Assembly	RET	$5,493	$5,246	$4,760	$4,125	$3,434	$2,767	$2,171	$1,669	$1,263	$945	$597	$571	$519	$450	$375	$302	$238	$183	$138	$104
461	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Other	RET	$117,826	$112,524	$102,101	$88,466	$73,663	$59,349	$46,571	$35,800	$27,092	$20,262	$12,815	$12,250	$11,126	$9,649	$8,042	$6,486	$5,094	$3,920	$2,969	$2,223
462	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	BSS	RET	$28,402	$27,124	$24,611	$21,324	$17,756	$14,306	$11,226	$8,630	$6,530	$4,884	$3,089	$2,953	$2,682	$2,326	$1,939	$1,563	$1,228	$945	$716	$536

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
463	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Education	RET	$93,963	$89,734	$81,423	$70,549	$58,744	$47,329	$37,139	$28,550	$21,605	$16,158	$10,219	$9,769	$8,873	$7,695	$6,414	$5,172	$4,063	$3,126	$2,368	$1,773
464	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Sales	RET	$10,401	$9,933	$9,013	$7,809	$6,502	$5,239	$4,111	$3,160	$2,391	$1,789	$1,131	$1,081	$982	$852	$710	$573	$450	$346	$262	$196
465	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Health	RET	$24,981	$23,857	$21,647	$18,756	$15,618	$12,583	$9,874	$7,590	$5,744	$4,296	$2,717	$2,597	$2,359	$2,046	$1,705	$1,375	$1,080	$831	$630	$471
466	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Lodging	RET	$11,217	$10,712	$9,720	$8,422	$7,012	$5,650	$4,433	$3,408	$2,579	$1,929	$1,220	$1,166	$1,059	$919	$766	$617	$485	$373	$283	$212
467	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Office	RET	$178,819	$170,771	$154,954	$134,260	$111,794	$90,071	$70,679	$54,332	$41,116	$30,751	$19,448	$18,591	$16,885	$14,644	$12,206	$9,843	$7,732	$5,949	$4,507	$3,374
468	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Service	RET	$18,953	$18,100	$16,424	$14,230	$11,849	$9,547	$7,491	$5,759	$4,358	$3,259	$2,061	$1,970	$1,790	$1,552	$1,294	$1,043	$819	$631	$478	$358
469	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Retail	RET	$151,409	$144,595	$131,202	$113,680	$94,658	$76,264	$59,845	$46,004	$34,814	$26,037	$16,467	$15,741	$14,297	$12,400	$10,335	$8,335	$6,546	$5,037	$3,816	$2,857
470	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Warehouse	RET	$47,812	$45,660	$41,431	$35,898	$29,891	$24,083	$18,898	$14,527	$10,993	$8,222	$5,200	$4,971	$4,515	$3,916	$3,263	$2,632	$2,067	$1,591	$1,205	$902
471	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Assembly	RET	$12,365	$11,809	$10,715	$9,284	$7,730	$6,228	$4,887	$3,757	$2,843	$2,126	$1,345	$1,286	$1,168	$1,013	$844	$681	$535	$411	$312	$233
472	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Other	RET	$265,208	$253,273	$229,814	$199,123	$165,803	$133,585	$104,824	$80,581	$60,980	$45,607	$28,844	$27,572	$25,043	$21,719	$18,102	$14,599	$11,467	$8,823	$6,684	$5,004
473	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	BSS	RET	$63,928	$61,051	$55,396	$47,998	$39,966	$32,200	$25,268	$19,424	$14,699	$10,993	$6,953	$6,646	$6,036	$5,235	$4,364	$3,519	$2,764	$2,127	$1,611	$1,206
474	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
475	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
476	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
477	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
478	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
479	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
480	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
481	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
482	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
483	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
484	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
485	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Education	RET	$61,911	$78,107	$95,347	$111,853	$125,298	$133,361	$134,492	$128,513	$116,676	$101,153	$84,275	$67,938	$53,342	$41,029	$31,067	$40,868	$22,260	$27,213	$31,970	$35,866
486	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Sales	RET	$6,853	$8,646	$10,554	$12,381	$13,869	$14,762	$14,887	$14,225	$12,915	$11,197	$9,328	$7,520	$5,904	$4,542	$3,439	$4,524	$2,464	$3,012	$3,539	$3,970
487	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Health	RET	$16,460	$20,766	$25,349	$29,738	$33,312	$35,456	$35,757	$34,167	$31,020	$26,893	$22,406	$18,062	$14,182	$10,908	$8,260	$10,865	$5,918	$7,235	$8,500	$9,535
488	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Lodging	RET	$7,391	$9,324	$11,382	$13,352	$14,957	$15,920	$16,055	$15,341	$13,928	$12,075	$10,060	$8,110	$6,368	$4,898	$3,709	$4,879	$2,657	$3,249	$3,816	$4,281
489	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Office	RET	$117,822	$148,645	$181,452	$212,864	$238,452	$253,796	$255,948	$244,570	$222,044	$192,502	$160,382	$129,292	$101,515	$78,082	$59,123	$77,775	$42,363	$51,789	$60,842	$68,255
490	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Service	RET	$12,488	$15,755	$19,232	$22,562	$25,274	$26,900	$27,128	$25,922	$23,535	$20,403	$16,999	$13,704	$10,760	$8,276	$6,267	$8,243	$4,490	$5,489	$6,449	$7,234
491	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Retail	RET	$99,762	$125,860	$153,639	$180,236	$201,901	$214,893	$216,716	$207,081	$188,008	$162,994	$135,798	$109,474	$85,954	$66,113	$50,061	$65,853	$35,870	$43,850	$51,516	$57,793
492	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Warehouse	RET	$31,503	$39,744	$48,516	$56,915	$63,756	$67,859	$68,434	$65,392	$59,369	$51,470	$42,882	$34,570	$27,142	$20,877	$15,808	$20,795	$11,327	$13,847	$16,268	$18,250
493	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Assembly	RET	$8,147	$10,278	$12,547	$14,719	$16,488	$17,550	$17,698	$16,912	$15,354	$13,311	$11,090	$8,940	$7,020	$5,399	$4,088	$5,378	$2,929	$3,581	$4,207	$4,720
494	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Other	RET	$174,744	$220,456	$269,114	$315,701	$353,651	$376,408	$379,600	$362,724	$329,316	$285,501	$237,865	$191,755	$150,558	$115,804	$87,686	$115,348	$62,830	$76,808	$90,236	$101,230
495	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	BSS	RET	$42,121	$53,140	$64,869	$76,099	$85,247	$90,732	$91,501	$87,434	$79,381	$68,819	$57,337	$46,222	$36,292	$27,914	$21,137	$27,804	$15,145	$18,514	$21,751	$24,401
496	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Education	RET	$12,937	$16,321	$19,923	$23,372	$26,182	$27,866	$28,103	$26,853	$24,380	$21,136	$17,610	$14,196	$11,146	$8,573	$6,492	$8,540	$4,651	$5,686	$6,680	$7,494
497	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Sales	RET	$1,432	$1,807	$2,205	$2,587	$2,898	$3,085	$3,111	$2,972	$2,699	$2,340	$1,949	$1,571	$1,234	$949	$719	$945	$515	$629	$739	$830
498	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Health	RET	$3,439	$4,339	$5,297	$6,214	$6,961	$7,409	$7,472	$7,139	$6,482	$5,619	$4,682	$3,774	$2,963	$2,279	$1,726	$2,270	$1,237	$1,512	$1,776	$1,992
499	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Lodging	RET	$1,544	$1,948	$2,378	$2,790	$3,125	$3,327	$3,355	$3,206	$2,910	$2,523	$2,102	$1,695	$1,331	$1,023	$775	$1,019	$555	$679	$797	$895
500	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Office	RET	$24,620	$31,060	$37,915	$44,479	$49,826	$53,032	$53,482	$51,104	$46,397	$40,224	$33,513	$27,016	$21,212	$16,316	$12,354	$16,251	$8,852	$10,822	$12,713	$14,262
501	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Service	RET	$2,609	$3,292	$4,019	$4,714	$5,281	$5,621	$5,669	$5,417	$4,918	$4,263	$3,552	$2,863	$2,248	$1,729	$1,309	$1,723	$938	$1,147	$1,347	$1,512
502	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Retail	RET	$20,846	$26,299	$32,104	$37,661	$42,188	$44,903	$45,284	$43,271	$39,285	$34,059	$28,376	$22,875	$17,961	$13,815	$10,460	$13,760	$7,495	$9,163	$10,765	$12,076
503	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Warehouse	RET	$6,583	$8,305	$10,138	$11,893	$13,322	$14,179	$14,300	$13,664	$12,405	$10,755	$8,960	$7,223	$5,672	$4,362	$3,303	$4,345	$2,367	$2,893	$3,399	$3,813
504	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Assembly	RET	$1,702	$2,148	$2,622	$3,076	$3,445	$3,667	$3,698	$3,534	$3,208	$2,781	$2,317	$1,868	$1,467	$1,128	$854	$1,124	$612	$748	$879	$986
505	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Other	RET	$36,514	$46,066	$56,233	$65,968	$73,897	$78,653	$79,319	$75,793	$68,812	$59,657	$49,703	$40,068	$31,460	$24,198	$18,323	$24,103	$13,129	$16,050	$18,855	$21,153
506	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	BSS	RET	$8,802	$11,104	$13,555	$15,901	$17,813	$18,959	$19,120	$18,270	$16,587	$14,380	$11,981	$9,658	$7,583	$5,833	$4,417	$5,810	$3,165	$3,869	$4,545	$5,099
507	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
508	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
509	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
510	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
511	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
512	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
513	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
514	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
515	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
516	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
517	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
518	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Education	ROB	$1,948	$2,527	$3,208	$3,975	$4,795	$5,629	$6,436	$7,179	$7,838	$8,404	$8,244	$8,448	$8,550	$8,569	$8,527	$8,345	$8,175	$8,026	$7,907	$7,820
519	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Sales	ROB	$301	$390	$496	$614	$741	$870	$994	$1,109	$1,211	$1,299	$1,274	$1,305	$1,321	$1,324	$1,318	$1,290	$1,263	$1,240	$1,222	$1,208
520	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Health	ROB	$607	$787	$999	$1,238	$1,494	$1,754	$2,005	$2,237	$2,442	$2,618	$2,568	$2,632	$2,664	$2,670	$2,656	$2,600	$2,547	$2,501	$2,463	$2,436
521	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Lodging	ROB	$296	$384	$487	$604	$729	$855	$978	$1,091	$1,191	$1,277	$1,253	$1,284	$1,299	$1,302	$1,296	$1,268	$1,242	$1,220	$1,201	$1,188
522	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Office	ROB	$5,547	$7,196	$9,136	$11,319	$13,656	$16,031	$18,328	$20,445	$22,322	$23,932	$23,476	$24,058	$24,348	$24,402	$24,282	$23,766	$23,280	$22,856	$22,516	$22,268
523	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Service	ROB	$234	$303	$385	$477	$575	$675	$772	$861	$940	$1,008	$989	$1,013	$1,025	$1,028	$1,023	$1,001	$980	$963	$948	$938
524	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Retail	ROB	$4,088	$5,304	$6,734	$8,343	$10,065	$11,816	$13,509	$15,070	$16,453	$17,640	$17,304	$17,732	$17,947	$17,986	$17,898	$17,517	$17,159	$16,847	$16,596	$16,414
525	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Warehouse	ROB	$2,820	$3,658	$4,645	$5,754	$6,942	$8,150	$9,317	$10,394	$11,348	$12,167	$11,935	$12,230	$12,378	$12,405	$12,344	$12,082	$11,835	$11,620	$11,447	$11,321
526	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Assembly	ROB	$1,022	$1,326	$1,683	$2,085	$2,516	$2,953	$3,376	$3,766	$4,112	$4,409	$4,325	$4,432	$4,485	$4,495	$4,473	$4,378	$4,288	$4,210	$4,148	$4,102
527	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Other	ROB	$5,696	$7,389	$9,381	$11,623	$14,022	$16,462	$18,820	$20,995	$22,921	$24,575	$24,107	$24,704	$25,002	$25,057	$24,934	$24,404	$23,905	$23,470	$23,121	$22,866
528	Compressed Air	Efficient Air Compressors (VSD)	Biz-BSS	BSS	ROB	$3,117	$3,212	$3,287	$3,348	$3,364	$3,380	$3,396	$3,413	$3,430	$3,447	$2,484	$2,471	$2,465	$2,464	$2,478	$2,491	$2,505	$2,520	$2,534	$2,549
529	Compressed Air	Efficient Air Nozzles	Biz-Standard	Education	RET	$1,592	$1,607	$1,538	$1,398	$1,213	$1,012	$817	$642	$495	$375	$281	$0	$0	$0	$0	$1,302	$1,316	$1,261	$1,148	$998
530	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Sales	RET	$246	$248	$238	$216	$187	$156	$126	$99	$76	$58	$43	$0	$0	$0	$0	$201	$203	$195	$177	$154
531	Compressed Air	Efficient Air Nozzles	Biz-Standard	Health	RET	$496	$501	$479	$436	$378	$315	$255	$200	$154	$117	$88	$0	$0	$0	$0	$406	$410	$393	$358	$311
532	Compressed Air	Efficient Air Nozzles	Biz-Standard	Lodging	RET	$248	$251	$240	$218	$189	$158	$128	$100	$77	$59	$44	$0	$0	$0	$0	$203	$205	$197	$179	$156
533	Compressed Air	Efficient Air Nozzles	Biz-Standard	Office	RET	$4,657	$4,702	$4,499	$4,089	$3,550	$2,961	$2,390	$1,879	$1,447	$1,097	$822	$0	$0	$0	$0	$3,808	$3,851	$3,689	$3,359	$2,920
534	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Service	RET	$196	$198	$189	$172	$149	$125	$101	$79	$61	$46	$35	$0	$0	$0	$0	$160	$162	$155	$141	$123
535	Compressed Air	Efficient Air Nozzles	Biz-Standard	Retail	RET	$3,432	$3,466	$3,316	$3,014	$2,616	$2,183	$1,762	$1,385	$1,067	$809	$606	$0	$0	$0	$0	$2,807	$2,838	$2,719	$2,476	$2,152
536	Compressed Air	Efficient Air Nozzles	Biz-Standard	Warehouse	RET	$2,367	$2,390	$2,287	$2,079	$1,805	$1,505	$1,215	$955	$736	$558	$418	$0	$0	$0	$0	$1,936	$1,958	$1,876	$1,707	$1,484
537	Compressed Air	Efficient Air Nozzles	Biz-Standard	Assembly	RET	$858	$866	$829	$753	$654	$545	$440	$346	$267	$202	$151	$0	$0	$0	$0	$701	$709	$680	$619	$538
538	Compressed Air	Efficient Air Nozzles	Biz-Standard	Other	RET	$4,782	$4,828	$4,619	$4,199	$3,645	$3,041	$2,454	$1,929	$1,486	$1,126	$844	$0	$0	$0	$0	$3,910	$3,954	$3,788	$3,449	$2,998
539	Compressed Air	Efficient Air Nozzles	Biz-BSS	BSS	RET	$2,590	$1,986	$1,499	$1,118	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,997	$1,533	$1,159	$865	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
540	Compressed Air	AODD Pump Controls	Biz-Custom	Education	RET	$725	$1,102	$1,241	$1,347	$1,504	$1,908	$2,342	$2,763	$3,112	$3,331	$3,960	$4,131	$3,961	$3,667	$3,375	$3,291	$3,273	$3,300	$3,329	$3,306
541	Compressed Air	AODD Pump Controls	Biz-Custom	Food Sales	RET	$112	$170	$192	$208	$232	$295	$362	$427	$481	$515	$612	$638	$612	$567	$521	$509	$506	$510	$514	$511
542	Compressed Air	AODD Pump Controls	Biz-Custom	Health	RET	$226	$343	$387	$420	$468	$594	$730	$861	$970	$1,038	$1,234	$1,287	$1,234	$1,142	$1,051	$1,025	$1,020	$1,028	$1,037	$1,030
543	Compressed Air	AODD Pump Controls	Biz-Custom	Lodging	RET	$118	$180	$203	$220	$246	$312	$383	$452	$509	$544	$647	$675	$647	$599	$551	$538	$535	$539	$544	$540
544	Compressed Air	AODD Pump Controls	Biz-Custom	Office	RET	$2,220	$3,375	$3,800	$4,126	$4,605	$5,843	$7,173	$8,462	$9,532	$10,203	$12,128	$12,651	$12,130	$11,231	$10,336	$10,080	$10,025	$10,108	$10,195	$10,124
545	Compressed Air	AODD Pump Controls	Biz-Custom	Food Service	RET	$93	$142	$160	$174	$194	$246	$302	$356	$401	$430	$511	$533	$511	$473	$435	$425	$422	$426	$429	$426
546	Compressed Air	AODD Pump Controls	Biz-Custom	Retail	RET	$1,636	$2,487	$2,801	$3,041	$3,395	$4,307	$5,287	$6,237	$7,026	$7,520	$8,939	$9,325	$8,941	$8,278	$7,618	$7,430	$7,389	$7,451	$7,515	$7,462
547	Compressed Air	AODD Pump Controls	Biz-Custom	Warehouse	RET	$1,129	$1,716	$1,932	$2,098	$2,341	$2,970	$3,647	$4,302	$4,846	$5,187	$6,165	$6,432	$6,167	$5,710	$5,254	$5,124	$5,096	$5,139	$5,183	$5,147
548	Compressed Air	AODD Pump Controls	Biz-Custom	Assembly	RET	$409	$622	$700	$760	$848	$1,076	$1,321	$1,559	$1,756	$1,879	$2,234	$2,331	$2,234	$2,069	$1,904	$1,857	$1,847	$1,862	$1,878	$1,865
549	Compressed Air	AODD Pump Controls	Biz-Custom	Other	RET	$2,280	$3,465	$3,902	$4,237	$4,729	$6,000	$7,366	$8,689	$9,788	$10,477	$12,453	$12,991	$12,456	$11,533	$10,613	$10,351	$10,294	$10,380	$10,469	$10,396
550	Compressed Air	AODD Pump Controls	Biz-Custom	BSS	RET	$485	$738	$831	$902	$1,007	$1,277	$1,568	$1,850	$2,083	$2,230	$2,651	$2,765	$2,651	$2,455	$2,259	$2,203	$2,191	$2,209	$2,228	$2,213
551	Compressed Air	No Loss Condensate Drain	Biz-Standard	Education	RET	$841	$1,062	$1,297	$1,523	$1,707	$1,818	$1,835	$1,754	$1,594	$1,383	$1,153	$930	$731	$1,227	$1,266	$1,346	$1,207	$1,355	$1,445	$1,460
552	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Sales	RET	$130	$164	$200	$235	$264	$281	$283	$271	$246	$214	$178	$144	$113	$190	$196	$208	$186	$209	$223	$226
553	Compressed Air	No Loss Condensate Drain	Biz-Standard	Health	RET	$262	$331	$404	$474	$532	$566	$572	$547	$497	$431	$359	$290	$228	$382	$394	$419	$376	$422	$450	$455
554	Compressed Air	No Loss Condensate Drain	Biz-Standard	Lodging	RET	$128	$161	$197	$231	$259	$276	$279	$267	$242	$210	$175	$141	$111	$186	$192	$205	$183	$206	$220	$222
555	Compressed Air	No Loss Condensate Drain	Biz-Standard	Office	RET	$2,395	$3,023	$3,693	$4,336	$4,861	$5,177	$5,225	$4,996	$4,539	$3,938	$3,284	$2,649	$2,081	$3,493	$3,604	$3,833	$3,437	$3,858	$4,114	$4,157
556	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Service	RET	$101	$127	$156	$183	$205	$218	$220	$210	$191	$166	$138	$112	$88	$147	$152	$161	$145	$162	$173	$175
557	Compressed Air	No Loss Condensate Drain	Biz-Standard	Retail	RET	$1,765	$2,229	$2,722	$3,196	$3,583	$3,816	$3,851	$3,683	$3,346	$2,903	$2,420	$1,953	$1,534	$2,575	$2,657	$2,825	$2,533	$2,843	$3,032	$3,064
558	Compressed Air	No Loss Condensate Drain	Biz-Standard	Warehouse	RET	$1,217	$1,537	$1,878	$2,204	$2,471	$2,632	$2,656	$2,540	$2,308	$2,002	$1,669	$1,347	$1,058	$1,776	$1,832	$1,949	$1,747	$1,961	$2,091	$2,113
559	Compressed Air	No Loss Condensate Drain	Biz-Standard	Assembly	RET	$441	$557	$680	$799	$895	$954	$962	$920	$836	$725	$605	$488	$383	$643	$664	$706	$633	$711	$758	$766
560	Compressed Air	No Loss Condensate Drain	Biz-Standard	Other	RET	$2,459	$3,105	$3,793	$4,452	$4,991	$5,316	$5,365	$5,130	$4,661	$4,044	$3,372	$2,720	$2,137	$3,587	$3,701	$3,936	$3,529	$3,961	$4,225	$4,269
561	Compressed Air	No Loss Condensate Drain	Biz-BSS	BSS	RET	$1,260	$1,533	$1,793	$2,003	$2,125	$2,136	$2,035	$1,842	$1,592	$1,322	$1,062	$832	$638	$1,429	$1,513	$1,352	$1,511	$1,605	$1,615	$1,541
562	Compressed Air	Compressed Air - Custom	Biz-Custom	Education	RET	$11,667	$13,678	$15,314	$16,290	$16,419	$15,680	$14,227	$12,327	$10,265	$8,270	$15,337	$15,372	$15,411	$15,213	$12,499	$11,948	$10,852	$9,412	$7,844	$6,326
563	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Sales	RET	$1,803	$2,114	$2,366	$2,517	$2,537	$2,423	$2,198	$1,905	$1,586	$1,278	$2,370	$2,375	$2,381	$2,351	$1,931	$1,846	$1,677	$1,454	$1,212	$978
564	Compressed Air	Compressed Air - Custom	Biz-Custom	Health	RET	$3,635	$4,262	$4,771	$5,075	$5,115	$4,885	$4,433	$3,841	$3,198	$2,577	$4,778	$4,789	$4,801	$4,740	$3,894	$3,722	$3,381	$2,932	$2,444	$1,971
565	Compressed Air	Compressed Air - Custom	Biz-Custom	Lodging	RET	$1,773	$2,078	$2,327	$2,475	$2,495	$2,383	$2,162	$1,873	$1,560	$1,257	$2,330	$2,336	$2,342	$2,312	$1,899	$1,816	$1,649	$1,430	$1,192	$961
566	Compressed Air	Compressed Air - Custom	Biz-Custom	Office	RET	$33,224	$38,953	$43,611	$46,390	$46,757	$44,653	$40,517	$35,106	$29,231	$23,551	$43,677	$43,776	$43,888	$43,323	$35,595	$34,026	$30,904	$26,803	$22,339	$18,016
567	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Service	RET	$1,399	$1,641	$1,837	$1,954	$1,969	$1,881	$1,706	$1,478	$1,231	$992	$1,839	$1,844	$1,848	$1,825	$1,499	$1,433	$1,302	$1,129	$941	$759
568	Compressed Air	Compressed Air - Custom	Biz-Custom	Retail	RET	$24,489	$28,712	$32,145	$34,194	$34,464	$32,913	$29,864	$25,876	$21,546	$17,359	$32,194	$32,267	$32,349	$31,933	$26,237	$25,080	$22,779	$19,756	$16,466	$13,279
569	Compressed Air	Compressed Air - Custom	Biz-Custom	Warehouse	RET	$16,890	$19,803	$22,171	$23,584	$23,770	$22,700	$20,598	$17,847	$14,860	$11,973	$22,205	$22,255	$22,311	$22,024	$18,096	$17,298	$15,711	$13,626	$11,357	$9,159
570	Compressed Air	Compressed Air - Custom	Biz-Custom	Assembly	RET	$6,120	$7,176	$8,034	$8,546	$8,613	$8,226	$7,464	$6,467	$5,385	$4,338	$8,046	$8,064	$8,085	$7,981	$6,557	$6,268	$5,693	$4,937	$4,115	$3,319
571	Compressed Air	Compressed Air - Custom	Biz-Custom	Other	RET	$34,116	$39,999	$44,782	$47,636	$48,013	$45,852	$41,605	$36,048	$30,016	$24,184	$44,850	$44,952	$45,066	$44,487	$36,552	$34,940	$31,734	$27,523	$22,939	$18,500
572	Compressed Air	Compressed Air - Custom	Biz-Custom	BSS	RET	$7,262	$8,514	$9,532	$10,140	$10,220	$9,760	$8,856	$7,673	$6,389	$5,148	$9,547	$9,568	$9,593	$9,469	$7,780	$7,437	$6,755	$5,858	$4,883	$3,938
573	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Education	RET	$6	$7	$9	$11	$13	$19	$20	$22	$23	$23	$25	$25	$24	$23	$21	$22	$21	$17	$17	$16
574	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Sales	RET	$1	$1	$1	$2	$2	$3	$3	$3	$4	$4	$4	$4	$4	$4	$3	$3	$3	$3	$3	$2
575	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Health	RET	$2	$2	$3	$3	$4	$6	$6	$7	$7	$7	$8	$8	$7	$7	$7	$7	$6	$5	$5	$5
576	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Lodging	RET	$1	$1	$1	$2	$2	$3	$3	$4	$4	$4	$4	$4	$4	$4	$3	$4	$3	$3	$3	$3
577	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Office	RET	$19	$22	$27	$33	$39	$58	$62	$67	$69	$69	$77	$75	$72	$69	$65	$67	$63	$53	$50	$47
578	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Service	RET	$1	$1	$1	$1	$2	$2	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3	$2	$2	$2
579	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Retail	RET	$14	$16	$20	$25	$29	$43	$46	$49	$51	$51	$57	$55	$53	$51	$48	$50	$46	$39	$37	$35
580	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Warehouse	RET	$10	$11	$14	$17	$20	$29	$32	$34	$35	$35	$39	$38	$37	$35	$33	$34	$32	$27	$26	$24
581	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Assembly	RET	$4	$4	$5	$6	$7	$11	$11	$12	$13	$13	$14	$14	$13	$13	$12	$12	$12	$10	$9	$9
582	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Other	RET	$20	$22	$28	$34	$40	$59	$64	$68	$71	$71	$79	$77	$74	$71	$66	$69	$64	$54	$52	$49
583	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	BSS	RET	$4	$5	$6	$7	$9	$13	$14	$15	$15	$15	$17	$16	$16	$15	$14	$15	$14	$12	$11	$10
584	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Education	RET	$11,561	$11,171	$18,675	$17,126	$21,173	$18,644	$20,317	$17,385	$17,710	$14,864	$12,897	$10,825	$9,393	$7,883	$6,840	$5,741	$4,981	$4,181	$3,628	$3,045
585	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Sales	RET	$1,786	$1,726	$2,886	$2,646	$3,272	$2,881	$3,139	$2,686	$2,737	$2,297	$1,993	$1,673	$1,451	$1,218	$1,057	$887	$770	$646	$561	$470
586	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Health	RET	$3,602	$3,480	$5,818	$5,336	$6,596	$5,808	$6,330	$5,416	$5,518	$4,631	$4,018	$3,372	$2,926	$2,456	$2,131	$1,789	$1,552	$1,303	$1,130	$949
587	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Lodging	RET	$1,757	$1,697	$2,838	$2,602	$3,217	$2,833	$3,087	$2,642	$2,691	$2,259	$1,960	$1,645	$1,427	$1,198	$1,039	$872	$757	$635	$551	$463
588	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Office	RET	$32,922	$31,814	$53,183	$48,771	$60,296	$53,093	$57,859	$49,509	$50,434	$42,330	$36,729	$30,827	$26,748	$22,450	$19,479	$16,349	$14,186	$11,906	$10,331	$8,671
589	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Service	RET	$1,387	$1,340	$2,240	$2,054	$2,539	$2,236	$2,437	$2,085	$2,124	$1,783	$1,547	$1,298	$1,126	$945	$820	$689	$597	$501	$435	$365
590	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Retail	RET	$24,266	$23,449	$39,200	$35,948	$44,443	$39,134	$42,647	$36,492	$37,174	$31,201	$27,072	$22,722	$19,715	$16,547	$14,358	$12,051	$10,456	$8,776	$7,615	$6,391
591	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Warehouse	RET	$16,737	$16,173	$27,037	$24,794	$30,653	$26,991	$29,414	$25,169	$25,640	$21,520	$18,672	$15,672	$13,598	$11,413	$9,903	$8,312	$7,212	$6,053	$5,252	$4,408
592	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Assembly	RET	$6,065	$5,861	$9,797	$8,984	$11,107	$9,780	$10,658	$9,120	$9,291	$7,798	$6,766	$5,679	$4,927	$4,136	$3,588	$3,012	$2,613	$2,193	$1,903	$1,597
593	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Other	RET	$33,806	$32,668	$54,611	$50,081	$61,916	$54,519	$59,413	$50,838	$51,789	$43,467	$37,715	$31,655	$27,466	$23,053	$20,002	$16,788	$14,567	$12,226	$10,608	$8,904
594	Compressed Air	Compressed Air Leak Repair	Biz-Custom	BSS	RET	$7,196	$6,954	$11,624	$10,660	$13,179	$11,604	$12,646	$10,821	$11,023	$9,252	$8,028	$6,738	$5,846	$4,907	$4,258	$3,573	$3,101	$2,602	$2,258	$1,895
595	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
596	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
597	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
598	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
599	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
600	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
601	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
602	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
603	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
604	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
605	Cooling	Air Conditioner - (<65kBTUh)	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
606	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
607	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
608	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
609	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
610	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
611	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
612	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
613	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
614	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
615	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
616	Cooling	Air Conditioner - (65-135kBTUh)	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
617	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
618	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
619	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
620	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
621	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
622	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
623	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
624	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
625	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
626	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
627	Cooling	Air Conditioner - (135-240kBTUh)	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
628	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
629	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
630	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
631	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
632	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
633	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
634	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
635	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
636	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
637	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
638	Cooling	Air Conditioner - (240-760kBTUh)	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
639	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Education	ROB	$288	$378	$488	$615	$757	$908	$1,058	$1,202	$1,332	$1,444	$1,538	$1,614	$1,673	$1,720	$1,756	$1,695	$1,671	$1,641	$1,605	$1,565
640	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Sales	ROB	$29	$38	$49	$62	$76	$91	$106	$120	$133	$144	$154	$161	$167	$172	$176	$169	$167	$164	$160	$156
641	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Health	ROB	$185	$242	$312	$394	$485	$582	$678	$770	$854	$926	$986	$1,034	$1,072	$1,102	$1,125	$1,086	$1,071	$1,051	$1,029	$1,003
642	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Lodging	ROB	$60	$77	$98	$120	$144	$168	$191	$211	$229	$244	$256	$266	$273	$279	$283	$265	$260	$255	$248	$242
643	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Office	ROB	$564	$727	$917	$1,129	$1,353	$1,578	$1,792	$1,986	$2,153	$2,293	$2,405	$2,494	$2,564	$2,617	$2,658	$2,490	$2,445	$2,392	$2,332	$2,268
644	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Service	ROB	$95	$123	$155	$191	$229	$267	$303	$336	$364	$387	$407	$422	$433	$442	$449	$421	$413	$404	$394	$383
645	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Retail	ROB	$76	$97	$123	$151	$181	$212	$240	$266	$289	$307	$323	$334	$344	$351	$356	$334	$328	$321	$313	$304
646	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Warehouse	ROB	$298	$384	$484	$596	$715	$833	$946	$1,049	$1,137	$1,211	$1,270	$1,317	$1,354	$1,382	$1,404	$1,315	$1,291	$1,263	$1,232	$1,198
647	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Assembly	ROB	$206	$266	$335	$413	$494	$577	$655	$726	$787	$838	$879	$912	$937	$956	$972	$910	$894	$874	$852	$829
648	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Other	ROB	$705	$909	$1,146	$1,411	$1,691	$1,972	$2,239	$2,481	$2,691	$2,865	$3,006	$3,117	$3,204	$3,271	$3,322	$3,112	$3,056	$2,989	$2,914	$2,835
649	Cooling	Air Conditioner - (760kBTUh+)	Biz-BSS	BSS	ROB	$265	$265	$265	$266	$266	$266	$266	$266	$267	$267	$267	$267	$268	$268	$268	$188	$188	$188	$188	$188
650	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
651	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
652	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
653	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
654	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
655	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
656	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
657	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
658	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
659	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
660	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
661	Cooling	Air Cooled Chiller	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
662	Cooling	Air Cooled Chiller	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
663	Cooling	Air Cooled Chiller	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
664	Cooling	Air Cooled Chiller	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
665	Cooling	Air Cooled Chiller	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
666	Cooling	Air Cooled Chiller	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
667	Cooling	Air Cooled Chiller	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
668	Cooling	Air Cooled Chiller	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
669	Cooling	Air Cooled Chiller	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
670	Cooling	Air Cooled Chiller	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
671	Cooling	Air Cooled Chiller	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
672	Cooling	Water Cooled Chiller	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
673	Cooling	Water Cooled Chiller	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
674	Cooling	Water Cooled Chiller	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
675	Cooling	Water Cooled Chiller	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
676	Cooling	Water Cooled Chiller	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
677	Cooling	Water Cooled Chiller	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
678	Cooling	Water Cooled Chiller	Biz-Standard	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
679	Cooling	Water Cooled Chiller	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
680	Cooling	Water Cooled Chiller	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
681	Cooling	Water Cooled Chiller	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
682	Cooling	Water Cooled Chiller	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
683	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Education	RET	$39,403	$32,847	$26,495	$49,194	$39,684	$31,231	$44,550	$28,616	$22,527	$32,144	$20,653	$16,263	$23,212	$14,919	$11,751	$16,778	$10,786	$8,498	$12,137	$7,805
684	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Sales	RET	$3,313	$2,767	$2,236	$4,158	$3,360	$2,649	$3,786	$2,436	$1,921	$2,746	$1,767	$1,394	$1,993	$1,283	$1,013	$1,448	$933	$736	$1,053	$678
685	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Health	RET	$17,522	$14,667	$11,879	$22,147	$17,939	$14,175	$20,302	$13,093	$10,349	$14,826	$9,564	$7,561	$10,834	$6,991	$5,528	$7,923	$5,113	$4,044	$5,798	$3,743
686	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Lodging	RET	$5,899	$4,929	$3,986	$7,418	$5,998	$4,732	$6,766	$4,356	$3,437	$4,916	$3,166	$2,499	$3,575	$2,303	$1,818	$2,602	$1,677	$1,324	$1,896	$1,222
687	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Office	RET	$56,169	$46,929	$37,939	$70,600	$57,079	$45,020	$64,364	$41,434	$32,690	$46,748	$30,103	$23,756	$33,982	$21,888	$17,278	$24,722	$15,928	$12,576	$18,000	$11,600
688	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Service	RET	$9,727	$8,125	$6,567	$12,216	$9,874	$7,786	$11,128	$7,162	$5,649	$8,076	$5,199	$4,102	$5,866	$3,777	$2,981	$4,264	$2,746	$2,168	$3,102	$1,999
689	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Retail	RET	$9,309	$7,761	$6,260	$11,623	$9,377	$7,379	$10,527	$6,762	$5,323	$7,596	$4,881	$3,843	$5,486	$3,526	$2,777	$3,965	$2,549	$2,009	$2,869	$1,845
690	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Warehouse	RET	$61,709	$51,248	$41,180	$76,169	$61,208	$47,985	$68,185	$43,627	$34,210	$48,624	$31,119	$24,408	$34,701	$22,214	$17,428	$24,785	$15,870	$12,454	$17,716	$11,347
691	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Assembly	RET	$24,496	$20,428	$16,484	$30,617	$24,707	$19,451	$27,757	$17,836	$14,045	$20,049	$12,886	$10,151	$14,494	$9,319	$7,343	$10,487	$6,745	$5,316	$7,595	$4,886
692	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Other	RET	$73,277	$61,193	$49,446	$91,969	$74,320	$58,590	$83,725	$53,872	$42,482	$60,724	$39,083	$30,829	$44,079	$28,378	$22,391	$32,023	$20,622	$16,276	$23,284	$14,998
693	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	BSS	RET	$12,282	$10,253	$8,283	$15,401	$12,442	$9,806	$14,009	$9,011	$7,104	$10,152	$6,532	$5,151	$7,363	$4,739	$3,738	$5,345	$3,441	$2,715	$3,883	$2,501

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
694	Cooling	Chiller Tune-up	Biz-Custom	Education	RET	$29,313	$24,411	$19,669	$15,436	$11,867	$30,395	$24,559	$14,383	$11,293	$8,686	$22,258	$17,993	$10,543	$8,282	$6,373	$16,340	$13,215	$7,747	$6,088	$4,688
695	Cooling	Chiller Tune-up	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
696	Cooling	Chiller Tune-up	Biz-Custom	Health	RET	$17,559	$14,622	$11,782	$9,246	$7,108	$18,207	$14,711	$8,615	$6,764	$5,203	$13,333	$10,778	$6,315	$4,961	$3,818	$9,788	$7,916	$4,640	$3,647	$2,808
697	Cooling	Chiller Tune-up	Biz-Custom	Lodging	RET	$12,136	$10,107	$8,143	$6,391	$4,913	$12,584	$10,168	$5,955	$4,675	$3,596	$9,216	$7,450	$4,365	$3,429	$2,639	$6,765	$5,471	$3,207	$2,521	$1,941
698	Cooling	Chiller Tune-up	Biz-Custom	Office	RET	$35,881	$29,880	$24,076	$18,894	$14,526	$37,206	$30,061	$17,605	$13,823	$10,632	$27,246	$22,024	$12,905	$10,137	$7,801	$20,001	$16,176	$9,482	$7,452	$5,738
699	Cooling	Chiller Tune-up	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
700	Cooling	Chiller Tune-up	Biz-Custom	Retail	RET	$7,076	$5,892	$4,748	$3,726	$2,864	$7,337	$5,928	$3,472	$2,726	$2,097	$5,373	$4,343	$2,545	$1,999	$1,538	$3,944	$3,190	$1,870	$1,470	$1,132
701	Cooling	Chiller Tune-up	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
702	Cooling	Chiller Tune-up	Biz-Custom	Assembly	RET	$19,284	$16,059	$12,940	$10,155	$7,807	$19,996	$16,157	$9,462	$7,429	$5,714	$14,643	$11,837	$6,936	$5,448	$4,193	$10,750	$8,694	$5,096	$4,005	$3,084
703	Cooling	Chiller Tune-up	Biz-Custom	Other	RET	$52,761	$43,936	$35,402	$27,783	$21,359	$54,709	$44,204	$25,888	$20,326	$15,634	$40,064	$32,386	$18,976	$14,906	$11,471	$29,410	$23,786	$13,944	$10,959	$8,437
704	Cooling	Chiller Tune-up	Biz-Custom	BSS	RET	$9,771	$8,137	$6,556	$5,145	$3,956	$10,132	$8,186	$4,794	$3,764	$2,895	$7,420	$5,998	$3,514	$2,761	$2,124	$5,447	$4,405	$2,582	$2,030	$1,563
705	Cooling	Advanced Rooftop Controls	Biz-Standard	Education	RET	$61,404	$68,967	$73,598	$74,419	$71,298	$64,902	$56,416	$47,127	$38,092	$29,987	$23,126	$17,557	$13,173	$0	$0	$51,120	$57,498	$61,447	$62,220	$59,695
706	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Sales	RET	$6,140	$6,896	$7,359	$7,441	$7,129	$6,490	$5,641	$4,712	$3,809	$2,998	$2,312	$1,755	$1,317	$0	$0	$5,111	$5,749	$6,144	$6,221	$5,969
707	Cooling	Advanced Rooftop Controls	Biz-Standard	Health	RET	$39,352	$44,198	$47,167	$47,692	$45,693	$41,594	$36,155	$30,202	$24,412	$19,217	$14,820	$11,251	$8,442	$0	$0	$32,761	$36,849	$39,379	$39,875	$38,256
708	Cooling	Advanced Rooftop Controls	Biz-Standard	Lodging	RET	$11,555	$12,978	$13,850	$14,004	$13,417	$12,213	$10,616	$8,868	$7,168	$5,643	$4,352	$3,304	$2,479	$0	$0	$9,620	$10,820	$11,563	$11,709	$11,234
709	Cooling	Advanced Rooftop Controls	Biz-Standard	Office	RET	$108,516	$121,881	$130,066	$131,515	$126,001	$114,698	$99,700	$83,284	$67,317	$52,994	$40,869	$31,027	$23,279	$0	$0	$90,342	$101,614	$108,592	$109,957	$105,495
710	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Service	RET	$18,339	$20,598	$21,981	$22,226	$21,294	$19,384	$16,849	$14,075	$11,377	$8,956	$6,907	$5,244	$3,934	$0	$0	$15,268	$17,173	$18,352	$18,583	$17,829
711	Cooling	Advanced Rooftop Controls	Biz-Standard	Retail	RET	$14,551	$16,343	$17,441	$17,635	$16,896	$15,380	$13,369	$11,168	$9,027	$7,106	$5,480	$4,160	$3,122	$0	$0	$12,114	$13,626	$14,561	$14,744	$14,146
712	Cooling	Advanced Rooftop Controls	Biz-Standard	Warehouse	RET	$57,312	$64,371	$68,694	$69,460	$66,547	$60,578	$52,657	$43,987	$35,553	$27,989	$21,585	$16,387	$12,295	$0	$0	$47,714	$53,667	$57,353	$58,074	$55,717
713	Cooling	Advanced Rooftop Controls	Biz-Standard	Assembly	RET	$39,656	$44,540	$47,532	$48,061	$46,046	$41,916	$36,435	$30,436	$24,601	$19,366	$14,935	$11,339	$8,507	$0	$0	$33,015	$37,134	$39,684	$40,183	$38,552
714	Cooling	Advanced Rooftop Controls	Biz-Standard	Other	RET	$135,612	$152,314	$162,543	$164,355	$157,463	$143,338	$124,595	$104,080	$84,126	$66,226	$51,073	$38,774	$29,092	$0	$0	$112,900	$126,986	$135,707	$137,413	$131,837
715	Cooling	Advanced Rooftop Controls	Biz-BSS	BSS	RET	$260,526	$247,229	$222,898	$191,886	$158,737	$127,051	$99,035	$75,621	$56,839	$42,219	$0	$0	$0	$0	$0	$187,512	$178,031	$160,592	$138,321	$114,486
716	Cooling	HVAC Occupancy Controls	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
717	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
718	Cooling	HVAC Occupancy Controls	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
719	Cooling	HVAC Occupancy Controls	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
720	Cooling	HVAC Occupancy Controls	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
721	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
722	Cooling	HVAC Occupancy Controls	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
723	Cooling	HVAC Occupancy Controls	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
724	Cooling	HVAC Occupancy Controls	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
725	Cooling	HVAC Occupancy Controls	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
726	Cooling	HVAC Occupancy Controls	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
727	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
728	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
729	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
730	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
731	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
732	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
733	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
734	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
735	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
736	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
737	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
738	Cooling	Smart Thermostat	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
739	Cooling	Smart Thermostat	Biz-Custom	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
740	Cooling	Smart Thermostat	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
741	Cooling	Smart Thermostat	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
742	Cooling	Smart Thermostat	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
743	Cooling	Smart Thermostat	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
744	Cooling	Smart Thermostat	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
745	Cooling	Smart Thermostat	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
746	Cooling	Smart Thermostat	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
747	Cooling	Smart Thermostat	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
748	Cooling	Smart Thermostat	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
749	Cooling	Secondary Windows	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
750	Cooling	Secondary Windows	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
751	Cooling	Secondary Windows	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
752	Cooling	Secondary Windows	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
753	Cooling	Secondary Windows	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
754	Cooling	Secondary Windows	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
755	Cooling	Secondary Windows	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
756	Cooling	Secondary Windows	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
757	Cooling	Secondary Windows	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
758	Cooling	Secondary Windows	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
759	Cooling	Secondary Windows	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
760	Cooling	Triple Pane Windows	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
761	Cooling	Triple Pane Windows	Biz-Custom	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
762	Cooling	Triple Pane Windows	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
763	Cooling	Triple Pane Windows	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
764	Cooling	Triple Pane Windows	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
765	Cooling	Triple Pane Windows	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
766	Cooling	Triple Pane Windows	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
767	Cooling	Triple Pane Windows	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
768	Cooling	Triple Pane Windows	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
769	Cooling	Triple Pane Windows	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
770	Cooling	Triple Pane Windows	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
771	Cooling	Energy Recovery Ventilator	Biz-Custom	Education	RET	$11,087	$12,503	$13,597	$15,199	$19,312	$23,742	$28,049	$31,643	$33,916	$34,443	$33,141	$30,298	$26,448	$22,187	$18,009	$24,006	$22,053	$20,411	$19,765	$17,087
772	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Sales	RET	$698	$787	$857	$958	$1,218	$1,499	$1,772	$2,000	$2,145	$2,179	$2,098	$1,919	$1,676	$1,407	$1,142	$1,524	$1,401	$1,297	$1,257	$1,087
773	Cooling	Energy Recovery Ventilator	Biz-Custom	Health	RET	$19,824	$22,429	$24,471	$27,439	$34,972	$43,125	$51,103	$57,822	$62,158	$63,307	$61,089	$56,005	$49,025	$41,239	$33,563	$44,859	$41,318	$38,339	$37,222	$32,258
774	Cooling	Energy Recovery Ventilator	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
775	Cooling	Energy Recovery Ventilator	Biz-Custom	Office	RET	$63,345	$71,710	$78,282	$87,826	$112,000	$138,189	$163,842	$185,481	$199,493	$203,284	$196,259	$180,015	$157,656	$132,680	$108,034	$144,461	$133,119	$123,577	$120,027	$104,064
776	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
777	Cooling	Energy Recovery Ventilator	Biz-Custom	Retail	RET	$5,464	$6,179	$6,740	$7,554	$9,625	$11,866	$14,056	$15,900	$17,086	$17,397	$16,783	$15,381	$13,461	$11,320	$9,210	$12,307	$11,332	$10,512	$10,203	$8,840
778	Cooling	Energy Recovery Ventilator	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
779	Cooling	Energy Recovery Ventilator	Biz-Custom	Assembly	RET	$4,231	$4,760	$5,165	$5,760	$7,303	$8,958	$10,560	$11,887	$12,713	$12,883	$12,370	$11,284	$9,830	$8,229	$6,666	$8,867	$8,130	$7,509	$7,257	$6,262
780	Cooling	Energy Recovery Ventilator	Biz-Custom	Other	RET	$58,473	$66,161	$72,189	$80,951	$103,185	$127,253	$150,806	$170,647	$183,457	$186,863	$180,329	$165,334	$144,739	$121,760	$99,103	$132,467	$122,020	$113,230	$109,936	$95,281
781	Cooling	Energy Recovery Ventilator	Biz-Custom	BSS	RET	$10,146	$11,481	$12,527	$14,048	$17,906	$22,083	$26,171	$29,614	$31,838	$32,429	$31,295	$28,693	$25,119	$21,132	$17,200	$22,990	$21,177	$19,652	$19,081	$16,537
782	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
783	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Sales	ROB	$445	$562	$693	$831	$971	$1,104	$1,225	$1,330	$1,418	$1,490	$1,548	$1,593	$1,629	$1,657	$1,663	$1,529	$1,498	$1,463	$1,425	$1,387
784	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
785	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
786	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Office	ROB	$1,606	$2,029	$2,501	$3,001	$3,505	$3,985	$4,422	$4,802	$5,120	$5,380	$5,587	$5,751	$5,880	$5,981	$6,002	$5,518	$5,407	$5,280	$5,144	$5,008
787	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Service	ROB	$2,252	$2,844	$3,505	$4,207	$4,913	$5,586	$6,199	$6,731	$7,177	$7,541	$7,832	$8,062	$8,242	$8,385	$8,414	$7,736	$7,579	$7,401	$7,211	$7,020
788	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Retail	ROB	$8,706	$10,997	$13,553	$16,266	$18,995	$21,601	$23,968	$26,026	$27,752	$29,159	$30,283	$31,171	$31,869	$32,420	$32,534	$29,911	$29,306	$28,619	$27,883	$27,143
789	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Warehouse	ROB	$1,098	$1,386	$1,709	$2,051	$2,395	$2,723	$3,022	$3,281	$3,499	$3,676	$3,818	$3,930	$4,018	$4,087	$4,102	$3,771	$3,695	$3,608	$3,515	$3,422
790	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Assembly	ROB	$3,417	$4,316	$5,320	$6,384	$7,456	$8,478	$9,407	$10,215	$10,893	$11,445	$11,886	$12,235	$12,509	$12,725	$12,770	$11,740	$11,503	$11,233	$10,944	$10,654
791	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
792	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-BSS	BSS	ROB	$365	$426	$483	$535	$580	$618	$648	$672	$690	$704	$715	$716	$717	$719	$720	$609	$592	$575	$561	$548
793	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Education	ROB	$8,940	$11,285	$13,899	$16,670	$19,454	$22,107	$24,512	$26,599	$28,343	$29,758	$30,883	$31,765	$32,452	$32,988	$33,078	$30,387	$29,749	$29,028	$28,259	$27,486
794	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Sales	ROB	$319	$403	$496	$595	$695	$790	$876	$950	$1,012	$1,063	$1,103	$1,135	$1,159	$1,178	$1,182	$1,085	$1,063	$1,037	$1,009	$982
795	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Health	ROB	$266	$336	$413	$496	$579	$658	$729	$791	$843	$885	$919	$945	$965	$981	$984	$904	$885	$863	$841	$818
796	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Lodging	ROB	$586	$740	$911	$1,093	$1,276	$1,450	$1,607	$1,744	$1,858	$1,951	$2,025	$2,083	$2,128	$2,163	$2,169	$1,993	$1,951	$1,903	$1,853	$1,802
797	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Office	ROB	$6,743	$8,512	$10,484	$12,574	$14,674	$16,676	$18,490	$20,064	$21,379	$22,447	$23,295	$23,961	$24,479	$24,883	$24,951	$22,921	$22,440	$21,896	$21,316	$20,733
798	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Service	ROB	$2,424	$3,059	$3,768	$4,520	$5,274	$5,994	$6,646	$7,212	$7,684	$8,068	$8,373	$8,612	$8,798	$8,944	$8,968	$8,239	$8,066	$7,870	$7,662	$7,452
799	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Retail	ROB	$8,434	$10,647	$13,114	$15,728	$18,355	$20,858	$23,127	$25,096	$26,741	$28,077	$29,138	$29,970	$30,618	$31,124	$31,209	$28,670	$28,068	$27,388	$26,662	$25,933
800	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Warehouse	ROB	$760	$959	$1,181	$1,416	$1,653	$1,878	$2,083	$2,260	$2,408	$2,528	$2,624	$2,699	$2,757	$2,803	$2,811	$2,582	$2,528	$2,466	$2,401	$2,335
801	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Assembly	ROB	$3,311	$4,179	$5,147	$6,173	$7,204	$8,187	$9,077	$9,850	$10,496	$11,020	$11,437	$11,763	$12,018	$12,216	$12,250	$11,253	$11,017	$10,750	$10,465	$10,179
802	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Other	ROB	$387	$489	$602	$722	$843	$958	$1,062	$1,153	$1,228	$1,290	$1,338	$1,377	$1,406	$1,430	$1,433	$1,317	$1,289	$1,258	$1,225	$1,191
803	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-BSS	BSS	ROB	$260	$260	$260	$261	$261	$261	$261	$262	$262	$262	$263	$263	$263	$264	$264	$185	$185	$186	$186	$186
804	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Education	ROB	$11,816	$14,912	$18,361	$22,016	$25,686	$29,181	$32,346	$35,090	$37,379	$39,234	$40,705	$41,855	$42,747	$43,439	$43,544	$39,989	$39,136	$38,175	$37,151	$36,123
805	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	$422	$533	$656	$786	$917	$1,042	$1,155	$1,253	$1,335	$1,401	$1,454	$1,495	$1,527	$1,552	$1,555	$1,428	$1,398	$1,364	$1,327	$1,290
806	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Health	ROB	$351	$444	$546	$655	$764	$868	$962	$1,044	$1,112	$1,167	$1,211	$1,245	$1,271	$1,292	$1,295	$1,189	$1,164	$1,135	$1,105	$1,074
807	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Lodging	ROB	$775	$978	$1,204	$1,444	$1,684	$1,913	$2,121	$2,301	$2,451	$2,573	$2,669	$2,744	$2,803	$2,848	$2,855	$2,622	$2,566	$2,503	$2,436	$2,369
808	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Office	ROB	$8,913	$11,248	$13,850	$16,607	$19,375	$22,011	$24,399	$26,468	$28,195	$29,595	$30,704	$31,571	$32,244	$32,766	$32,846	$30,164	$29,521	$28,796	$28,023	$27,248
809	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Service	ROB	$3,204	$4,043	$4,978	$5,969	$6,964	$7,912	$8,770	$9,514	$10,134	$10,637	$11,036	$11,348	$11,590	$11,777	$11,806	$10,842	$10,611	$10,350	$10,072	$9,794
810	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Retail	ROB	$11,148	$14,069	$17,324	$20,772	$24,234	$27,532	$30,519	$33,107	$35,267	$37,017	$38,405	$39,489	$40,331	$40,984	$41,084	$37,729	$36,925	$36,018	$35,051	$34,081
811	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	$1,004	$1,267	$1,560	$1,871	$2,182	$2,479	$2,748	$2,981	$3,176	$3,334	$3,459	$3,556	$3,632	$3,691	$3,700	$3,398	$3,325	$3,244	$3,157	$3,069
812	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Assembly	ROB	$4,376	$5,522	$6,800	$8,153	$9,512	$10,806	$11,979	$12,994	$13,842	$14,529	$15,074	$15,500	$15,830	$16,086	$16,125	$14,809	$14,493	$14,137	$13,758	$13,377
813	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Other	ROB	$512	$646	$796	$954	$1,113	$1,265	$1,402	$1,521	$1,620	$1,700	$1,764	$1,814	$1,852	$1,882	$1,887	$1,733	$1,696	$1,654	$1,610	$1,565
814	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-BSS	BSS	ROB	$345	$346	$346	$346	$347	$347	$347	$348	$348	$348	$349	$349	$350	$350	$350	$245	$246	$246	$246	$247
815	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Education	ROB	$16,209	$20,468	$25,219	$30,256	$35,321	$40,152	$44,537	$48,345	$51,533	$54,127	$56,194	$57,821	$59,094	$60,093	$60,283	$55,401	$54,259	$52,966	$51,584	$50,195
816	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	$579	$731	$901	$1,081	$1,262	$1,434	$1,591	$1,727	$1,841	$1,933	$2,007	$2,065	$2,111	$2,146	$2,153	$1,979	$1,938	$1,892	$1,843	$1,793
817	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Health	ROB	$482	$609	$750	$900	$1,051	$1,194	$1,325	$1,438	$1,533	$1,610	$1,671	$1,720	$1,758	$1,787	$1,793	$1,648	$1,614	$1,575	$1,534	$1,493
818	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Lodging	ROB	$1,063	$1,342	$1,654	$1,984	$2,316	$2,633	$2,920	$3,170	$3,379	$3,549	$3,685	$3,791	$3,875	$3,940	$3,953	$3,633	$3,558	$3,473	$3,382	$3,291
819	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Office	ROB	$12,227	$15,439	$19,023	$22,823	$26,643	$30,287	$33,595	$36,467	$38,872	$40,829	$42,388	$43,615	$44,575	$45,329	$45,472	$41,789	$40,928	$39,953	$38,910	$37,863
820	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Service	ROB	$4,395	$5,549	$6,837	$8,203	$9,576	$10,886	$12,075	$13,107	$13,972	$14,675	$15,235	$15,676	$16,022	$16,293	$16,344	$15,020	$14,711	$14,360	$13,986	$13,609
821	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Retail	ROB	$15,293	$19,311	$23,794	$28,546	$33,326	$37,884	$42,020	$45,613	$48,622	$51,069	$53,019	$54,554	$55,755	$56,698	$56,876	$52,270	$51,193	$49,973	$48,669	$47,359
822	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	$1,377	$1,739	$2,143	$2,571	$3,001	$3,412	$3,784	$4,108	$4,379	$4,599	$4,775	$4,913	$5,021	$5,106	$5,122	$4,707	$4,610	$4,500	$4,383	$4,265
823	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Assembly	ROB	$6,003	$7,580	$9,339	$11,205	$13,080	$14,869	$16,493	$17,903	$19,084	$20,044	$20,810	$21,412	$21,884	$22,254	$22,324	$20,516	$20,093	$19,614	$19,103	$18,588
824	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Other	ROB	$702	$887	$1,093	$1,311	$1,531	$1,740	$1,930	$2,095	$2,233	$2,346	$2,435	$2,506	$2,561	$2,604	$2,612	$2,401	$2,351	$2,295	$2,235	$2,175
825	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-BSS	BSS	ROB	$466	$466	$467	$468	$468	$469	$469	$470	$471	$471	$472	$473	$473	$474	$475	$333	$333	$334	$335	$335
826	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Education	ROB	$2,043	$2,586	$3,193	$3,840	$4,494	$5,122	$5,695	$6,198	$6,624	$6,975	$7,261	$7,491	$7,676	$7,827	$7,873	$7,256	$7,126	$6,976	$6,814	$6,649
827	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
828	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
829	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Lodging	ROB	$1,525	$1,930	$2,383	$2,866	$3,354	$3,823	$4,251	$4,626	$4,943	$5,206	$5,419	$5,590	$5,729	$5,842	$5,876	$5,415	$5,319	$5,207	$5,085	$4,963
830	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Office	ROB	$1,617	$2,047	$2,528	$3,040	$3,558	$4,055	$4,509	$4,907	$5,244	$5,522	$5,748	$5,930	$6,077	$6,196	$6,233	$5,744	$5,641	$5,523	$5,394	$5,264
831	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Service	ROB	$649	$822	$1,015	$1,221	$1,429	$1,628	$1,811	$1,970	$2,106	$2,217	$2,308	$2,381	$2,440	$2,488	$2,503	$2,307	$2,265	$2,218	$2,166	$2,114
832	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Retail	ROB	$3,283	$4,155	$5,131	$6,171	$7,222	$8,230	$9,152	$9,960	$10,644	$11,209	$11,667	$12,037	$12,335	$12,578	$12,652	$11,660	$11,451	$11,210	$10,949	$10,685
833	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
834	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Assembly	ROB	$706	$894	$1,104	$1,327	$1,553	$1,770	$1,969	$2,142	$2,289	$2,411	$2,510	$2,589	$2,653	$2,705	$2,721	$2,508	$2,463	$2,411	$2,355	$2,298
835	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
836	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-BSS	BSS	ROB	$90	$105	$119	$132	$143	$152	$160	$166	$171	$175	$177	$178	$178	$179	$179	$152	$148	$144	$140	$137
837	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
838	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Sales	ROB	$1,202	$1,444	$1,689	$1,923	$2,137	$2,324	$2,482	$2,611	$2,342	$2,350	$2,341	$2,322	$2,270	$2,226	$2,192	$2,167	$1,877	$1,811	$1,751	$1,696
839	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
840	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Lodging	ROB	$10,393	$12,490	$14,606	$16,633	$18,482	$20,098	$21,463	$22,584	$20,257	$20,328	$20,247	$20,081	$19,630	$19,254	$18,959	$18,741	$16,235	$15,667	$15,141	$14,673
841	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Office	ROB	$25,062	$30,119	$35,222	$40,110	$44,569	$48,467	$51,757	$54,462	$48,849	$49,020	$48,825	$48,424	$47,338	$46,431	$45,718	$45,194	$39,151	$37,781	$36,513	$35,383
842	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Service	ROB	$7,037	$8,457	$9,890	$11,263	$12,515	$13,609	$14,533	$15,293	$13,717	$13,765	$13,710	$13,597	$13,292	$13,038	$12,838	$12,691	$10,993	$10,609	$10,253	$9,936
843	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Retail	ROB	$26,392	$31,719	$37,093	$42,240	$46,936	$51,040	$54,505	$57,354	$51,443	$51,623	$51,418	$50,995	$49,851	$48,896	$48,146	$47,594	$41,230	$39,787	$38,452	$37,262
844	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
845	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
846	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
847	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	BSS	ROB	$71	$85	$99	$113	$126	$137	$146	$154	$138	$138	$138	$137	$134	$131	$129	$127	$110	$107	$103	$100

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
848	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
849	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
850	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
851	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
852	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
853	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
854	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
855	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
856	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
857	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
858	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
859	Hot Water	Faucet Aerator	Biz-Custom	Education	RET	$9,519	$10,699	$11,425	$11,560	$11,083	$10,096	$8,782	$7,341	$5,938	$4,677	$11,123	$11,195	$11,094	$9,150	$8,781	$8,006	$6,970	$5,832	$4,721	$3,722
860	Hot Water	Faucet Aerator	Biz-Custom	Food Sales	RET	$32	$36	$38	$39	$37	$34	$29	$24	$20	$16	$37	$37	$37	$30	$29	$27	$23	$19	$16	$12
861	Hot Water	Faucet Aerator	Biz-Custom	Health	RET	$659	$740	$791	$800	$767	$699	$608	$508	$411	$324	$770	$775	$768	$633	$608	$554	$482	$404	$327	$258
862	Hot Water	Faucet Aerator	Biz-Custom	Lodging	RET	$10,494	$11,794	$12,595	$12,744	$12,219	$11,130	$9,681	$8,093	$6,546	$5,156	$12,262	$12,341	$12,230	$10,087	$9,680	$8,826	$7,684	$6,429	$5,205	$4,104
863	Hot Water	Faucet Aerator	Biz-Custom	Office	RET	$7,598	$8,540	$9,120	$9,228	$8,847	$8,059	$7,010	$5,860	$4,740	$3,734	$8,879	$8,936	$8,855	$7,304	$7,009	$6,391	$5,564	$4,655	$3,769	$2,971
864	Hot Water	Faucet Aerator	Biz-Custom	Food Service	RET	$11,538	$12,968	$13,849	$14,013	$13,434	$12,238	$10,645	$8,898	$7,197	$5,670	$13,483	$13,569	$13,447	$11,091	$10,643	$9,704	$8,449	$7,069	$5,723	$4,512
865	Hot Water	Faucet Aerator	Biz-Custom	Retail	RET	$13,651	$15,343	$16,385	$16,579	$15,895	$14,479	$12,594	$10,528	$8,515	$6,708	$15,952	$16,055	$15,910	$13,123	$12,593	$11,481	$9,996	$8,364	$6,771	$5,339
866	Hot Water	Faucet Aerator	Biz-Custom	Warehouse	RET	$1,200	$1,348	$1,440	$1,457	$1,397	$1,272	$1,107	$925	$748	$589	$1,402	$1,411	$1,398	$1,153	$1,107	$1,009	$878	$735	$595	$469
867	Hot Water	Faucet Aerator	Biz-Custom	Assembly	RET	$1,213	$1,363	$1,456	$1,473	$1,412	$1,286	$1,119	$935	$756	$596	$1,417	$1,426	$1,413	$1,166	$1,119	$1,020	$888	$743	$601	$474
868	Hot Water	Faucet Aerator	Biz-Custom	Other	RET	$2,393	$2,690	$2,872	$2,906	$2,786	$2,538	$2,208	$1,846	$1,493	$1,176	$2,796	$2,814	$2,789	$2,300	$2,207	$2,013	$1,752	$1,466	$1,187	$936
869	Hot Water	Faucet Aerator	Biz-Custom	BSS	RET	$509	$573	$611	$619	$593	$540	$470	$393	$318	$250	$595	$599	$594	$490	$470	$428	$373	$312	$253	$199
870	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Education	ROB	$503	$1,270	$2,140	$3,090	$4,156	$5,508	$7,169	$9,132	$11,351	$13,740	$16,183	$18,562	$20,775	$22,756	$24,479	$25,768	$26,733	$27,468	$28,018	$28,404
871	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Sales	ROB	$2	$5	$9	$13	$18	$23	$30	$39	$48	$58	$68	$79	$88	$96	$104	$109	$113	$116	$119	$120
872	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Health	ROB	$31	$78	$131	$189	$254	$336	$438	$558	$693	$839	$988	$1,133	$1,269	$1,390	$1,495	$1,573	$1,632	$1,677	$1,711	$1,734
873	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Lodging	ROB	$511	$1,292	$2,176	$3,143	$4,227	$5,603	$7,292	$9,289	$11,546	$13,975	$16,460	$18,880	$21,131	$23,146	$24,897	$26,209	$27,191	$27,938	$28,497	$28,890
874	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Office	ROB	$533	$1,346	$2,268	$3,275	$4,406	$5,839	$7,600	$9,681	$12,033	$14,565	$17,155	$19,677	$22,023	$24,123	$25,948	$27,315	$28,338	$29,118	$29,700	$30,110
875	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Service	ROB	$809	$2,044	$3,444	$4,974	$6,690	$8,867	$11,541	$14,701	$18,273	$22,117	$26,051	$29,880	$33,442	$36,631	$39,404	$41,479	$43,033	$44,216	$45,101	$45,723
876	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Retail	ROB	$957	$2,419	$4,075	$5,885	$7,915	$10,491	$13,654	$17,393	$21,619	$26,168	$30,822	$35,352	$39,567	$43,340	$46,620	$49,075	$50,914	$52,314	$53,361	$54,096
877	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Warehouse	ROB	$84	$213	$358	$517	$696	$922	$1,200	$1,528	$1,900	$2,300	$2,709	$3,107	$3,477	$3,809	$4,097	$4,313	$4,474	$4,597	$4,689	$4,754
878	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Assembly	ROB	$85	$215	$362	$523	$703	$932	$1,213	$1,545	$1,921	$2,325	$2,738	$3,141	$3,515	$3,850	$4,142	$4,360	$4,523	$4,647	$4,740	$4,806
879	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Other	ROB	$168	$424	$714	$1,032	$1,388	$1,839	$2,394	$3,049	$3,790	$4,587	$5,403	$6,197	$6,936	$7,597	$8,172	$8,603	$8,925	$9,171	$9,354	$9,483
880	Hot Water	Res-Sized Heat Pump Water Heater	Biz-BSS	BSS	ROB	$58	$147	$246	$354	$474	$626	$812	$1,030	$1,275	$1,538	$1,804	$2,061	$2,297	$2,506	$2,685	$2,815	$2,909	$2,977	$3,025	$3,054
881	Hot Water	Commercial-Sized HPWH	Biz-Standard	Education	ROB	$122	$309	$521	$752	$1,011	$1,340	$1,744	$2,222	$2,761	$3,342	$3,937	$4,515	$5,054	$5,535	$5,954	$6,267	$6,502	$6,681	$6,814	$6,908
882	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Sales	ROB	$0	$0	$0	$0	$0	$1	$1	$1	$1	$2	$2	$2	$2	$3	$3	$3	$3	$3	$3	$3
883	Hot Water	Commercial-Sized HPWH	Biz-Standard	Health	ROB	$8	$21	$36	$52	$70	$93	$121	$154	$191	$231	$272	$312	$350	$383	$412	$434	$450	$462	$472	$478
884	Hot Water	Commercial-Sized HPWH	Biz-Standard	Lodging	ROB	$123	$312	$525	$759	$1,021	$1,353	$1,761	$2,243	$2,787	$3,374	$3,974	$4,558	$5,101	$5,587	$6,010	$6,326	$6,563	$6,744	$6,878	$6,973
885	Hot Water	Commercial-Sized HPWH	Biz-Standard	Office	ROB	$13	$33	$56	$81	$109	$144	$187	$239	$297	$359	$423	$485	$543	$595	$640	$674	$699	$718	$732	$742
886	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Service	ROB	$20	$50	$85	$123	$165	$219	$285	$363	$451	$546	$643	$737	$825	$903	$972	$1,023	$1,061	$1,090	$1,112	$1,128
887	Hot Water	Commercial-Sized HPWH	Biz-Standard	Retail	ROB	$24	$60	$101	$145	$195	$259	$337	$429	$533	$645	$760	$872	$976	$1,069	$1,150	$1,210	$1,256	$1,290	$1,316	$1,334
888	Hot Water	Commercial-Sized HPWH	Biz-Standard	Warehouse	ROB	$2	$5	$9	$13	$17	$23	$30	$38	$47	$57	$67	$77	$86	$94	$101	$106	$110	$113	$116	$117
889	Hot Water	Commercial-Sized HPWH	Biz-Standard	Assembly	ROB	$2	$5	$9	$13	$17	$23	$30	$38	$47	$57	$68	$77	$87	$95	$102	$108	$112	$115	$117	$119
890	Hot Water	Commercial-Sized HPWH	Biz-Standard	Other	ROB	$4	$10	$18	$25	$34	$45	$59	$75	$93	$113	$133	$153	$171	$187	$202	$212	$220	$226	$231	$234
891	Hot Water	Commercial-Sized HPWH	Biz-BSS	BSS	ROB	$4	$4	$5	$5	$6	$6	$6	$6	$7	$7	$7	$7	$7	$7	$7	$6	$6	$6	$6	$6
892	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Education	ROB	$8,844	$11,046	$13,436	$15,901	$18,325	$17,728	$19,081	$20,131	$20,916	$21,495	$19,746	$19,558	$19,285	$18,672	$18,150	$16,066	$15,344	$14,695	$14,231	$13,837
893	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Sales	ROB	$29	$37	$45	$53	$61	$59	$64	$67	$70	$72	$66	$65	$64	$62	$60	$54	$51	$49	$47	$46
894	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Health	ROB	$612	$764	$930	$1,100	$1,268	$1,227	$1,320	$1,393	$1,447	$1,488	$1,367	$1,353	$1,335	$1,292	$1,256	$1,112	$1,062	$1,017	$985	$958
895	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Lodging	ROB	$9,750	$12,178	$14,812	$17,530	$20,202	$19,544	$21,035	$22,193	$23,058	$23,697	$21,768	$21,561	$21,260	$20,585	$20,009	$17,712	$16,916	$16,200	$15,689	$15,254
896	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Office	ROB	$7,060	$8,818	$10,725	$12,693	$14,628	$14,151	$15,231	$16,069	$16,696	$17,158	$15,762	$15,612	$15,394	$14,905	$14,488	$12,824	$12,248	$11,730	$11,360	$11,045
897	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Service	ROB	$10,720	$13,390	$16,286	$19,274	$22,213	$21,489	$23,128	$24,402	$25,353	$26,055	$23,935	$23,707	$23,376	$22,633	$22,001	$19,474	$18,599	$17,812	$17,250	$16,772
898	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Retail	ROB	$12,683	$15,842	$19,268	$22,804	$26,281	$25,424	$27,364	$28,871	$29,996	$30,827	$28,318	$28,049	$27,657	$26,778	$26,030	$23,041	$22,005	$21,074	$20,409	$19,844
899	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Warehouse	ROB	$1,115	$1,392	$1,693	$2,004	$2,310	$2,234	$2,405	$2,537	$2,636	$2,709	$2,489	$2,465	$2,430	$2,353	$2,287	$2,025	$1,934	$1,852	$1,794	$1,744
900	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Assembly	ROB	$1,127	$1,407	$1,712	$2,026	$2,335	$2,259	$2,431	$2,565	$2,665	$2,739	$2,516	$2,492	$2,457	$2,379	$2,312	$2,047	$1,955	$1,872	$1,813	$1,763
901	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Other	ROB	$2,223	$2,777	$3,378	$3,998	$4,607	$4,457	$4,797	$5,061	$5,258	$5,404	$4,964	$4,917	$4,848	$4,694	$4,563	$4,039	$3,858	$3,694	$3,578	$3,479
902	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	BSS	ROB	$473	$591	$719	$851	$981	$949	$1,021	$1,077	$1,119	$1,150	$1,057	$1,047	$1,032	$999	$971	$860	$821	$786	$762	$740
903	Hot Water	Custom Hot Water	Biz-Custom	Education	RET	$1,621	$2,449	$2,740	$2,957	$3,279	$4,134	$5,043	$5,912	$6,618	$7,040	$8,316	$8,621	$8,214	$7,558	$6,913	$6,700	$6,622	$6,637	$6,653	$6,566
904	Hot Water	Custom Hot Water	Biz-Custom	Food Sales	RET	$5	$8	$9	$10	$11	$14	$17	$20	$22	$23	$28	$29	$27	$25	$23	$22	$22	$22	$22	$22
905	Hot Water	Custom Hot Water	Biz-Custom	Health	RET	$112	$169	$190	$205	$227	$286	$349	$409	$458	$487	$575	$597	$568	$523	$478	$464	$458	$459	$460	$454
906	Hot Water	Custom Hot Water	Biz-Custom	Lodging	RET	$1,569	$2,369	$2,651	$2,861	$3,173	$4,000	$4,880	$5,721	$6,404	$6,811	$8,046	$8,341	$7,948	$7,313	$6,688	$6,483	$6,408	$6,421	$6,437	$6,353
907	Hot Water	Custom Hot Water	Biz-Custom	Office	RET	$1,136	$1,716	$1,920	$2,071	$2,297	$2,896	$3,533	$4,142	$4,637	$4,932	$5,826	$6,040	$5,755	$5,295	$4,843	$4,694	$4,640	$4,650	$4,661	$4,600
908	Hot Water	Custom Hot Water	Biz-Custom	Food Service	RET	$1,725	$2,605	$2,915	$3,145	$3,489	$4,398	$5,365	$6,290	$7,041	$7,489	$8,847	$9,171	$8,739	$8,041	$7,354	$7,128	$7,045	$7,061	$7,078	$6,986
909	Hot Water	Custom Hot Water	Biz-Custom	Retail	RET	$2,041	$3,082	$3,449	$3,722	$4,128	$5,204	$6,348	$7,442	$8,331	$8,861	$10,467	$10,851	$10,339	$9,513	$8,701	$8,433	$8,336	$8,354	$8,374	$8,265
910	Hot Water	Custom Hot Water	Biz-Custom	Warehouse	RET	$179	$271	$303	$327	$363	$457	$558	$654	$732	$779	$920	$954	$909	$836	$765	$741	$733	$734	$736	$726
911	Hot Water	Custom Hot Water	Biz-Custom	Assembly	RET	$181	$274	$306	$331	$367	$462	$564	$661	$740	$787	$930	$964	$918	$845	$773	$749	$741	$742	$744	$734
912	Hot Water	Custom Hot Water	Biz-Custom	Other	RET	$358	$540	$605	$652	$724	$912	$1,113	$1,305	$1,460	$1,553	$1,835	$1,902	$1,812	$1,668	$1,525	$1,478	$1,461	$1,464	$1,468	$1,449
913	Hot Water	Custom Hot Water	Biz-Custom	BSS	RET	$76	$115	$129	$139	$154	$194	$237	$278	$311	$331	$391	$405	$386	$355	$325	$315	$311	$312	$312	$308
914	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
915	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
916	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
917	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
918	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
919	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
920	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
921	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
922	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
923	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
924	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
925	Misc	Miscellaneous Custom	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
926	Misc	Miscellaneous Custom	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
927	Misc	Miscellaneous Custom	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
928	Misc	Miscellaneous Custom	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
929	Misc	Miscellaneous Custom	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
930	Misc	Miscellaneous Custom	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
931	Misc	Miscellaneous Custom	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
932	Misc	Miscellaneous Custom	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
933	Misc	Miscellaneous Custom	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
934	Misc	Miscellaneous Custom	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
935	Misc	Miscellaneous Custom	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
936	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Education	ROB	$92,918	$101,524	$108,935	$115,180	$120,381	$124,702	$128,316	$131,380	$132,703	$134,053	$135,429	$136,833	$138,265	$139,726	$141,216	$142,735	$144,286	$145,867	$147,479	$149,124
937	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Sales	ROB	$12,667	$13,840	$14,850	$15,701	$16,410	$17,000	$17,492	$17,910	$18,090	$18,274	$18,462	$18,653	$18,848	$19,048	$19,251	$19,458	$19,669	$19,885	$20,105	$20,329
938	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Health	ROB	$17,740	$19,383	$20,798	$21,990	$22,983	$23,808	$24,498	$25,083	$25,336	$25,593	$25,856	$26,124	$26,398	$26,677	$26,961	$27,251	$27,547	$27,849	$28,157	$28,471
939	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Lodging	ROB	$27,443	$29,985	$32,174	$34,018	$35,554	$36,830	$37,898	$38,803	$39,193	$39,592	$39,999	$40,413	$40,836	$41,268	$41,708	$42,156	$42,614	$43,081	$43,558	$44,043
940	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
941	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Service	ROB	$11,502	$12,568	$13,485	$14,258	$14,902	$15,437	$15,884	$16,263	$16,427	$16,594	$16,765	$16,938	$17,116	$17,296	$17,481	$17,669	$17,861	$18,057	$18,256	$18,460
942	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Retail	ROB	$118,860	$129,870	$139,349	$147,338	$153,991	$159,519	$164,142	$168,061	$169,753	$171,480	$173,240	$175,036	$176,868	$178,737	$180,643	$182,587	$184,570	$186,592	$188,655	$190,759
943	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
944	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Assembly	ROB	$24,793	$27,089	$29,067	$30,733	$32,121	$33,274	$34,238	$35,056	$35,409	$35,769	$36,136	$36,511	$36,893	$37,282	$37,680	$38,086	$38,499	$38,921	$39,351	$39,790
945	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
946	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-BSS	BSS	ROB	$77,916	$83,283	$87,717	$91,322	$94,232	$96,584	$98,502	$99,102	$99,714	$100,338	$100,974	$101,624	$102,286	$102,962	$103,651	$104,353	$105,070	$105,801	$106,547	$107,308
947	Misc	High Efficiency Hand Dryers	Biz-Custom	Education	RET	$33,870	$36,036	$36,328	$34,699	$31,491	$27,291	$22,729	$18,316	$14,375	$11,053	$34,152	$33,719	$27,710	$26,493	$24,067	$20,877	$17,404	$14,039	$11,029	$8,488
948	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Sales	RET	$3,644	$4,081	$4,342	$4,378	$4,182	$3,796	$3,290	$2,740	$2,208	$1,733	$4,107	$4,119	$4,067	$3,342	$3,196	$2,904	$2,519	$2,100	$1,694	$1,331
949	Misc	High Efficiency Hand Dryers	Biz-Custom	Health	RET	$5,841	$6,215	$6,265	$5,984	$5,431	$4,707	$3,920	$3,159	$2,479	$1,906	$5,890	$5,815	$4,779	$4,569	$4,151	$3,601	$3,002	$2,421	$1,902	$1,464
950	Misc	High Efficiency Hand Dryers	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
951	Misc	High Efficiency Hand Dryers	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
952	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Service	RET	$6,988	$7,826	$8,327	$8,396	$8,020	$7,279	$6,309	$5,255	$4,235	$3,324	$7,876	$7,899	$7,799	$6,410	$6,129	$5,569	$4,831	$4,028	$3,249	$2,553
953	Misc	High Efficiency Hand Dryers	Biz-Custom	Retail	RET	$39,105	$43,793	$46,598	$46,979	$44,878	$40,733	$35,303	$29,404	$23,697	$18,601	$44,074	$44,199	$43,644	$35,869	$34,298	$31,160	$27,033	$22,538	$18,181	$14,285
954	Misc	High Efficiency Hand Dryers	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
955	Misc	High Efficiency Hand Dryers	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
956	Misc	High Efficiency Hand Dryers	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
957	Misc	High Efficiency Hand Dryers	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
958	Misc	Ozone Commercial Laundry	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
959	Misc	Ozone Commercial Laundry	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
960	Misc	Ozone Commercial Laundry	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
961	Misc	Ozone Commercial Laundry	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
962	Misc	Ozone Commercial Laundry	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
963	Misc	Ozone Commercial Laundry	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
964	Misc	Ozone Commercial Laundry	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
965	Misc	Ozone Commercial Laundry	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
966	Misc	Ozone Commercial Laundry	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
967	Misc	Ozone Commercial Laundry	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
968	Misc	Ozone Commercial Laundry	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
969	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Education	ROB	$576	$595	$611	$625	$630	$635	$641	$646	$652	$658	$663	$669	$675	$682	$688	$498	$497	$498	$500	$505
970	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Sales	ROB	$38	$40	$41	$42	$42	$42	$43	$43	$43	$44	$44	$45	$45	$45	$46	$33	$33	$33	$33	$34
971	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Health	ROB	$108	$112	$115	$118	$119	$120	$121	$122	$123	$124	$125	$126	$127	$128	$129	$94	$94	$94	$94	$95
972	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Lodging	ROB	$162	$168	$172	$176	$178	$179	$181	$182	$184	$185	$187	$189	$191	$192	$194	$140	$140	$141	$141	$142
973	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Office	ROB	$7,425	$7,678	$7,887	$8,061	$8,128	$8,196	$8,265	$8,336	$8,408	$8,482	$8,557	$8,634	$8,712	$8,792	$8,874	$6,421	$6,415	$6,427	$6,451	$6,514
974	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Service	ROB	$38	$40	$41	$42	$42	$42	$43	$43	$44	$44	$44	$45	$45	$46	$46	$33	$33	$33	$33	$34
975	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Retail	ROB	$359	$371	$381	$389	$392	$396	$399	$403	$406	$410	$413	$417	$421	$425	$428	$310	$310	$310	$312	$315
976	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Warehouse	ROB	$313	$323	$332	$339	$342	$345	$348	$351	$354	$357	$360	$363	$367	$370	$374	$270	$270	$271	$272	$274
977	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Assembly	ROB	$152	$157	$161	$165	$166	$168	$169	$171	$172	$174	$175	$177	$178	$180	$182	$131	$131	$132	$132	$133
978	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Other	ROB	$1,140	$1,179	$1,211	$1,237	$1,248	$1,258	$1,269	$1,280	$1,291	$1,302	$1,314	$1,325	$1,337	$1,350	$1,362	$986	$985	$987	$990	$1,000
979	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	BSS	ROB	$983	$1,017	$1,044	$1,067	$1,076	$1,085	$1,095	$1,104	$1,113	$1,123	$1,133	$1,143	$1,154	$1,164	$1,175	$850	$850	$851	$854	$863
980	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
981	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Sales	ROB	$1,968	$2,152	$2,311	$2,446	$2,558	$2,652	$2,731	$2,799	$2,829	$2,861	$2,236	$2,206	$2,185	$2,173	$2,169	$2,172	$2,180	$2,193	$2,219	$2,246
982	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Health	ROB	$2,775	$3,034	$3,259	$3,448	$3,607	$3,739	$3,851	$3,946	$3,989	$4,033	$3,152	$3,110	$3,081	$3,064	$3,058	$3,062	$3,074	$3,092	$3,129	$3,166
983	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Lodging	ROB	$4,991	$5,458	$5,861	$6,203	$6,488	$6,726	$6,927	$7,098	$7,176	$7,255	$5,670	$5,595	$5,542	$5,512	$5,501	$5,508	$5,529	$5,562	$5,628	$5,695
984	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
985	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
986	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Retail	ROB	$22,046	$24,107	$25,889	$27,395	$28,656	$29,709	$30,595	$31,352	$31,693	$32,042	$25,044	$24,712	$24,478	$24,343	$24,297	$24,328	$24,421	$24,566	$24,857	$25,155
987	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Warehouse	ROB	$8,735	$9,552	$10,258	$10,855	$11,354	$11,771	$12,122	$12,422	$12,558	$12,696	$9,923	$9,791	$9,699	$9,645	$9,627	$9,639	$9,676	$9,733	$9,849	$9,967
988	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
989	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
990	Misc	Pool Pump w/ Variable Frequency Drive	Biz-BSS	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
991	Misc	Pool Pump Timer	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
992	Misc	Pool Pump Timer	Biz-Custom	Food Sales	ROB	$865	$943	$1,011	$1,067	$1,114	$1,152	$1,184	$1,211	$1,221	$1,232	$961	$946	$935	$928	$924	$923	$925	$928	$937	$946
993	Misc	Pool Pump Timer	Biz-Custom	Health	ROB	$1,219	$1,330	$1,425	$1,505	$1,571	$1,625	$1,669	$1,707	$1,722	$1,737	$1,355	$1,334	$1,318	$1,308	$1,303	$1,301	$1,304	$1,308	$1,321	$1,334
994	Misc	Pool Pump Timer	Biz-Custom	Lodging	ROB	$2,193	$2,392	$2,564	$2,707	$2,825	$2,922	$3,003	$3,070	$3,097	$3,124	$2,437	$2,399	$2,371	$2,353	$2,343	$2,341	$2,345	$2,353	$2,376	$2,399
995	Misc	Pool Pump Timer	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
996	Misc	Pool Pump Timer	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
997	Misc	Pool Pump Timer	Biz-Custom	Retail	ROB	$9,684	$10,567	$11,322	$11,955	$12,478	$12,908	$13,264	$13,562	$13,679	$13,799	$10,762	$10,595	$10,472	$10,392	$10,349	$10,339	$10,356	$10,395	$10,495	$10,597
998	Misc	Pool Pump Timer	Biz-Custom	Warehouse	ROB	$3,837	$4,187	$4,486	$4,737	$4,944	$5,114	$5,255	$5,373	$5,420	$5,468	$4,264	$4,198	$4,149	$4,117	$4,101	$4,097	$4,103	$4,119	$4,158	$4,199
999	Misc	Pool Pump Timer	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1000	Misc	Pool Pump Timer	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1001	Misc	Pool Pump Timer	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1002	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Education	RET	$1,370	$2,072	$2,321	$2,507	$2,784	$3,513	$4,290	$6,051	$7,180	$7,731	$7,924	$7,864	$7,876	$7,758	$8,313	$8,421	$8,178	$7,771	$7,280	$6,940
1003	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Sales	RET	$40	$61	$69	$74	$82	$104	$127	$179	$212	$228	$234	$232	$233	$229	$246	$249	$242	$230	$215	$205
1004	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Health	RET	$1,098	$1,660	$1,860	$2,009	$2,231	$2,815	$3,438	$4,849	$5,753	$6,195	$6,350	$6,301	$6,311	$6,217	$6,661	$6,748	$6,553	$6,227	$5,833	$5,561
1005	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Lodging	RET	$288	$435	$487	$526	$584	$738	$901	$1,271	$1,508	$1,623	$1,664	$1,651	$1,654	$1,629	$1,745	$1,768	$1,717	$1,632	$1,529	$1,457
1006	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Office	RET	$5,559	$8,406	$9,415	$10,170	$11,292	$14,251	$17,403	$24,546	$29,125	$31,361	$32,143	$31,898	$31,949	$31,471	$33,720	$34,160	$33,174	$31,521	$29,530	$28,153
1007	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Service	RET	$195	$295	$330	$357	$396	$500	$611	$862	$1,022	$1,101	$1,128	$1,120	$1,121	$1,105	$1,184	$1,199	$1,164	$1,106	$1,037	$988
1008	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Retail	RET	$1,292	$1,954	$2,189	$2,364	$2,625	$3,313	$4,045	$5,706	$6,770	$7,290	$7,472	$7,415	$7,427	$7,316	$7,838	$7,941	$7,712	$7,327	$6,865	$6,544
1009	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Warehouse	RET	$284	$429	$481	$519	$577	$728	$889	$1,254	$1,488	$1,602	$1,642	$1,629	$1,632	$1,607	$1,722	$1,745	$1,694	$1,610	$1,508	$1,438
1010	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Assembly	RET	$282	$427	$478	$517	$574	$724	$884	$1,247	$1,480	$1,593	$1,633	$1,620	$1,623	$1,599	$1,713	$1,735	$1,685	$1,601	$1,500	$1,430
1011	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Other	RET	$2,351	$3,555	$3,982	$4,301	$4,775	$6,027	$7,360	$10,381	$12,318	$13,263	$13,594	$13,490	$13,512	$13,310	$14,261	$14,447	$14,030	$13,331	$12,489	$11,906
1012	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	BSS	RET	$544	$822	$921	$995	$1,105	$1,394	$1,703	$2,402	$2,850	$3,068	$3,145	$3,121	$3,126	$3,079	$3,299	$3,342	$3,246	$3,084	$2,889	$2,754
1013	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Education	RET	$2,536	$3,834	$4,295	$4,639	$5,151	$6,501	$7,939	$9,317	$12,338	$13,987	$14,433	$14,199	$13,602	$13,327	$13,005	$12,683	$13,745	$13,967	$13,479	$12,658
1014	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Sales	RET	$75	$113	$127	$137	$152	$192	$234	$275	$364	$413	$426	$419	$402	$394	$384	$375	$406	$413	$398	$374
1015	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Health	RET	$2,032	$3,073	$3,442	$3,718	$4,127	$5,209	$6,361	$7,465	$9,886	$11,208	$11,565	$11,378	$10,899	$10,679	$10,421	$10,163	$11,014	$11,192	$10,801	$10,143
1016	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Lodging	RET	$532	$805	$902	$974	$1,082	$1,365	$1,667	$1,956	$2,590	$2,937	$3,030	$2,981	$2,856	$2,798	$2,731	$2,663	$2,886	$2,933	$2,830	$2,658
1017	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Office	RET	$10,287	$15,554	$17,422	$18,819	$20,894	$26,370	$32,202	$37,792	$50,046	$56,737	$58,546	$57,598	$55,176	$54,058	$52,752	$51,449	$55,755	$56,656	$54,678	$51,347
1018	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Service	RET	$361	$546	$612	$661	$733	$926	$1,130	$1,327	$1,757	$1,992	$2,055	$2,022	$1,937	$1,898	$1,852	$1,806	$1,957	$1,989	$1,919	$1,802
1019	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Retail	RET	$2,391	$3,616	$4,050	$4,375	$4,857	$6,130	$7,486	$8,785	$11,634	$13,189	$13,609	$13,389	$12,826	$12,566	$12,263	$11,960	$12,961	$13,170	$12,710	$11,936
1020	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Warehouse	RET	$525	$794	$890	$961	$1,067	$1,347	$1,645	$1,930	$2,556	$2,898	$2,990	$2,942	$2,818	$2,761	$2,694	$2,628	$2,848	$2,894	$2,793	$2,622
1021	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Assembly	RET	$523	$790	$885	$956	$1,061	$1,340	$1,636	$1,920	$2,542	$2,882	$2,974	$2,926	$2,803	$2,746	$2,680	$2,614	$2,832	$2,878	$2,778	$2,609
1022	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Other	RET	$4,351	$6,578	$7,368	$7,959	$8,837	$11,152	$13,619	$15,983	$21,166	$23,995	$24,760	$24,359	$23,335	$22,862	$22,310	$21,759	$23,580	$23,961	$23,124	$21,716
1023	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	BSS	RET	$1,006	$1,522	$1,705	$1,841	$2,044	$2,580	$3,151	$3,697	$4,896	$5,551	$5,728	$5,635	$5,398	$5,289	$5,161	$5,034	$5,455	$5,543	$5,350	$5,024
1024	Plug_Office	Energy Star Server	Biz-Custom	Education	RET	$1,710	$2,586	$2,896	$3,129	$3,474	$4,384	$5,354	$6,283	$7,041	$8,787	$9,516	$9,419	$8,934	$8,325	$8,069	$7,889	$7,777	$7,664	$8,436	$8,556
1025	Plug_Office	Energy Star Server	Biz-Custom	Food Sales	RET	$22	$34	$38	$41	$45	$57	$70	$82	$91	$114	$124	$122	$116	$108	$105	$102	$101	$100	$110	$111
1026	Plug_Office	Energy Star Server	Biz-Custom	Health	RET	$1,710	$2,585	$2,896	$3,128	$3,473	$4,383	$5,353	$6,282	$7,040	$8,786	$9,515	$9,418	$8,932	$8,324	$8,068	$7,888	$7,776	$7,663	$8,435	$8,555
1027	Plug_Office	Energy Star Server	Biz-Custom	Lodging	RET	$350	$529	$593	$640	$711	$897	$1,095	$1,286	$1,441	$1,798	$1,947	$1,927	$1,828	$1,703	$1,651	$1,614	$1,591	$1,568	$1,726	$1,751
1028	Plug_Office	Energy Star Server	Biz-Custom	Office	RET	$7,861	$11,886	$13,313	$14,381	$15,967	$20,151	$24,608	$28,879	$32,363	$40,391	$43,742	$43,296	$41,063	$38,268	$37,091	$36,262	$35,747	$35,227	$38,775	$39,328
1029	Plug_Office	Energy Star Server	Biz-Custom	Food Service	RET	$80	$121	$136	$147	$163	$206	$252	$295	$331	$413	$447	$443	$420	$391	$379	$371	$365	$360	$396	$402
1030	Plug_Office	Energy Star Server	Biz-Custom	Retail	RET	$1,697	$2,565	$2,873	$3,104	$3,446	$4,349	$5,311	$6,233	$6,985	$8,717	$9,441	$9,344	$8,863	$8,259	$8,005	$7,826	$7,715	$7,603	$8,369	$8,488
1031	Plug_Office	Energy Star Server	Biz-Custom	Warehouse	RET	$391	$591	$662	$715	$793	$1,001	$1,223	$1,435	$1,608	$2,007	$2,174	$2,151	$2,041	$1,902	$1,843	$1,802	$1,776	$1,750	$1,927	$1,954
1032	Plug_Office	Energy Star Server	Biz-Custom	Assembly	RET	$307	$464	$520	$562	$624	$787	$961	$1,128	$1,264	$1,577	$1,708	$1,691	$1,604	$1,495	$1,449	$1,416	$1,396	$1,376	$1,514	$1,536
1033	Plug_Office	Energy Star Server	Biz-Custom	Other	RET	$3,765	$5,692	$6,376	$6,887	$7,647	$9,651	$11,785	$13,831	$15,500	$19,344	$20,949	$20,735	$19,666	$18,327	$17,764	$17,367	$17,120	$16,871	$18,570	$18,835
1034	Plug_Office	Energy Star Server	Biz-Custom	BSS	RET	$632	$956	$1,071	$1,156	$1,284	$1,620	$1,979	$2,322	$2,602	$3,248	$3,517	$3,481	$3,302	$3,077	$2,982	$2,916	$2,874	$2,833	$3,118	$3,162
1035	Plug_Office	Server Virtualization	Biz-Custom	Education	RET	$3,289	$4,982	$5,591	$6,052	$6,732	$8,513	$10,416	$12,248	$13,752	$17,197	$18,660	$18,507	$17,587	$16,422	$15,948	$15,622	$15,430	$15,236	$16,803	$17,076
1036	Plug_Office	Server Virtualization	Biz-Custom	Food Sales	RET	$43	$65	$73	$79	$87	$111	$135	$159	$179	$223	$242	$240	$228	$213	$207	$203	$200	$198	$218	$222
1037	Plug_Office	Server Virtualization	Biz-Custom	Health	RET	$3,288	$4,981	$5,590	$6,051	$6,731	$8,512	$10,414	$12,246	$13,750	$17,195	$18,658	$18,504	$17,584	$16,419	$15,946	$15,620	$15,428	$15,234	$16,801	$17,073
1038	Plug_Office	Server Virtualization	Biz-Custom	Lodging	RET	$673	$1,019	$1,144	$1,238	$1,377	$1,742	$2,131	$2,506	$2,814	$3,519	$3,818	$3,787	$3,599	$3,360	$3,263	$3,197	$3,157	$3,117	$3,438	$3,494
1039	Plug_Office	Server Virtualization	Biz-Custom	Office	RET	$15,116	$22,900	$25,701	$27,816	$30,943	$39,129	$47,878	$56,297	$63,213	$79,048	$85,774	$85,066	$80,839	$75,483	$73,305	$71,808	$70,926	$70,032	$77,236	$78,490
1040	Plug_Office	Server Virtualization	Biz-Custom	Food Service	RET	$155	$234	$263	$284	$316	$400	$489	$575	$646	$808	$877	$870	$826	$772	$749	$734	$725	$716	$789	$802
1041	Plug_Office	Server Virtualization	Biz-Custom	Retail	RET	$3,262	$4,942	$5,547	$6,003	$6,678	$8,445	$10,333	$12,150	$13,643	$17,061	$18,512	$18,360	$17,447	$16,291	$15,821	$15,498	$15,308	$15,115	$16,670	$16,940
1042	Plug_Office	Server Virtualization	Biz-Custom	Warehouse	RET	$751	$1,138	$1,277	$1,382	$1,538	$1,944	$2,379	$2,798	$3,141	$3,928	$4,262	$4,227	$4,017	$3,751	$3,643	$3,568	$3,524	$3,480	$3,838	$3,900
1043	Plug_Office	Server Virtualization	Biz-Custom	Assembly	RET	$590	$894	$1,004	$1,086	$1,208	$1,528	$1,870	$2,199	$2,469	$3,087	$3,350	$3,322	$3,157	$2,948	$2,863	$2,804	$2,770	$2,735	$3,016	$3,065
1044	Plug_Office	Server Virtualization	Biz-Custom	Other	RET	$7,240	$10,967	$12,309	$13,322	$14,819	$18,740	$22,930	$26,962	$30,274	$37,858	$41,079	$40,740	$38,716	$36,151	$35,107	$34,391	$33,968	$33,540	$36,990	$37,591
1045	Plug_Office	Server Virtualization	Biz-Custom	BSS	RET	$1,215	$1,841	$2,067	$2,237	$2,488	$3,146	$3,850	$4,527	$5,083	$6,356	$6,897	$6,840	$6,500	$6,070	$5,894	$5,774	$5,703	$5,631	$6,211	$6,311
1046	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Education	RET	$2,350	$3,578	$4,035	$4,388	$4,905	$6,232	$7,662	$9,052	$10,212	$10,946	$11,116	$10,696	$9,778	$8,536	$7,161	$7,881	$7,748	$7,118	$6,587	$6,379
1047	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Sales	RET	$31	$46	$52	$57	$64	$81	$100	$118	$133	$142	$144	$139	$127	$111	$93	$102	$101	$92	$86	$83
1048	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Health	RET	$2,350	$3,577	$4,034	$4,388	$4,904	$6,232	$7,661	$9,051	$10,211	$10,944	$11,114	$10,694	$9,777	$8,535	$7,160	$7,880	$7,747	$7,117	$6,586	$6,378
1049	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Lodging	RET	$481	$732	$826	$898	$1,004	$1,275	$1,568	$1,852	$2,090	$2,240	$2,274	$2,189	$2,001	$1,747	$1,465	$1,613	$1,585	$1,456	$1,348	$1,305
1050	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Office	RET	$10,803	$16,446	$18,547	$20,171	$22,547	$28,648	$35,219	$41,609	$46,940	$50,312	$51,095	$49,164	$44,946	$39,236	$32,914	$36,226	$35,613	$32,716	$30,279	$29,322
1051	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Service	RET	$110	$168	$190	$206	$230	$293	$360	$425	$480	$514	$522	$503	$459	$401	$336	$370	$364	$334	$309	$300
1052	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Retail	RET	$2,332	$3,549	$4,003	$4,353	$4,866	$6,183	$7,601	$8,980	$10,131	$10,859	$11,028	$10,611	$9,701	$8,468	$7,104	$7,819	$7,686	$7,061	$6,535	$6,328
1053	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Warehouse	RET	$537	$817	$922	$1,002	$1,120	$1,424	$1,750	$2,068	$2,333	$2,500	$2,539	$2,443	$2,233	$1,950	$1,636	$1,800	$1,770	$1,626	$1,505	$1,457
1054	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Assembly	RET	$422	$642	$724	$788	$881	$1,119	$1,375	$1,625	$1,833	$1,965	$1,995	$1,920	$1,755	$1,532	$1,285	$1,415	$1,391	$1,278	$1,183	$1,145
1055	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Other	RET	$5,174	$7,876	$8,883	$9,660	$10,798	$13,720	$16,867	$19,928	$22,481	$24,096	$24,471	$23,546	$21,526	$18,791	$15,763	$17,350	$17,056	$15,669	$14,501	$14,043
1056	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	BSS	RET	$869	$1,322	$1,491	$1,622	$1,813	$2,304	$2,832	$3,346	$3,774	$4,046	$4,109	$3,953	$3,614	$3,155	$2,647	$2,913	$2,864	$2,631	$2,435	$2,358
1057	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Education	ROB	$76	$191	$321	$462	$619	$819	$1,063	$1,350	$1,674	$2,020	$2,373	$2,714	$3,030	$3,310	$3,551	$3,727	$3,857	$3,952	$4,020	$4,065
1058	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Sales	ROB	$1	$2	$4	$6	$8	$11	$14	$18	$22	$26	$31	$35	$39	$43	$46	$48	$50	$51	$52	$53
1059	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Health	ROB	$76	$191	$321	$462	$619	$819	$1,063	$1,350	$1,673	$2,020	$2,373	$2,714	$3,029	$3,309	$3,550	$3,727	$3,856	$3,952	$4,020	$4,064
1060	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Lodging	ROB	$15	$39	$66	$94	$127	$168	$217	$276	$342	$413	$486	$555	$620	$677	$727	$763	$789	$809	$823	$832
1061	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Office	ROB	$348	$877	$1,474	$2,123	$2,847	$3,764	$4,885	$6,206	$7,693	$9,286	$10,908	$12,477	$13,927	$15,214	$16,321	$17,134	$17,728	$18,166	$18,480	$18,684
1062	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Service	ROB	$4	$9	$15	$22	$29	$38	$50	$63	$79	$95	$111	$128	$142	$156	$167	$175	$181	$186	$189	$191
1063	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Retail	ROB	$75	$189	$318	$458	$615	$812	$1,054	$1,339	$1,660	$2,004	$2,354	$2,693	$3,006	$3,283	$3,522	$3,698	$3,826	$3,921	$3,988	$4,033
1064	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Warehouse	ROB	$17	$44	$73	$105	$141	$187	$243	$308	$382	$461	$542	$620	$692	$756	$811	$851	$881	$903	$918	$928
1065	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Assembly	ROB	$14	$34	$58	$83	$111	$147	$191	$242	$300	$363	$426	$487	$544	$594	$637	$669	$692	$709	$722	$730
1066	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Other	ROB	$167	$420	$706	$1,017	$1,364	$1,802	$2,340	$2,972	$3,684	$4,447	$5,224	$5,976	$6,670	$7,286	$7,816	$8,206	$8,490	$8,700	$8,850	$8,948
1067	Plug_Office	High Efficiency CRAC unit	Biz-Custom	BSS	ROB	$28	$71	$119	$171	$229	$303	$393	$499	$619	$747	$877	$1,003	$1,120	$1,223	$1,312	$1,378	$1,425	$1,461	$1,486	$1,502
1068	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Education	RET	$4,120	$6,229	$6,977	$7,537	$8,368	$10,561	$12,897	$15,135	$16,961	$18,059	$18,219	$17,416	$15,818	$13,719	$11,434	$12,504	$12,214	$11,149	$10,254	$9,867
1069	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Sales	RET	$54	$81	$91	$98	$109	$137	$168	$197	$220	$235	$237	$226	$205	$178	$149	$162	$159	$145	$133	$128
1070	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Health	RET	$4,119	$6,228	$6,976	$7,536	$8,367	$10,559	$12,895	$15,133	$16,958	$18,057	$18,217	$17,414	$15,816	$13,717	$11,433	$12,502	$12,212	$11,148	$10,252	$9,866
1071	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Lodging	RET	$843	$1,275	$1,428	$1,542	$1,712	$2,161	$2,639	$3,097	$3,470	$3,695	$3,728	$3,564	$3,237	$2,807	$2,340	$2,559	$2,499	$2,281	$2,098	$2,019
1072	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Office	RET	$18,937	$28,632	$32,071	$34,643	$38,463	$48,543	$59,280	$69,569	$77,961	$83,010	$83,746	$80,054	$72,709	$63,060	$52,558	$57,476	$56,141	$51,248	$47,131	$45,355
1073	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Service	RET	$194	$293	$328	$354	$393	$496	$606	$711	$797	$848	$856	$818	$743	$645	$537	$587	$574	$524	$482	$464
1074	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Retail	RET	$4,087	$6,180	$6,922	$7,477	$8,301	$10,477	$12,794	$15,015	$16,826	$17,916	$18,075	$17,278	$15,692	$13,610	$11,343	$12,405	$12,117	$11,061	$10,172	$9,789
1075	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Warehouse	RET	$941	$1,423	$1,594	$1,721	$1,911	$2,412	$2,946	$3,457	$3,874	$4,125	$4,161	$3,978	$3,613	$3,134	$2,612	$2,856	$2,790	$2,547	$2,342	$2,254
1076	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Assembly	RET	$740	$1,118	$1,253	$1,353	$1,502	$1,896	$2,315	$2,717	$3,045	$3,242	$3,271	$3,126	$2,840	$2,463	$2,053	$2,245	$2,193	$2,001	$1,841	$1,771
1077	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Other	RET	$9,069	$13,713	$15,360	$16,592	$18,421	$23,248	$28,391	$33,318	$37,337	$39,755	$40,108	$38,340	$34,822	$30,201	$25,171	$27,527	$26,888	$24,544	$22,572	$21,721
1078	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	BSS	RET	$1,523	$2,302	$2,579	$2,786	$3,093	$3,903	$4,767	$5,594	$6,269	$6,675	$6,734	$6,437	$5,847	$5,071	$4,226	$4,622	$4,514	$4,121	$3,790	$3,647

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1079	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Education	RET	$2,638	$3,988	$4,467	$4,825	$5,357	$6,761	$8,257	$9,690	$10,859	$11,562	$13,672	$14,189	$13,534	$12,467	$11,415	$11,076	$10,960	$10,995	$11,034	$10,903
1080	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Sales	RET	$34	$52	$58	$63	$70	$88	$107	$126	$141	$150	$178	$184	$176	$162	$148	$144	$142	$143	$143	$142
1081	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Health	RET	$2,637	$3,987	$4,466	$4,825	$5,356	$6,760	$8,256	$9,688	$10,857	$11,560	$13,671	$14,187	$13,533	$12,466	$11,413	$11,074	$10,958	$10,994	$11,032	$10,901
1082	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Lodging	RET	$540	$816	$914	$987	$1,096	$1,383	$1,689	$1,983	$2,222	$2,366	$2,798	$2,903	$2,769	$2,551	$2,336	$2,266	$2,243	$2,250	$2,258	$2,231
1083	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Office	RET	$12,124	$18,331	$20,533	$22,180	$24,625	$31,078	$37,952	$44,539	$49,913	$53,145	$62,846	$65,221	$62,212	$57,307	$52,469	$50,912	$50,376	$50,540	$50,718	$50,115
1084	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Service	RET	$124	$187	$210	$227	$252	$318	$388	$455	$510	$543	$642	$667	$636	$586	$536	$520	$515	$517	$518	$512
1085	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Retail	RET	$2,617	$3,956	$4,431	$4,787	$5,315	$6,708	$8,191	$9,613	$10,772	$11,470	$13,564	$14,076	$13,427	$12,368	$11,324	$10,988	$10,873	$10,908	$10,946	$10,816
1086	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Warehouse	RET	$602	$911	$1,020	$1,102	$1,224	$1,544	$1,886	$2,213	$2,480	$2,641	$3,123	$3,241	$3,091	$2,848	$2,607	$2,530	$2,503	$2,511	$2,520	$2,490
1087	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Assembly	RET	$473	$716	$802	$866	$962	$1,214	$1,482	$1,739	$1,949	$2,076	$2,454	$2,547	$2,430	$2,238	$2,049	$1,988	$1,967	$1,974	$1,981	$1,957
1088	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Other	RET	$5,806	$8,779	$9,834	$10,622	$11,793	$14,884	$18,176	$21,331	$23,904	$25,452	$30,099	$31,236	$29,795	$27,446	$25,129	$24,383	$24,127	$24,205	$24,290	$24,001
1089	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	BSS	RET	$975	$1,474	$1,651	$1,783	$1,980	$2,499	$3,052	$3,581	$4,013	$4,273	$5,053	$5,244	$5,002	$4,608	$4,219	$4,094	$4,051	$4,064	$4,078	$4,030
1090	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1091	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Sales	RET	$989	$1,496	$1,676	$1,811	$2,728	$3,623	$4,316	$4,953	$6,058	$6,973	$7,517	$7,788	$8,208	$8,369	$8,216	$7,883	$7,714	$7,432	$6,997	$6,501
1092	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1093	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1094	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1095	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1096	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1097	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Warehouse	RET	$1,870	$2,831	$3,175	$3,435	$5,179	$6,887	$8,215	$9,440	$11,561	$13,323	$14,380	$14,917	$15,741	$16,070	$15,796	$15,175	$14,868	$14,341	$13,519	$12,577
1098	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1099	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Other	RET	$1,689	$2,554	$2,860	$3,090	$4,652	$6,177	$7,357	$8,441	$10,322	$11,878	$12,801	$13,260	$13,971	$14,243	$13,979	$13,409	$13,119	$12,635	$11,894	$11,048
1100	Refrigeration	Strip Curtains, Cooler	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1101	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Education	RET	$17	$26	$29	$32	$35	$44	$54	$76	$90	$97	$100	$99	$99	$98	$105	$106	$103	$98	$92	$87
1102	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Sales	RET	$1	$2	$2	$2	$3	$3	$4	$6	$7	$7	$7	$7	$7	$7	$8	$8	$8	$7	$7	$6
1103	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Health	RET	$5	$8	$9	$10	$11	$14	$17	$24	$29	$31	$32	$31	$31	$31	$33	$34	$33	$31	$29	$28
1104	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Lodging	RET	$8	$12	$13	$14	$16	$20	$25	$35	$41	$44	$45	$45	$45	$45	$48	$48	$47	$45	$42	$40
1105	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Office	RET	$9	$14	$16	$17	$19	$23	$29	$40	$48	$52	$53	$53	$53	$52	$56	$56	$55	$52	$49	$46
1106	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Service	RET	$30	$45	$50	$54	$60	$76	$92	$130	$155	$167	$171	$169	$170	$167	$179	$181	$176	$167	$157	$150
1107	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Retail	RET	$12	$18	$20	$22	$24	$30	$37	$52	$62	$66	$68	$67	$68	$67	$71	$72	$70	$67	$62	$60
1108	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Warehouse	RET	$2	$3	$4	$4	$4	$6	$7	$10	$11	$12	$12	$12	$12	$12	$13	$13	$13	$12	$11	$11
1109	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Assembly	RET	$2	$3	$3	$3	$4	$5	$6	$8	$10	$11	$11	$11	$11	$11	$11	$11	$11	$11	$10	$9
1110	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Other	RET	$3	$5	$5	$6	$6	$8	$10	$14	$17	$18	$18	$18	$18	$18	$19	$20	$19	$18	$17	$16
1111	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	BSS	RET	$1	$2	$2	$2	$2	$3	$4	$5	$6	$6	$7	$7	$7	$6	$7	$7	$7	$6	$6	$6
1112	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1113	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Sales	RET	$394	$599	$676	$735	$1,113	$1,488	$1,785	$2,061	$2,537	$2,939	$3,188	$3,324	$3,525	$3,617	$3,573	$3,449	$3,396	$3,292	$3,118	$2,915
1114	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1115	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1116	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1117	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Service	RET	$7,051	$10,661	$11,941	$12,899	$19,419	$25,786	$30,713	$35,240	$43,090	$49,588	$53,440	$55,357	$58,326	$59,459	$58,360	$55,979	$54,766	$52,749	$49,653	$46,122
1118	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1119	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1120	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1121	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Other	RET	$1,336	$2,026	$2,276	$2,466	$3,723	$4,959	$5,925	$6,819	$8,363	$9,653	$10,435	$10,841	$11,457	$11,715	$11,533	$11,096	$10,888	$10,519	$9,931	$9,252
1122	Refrigeration	Strip Curtains, Freezer	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1123	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Education	RET	$12	$17	$19	$21	$23	$29	$36	$51	$60	$65	$67	$66	$66	$65	$70	$71	$69	$65	$61	$58
1124	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1
1125	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Health	RET	$4	$7	$7	$8	$9	$11	$14	$19	$23	$25	$25	$25	$25	$25	$27	$27	$26	$25	$23	$22
1126	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Lodging	RET	$4	$6	$7	$7	$8	$10	$12	$17	$21	$22	$23	$23	$23	$22	$24	$24	$23	$22	$21	$20
1127	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Office	RET	$5	$7	$8	$8	$9	$12	$14	$20	$24	$26	$26	$26	$26	$26	$28	$28	$27	$26	$24	$23
1128	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Service	RET	$10	$15	$16	$18	$20	$25	$30	$43	$51	$55	$56	$56	$56	$55	$59	$60	$58	$55	$52	$49
1129	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Retail	RET	$7	$11	$12	$13	$15	$19	$23	$32	$39	$41	$43	$42	$42	$42	$45	$45	$44	$42	$39	$37
1130	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Warehouse	RET	$6	$10	$11	$12	$13	$16	$20	$28	$33	$36	$37	$36	$36	$36	$38	$39	$38	$36	$34	$32
1131	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Assembly	RET	$1	$2	$2	$2	$2	$3	$4	$5	$6	$7	$7	$7	$7	$7	$7	$7	$7	$7	$6	$6
1132	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Other	RET	$1	$2	$2	$2	$3	$3	$4	$6	$7	$7	$8	$8	$8	$7	$8	$8	$8	$7	$7	$7
1133	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	BSS	RET	$1	$1	$1	$1	$1	$2	$2	$3	$4	$4	$4	$4	$4	$4	$4	$4	$4	$4	$4	$3
1134	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	$7,701	$11,644	$13,043	$14,089	$15,643	$19,742	$24,109	$28,293	$31,706	$33,759	$34,059	$32,557	$29,570	$25,646	$21,375	$23,375	$22,832	$20,842	$19,168	$18,445
1135	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	$1,282	$1,938	$2,171	$2,345	$2,603	$3,286	$4,012	$4,709	$5,277	$5,618	$5,668	$5,418	$4,921	$4,268	$3,557	$3,890	$3,800	$3,469	$3,190	$3,070
1136	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	$3,015	$4,559	$5,106	$5,516	$6,124	$7,729	$9,438	$11,077	$12,413	$13,217	$13,334	$12,746	$11,577	$10,040	$8,368	$9,151	$8,939	$8,160	$7,504	$7,221
1137	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	$3,159	$4,776	$5,350	$5,779	$6,416	$8,098	$9,889	$11,605	$13,005	$13,847	$13,970	$13,354	$12,129	$10,519	$8,768	$9,588	$9,365	$8,549	$7,862	$7,566
1138	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	$3,681	$5,566	$6,234	$6,734	$7,477	$9,437	$11,524	$13,524	$15,155	$16,137	$16,280	$15,562	$14,134	$12,258	$10,217	$11,173	$10,914	$9,962	$9,162	$8,817
1139	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	$14,061	$21,260	$23,814	$25,723	$28,559	$36,044	$44,017	$51,656	$57,888	$61,636	$62,183	$59,442	$53,988	$46,823	$39,026	$42,677	$41,686	$38,053	$34,996	$33,677
1140	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	$5,119	$7,740	$8,670	$9,365	$10,398	$13,123	$16,025	$18,807	$21,076	$22,440	$22,639	$21,641	$19,656	$17,047	$14,208	$15,538	$15,177	$13,854	$12,741	$12,261
1141	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	$3,385	$5,117	$5,732	$6,192	$6,875	$8,676	$10,595	$12,434	$13,934	$14,836	$14,968	$14,308	$12,995	$11,271	$9,394	$10,273	$10,034	$9,160	$8,424	$8,106
1142	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	$810	$1,225	$1,373	$1,483	$1,646	$2,078	$2,537	$2,977	$3,337	$3,553	$3,584	$3,426	$3,112	$2,699	$2,249	$2,460	$2,403	$2,193	$2,017	$1,941
1143	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	$2,987	$4,516	$5,058	$5,464	$6,066	$7,656	$9,350	$10,972	$12,296	$13,092	$13,208	$12,626	$11,468	$9,946	$8,290	$9,065	$8,855	$8,083	$7,434	$7,153
1144	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	$483	$731	$818	$884	$982	$1,239	$1,513	$1,775	$1,990	$2,118	$2,137	$2,043	$1,856	$1,609	$1,341	$1,467	$1,433	$1,308	$1,203	$1,157
1145	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	$7,458	$11,292	$12,666	$13,701	$15,233	$19,252	$23,543	$27,668	$31,050	$33,107	$39,206	$40,745	$38,920	$35,902	$32,917	$31,986	$31,694	$31,842	$31,999	$31,663
1146	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	$1,241	$1,879	$2,108	$2,280	$2,535	$3,204	$3,918	$4,605	$5,167	$5,510	$6,525	$6,781	$6,477	$5,975	$5,478	$5,323	$5,275	$5,299	$5,325	$5,270
1147	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	$2,554	$3,866	$4,337	$4,691	$5,216	$6,592	$8,061	$9,474	$10,632	$11,336	$13,424	$13,951	$13,326	$12,293	$11,271	$10,952	$10,852	$10,903	$10,957	$10,842
1148	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	$3,059	$4,632	$5,195	$5,620	$6,248	$7,897	$9,657	$11,349	$12,736	$13,580	$16,081	$16,713	$15,964	$14,726	$13,502	$13,120	$13,000	$13,061	$13,125	$12,987
1149	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	$3,565	$5,398	$6,054	$6,549	$7,281	$9,202	$11,253	$13,225	$14,841	$15,825	$18,740	$19,476	$18,603	$17,161	$15,734	$15,289	$15,149	$15,220	$15,295	$15,135
1150	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	$13,616	$20,617	$23,125	$25,015	$27,811	$35,149	$42,984	$50,515	$56,689	$60,445	$71,580	$74,391	$71,058	$65,548	$60,099	$58,398	$57,866	$58,136	$58,423	$57,809
1151	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	$4,957	$7,506	$8,419	$9,107	$10,125	$12,797	$15,649	$18,391	$20,639	$22,007	$26,061	$27,084	$25,871	$23,864	$21,881	$21,261	$21,068	$21,166	$21,270	$21,047
1152	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	$3,278	$4,963	$5,566	$6,021	$6,694	$8,461	$10,347	$12,160	$13,646	$14,550	$17,230	$17,907	$17,104	$15,778	$14,466	$14,057	$13,929	$13,994	$14,063	$13,915
1153	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	$785	$1,188	$1,333	$1,442	$1,603	$2,026	$2,477	$2,912	$3,267	$3,484	$4,126	$4,288	$4,096	$3,778	$3,464	$3,366	$3,335	$3,351	$3,367	$3,332
1154	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	$2,892	$4,379	$4,912	$5,313	$5,907	$7,466	$9,130	$10,730	$12,041	$12,839	$15,204	$15,801	$15,094	$13,923	$12,766	$12,404	$12,291	$12,349	$12,410	$12,279
1155	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	$468	$709	$795	$860	$956	$1,208	$1,477	$1,736	$1,948	$2,077	$2,460	$2,557	$2,442	$2,253	$2,066	$2,007	$1,989	$1,998	$2,008	$1,987

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1156	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Education	RET	$3,140	$4,748	$5,318	$5,745	$6,378	$8,050	$9,830	$11,536	$12,928	$13,765	$13,887	$13,275	$12,057	$12,913	$12,434	$11,199	$10,031	$9,262	$9,554	$10,157
1157	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Sales	RET	$523	$790	$885	$956	$1,061	$1,340	$1,636	$1,920	$2,152	$2,291	$2,311	$2,209	$2,007	$2,149	$2,069	$1,864	$1,669	$1,541	$1,590	$1,690
1158	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Health	RET	$1,075	$1,626	$1,821	$1,967	$2,184	$2,756	$3,366	$3,950	$4,427	$4,713	$4,755	$4,545	$4,128	$4,422	$4,257	$3,835	$3,435	$3,171	$3,271	$3,478
1159	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Lodging	RET	$1,288	$1,948	$2,181	$2,356	$2,616	$3,302	$4,032	$4,732	$5,303	$5,646	$5,696	$5,445	$4,946	$5,297	$5,100	$4,594	$4,115	$3,799	$3,919	$4,166
1160	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Office	RET	$1,501	$2,269	$2,542	$2,746	$3,049	$3,848	$4,699	$5,514	$6,179	$6,580	$6,638	$6,345	$5,763	$6,172	$5,943	$5,353	$4,795	$4,427	$4,567	$4,855
1161	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Service	RET	$5,733	$8,669	$9,710	$10,489	$11,645	$14,697	$17,948	$21,063	$23,603	$25,132	$25,355	$24,237	$22,013	$23,576	$22,702	$20,447	$18,315	$16,911	$17,444	$18,543
1162	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Retail	RET	$2,087	$3,156	$3,535	$3,819	$4,240	$5,351	$6,534	$7,668	$8,593	$9,150	$9,231	$8,824	$8,014	$8,584	$8,265	$7,444	$6,668	$6,157	$6,351	$6,751
1163	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Warehouse	RET	$1,380	$2,087	$2,337	$2,525	$2,803	$3,538	$4,320	$5,070	$5,682	$6,050	$6,103	$5,834	$5,299	$5,675	$5,465	$4,922	$4,409	$4,071	$4,199	$4,464
1164	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Assembly	RET	$330	$500	$560	$605	$671	$847	$1,034	$1,214	$1,360	$1,449	$1,461	$1,397	$1,269	$1,359	$1,308	$1,179	$1,056	$975	$1,005	$1,069
1165	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Other	RET	$1,218	$1,841	$2,062	$2,228	$2,474	$3,122	$3,812	$4,474	$5,014	$5,338	$5,386	$5,148	$4,676	$5,008	$4,822	$4,343	$3,890	$3,592	$3,705	$3,939
1166	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	BSS	RET	$197	$298	$334	$360	$400	$505	$617	$724	$811	$864	$871	$833	$757	$810	$780	$703	$629	$581	$600	$637
1167	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1168	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1169	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1170	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1171	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1172	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1173	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1174	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1175	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1176	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1177	Refrigeration	Floating Head Pressure Controls	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1178	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Education	RET	$6	$10	$11	$12	$13	$17	$20	$24	$27	$28	$29	$27	$30	$29	$27	$24	$22	$22	$23	$24
1179	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Sales	RET	$3,181	$4,815	$5,399	$5,838	$6,488	$8,197	$10,020	$11,772	$13,205	$14,075	$14,214	$13,602	$14,863	$14,520	$13,205	$11,829	$10,802	$10,850	$11,240	$11,803
1180	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Health	RET	$4	$6	$7	$8	$9	$11	$13	$16	$18	$19	$19	$18	$20	$20	$18	$16	$15	$15	$15	$16
1181	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Lodging	RET	$4	$7	$7	$8	$9	$11	$14	$16	$18	$19	$20	$19	$21	$20	$18	$16	$15	$15	$16	$16
1182	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Office	RET	$10	$15	$17	$19	$21	$26	$32	$38	$42	$45	$46	$44	$48	$47	$42	$38	$35	$35	$36	$38
1183	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Service	RET	$18	$28	$31	$34	$37	$47	$58	$68	$76	$81	$82	$78	$86	$84	$76	$68	$62	$63	$65	$68
1184	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Retail	RET	$11	$17	$20	$21	$23	$30	$36	$43	$48	$51	$51	$49	$54	$52	$48	$43	$39	$39	$41	$43
1185	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Warehouse	RET	$3	$5	$5	$6	$6	$8	$10	$12	$13	$14	$14	$14	$15	$14	$13	$12	$11	$11	$11	$12
1186	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Assembly	RET	$3	$4	$4	$5	$5	$7	$8	$10	$11	$12	$12	$11	$12	$12	$11	$10	$9	$9	$9	$10
1187	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Other	RET	$7	$11	$12	$13	$15	$18	$22	$26	$30	$31	$32	$30	$33	$32	$30	$26	$24	$24	$25	$26
1188	Refrigeration	Door Heater Controls for Cooler	Biz-BSS	BSS	RET	$3	$4	$4	$5	$5	$6	$8	$9	$10	$11	$11	$10	$11	$11	$10	$9	$8	$8	$8	$9
1189	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1190	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1191	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1192	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1193	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1194	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1195	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1196	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1197	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1198	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1199	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1200	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1201	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1202	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1203	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1204	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1205	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1206	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1207	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1208	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1209	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1210	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1211	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Education	RET	$1	$2	$2	$2	$2	$3	$4	$5	$5	$5	$6	$7	$6	$6	$5	$5	$5	$5	$5	$5
1212	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Sales	RET	$903	$1,370	$1,539	$1,668	$1,858	$2,353	$2,883	$3,394	$3,816	$4,077	$4,837	$5,036	$4,820	$4,454	$4,092	$3,983	$3,954	$3,980	$4,007	$3,972
1213	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Health	RET	$1	$2	$2	$2	$2	$3	$4	$4	$5	$5	$6	$6	$6	$6	$5	$5	$5	$5	$5	$5
1214	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1215	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Office	RET	$17	$26	$29	$31	$35	$44	$54	$64	$71	$76	$91	$94	$90	$83	$77	$75	$74	$74	$75	$74
1216	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Service	RET	$3	$5	$5	$5	$6	$8	$9	$11	$13	$13	$16	$17	$16	$15	$13	$13	$13	$13	$13	$13
1217	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1218	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1219	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1220	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Other	RET	$7	$11	$12	$13	$15	$18	$23	$27	$30	$32	$38	$39	$38	$35	$32	$31	$31	$31	$31	$31
1221	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	BSS	RET	$1	$1	$1	$1	$2	$2	$2	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3
1222	Refrigeration	Night Covers for Coolers	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1
1223	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Sales	ROB	$28	$71	$120	$172	$231	$296	$374	$466	$570	$681	$783	$872	$944	$999	$1,035	$1,047	$1,041	$1,024	$997	$966
1224	Refrigeration	Night Covers for Coolers	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1
1225	Refrigeration	Night Covers for Coolers	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1226	Refrigeration	Night Covers for Coolers	Biz-Custom	Office	ROB	$1	$1	$2	$3	$4	$6	$7	$9	$11	$13	$15	$16	$18	$19	$19	$20	$19	$19	$19	$18
1227	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Service	ROB	$0	$0	$0	$1	$1	$1	$1	$2	$2	$2	$3	$3	$3	$3	$3	$3	$3	$3	$3	$3
1228	Refrigeration	Night Covers for Coolers	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1229	Refrigeration	Night Covers for Coolers	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1230	Refrigeration	Night Covers for Coolers	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1231	Refrigeration	Night Covers for Coolers	Biz-Custom	Other	ROB	$0	$1	$1	$1	$2	$2	$3	$4	$4	$5	$6	$7	$7	$8	$8	$8	$8	$8	$8	$8
1232	Refrigeration	Night Covers for Coolers	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1	$1	$1	$1	$1	$1	$1	$1	$1	$1

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1233	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Education	ROB	$21	$52	$87	$125	$168	$222	$289	$367	$455	$549	$645	$738	$817	$883	$937	$979	$1,011	$1,031	$1,041	$1,041
1234	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Sales	ROB	$298	$751	$1,263	$1,819	$2,440	$3,225	$4,187	$5,320	$6,595	$7,962	$9,354	$10,702	$11,847	$12,802	$13,583	$14,198	$14,657	$14,947	$15,087	$15,098
1235	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Health	ROB	$8	$21	$36	$51	$69	$91	$118	$150	$185	$224	$263	$301	$333	$360	$382	$399	$412	$420	$424	$425
1236	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Lodging	ROB	$9	$23	$38	$55	$74	$98	$127	$161	$200	$241	$284	$324	$359	$388	$412	$430	$444	$453	$457	$458
1237	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Office	ROB	$23	$59	$99	$143	$192	$253	$329	$418	$518	$625	$734	$840	$930	$1,005	$1,066	$1,115	$1,151	$1,173	$1,184	$1,185
1238	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Service	ROB	$40	$101	$170	$245	$329	$435	$565	$718	$890	$1,074	$1,262	$1,444	$1,599	$1,727	$1,833	$1,916	$1,978	$2,017	$2,036	$2,037
1239	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Retail	ROB	$25	$62	$105	$151	$203	$268	$348	$442	$548	$662	$778	$890	$985	$1,064	$1,129	$1,180	$1,219	$1,243	$1,254	$1,255
1240	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Warehouse	ROB	$8	$20	$34	$49	$66	$87	$113	$144	$179	$216	$253	$290	$321	$347	$368	$384	$397	$405	$408	$409
1241	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Assembly	ROB	$7	$18	$30	$44	$58	$77	$100	$127	$158	$191	$224	$256	$284	$306	$325	$340	$351	$358	$361	$361
1242	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Other	ROB	$16	$41	$69	$99	$133	$176	$229	$290	$360	$435	$511	$584	$647	$699	$742	$775	$800	$816	$824	$824
1243	Refrigeration	Door Heater Controls for Freezer	Biz-BSS	BSS	ROB	$4	$9	$15	$22	$29	$39	$50	$64	$78	$94	$111	$126	$139	$150	$158	$165	$169	$172	$173	$172
1244	Refrigeration	Night Covers for Freezers	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1245	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Sales	RET	$776	$1,173	$1,314	$1,419	$1,576	$2,555	$3,285	$3,809	$4,231	$4,552	$5,298	$5,682	$5,766	$5,680	$5,487	$5,618	$5,529	$5,278	$4,963	$4,623
1246	Refrigeration	Night Covers for Freezers	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1247	Refrigeration	Night Covers for Freezers	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1248	Refrigeration	Night Covers for Freezers	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1249	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1250	Refrigeration	Night Covers for Freezers	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1251	Refrigeration	Night Covers for Freezers	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1252	Refrigeration	Night Covers for Freezers	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1253	Refrigeration	Night Covers for Freezers	Biz-Custom	Other	RET	$141	$213	$239	$258	$286	$464	$596	$692	$768	$827	$962	$1,032	$1,047	$1,031	$996	$1,020	$1,004	$958	$901	$839
1254	Refrigeration	Night Covers for Freezers	Biz-Custom	BSS	RET	$0	$0	$1	$1	$1	$1	$1	$1	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2
1255	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Education	RET	$439	$664	$744	$803	$892	$1,126	$1,375	$1,614	$1,809	$1,926	$1,943	$1,858	$1,687	$1,464	$1,220	$1,334	$1,303	$1,190	$1,094	$1,053
1256	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	$49,203	$74,401	$83,343	$90,035	$99,969	$126,179	$154,100	$180,860	$202,695	$215,839	$217,771	$208,187	$189,101	$164,018	$136,716	$149,520	$146,060	$133,339	$122,638	$118,025
1257	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Health	RET	$448	$677	$759	$820	$910	$1,149	$1,403	$1,647	$1,846	$1,965	$1,983	$1,896	$1,722	$1,493	$1,245	$1,361	$1,330	$1,214	$1,117	$1,075
1258	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	$279	$421	$472	$510	$566	$715	$873	$1,024	$1,148	$1,222	$1,233	$1,179	$1,071	$929	$774	$847	$827	$755	$695	$668
1259	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Office	RET	$6,003	$9,077	$10,168	$10,984	$12,196	$15,394	$18,800	$22,065	$24,729	$26,332	$26,568	$25,398	$23,070	$20,010	$16,679	$18,241	$17,819	$16,267	$14,962	$14,399
1260	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	$6,237	$9,431	$10,564	$11,413	$12,672	$15,994	$19,533	$22,925	$25,693	$27,359	$27,604	$26,389	$23,970	$20,790	$17,330	$18,953	$18,514	$16,902	$15,545	$14,960
1261	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Retail	RET	$12,530	$18,946	$21,223	$22,927	$25,457	$32,132	$39,241	$46,056	$51,616	$54,963	$55,455	$53,015	$48,154	$41,767	$34,815	$38,075	$37,194	$33,955	$31,230	$30,055
1262	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	$514	$777	$871	$941	$1,044	$1,318	$1,610	$1,889	$2,117	$2,255	$2,275	$2,175	$1,975	$1,713	$1,428	$1,562	$1,526	$1,393	$1,281	$1,233
1263	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	$253	$383	$429	$463	$514	$649	$793	$931	$1,043	$1,110	$1,120	$1,071	$973	$844	$703	$769	$751	$686	$631	$607
1264	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Other	RET	$4,607	$6,966	$7,803	$8,430	$9,360	$11,814	$14,428	$16,933	$18,977	$20,208	$20,389	$19,492	$17,705	$15,356	$12,800	$13,999	$13,675	$12,484	$11,482	$11,050
1265	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	BSS	RET	$328	$496	$556	$601	$667	$842	$1,028	$1,206	$1,352	$1,440	$1,452	$1,389	$1,261	$1,094	$912	$997	$974	$889	$818	$787
1266	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Education	ROB	$7	$17	$28	$40	$54	$71	$93	$118	$146	$176	$205	$232	$255	$276	$292	$304	$312	$316	$317	$315
1267	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	ROB	$741	$1,867	$3,138	$4,519	$6,061	$8,012	$10,399	$13,211	$16,376	$19,768	$22,979	$25,952	$28,622	$30,908	$32,758	$34,101	$34,965	$35,407	$35,505	$35,351
1268	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Health	ROB	$7	$17	$29	$41	$55	$73	$95	$120	$149	$180	$209	$236	$261	$281	$298	$310	$318	$322	$323	$322
1269	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	ROB	$4	$11	$18	$26	$34	$45	$59	$75	$93	$112	$130	$147	$162	$175	$186	$193	$198	$201	$201	$200
1270	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Office	ROB	$90	$228	$383	$551	$739	$977	$1,269	$1,612	$1,998	$2,412	$2,803	$3,166	$3,492	$3,771	$3,996	$4,160	$4,266	$4,320	$4,332	$4,313
1271	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	ROB	$94	$237	$398	$573	$768	$1,016	$1,318	$1,675	$2,076	$2,506	$2,913	$3,290	$3,628	$3,918	$4,152	$4,322	$4,432	$4,488	$4,501	$4,481
1272	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Retail	ROB	$189	$476	$799	$1,151	$1,544	$2,040	$2,648	$3,364	$4,170	$5,034	$5,852	$6,609	$7,289	$7,871	$8,342	$8,684	$8,904	$9,016	$9,041	$9,002
1273	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	ROB	$8	$20	$33	$47	$63	$84	$109	$138	$171	$207	$240	$271	$299	$323	$342	$356	$365	$370	$371	$369
1274	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	ROB	$4	$10	$16	$23	$31	$41	$54	$68	$84	$102	$118	$134	$147	$159	$169	$175	$180	$182	$183	$182
1275	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Other	ROB	$69	$175	$294	$423	$568	$750	$974	$1,237	$1,533	$1,851	$2,151	$2,430	$2,680	$2,894	$3,067	$3,193	$3,274	$3,315	$3,324	$3,310
1276	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	BSS	ROB	$5	$12	$21	$30	$40	$53	$69	$88	$109	$132	$153	$173	$191	$206	$218	$227	$233	$236	$237	$236
1277	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Education	ROB	$6	$15	$25	$36	$48	$63	$82	$104	$129	$156	$183	$209	$233	$255	$273	$287	$297	$304	$309	$313
1278	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Sales	ROB	$643	$1,619	$2,721	$3,919	$5,256	$6,948	$9,018	$11,456	$14,201	$17,143	$20,137	$23,034	$25,710	$28,085	$30,129	$31,630	$32,726	$33,536	$34,115	$34,492
1279	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Health	ROB	$6	$16	$27	$39	$53	$70	$91	$115	$143	$172	$202	$231	$258	$282	$303	$318	$329	$337	$343	$347
1280	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Lodging	ROB	$4	$11	$18	$26	$35	$46	$59	$76	$94	$113	$133	$152	$170	$185	$199	$209	$216	$221	$225	$228
1281	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Office	ROB	$87	$220	$370	$534	$716	$946	$1,228	$1,560	$1,934	$2,334	$2,742	$3,136	$3,500	$3,824	$4,102	$4,306	$4,456	$4,566	$4,645	$4,696
1282	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Service	ROB	$94	$237	$398	$573	$768	$1,016	$1,318	$1,675	$2,076	$2,506	$2,943	$3,367	$3,758	$4,105	$4,404	$4,623	$4,784	$4,902	$4,987	$5,042
1283	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Retail	ROB	$191	$480	$807	$1,163	$1,559	$2,061	$2,675	$3,399	$4,213	$5,086	$5,974	$6,833	$7,627	$8,332	$8,938	$9,383	$9,709	$9,949	$10,121	$10,233
1284	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Warehouse	ROB	$8	$20	$33	$48	$64	$85	$110	$139	$173	$209	$245	$280	$313	$342	$367	$385	$398	$408	$415	$420
1285	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Assembly	ROB	$4	$10	$16	$23	$32	$42	$54	$69	$85	$103	$121	$138	$154	$168	$181	$190	$196	$201	$204	$207
1286	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Other	ROB	$65	$163	$273	$393	$528	$698	$905	$1,150	$1,426	$1,721	$2,022	$2,313	$2,581	$2,820	$3,025	$3,176	$3,286	$3,367	$3,425	$3,463
1287	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	BSS	ROB	$5	$12	$21	$30	$40	$52	$68	$86	$107	$129	$152	$174	$194	$212	$227	$239	$247	$253	$257	$260
1288	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Education	ROB	$574	$1,447	$2,431	$3,501	$4,695	$6,206	$8,055	$10,232	$12,683	$15,309	$17,982	$20,568	$22,766	$24,595	$26,091	$27,268	$28,144	$28,696	$28,959	$28,974
1289	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Sales	ROB	$80	$202	$339	$489	$656	$866	$1,125	$1,429	$1,771	$2,137	$2,511	$2,872	$3,178	$3,434	$3,643	$3,807	$3,929	$4,006	$4,043	$4,045
1290	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Health	ROB	$314	$790	$1,328	$1,912	$2,565	$3,390	$4,400	$5,589	$6,928	$8,363	$9,823	$11,235	$12,436	$13,435	$14,252	$14,895	$15,374	$15,675	$15,819	$15,827
1291	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Lodging	ROB	$324	$816	$1,370	$1,974	$2,647	$3,499	$4,541	$5,769	$7,151	$8,631	$10,138	$11,596	$12,835	$13,867	$14,710	$15,374	$15,868	$16,179	$16,327	$16,336
1292	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Office	ROB	$648	$1,633	$2,743	$3,950	$5,299	$7,003	$9,090	$11,547	$14,313	$17,276	$20,293	$23,211	$25,691	$27,756	$29,443	$30,772	$31,761	$32,384	$32,680	$32,697
1293	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Service	ROB	$1,268	$3,195	$5,368	$7,730	$10,369	$13,704	$17,787	$22,595	$28,007	$33,807	$39,709	$45,420	$50,273	$54,313	$57,615	$60,214	$62,149	$63,369	$63,949	$63,983
1294	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Retail	ROB	$557	$1,403	$2,357	$3,395	$4,554	$6,019	$7,812	$9,924	$12,301	$14,848	$17,440	$19,948	$22,080	$23,854	$25,305	$26,446	$27,296	$27,831	$28,086	$28,101
1295	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Warehouse	ROB	$224	$564	$947	$1,364	$1,829	$2,418	$3,138	$3,987	$4,942	$5,965	$7,006	$8,014	$8,870	$9,583	$10,166	$10,625	$10,966	$11,181	$11,283	$11,289
1296	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Assembly	ROB	$207	$521	$876	$1,262	$1,692	$2,237	$2,903	$3,688	$4,571	$5,517	$6,480	$7,412	$8,205	$8,864	$9,403	$9,827	$10,143	$10,342	$10,436	$10,442
1297	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Other	ROB	$495	$1,246	$2,094	$3,016	$4,045	$5,346	$6,939	$8,815	$10,926	$13,189	$15,491	$17,719	$19,612	$21,188	$22,477	$23,491	$24,246	$24,721	$24,948	$24,961
1298	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-BSS	BSS	ROB	$130	$326	$546	$784	$1,049	$1,382	$1,789	$2,266	$2,800	$3,369	$3,945	$4,498	$4,963	$5,346	$5,653	$5,889	$6,059	$6,158	$6,195	$6,178
1299	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Education	ROB	$1,779	$4,476	$7,506	$10,792	$14,451	$19,066	$24,704	$31,327	$38,762	$46,706	$54,763	$62,527	$69,085	$74,503	$78,890	$82,301	$84,792	$86,298	$86,930	$86,818
1300	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Sales	ROB	$42	$105	$176	$253	$338	$446	$578	$733	$908	$1,094	$1,282	$1,464	$1,618	$1,744	$1,847	$1,927	$1,985	$2,021	$2,035	$2,033
1301	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Health	ROB	$688	$1,732	$2,905	$4,176	$5,592	$7,378	$9,560	$12,123	$15,000	$18,074	$21,192	$24,197	$26,735	$28,831	$30,529	$31,849	$32,813	$33,396	$33,641	$33,597
1302	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Lodging	ROB	$745	$1,875	$3,144	$4,520	$6,053	$7,986	$10,347	$13,121	$16,236	$19,563	$22,937	$26,190	$28,936	$31,206	$33,043	$34,472	$35,515	$36,146	$36,411	$36,364
1303	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Office	ROB	$1,297	$3,263	$5,472	$7,867	$10,534	$13,899	$18,009	$22,837	$28,257	$34,048	$39,922	$45,582	$50,362	$54,312	$57,510	$59,997	$61,812	$62,911	$63,371	$63,289
1304	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Service	ROB	$2,099	$5,281	$8,857	$12,734	$17,051	$22,497	$29,149	$36,963	$45,737	$55,110	$64,617	$73,778	$81,516	$87,909	$93,086	$97,110	$100,049	$101,827	$102,572	$102,439
1305	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Retail	ROB	$533	$1,342	$2,251	$3,236	$4,333	$5,716	$7,407	$9,392	$11,621	$14,003	$16,419	$18,746	$20,713	$22,337	$23,652	$24,675	$25,422	$25,873	$26,063	$26,029
1306	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Warehouse	ROB	$698	$1,756	$2,945	$4,235	$5,670	$7,481	$9,694	$12,292	$15,210	$18,327	$21,488	$24,535	$27,108	$29,234	$30,956	$32,294	$33,271	$33,863	$34,111	$34,066
1307	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Assembly	ROB	$545	$1,370	$2,297	$3,303	$4,423	$5,835	$7,561	$9,588	$11,864	$14,295	$16,761	$19,137	$21,144	$22,802	$24,145	$25,189	$25,951	$26,413	$26,606	$26,571
1308	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Other	ROB	$607	$1,527	$2,562	$3,683	$4,931	$6,506	$8,430	$10,690	$13,228	$15,938	$18,688	$21,337	$23,575	$25,424	$26,921	$28,085	$28,935	$29,449	$29,665	$29,626
1309	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-BSS	BSS	ROB	$614	$1,540	$2,574	$3,688	$4,921	$6,470	$8,353	$10,554	$13,012	$15,622	$18,249	$20,758	$22,849	$24,548	$25,894	$26,909	$27,616	$27,996	$28,090	$27,941

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1310	Refrigeration	Commercial Ice Maker	Biz-Custom	Education	ROB	$19	$49	$83	$121	$165	$220	$289	$371	$465	$561	$657	$750	$837	$913	$975	$1,022	$1,055	$1,077	$1,083	$1,080
1311	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Sales	ROB	$3	$7	$12	$17	$23	$31	$40	$51	$65	$78	$91	$104	$116	$127	$135	$142	$146	$149	$150	$150
1312	Refrigeration	Commercial Ice Maker	Biz-Custom	Health	ROB	$9	$23	$40	$58	$78	$105	$137	$177	$221	$267	$312	$357	$398	$434	$464	$486	$502	$512	$515	$514
1313	Refrigeration	Commercial Ice Maker	Biz-Custom	Lodging	ROB	$16	$42	$71	$104	$141	$188	$247	$317	$398	$480	$561	$641	$715	$780	$833	$873	$902	$920	$925	$923
1314	Refrigeration	Commercial Ice Maker	Biz-Custom	Office	ROB	$34	$88	$149	$217	$295	$395	$518	$666	$834	$1,006	$1,178	$1,345	$1,500	$1,636	$1,747	$1,832	$1,892	$1,930	$1,941	$1,936
1315	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Service	ROB	$27	$70	$119	$173	$235	$314	$412	$530	$664	$800	$937	$1,070	$1,193	$1,302	$1,390	$1,458	$1,505	$1,536	$1,545	$1,540
1316	Refrigeration	Commercial Ice Maker	Biz-Custom	Retail	ROB	$12	$31	$53	$78	$105	$141	$185	$237	$297	$359	$420	$480	$535	$583	$623	$653	$674	$688	$692	$690
1317	Refrigeration	Commercial Ice Maker	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1318	Refrigeration	Commercial Ice Maker	Biz-Custom	Assembly	ROB	$8	$20	$34	$49	$67	$89	$117	$150	$188	$227	$266	$304	$339	$369	$395	$414	$427	$436	$438	$437
1319	Refrigeration	Commercial Ice Maker	Biz-Custom	Other	ROB	$20	$51	$86	$126	$171	$229	$300	$386	$483	$583	$683	$779	$869	$948	$1,013	$1,062	$1,096	$1,118	$1,125	$1,122
1320	Refrigeration	Commercial Ice Maker	Biz-Custom	BSS	ROB	$5	$12	$20	$29	$39	$53	$69	$89	$111	$134	$157	$179	$200	$218	$233	$244	$252	$257	$259	$258
1321	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Education	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1322	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Sales	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1323	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Health	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1324	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Lodging	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1325	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Office	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1326	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Service	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1327	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Retail	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1328	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Warehouse	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1329	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Assembly	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1330	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Other	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1331	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	BSS	ROB	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1332	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1333	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1334	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1335	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1336	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1337	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1338	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1339	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1340	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1341	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1342	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1343	Refrigeration	Refrigeration - Custom	Biz-Custom	Education	RET	$1,597	$2,415	$2,705	$2,922	$3,244	$4,094	$5,000	$5,868	$6,575	$7,001	$8,279	$8,592	$8,196	$7,550	$6,912	$6,707	$6,637	$6,658	$6,682	$6,602
1344	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Sales	RET	$4,663	$7,050	$7,897	$8,530	$9,471	$11,953	$14,596	$17,130	$19,196	$20,439	$24,170	$25,084	$23,926	$22,040	$20,179	$19,580	$19,375	$19,437	$19,506	$19,274
1345	Refrigeration	Refrigeration - Custom	Biz-Custom	Health	RET	$2,952	$4,464	$5,000	$5,401	$5,997	$7,568	$9,242	$10,846	$12,155	$12,942	$15,304	$15,883	$15,150	$13,955	$12,777	$12,398	$12,268	$12,307	$12,351	$12,204
1346	Refrigeration	Refrigeration - Custom	Biz-Custom	Lodging	RET	$1,860	$2,812	$3,150	$3,402	$3,778	$4,768	$5,822	$6,833	$7,657	$8,153	$9,641	$10,005	$9,544	$8,791	$8,049	$7,810	$7,728	$7,753	$7,780	$7,688
1347	Refrigeration	Refrigeration - Custom	Biz-Custom	Office	RET	$2,332	$3,526	$3,950	$4,267	$4,737	$5,979	$7,301	$8,568	$9,602	$10,224	$12,090	$12,547	$11,968	$11,024	$10,094	$9,794	$9,691	$9,723	$9,757	$9,641
1348	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Service	RET	$4,618	$6,983	$7,822	$8,449	$9,380	$11,839	$14,457	$16,967	$19,013	$20,245	$23,940	$24,845	$23,699	$21,830	$19,987	$19,394	$19,190	$19,252	$19,320	$19,090
1349	Refrigeration	Refrigeration - Custom	Biz-Custom	Retail	RET	$5,411	$8,181	$9,163	$9,898	$10,990	$13,870	$16,937	$19,877	$22,275	$23,718	$28,047	$29,107	$27,764	$25,575	$23,416	$22,721	$22,482	$22,555	$22,635	$22,365
1350	Refrigeration	Refrigeration - Custom	Biz-Custom	Warehouse	RET	$1,383	$2,092	$2,343	$2,531	$2,810	$3,546	$4,330	$5,082	$5,695	$6,064	$7,171	$7,442	$7,098	$6,539	$5,987	$5,809	$5,748	$5,766	$5,787	$5,718
1351	Refrigeration	Refrigeration - Custom	Biz-Custom	Assembly	RET	$650	$984	$1,102	$1,190	$1,321	$1,668	$2,036	$2,390	$2,678	$2,851	$3,372	$3,499	$3,338	$3,075	$2,815	$2,732	$2,703	$2,712	$2,721	$2,689
1352	Refrigeration	Refrigeration - Custom	Biz-Custom	Other	RET	$2,715	$4,105	$4,598	$4,967	$5,515	$6,960	$8,499	$9,974	$11,178	$11,902	$14,074	$14,606	$13,932	$12,834	$11,750	$11,402	$11,282	$11,318	$11,358	$11,223
1353	Refrigeration	Refrigeration - Custom	Biz-Custom	BSS	RET	$367	$555	$621	$671	$745	$940	$1,148	$1,348	$1,510	$1,608	$1,902	$1,974	$1,882	$1,734	$1,588	$1,541	$1,524	$1,529	$1,535	$1,516
1354	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Education	RET	$3,407	$5,152	$5,771	$6,233	$6,921	$11,219	$14,425	$16,729	$18,579	$19,992	$23,268	$24,952	$25,322	$24,946	$24,097	$24,675	$24,281	$23,180	$21,795	$20,304
1355	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Sales	RET	$9,947	$15,040	$16,847	$18,198	$20,204	$32,752	$42,110	$48,839	$54,240	$58,364	$67,929	$72,844	$73,923	$72,825	$70,348	$72,034	$70,885	$67,670	$63,628	$59,273
1356	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Health	RET	$6,298	$9,523	$10,667	$11,522	$12,793	$20,738	$26,663	$30,923	$34,343	$36,954	$43,011	$46,123	$46,806	$46,111	$44,543	$45,610	$44,882	$42,847	$40,288	$37,531
1357	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Lodging	RET	$3,968	$5,999	$6,720	$7,259	$8,059	$13,064	$16,797	$19,481	$21,635	$23,280	$27,095	$29,056	$29,486	$29,048	$28,060	$28,733	$28,274	$26,992	$25,380	$23,643
1358	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Office	RET	$4,976	$7,523	$8,427	$9,103	$10,106	$16,383	$21,064	$24,429	$27,131	$29,194	$33,978	$36,437	$36,977	$36,427	$35,188	$36,032	$35,457	$33,849	$31,827	$29,649
1359	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Service	RET	$9,852	$14,897	$16,686	$18,024	$20,012	$32,440	$41,709	$48,373	$53,723	$57,808	$67,282	$72,150	$73,219	$72,131	$69,678	$71,348	$70,209	$67,026	$63,022	$58,709
1360	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Retail	RET	$11,543	$17,452	$19,549	$21,116	$23,444	$38,005	$48,865	$56,672	$62,939	$67,725	$78,824	$84,528	$85,779	$84,505	$81,631	$83,587	$82,254	$78,524	$73,833	$68,780
1361	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Warehouse	RET	$2,951	$4,462	$4,998	$5,399	$5,994	$9,716	$12,493	$14,489	$16,091	$17,315	$20,152	$21,611	$21,931	$21,605	$20,870	$21,370	$21,029	$20,076	$18,876	$17,585
1362	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Assembly	RET	$1,388	$2,098	$2,350	$2,539	$2,819	$4,569	$5,875	$6,813	$7,567	$8,142	$9,477	$10,163	$10,313	$10,160	$9,814	$10,049	$9,889	$9,441	$8,877	$8,269
1363	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Other	RET	$5,792	$8,758	$9,810	$10,596	$11,765	$19,071	$24,521	$28,438	$31,583	$33,985	$39,554	$42,416	$43,045	$42,405	$40,963	$41,945	$41,275	$39,404	$37,050	$34,514
1364	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	BSS	RET	$783	$1,183	$1,325	$1,432	$1,590	$2,577	$3,313	$3,842	$4,267	$4,592	$5,344	$5,731	$5,816	$5,730	$5,535	$5,667	$5,577	$5,324	$5,006	$4,663
1365	Ventilation	Demand Controlled Ventilation	Biz-Standard	Education	RET	$128,670	$161,791	$196,839	$230,136	$256,925	$272,524	$273,890	$260,808	$235,963	$203,852	$263,896	$255,058	$251,380	$251,195	$251,076	$247,095	$202,403	$192,886	$174,649	$151,002
1366	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Sales	RET	$10,123	$12,728	$15,486	$18,105	$20,213	$21,440	$21,547	$20,518	$18,564	$16,037	$20,761	$20,066	$19,777	$19,762	$19,753	$19,439	$15,923	$15,175	$13,740	$11,880
1367	Ventilation	Demand Controlled Ventilation	Biz-Standard	Health	RET	$109,348	$137,495	$167,280	$195,578	$218,344	$231,600	$232,761	$221,644	$200,529	$173,241	$224,268	$216,757	$213,632	$213,474	$213,373	$209,990	$172,009	$163,921	$148,423	$128,327
1368	Ventilation	Demand Controlled Ventilation	Biz-Standard	Lodging	RET	$93,175	$113,351	$132,516	$147,931	$156,900	$157,675	$150,133	$135,821	$117,329	$97,401	$146,779	$144,651	$144,533	$144,453	$142,151	$116,431	$110,947	$100,449	$86,842	$72,149
1369	Ventilation	Demand Controlled Ventilation	Biz-Standard	Office	RET	$549,463	$668,444	$781,462	$872,366	$925,262	$929,832	$885,355	$800,953	$691,904	$574,385	$865,572	$853,024	$852,329	$851,856	$838,283	$686,606	$654,271	$592,362	$512,117	$425,473
1370	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Service	RET	$59,582	$72,484	$84,739	$94,597	$100,333	$100,828	$96,005	$86,853	$75,028	$62,285	$93,860	$92,499	$92,424	$92,373	$90,901	$74,453	$70,947	$64,234	$55,532	$46,137
1371	Ventilation	Demand Controlled Ventilation	Biz-Standard	Retail	RET	$242,031	$294,441	$344,224	$384,266	$407,566	$409,579	$389,987	$352,809	$304,775	$253,009	$381,273	$375,746	$375,440	$375,231	$369,253	$302,441	$288,198	$260,927	$225,581	$187,415
1372	Ventilation	Demand Controlled Ventilation	Biz-Standard	Warehouse	RET	$59,752	$72,691	$84,981	$94,867	$100,619	$101,116	$96,279	$87,101	$75,242	$62,462	$94,128	$92,763	$92,688	$92,636	$91,160	$74,666	$71,150	$64,417	$55,691	$46,269
1373	Ventilation	Demand Controlled Ventilation	Biz-Standard	Assembly	RET	$38,755	$47,148	$55,119	$61,531	$65,262	$65,584	$62,447	$56,494	$48,802	$40,513	$61,052	$60,167	$60,118	$60,084	$59,127	$48,429	$46,148	$41,781	$36,121	$30,010
1374	Ventilation	Demand Controlled Ventilation	Biz-Standard	Other	RET	$43,264	$52,632	$61,531	$68,689	$72,854	$73,214	$69,712	$63,066	$54,480	$45,226	$68,154	$67,166	$67,111	$67,074	$66,005	$54,062	$51,516	$46,642	$40,323	$33,501
1375	Ventilation	Demand Controlled Ventilation	Biz-BSS	BSS	RET	$72,950	$0	$0	$0	$0	$0	$0	$0	$0	$0	$52,376	$0	$0	$0	$0	$0	$0	$0	$0	$0
1376	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Education	RET	$152,113	$169,921	$180,345	$181,360	$172,803	$156,438	$135,234	$112,344	$90,302	$70,694	$54,216	$40,931	$30,539	$0	$0	$116,540	$130,346	$138,517	$139,472	$133,062
1377	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Sales	RET	$20,416	$20,528	$19,556	$17,701	$15,299	$12,708	$10,213	$7,994	$6,130	$4,627	$3,452	$0	$0	$0	$0	$15,642	$15,747	$15,020	$13,613	$11,781
1378	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Health	RET	$129,271	$144,404	$153,264	$154,126	$146,854	$132,946	$114,926	$95,474	$76,742	$60,078	$46,075	$34,785	$25,953	$0	$0	$99,040	$110,773	$117,717	$118,529	$113,081
1379	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Lodging	RET	$96,277	$107,549	$114,147	$114,789	$109,373	$99,015	$85,594	$71,106	$57,156	$44,745	$34,315	$25,907	$19,329	$0	$0	$73,762	$82,501	$87,672	$88,277	$84,219
1380	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Office	RET	$718,478	$762,497	$766,724	$730,492	$661,258	$571,582	$474,795	$381,612	$298,724	$229,076	$172,929	$129,014	$0	$0	$0	$550,458	$584,912	$588,894	$561,777	$509,182
1381	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Service	RET	$105,035	$105,609	$100,610	$91,067	$78,711	$65,377	$52,542	$41,126	$31,535	$23,804	$17,757	$0	$0	$0	$0	$80,472	$81,012	$77,275	$70,034	$60,609
1382	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Retail	RET	$247,063	$275,987	$292,919	$294,566	$280,669	$254,088	$219,648	$182,470	$146,670	$114,823	$88,059	$66,481	$49,602	$0	$0	$189,286	$211,710	$224,981	$226,533	$216,121
1383	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Warehouse	RET	$49,393	$55,176	$58,561	$58,890	$56,112	$50,798	$43,913	$36,480	$29,323	$22,956	$17,605	$13,291	$9,917	$0	$0	$37,842	$42,326	$44,979	$45,289	$43,207
1384	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Assembly	RET	$40,046	$44,734	$47,479	$47,746	$45,493	$41,185	$35,602	$29,576	$23,774	$18,611	$14,273	$10,776	$8,040	$0	$0	$30,681	$34,316	$36,467	$36,718	$35,031
1385	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Other	RET	$24,080	$29,318	$34,303	$38,325	$40,683	$40,918	$38,994	$35,307	$30,526	$25,364	$20,391	$15,966	$12,247	$9,247	$6,901	$18,449	$22,490	$26,347	$29,474	$31,327
1386	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-BSS	BSS	RET	$77,647	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$57,023	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1387	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1388	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1389	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1390	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1391	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1392	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1393	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1394	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1395	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1396	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1397	Ventilation	High Volume Low Speed Fan, 20	Biz-BSS	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1398	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Education	RET	$17,909	$20,005	$21,230	$21,348	$20,340	$18,412	$15,915	$13,220	$10,626	$8,318	$19,656	$19,658	$19,357	$15,865	$15,128	$13,706	$11,858	$9,858	$7,930	$6,213
1399	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Sales	RET	$1,409	$1,574	$1,670	$1,680	$1,600	$1,449	$1,252	$1,040	$836	$654	$1,546	$1,547	$1,523	$1,248	$1,190	$1,078	$933	$776	$624	$489
1400	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Health	RET	$15,220	$17,001	$18,042	$18,142	$17,285	$15,647	$13,525	$11,235	$9,030	$7,069	$16,704	$16,706	$16,451	$13,483	$12,857	$11,648	$10,077	$8,378	$6,739	$5,280
1401	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Lodging	RET	$11,335	$12,662	$13,437	$13,512	$12,874	$11,654	$10,073	$8,368	$6,726	$5,265	$12,441	$12,442	$12,252	$10,042	$9,575	$8,675	$7,505	$6,240	$5,019	$3,933
1402	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Office	RET	$66,846	$74,667	$79,242	$79,682	$75,918	$68,723	$59,404	$49,345	$39,661	$31,047	$73,365	$73,373	$72,251	$59,218	$56,467	$51,158	$44,258	$36,795	$29,600	$23,191
1403	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Service	RET	$7,249	$8,097	$8,593	$8,641	$8,232	$7,452	$6,442	$5,351	$4,301	$3,367	$7,956	$7,956	$7,835	$6,421	$6,123	$5,547	$4,799	$3,990	$3,210	$2,515
1404	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Retail	RET	$29,445	$32,890	$34,905	$35,099	$33,441	$30,272	$26,167	$21,736	$17,470	$13,676	$32,316	$32,320	$31,826	$26,085	$24,873	$22,535	$19,495	$16,208	$13,038	$10,215
1405	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Warehouse	RET	$29,077	$32,479	$34,469	$34,661	$33,023	$29,894	$25,840	$21,465	$17,252	$13,505	$31,913	$31,916	$31,428	$25,759	$24,562	$22,253	$19,252	$16,005	$12,875	$10,088
1406	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Assembly	RET	$4,715	$5,267	$5,589	$5,620	$5,355	$4,847	$4,190	$3,480	$2,797	$2,190	$5,175	$5,175	$5,096	$4,177	$3,983	$3,608	$3,122	$2,595	$2,088	$1,636
1407	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Other	RET	$5,263	$5,879	$6,239	$6,274	$5,978	$5,411	$4,677	$3,885	$3,123	$2,445	$5,777	$5,777	$5,689	$4,663	$4,446	$4,028	$3,485	$2,897	$2,331	$1,826
1408	Ventilation	High Volume Low Speed Fan, 22	Biz-BSS	BSS	RET	$8,537	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,159	$0	$0	$0	$0	$0	$0	$0	$0	$0
1409	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Education	RET	$20,992	$23,446	$24,882	$25,018	$23,835	$21,575	$18,648	$15,490	$12,449	$9,745	$23,026	$23,027	$22,673	$18,582	$17,718	$16,051	$13,885	$11,543	$9,285	$7,274
1410	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Sales	RET	$1,651	$1,845	$1,957	$1,968	$1,875	$1,697	$1,467	$1,219	$979	$767	$1,811	$1,812	$1,784	$1,462	$1,394	$1,263	$1,092	$908	$730	$572
1411	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Health	RET	$17,839	$19,925	$21,145	$21,261	$20,256	$18,335	$15,848	$13,164	$10,580	$8,281	$19,568	$19,569	$19,269	$15,792	$15,057	$13,641	$11,800	$9,810	$7,891	$6,182
1412	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Lodging	RET	$13,286	$14,840	$15,748	$15,835	$15,086	$13,656	$11,803	$9,804	$7,879	$6,168	$14,574	$14,574	$14,351	$11,761	$11,214	$10,159	$8,789	$7,306	$5,877	$4,604
1413	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Office	RET	$78,351	$87,513	$92,871	$93,381	$88,964	$80,529	$69,605	$57,816	$46,466	$36,372	$85,943	$85,947	$84,628	$69,358	$66,132	$59,911	$51,827	$43,086	$34,657	$27,152
1414	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Service	RET	$8,496	$9,490	$10,071	$10,126	$9,647	$8,732	$7,548	$6,269	$5,039	$3,944	$9,319	$9,320	$9,177	$7,521	$7,171	$6,497	$5,620	$4,672	$3,758	$2,944
1415	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Retail	RET	$34,513	$38,548	$40,908	$41,133	$39,188	$35,472	$30,660	$25,467	$20,468	$16,021	$37,857	$37,858	$37,278	$30,551	$29,130	$26,390	$22,829	$18,979	$15,266	$11,960
1416	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Warehouse	RET	$34,082	$38,067	$40,397	$40,619	$38,698	$35,029	$30,277	$25,149	$20,212	$15,821	$37,384	$37,386	$36,812	$30,170	$28,766	$26,060	$22,544	$18,742	$15,075	$11,811
1417	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Assembly	RET	$5,526	$6,173	$6,550	$6,586	$6,275	$5,680	$4,909	$4,078	$3,277	$2,565	$6,062	$6,062	$5,969	$4,892	$4,664	$4,226	$3,656	$3,039	$2,444	$1,915
1418	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Other	RET	$6,169	$6,891	$7,313	$7,353	$7,005	$6,341	$5,481	$4,552	$3,659	$2,864	$6,767	$6,767	$6,664	$5,461	$5,207	$4,717	$4,081	$3,392	$2,729	$2,138
1419	Ventilation	High Volume Low Speed Fan, 24	Biz-BSS	BSS	RET	$10,024	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,229	$0	$0	$0	$0	$0	$0	$0	$0	$0
1420	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Education	RET	$80,301	$85,229	$85,710	$81,669	$73,936	$63,916	$53,099	$42,682	$33,415	$25,627	$19,348	$14,436	$0	$0	$0	$61,622	$65,487	$65,940	$62,911	$57,028
1421	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Sales	RET	$6,317	$6,705	$6,743	$6,425	$5,817	$5,028	$4,177	$3,358	$2,629	$2,016	$1,522	$1,136	$0	$0	$0	$4,848	$5,152	$5,188	$4,949	$4,486
1422	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Health	RET	$68,242	$72,431	$72,840	$69,405	$62,834	$54,318	$45,125	$36,273	$28,397	$21,779	$16,443	$12,268	$0	$0	$0	$52,369	$55,653	$56,038	$53,464	$48,464
1423	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Lodging	RET	$50,825	$53,944	$54,249	$51,691	$46,797	$40,455	$33,608	$27,015	$21,150	$16,220	$12,246	$9,137	$0	$0	$0	$39,003	$41,449	$41,736	$39,819	$36,095
1424	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Office	RET	$299,722	$318,117	$319,914	$304,828	$275,967	$238,567	$198,191	$159,311	$124,722	$95,653	$72,216	$53,883	$0	$0	$0	$230,005	$244,429	$246,122	$234,816	$212,857
1425	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Service	RET	$32,501	$34,496	$34,690	$33,055	$29,925	$25,869	$21,491	$17,275	$13,524	$10,372	$7,831	$5,843	$0	$0	$0	$24,941	$26,505	$26,689	$25,463	$23,082
1426	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Retail	RET	$132,023	$140,127	$140,918	$134,273	$121,560	$105,086	$87,301	$70,175	$54,938	$42,134	$31,810	$23,735	$0	$0	$0	$101,314	$107,668	$108,413	$103,433	$93,761
1427	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Warehouse	RET	$32,594	$34,594	$34,789	$33,149	$30,010	$25,943	$21,553	$17,325	$13,563	$10,402	$7,853	$5,860	$0	$0	$0	$25,012	$26,581	$26,765	$25,535	$23,147
1428	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Assembly	RET	$21,140	$22,438	$22,565	$21,501	$19,465	$16,827	$13,979	$11,237	$8,797	$6,747	$5,094	$3,801	$0	$0	$0	$16,223	$17,240	$17,360	$16,562	$15,014
1429	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Other	RET	$23,600	$25,048	$25,190	$24,002	$21,729	$18,784	$15,605	$12,544	$9,820	$7,532	$5,686	$4,243	$0	$0	$0	$18,110	$19,246	$19,379	$18,489	$16,760
1430	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-BSS	BSS	RET	$38,530	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$28,417	$0	$0	$0	$0
1431	Ventilation	Cogged V-Belt	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1432	Ventilation	Cogged V-Belt	Biz-Custom	Food Sales	RET	$224	$226	$215	$195	$330	$303	$268	$229	$305	$269	$231	$165	$220	$194	$167	$119	$159	$140	$121	$86
1433	Ventilation	Cogged V-Belt	Biz-Custom	Health	RET	$3,870	$3,890	$3,704	$3,351	$5,659	$5,182	$4,577	$3,906	$5,205	$4,581	$3,927	$2,796	$3,727	$3,281	$2,814	$2,004	$2,672	$2,354	$2,019	$1,438
1434	Ventilation	Cogged V-Belt	Biz-Custom	Lodging	RET	$2,459	$2,471	$2,353	$2,128	$3,594	$3,290	$2,906	$2,479	$3,303	$2,906	$2,491	$1,773	$2,363	$2,080	$1,784	$1,270	$1,693	$1,491	$1,279	$911
1435	Ventilation	Cogged V-Belt	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1436	Ventilation	Cogged V-Belt	Biz-Custom	Food Service	RET	$1,285	$1,293	$1,232	$1,116	$1,886	$1,729	$1,528	$1,305	$1,741	$1,534	$1,316	$938	$1,252	$1,103	$947	$675	$901	$794	$682	$487
1437	Ventilation	Cogged V-Belt	Biz-Custom	Retail	RET	$5,359	$5,390	$5,136	$4,650	$7,860	$7,203	$6,367	$5,437	$7,252	$6,387	$5,480	$3,905	$5,210	$4,590	$3,940	$2,809	$3,748	$3,304	$2,837	$2,023
1438	Ventilation	Cogged V-Belt	Biz-Custom	Warehouse	RET	$1,081	$1,087	$1,036	$938	$1,585	$1,452	$1,284	$1,096	$1,462	$1,287	$1,104	$787	$1,050	$925	$793	$566	$755	$665	$571	$407
1439	Ventilation	Cogged V-Belt	Biz-Custom	Assembly	RET	$841	$846	$807	$730	$1,235	$1,132	$1,000	$854	$1,140	$1,004	$861	$614	$819	$722	$620	$442	$590	$520	$446	$318
1440	Ventilation	Cogged V-Belt	Biz-Custom	Other	RET	$1,045	$1,051	$1,001	$906	$1,530	$1,402	$1,238	$1,057	$1,409	$1,240	$1,064	$758	$1,010	$890	$763	$544	$725	$639	$548	$391
1441	Ventilation	Cogged V-Belt	Biz-Custom	BSS	RET	$224	$225	$214	$194	$327	$300	$265	$226	$301	$265	$228	$162	$216	$190	$163	$116	$155	$137	$117	$84
1442	Ventilation	Switch Reluctance Motors	Biz-Custom	Education	RET	$259,242	$260,363	$247,756	$223,998	$193,379	$160,431	$128,781	$100,680	$77,106	$58,131	$43,312	$0	$191,995	$192,990	$183,804	$166,323	$143,714	$119,335	$95,878	$75,025
1443	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Sales	RET	$9,877	$9,938	$9,473	$8,580	$7,421	$6,168	$4,960	$3,885	$2,981	$2,252	$1,681	$0	$7,480	$7,534	$7,189	$6,519	$5,644	$4,696	$3,781	$2,964
1444	Ventilation	Switch Reluctance Motors	Biz-Custom	Health	RET	$135,877	$136,465	$129,857	$117,404	$101,356	$84,087	$67,498	$52,769	$40,414	$30,468	$22,701	$0	$100,630	$101,152	$96,337	$87,175	$75,325	$62,547	$50,253	$39,323
1445	Ventilation	Switch Reluctance Motors	Biz-Custom	Lodging	RET	$109,300	$109,785	$104,481	$94,473	$81,569	$67,679	$54,334	$42,483	$32,540	$24,535	$18,283	$0	$81,065	$81,496	$77,627	$70,253	$60,712	$50,419	$40,514	$31,707
1446	Ventilation	Switch Reluctance Motors	Biz-Custom	Office	RET	$967,621	$971,806	$924,750	$836,070	$721,785	$598,809	$480,674	$375,787	$287,798	$216,974	$161,661	$0	$716,619	$720,334	$686,047	$620,799	$536,413	$445,417	$357,865	$280,030
1447	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Service	RET	$56,816	$57,126	$54,422	$49,260	$42,576	$35,364	$28,421	$22,246	$17,058	$12,876	$9,605	$0	$42,684	$42,959	$40,967	$37,118	$32,114	$26,701	$21,481	$16,831
1448	Ventilation	Switch Reluctance Motors	Biz-Custom	Retail	RET	$237,089	$238,349	$227,034	$205,469	$177,563	$147,461	$118,493	$92,733	$71,095	$53,657	$40,021	$0	$177,794	$178,912	$170,586	$154,535	$133,680	$111,129	$89,388	$70,027
1449	Ventilation	Switch Reluctance Motors	Biz-Custom	Warehouse	RET	$47,862	$48,111	$45,822	$41,464	$35,829	$29,751	$23,904	$18,705	$14,339	$10,820	$8,070	$0	$35,840	$36,061	$34,379	$31,140	$26,934	$22,387	$18,005	$14,104
1450	Ventilation	Switch Reluctance Motors	Biz-Custom	Assembly	RET	$37,205	$37,407	$35,635	$32,254	$27,876	$23,153	$18,607	$14,563	$11,167	$8,429	$6,287	$0	$27,938	$28,117	$26,812	$24,292	$21,016	$17,473	$14,056	$11,013
1451	Ventilation	Switch Reluctance Motors	Biz-Custom	Other	RET	$46,354	$46,580	$44,348	$40,117	$34,652	$28,764	$23,103	$18,072	$13,848	$10,446	$7,788	$0	$34,563	$34,763	$33,128	$29,996	$25,934	$21,548	$17,324	$13,564
1452	Ventilation	Switch Reluctance Motors	Biz-Custom	BSS	RET	$9,913	$9,961	$9,483	$8,578	$7,409	$6,150	$4,940	$3,864	$2,961	$2,233	$1,665	$0	$7,389	$7,431	$7,082	$6,412	$5,543	$4,606	$3,703	$2,899
1453	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Education	RET	$153,627	$172,133	$183,250	$184,845	$176,667	$272,733	$265,008	$250,017	$228,798	$202,807	$256,332	$237,062	$215,404	$167,904	$148,903	$188,294	$174,224	$158,384	$123,519	$109,595
1454	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Sales	RET	$11,625	$13,026	$13,867	$13,988	$13,369	$20,639	$20,054	$18,920	$17,314	$15,347	$19,398	$17,939	$16,300	$12,706	$11,268	$14,249	$13,184	$11,985	$9,347	$8,293
1455	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Health	RET	$74,402	$83,364	$88,748	$89,520	$85,560	$132,084	$128,343	$121,083	$110,807	$98,219	$124,142	$114,809	$104,320	$81,316	$72,114	$91,191	$84,377	$76,705	$59,820	$53,077
1456	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Lodging	RET	$69,432	$77,796	$82,820	$83,541	$79,845	$123,263	$119,771	$112,996	$103,406	$91,659	$115,850	$107,141	$97,352	$75,885	$67,297	$85,100	$78,741	$71,582	$55,825	$49,532
1457	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Office	RET	$354,852	$397,596	$423,274	$426,959	$408,069	$629,965	$612,121	$577,496	$528,483	$468,449	$592,083	$547,572	$497,545	$387,828	$343,940	$434,926	$402,427	$365,840	$285,306	$253,144
1458	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Service	RET	$54,108	$60,626	$64,542	$65,103	$62,223	$96,058	$93,337	$88,058	$80,584	$71,430	$90,282	$83,495	$75,866	$59,137	$52,445	$66,318	$61,363	$55,784	$43,504	$38,600
1459	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Retail	RET	$185,548	$207,899	$221,326	$223,252	$213,375	$329,402	$320,072	$301,967	$276,338	$244,947	$309,594	$286,320	$260,161	$202,791	$179,843	$227,419	$210,425	$191,294	$149,184	$132,366
1460	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Warehouse	RET	$61,641	$69,067	$73,527	$74,167	$70,886	$109,432	$106,332	$100,317	$91,803	$81,374	$102,851	$95,119	$86,429	$67,370	$59,746	$75,551	$69,906	$63,550	$49,561	$43,974
1461	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Assembly	RET	$60,655	$67,962	$72,351	$72,981	$69,752	$107,681	$104,631	$98,712	$90,335	$80,073	$101,206	$93,597	$85,046	$66,292	$58,790	$74,343	$68,788	$62,534	$48,768	$43,270
1462	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Other	RET	$73,400	$82,242	$87,553	$88,315	$84,408	$130,307	$126,616	$119,453	$109,315	$96,897	$122,471	$113,264	$102,916	$80,221	$71,143	$89,963	$83,241	$75,673	$59,015	$52,362
1463	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	BSS	RET	$15,623	$17,505	$18,636	$18,798	$17,966	$27,736	$26,950	$25,426	$23,268	$20,625	$26,068	$24,108	$21,906	$17,075	$15,143	$19,149	$17,718	$16,107	$12,561	$11,145

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1464	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Education	RET	$360,318	$361,876	$344,354	$311,331	$268,775	$222,981	$178,991	$139,934	$107,169	$80,796	$60,198	$0	$0	$0	$0	$271,084	$272,552	$259,639	$235,001	$203,105
1465	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Sales	RET	$27,266	$27,384	$26,058	$23,560	$20,339	$16,874	$13,545	$10,589	$8,110	$6,114	$4,555	$0	$0	$0	$0	$20,514	$20,625	$19,648	$17,783	$15,370
1466	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Health	RET	$174,502	$175,256	$166,770	$150,778	$130,167	$107,990	$86,685	$67,770	$51,902	$39,129	$29,154	$0	$0	$0	$0	$131,286	$131,997	$125,743	$113,811	$98,364
1467	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Lodging	RET	$162,847	$163,551	$155,632	$140,707	$121,474	$100,777	$80,896	$63,244	$48,435	$36,516	$27,207	$0	$0	$0	$0	$122,517	$123,181	$117,345	$106,210	$91,794
1468	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Office	RET	$832,270	$835,869	$795,396	$719,120	$620,822	$515,047	$413,437	$323,222	$247,541	$186,624	$139,048	$0	$0	$0	$0	$626,157	$629,547	$599,721	$542,811	$469,137
1469	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Service	RET	$126,906	$127,455	$121,283	$109,653	$94,664	$78,535	$63,042	$49,285	$37,745	$28,457	$21,202	$0	$0	$0	$0	$95,477	$95,994	$91,446	$82,769	$71,535
1470	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Retail	RET	$435,186	$437,068	$415,904	$376,021	$324,621	$269,313	$216,182	$169,009	$129,437	$97,584	$72,707	$0	$0	$0	$0	$327,411	$329,184	$313,588	$283,830	$245,307
1471	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Warehouse	RET	$144,574	$145,199	$138,169	$124,919	$107,843	$89,469	$71,818	$56,147	$43,000	$32,419	$24,154	$0	$0	$0	$0	$108,770	$109,359	$104,178	$94,292	$81,494
1472	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Assembly	RET	$142,262	$142,877	$135,958	$122,921	$106,118	$88,038	$70,670	$55,249	$42,313	$31,900	$23,768	$0	$0	$0	$0	$107,030	$107,610	$102,511	$92,784	$80,190
1473	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Other	RET	$172,153	$172,897	$164,525	$148,748	$128,415	$106,536	$85,518	$66,858	$51,203	$38,603	$28,762	$0	$0	$0	$0	$129,519	$130,220	$124,051	$112,279	$97,040
1474	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	BSS	RET	$36,643	$36,802	$35,020	$31,661	$27,334	$22,677	$18,203	$14,231	$10,899	$8,217	$6,122	$0	$0	$0	$0	$27,568	$27,718	$26,405	$23,899	$20,655
1475	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1476	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1477	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1478	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Lodging	RET	$255,698	$321,868	$392,027	$458,854	$512,844	$544,599	$547,956	$522,388	$473,174	$409,264	$340,180	$273,592	$214,305	$164,447	$124,222	$289,526	$248,032	$302,487	$354,510	$396,741
1479	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1480	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1481	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1482	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1483	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1484	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1485	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1486	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Education	RET	$246,879	$310,327	$377,428	$441,128	$492,313	$522,026	$524,464	$499,242	$451,525	$389,943	$323,621	$259,870	$203,239	$155,709	$117,434	$87,530	$0	$0	$0	$0
1487	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Sales	RET	$2,542	$3,195	$3,886	$4,542	$5,069	$5,375	$5,400	$5,140	$4,649	$4,015	$3,332	$2,676	$2,092	$1,603	$1,209	$901	$0	$0	$0	$0
1488	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Health	RET	$119,563	$150,291	$182,788	$213,638	$238,427	$252,817	$253,997	$241,782	$218,673	$188,849	$156,729	$125,855	$98,428	$75,410	$56,873	$42,391	$0	$0	$0	$0
1489	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Lodging	RET	$35,821	$43,564	$50,913	$56,816	$60,241	$60,518	$57,604	$52,095	$44,986	$37,332	$29,976	$23,442	$17,958	$13,543	$10,093	$0	$0	$0	$0	$0
1490	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Office	RET	$435,186	$529,250	$618,531	$690,253	$731,862	$735,228	$699,820	$632,887	$546,530	$453,543	$364,171	$284,789	$218,171	$164,530	$122,623	$0	$0	$0	$0	$0
1491	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Service	RET	$49,724	$60,472	$70,673	$78,868	$83,622	$84,007	$79,961	$72,314	$62,446	$51,822	$41,610	$32,540	$24,928	$18,799	$14,011	$0	$0	$0	$0	$0
1492	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Retail	RET	$84,063	$102,233	$119,479	$133,333	$141,371	$142,021	$135,181	$122,252	$105,571	$87,609	$70,346	$55,012	$42,143	$31,782	$23,687	$0	$0	$0	$0	$0
1493	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Warehouse	RET	$23,018	$27,994	$32,716	$36,510	$38,711	$38,889	$37,016	$33,476	$28,908	$23,989	$19,262	$15,063	$11,540	$8,703	$6,486	$0	$0	$0	$0	$0
1494	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Assembly	RET	$33,369	$40,581	$47,427	$52,926	$56,117	$56,375	$53,660	$48,528	$41,906	$34,776	$27,924	$21,837	$16,729	$12,616	$9,402	$0	$0	$0	$0	$0
1495	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Other	RET	$51,393	$62,501	$73,045	$81,514	$86,428	$86,826	$82,644	$74,740	$64,542	$53,561	$43,006	$33,632	$25,765	$19,430	$14,481	$0	$0	$0	$0	$0
1496	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	BSS	RET	$8,845	$10,757	$12,571	$14,029	$14,875	$14,943	$14,224	$12,863	$11,108	$9,218	$7,402	$5,788	$4,434	$3,344	$2,492	$0	$0	$0	$0	$0
1497	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Education	RET	$63,182	$79,536	$96,877	$113,396	$126,744	$134,598	$135,434	$129,120	$116,961	$101,168	$131,128	$126,894	$125,220	$125,286	$125,385	$123,555	$101,337	$96,698	$87,670	$75,899
1498	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Sales	RET	$4,781	$6,019	$7,331	$8,581	$9,591	$10,185	$10,249	$9,771	$8,851	$7,656	$9,923	$9,602	$9,476	$9,481	$9,488	$9,350	$7,669	$7,317	$6,634	$5,744
1499	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Health	RET	$30,599	$38,519	$46,918	$54,918	$61,382	$65,186	$65,590	$62,533	$56,644	$48,996	$63,505	$61,454	$60,644	$60,676	$60,724	$59,837	$49,078	$46,831	$42,458	$36,758
1500	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Lodging	RET	$28,556	$35,947	$43,784	$51,250	$57,283	$60,832	$61,210	$58,356	$52,861	$45,723	$59,264	$57,350	$56,594	$56,623	$56,668	$55,841	$45,800	$43,703	$39,623	$34,303
1501	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Office	RET	$145,940	$183,715	$223,769	$261,925	$292,757	$310,898	$312,828	$298,244	$270,159	$233,680	$302,882	$293,102	$289,236	$289,387	$289,617	$285,389	$234,071	$223,355	$202,501	$175,313
1502	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Service	RET	$22,253	$28,013	$34,121	$39,939	$44,640	$47,406	$47,701	$45,477	$41,194	$35,632	$46,184	$44,693	$44,103	$44,126	$44,161	$43,517	$35,692	$34,058	$30,878	$26,732
1503	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Retail	RET	$76,311	$96,063	$117,007	$136,958	$153,080	$162,565	$163,575	$155,949	$141,263	$122,189	$158,374	$153,260	$151,239	$151,318	$151,438	$149,227	$122,394	$116,790	$105,886	$91,670
1504	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Warehouse	RET	$25,351	$31,913	$38,871	$45,499	$50,855	$54,006	$54,342	$51,808	$46,929	$40,593	$52,614	$50,915	$50,243	$50,270	$50,309	$49,575	$40,661	$38,799	$35,177	$30,454
1505	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Assembly	RET	$24,946	$31,403	$38,249	$44,771	$50,042	$53,142	$53,472	$50,979	$46,179	$39,943	$51,772	$50,100	$49,440	$49,466	$49,505	$48,782	$40,010	$38,179	$34,614	$29,967
1506	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Other	RET	$30,187	$38,001	$46,286	$54,179	$60,556	$64,308	$64,708	$61,691	$55,882	$48,336	$62,650	$60,627	$59,828	$59,859	$59,906	$59,032	$48,417	$46,200	$41,887	$36,263
1507	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	BSS	RET	$6,425	$8,089	$9,852	$11,532	$12,890	$13,688	$13,773	$13,131	$11,895	$10,288	$13,335	$12,905	$12,735	$12,741	$12,751	$12,565	$10,306	$9,834	$8,916	$7,719
1508	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Education	RET	$49,376	$62,065	$75,486	$88,226	$98,463	$104,405	$104,893	$99,848	$90,305	$77,989	$64,724	$51,974	$40,648	$31,142	$23,487	$17,506	$0	$0	$0	$0
1509	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Sales	RET	$3,736	$4,697	$5,712	$6,676	$7,451	$7,901	$7,938	$7,556	$6,834	$5,902	$4,898	$3,933	$3,076	$2,357	$1,777	$1,325	$0	$0	$0	$0
1510	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Health	RET	$10,405	$13,152	$16,086	$18,908	$21,221	$22,630	$22,867	$21,892	$19,915	$17,298	$14,440	$11,664	$9,176	$7,071	$5,365	$4,022	$0	$0	$0	$0
1511	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Lodging	RET	$10,253	$12,953	$15,835	$18,602	$20,867	$22,242	$22,462	$21,494	$19,542	$16,966	$14,155	$11,427	$8,985	$6,921	$5,248	$3,933	$0	$0	$0	$0
1512	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Office	RET	$85,691	$107,867	$131,380	$153,776	$171,871	$182,514	$183,640	$175,072	$158,579	$137,161	$114,009	$91,693	$71,823	$55,114	$41,633	$31,081	$0	$0	$0	$0
1513	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Service	RET	$17,296	$21,742	$26,444	$30,908	$34,495	$36,578	$36,749	$34,983	$31,640	$27,326	$22,679	$18,212	$14,243	$10,913	$8,230	$6,135	$0	$0	$0	$0
1514	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Retail	RET	$59,635	$74,961	$91,170	$106,557	$118,921	$126,099	$126,688	$120,595	$109,069	$94,193	$78,173	$62,773	$49,094	$37,612	$28,367	$21,143	$0	$0	$0	$0
1515	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Warehouse	RET	$24,926	$30,314	$35,428	$39,536	$41,919	$42,112	$40,084	$36,250	$31,304	$25,978	$20,859	$16,312	$12,496	$9,424	$7,024	$0	$0	$0	$0	$0
1516	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Assembly	RET	$19,495	$24,505	$29,803	$34,833	$38,875	$41,222	$41,414	$39,422	$35,654	$30,792	$25,555	$20,521	$16,049	$12,295	$9,273	$6,912	$0	$0	$0	$0
1517	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Other	RET	$29,681	$36,097	$42,186	$47,078	$49,915	$50,145	$47,730	$43,165	$37,275	$30,933	$24,838	$19,424	$14,880	$11,222	$8,363	$0	$0	$0	$0	$0
1518	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	BSS	RET	$6,318	$7,683	$8,979	$10,021	$10,625	$10,673	$10,159	$9,188	$7,934	$6,584	$5,287	$4,134	$3,167	$2,389	$1,780	$0	$0	$0	$0	$0
1519	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Education	RET	$20,536	$22,711	$28,549	$34,725	$40,588	$45,301	$48,038	$48,266	$45,948	$41,559	$35,894	$29,791	$23,924	$18,712	$14,337	$10,814	$8,061	$0	$0	$0
1520	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Sales	RET	$4,241	$4,690	$5,895	$7,170	$8,381	$9,354	$9,920	$9,967	$9,488	$8,582	$7,412	$6,152	$4,940	$3,864	$2,961	$2,233	$1,664	$0	$0	$0
1521	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Health	RET	$7,979	$8,824	$11,092	$13,492	$15,770	$17,601	$18,664	$18,753	$17,852	$16,147	$13,946	$11,575	$9,295	$7,270	$5,570	$4,201	$3,132	$0	$0	$0
1522	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Lodging	RET	$7,867	$8,700	$10,936	$13,302	$15,548	$17,353	$18,401	$18,489	$17,601	$15,920	$13,749	$11,412	$9,164	$7,168	$5,492	$4,142	$3,088	$0	$0	$0
1523	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Office	RET	$41,656	$46,067	$57,910	$70,437	$82,330	$91,889	$97,442	$97,904	$93,202	$84,300	$72,808	$60,429	$48,529	$37,956	$29,082	$21,935	$16,351	$0	$0	$0
1524	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Service	RET	$8,944	$9,891	$12,434	$15,124	$17,678	$19,730	$20,922	$21,022	$20,012	$18,101	$15,633	$12,975	$10,420	$8,150	$6,244	$4,710	$3,511	$0	$0	$0
1525	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Retail	RET	$27,042	$29,905	$37,593	$45,725	$53,446	$59,652	$63,256	$63,556	$60,504	$54,725	$47,265	$39,229	$31,504	$24,640	$18,879	$14,240	$10,614	$0	$0	$0
1526	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Warehouse	RET	$9,175	$10,146	$12,755	$15,514	$18,134	$20,239	$21,462	$21,564	$20,528	$18,568	$16,036	$13,310	$10,689	$8,360	$6,405	$4,831	$3,601	$0	$0	$0
1527	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Assembly	RET	$6,097	$6,743	$8,476	$10,309	$12,050	$13,449	$14,262	$14,330	$13,641	$12,339	$10,656	$8,845	$7,103	$5,555	$4,257	$3,210	$2,393	$0	$0	$0
1528	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Other	RET	$36,795	$40,691	$51,152	$62,217	$72,722	$81,166	$86,071	$86,479	$82,326	$74,463	$64,312	$53,378	$42,866	$33,527	$25,688	$19,375	$14,442	$0	$0	$0
1529	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	BSS	RET	$7,832	$8,661	$10,888	$13,243	$15,479	$17,276	$18,320	$18,407	$17,523	$15,850	$13,689	$11,362	$9,124	$7,136	$5,468	$4,124	$3,074	$0	$0	$0
1530	WholeBldg	WholeBlg - Com RET	Biz-Custom	Education	RET	$146,687	$162,219	$203,922	$248,033	$289,914	$323,576	$343,129	$344,756	$328,200	$296,853	$256,385	$212,794	$170,888	$133,658	$102,408	$93,007	$75,030	$21,965	$26,746	$31,297
1531	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Sales	RET	$30,290	$33,497	$42,109	$51,218	$59,866	$66,817	$70,855	$71,191	$67,772	$61,299	$52,942	$43,941	$35,288	$27,600	$21,147	$19,206	$15,493	$4,536	$5,523	$6,463
1532	WholeBldg	WholeBlg - Com RET	Biz-Custom	Health	RET	$56,992	$63,027	$79,230	$96,369	$112,641	$125,719	$133,316	$133,948	$127,516	$115,336	$99,613	$82,677	$66,395	$51,930	$39,789	$36,136	$29,152	$8,534	$10,392	$12,160
1533	WholeBldg	WholeBlg - Com RET	Biz-Custom	Lodging	RET	$56,190	$62,139	$78,114	$95,012	$111,055	$123,949	$131,439	$132,062	$125,720	$113,712	$98,211	$81,513	$65,460	$51,199	$39,228	$35,627	$28,741	$8,414	$10,245	$11,989
1534	WholeBldg	WholeBlg - Com RET	Biz-Custom	Office	RET	$297,544	$329,050	$413,642	$503,118	$588,071	$656,352	$696,015	$699,314	$665,731	$602,145	$520,058	$431,639	$346,635	$271,116	$207,728	$188,658	$152,193	$44,555	$54,252	$63,484
1535	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Service	RET	$63,888	$70,653	$88,816	$108,028	$126,269	$140,930	$149,446	$150,155	$142,944	$129,291	$111,665	$92,680	$74,428	$58,213	$44,603	$40,508	$32,679	$9,567	$11,649	$13,631
1536	WholeBldg	WholeBlg - Com RET	Biz-Custom	Retail	RET	$193,156	$213,609	$268,524	$326,609	$381,758	$426,084	$451,832	$453,974	$432,173	$390,895	$337,607	$280,207	$225,025	$176,000	$134,851	$122,471	$98,799	$28,924	$35,219	$41,212
1537	WholeBldg	WholeBlg - Com RET	Biz-Custom	Warehouse	RET	$65,536	$72,475	$91,107	$110,815	$129,526	$144,565	$153,301	$154,028	$146,631	$132,626	$114,546	$95,071	$76,348	$59,715	$45,753	$41,553	$33,521	$9,813	$11,949	$13,983
1538	WholeBldg	WholeBlg - Com RET	Biz-Custom	Assembly	RET	$43,550	$48,161	$60,542	$73,638	$86,072	$96,066	$101,871	$102,354	$97,439	$88,132	$76,118	$63,176	$50,735	$39,682	$30,404	$27,613	$22,276	$6,521	$7,941	$9,292
1539	WholeBldg	WholeBlg - Com RET	Biz-Custom	Other	RET	$262,822	$290,651	$365,372	$444,407	$519,446	$579,759	$614,793	$617,707	$588,043	$531,878	$459,370	$381,268	$306,184	$239,478	$183,487	$166,643	$134,433	$39,355	$47,921	$56,076
1540	WholeBldg	WholeBlg - Com RET	Biz-Custom	BSS	RET	$55,942	$61,866	$77,771	$94,593	$110,566	$123,403	$130,860	$131,481	$125,167	$113,212	$97,778	$81,154	$65,172	$50,974	$39,056	$35,470	$28,614	$8,377	$10,200	$11,936

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1541	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Education	RET	$89,196	$94,554	$94,969	$90,377	$81,716	$70,551	$58,534	$46,990	$36,739	$28,139	$21,216	$15,808	$0	$0	$0	$67,107	$71,215	$71,606	$68,219	$61,750
1542	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Sales	RET	$18,419	$19,525	$19,611	$18,662	$16,874	$14,568	$12,087	$9,703	$7,586	$5,811	$4,381	$3,264	$0	$0	$0	$13,857	$14,705	$14,786	$14,087	$12,751
1543	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Health	RET	$34,656	$36,737	$36,898	$35,114	$31,749	$27,411	$22,742	$18,257	$14,274	$10,933	$8,243	$6,142	$0	$0	$0	$26,073	$27,669	$27,821	$26,505	$23,992
1544	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Lodging	RET	$34,168	$36,220	$36,379	$34,620	$31,302	$27,025	$22,422	$18,000	$14,073	$10,779	$8,127	$6,056	$0	$0	$0	$25,706	$27,279	$27,429	$26,132	$23,654
1545	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Office	RET	$180,929	$191,796	$192,638	$183,323	$165,754	$143,107	$118,733	$95,316	$74,522	$57,078	$43,034	$32,066	$0	$0	$0	$136,121	$144,454	$145,248	$138,377	$125,256
1546	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Service	RET	$38,848	$41,182	$41,363	$39,363	$35,590	$30,727	$25,494	$20,466	$16,001	$12,256	$9,240	$6,885	$0	$0	$0	$29,228	$31,017	$31,187	$29,712	$26,895
1547	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Retail	RET	$117,453	$124,508	$125,055	$119,008	$107,603	$92,901	$77,078	$61,876	$48,378	$37,053	$27,937	$20,816	$0	$0	$0	$88,366	$93,775	$94,290	$89,830	$81,312
1548	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Warehouse	RET	$39,851	$42,244	$42,430	$40,378	$36,508	$31,520	$26,152	$20,994	$16,414	$12,572	$9,479	$7,063	$0	$0	$0	$29,981	$31,817	$31,992	$30,478	$27,588
1549	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Assembly	RET	$26,481	$28,072	$28,195	$26,832	$24,260	$20,946	$17,378	$13,951	$10,907	$8,354	$6,299	$4,693	$0	$0	$0	$19,923	$21,143	$21,259	$20,253	$18,333
1550	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Other	RET	$159,815	$169,414	$170,158	$161,930	$146,412	$126,407	$104,877	$84,193	$65,826	$50,417	$38,013	$28,324	$0	$0	$0	$120,236	$127,597	$128,298	$122,229	$110,639
1551	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	BSS	RET	$34,017	$36,060	$36,219	$34,467	$31,164	$26,906	$22,323	$17,921	$14,011	$10,731	$8,091	$6,029	$0	$0	$0	$25,593	$27,159	$27,309	$26,017	$23,550
1552	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Education	NEW	$106,256	$173,570	$80,176	$82,805	$38,174	$93,444	$53,058	$123,094	$126,396	$161,884	$60,584	$148,907	$161,764	$162,496	$70,340	$140,047	$153,396	$203,298	$170,831	$176,305
1553	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Sales	NEW	$21,941	$35,841	$16,556	$17,099	$7,883	$19,296	$10,956	$25,418	$26,100	$33,428	$12,510	$30,749	$33,403	$33,555	$14,525	$28,919	$31,676	$41,980	$35,276	$36,406
1554	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Health	NEW	$41,284	$67,437	$31,151	$32,172	$14,832	$36,306	$20,615	$47,826	$49,109	$62,897	$23,539	$57,855	$62,850	$63,135	$27,329	$54,412	$59,599	$78,988	$66,373	$68,500
1555	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Lodging	NEW	$40,703	$66,488	$30,712	$31,719	$14,623	$35,795	$20,325	$47,153	$48,417	$62,011	$23,207	$57,040	$61,965	$62,246	$26,944	$53,646	$58,760	$77,875	$65,438	$67,536
1556	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Office	NEW	$215,534	$352,074	$162,631	$167,965	$77,433	$189,544	$107,625	$249,689	$256,386	$328,371	$122,890	$302,048	$328,126	$329,613	$142,680	$284,075	$311,154	$412,376	$346,519	$357,623
1557	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Service	NEW	$46,279	$75,596	$34,920	$36,065	$16,626	$40,698	$23,109	$53,612	$55,050	$70,507	$26,387	$64,855	$70,454	$70,774	$30,636	$60,996	$66,810	$88,544	$74,403	$76,788
1558	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Retail	NEW	$139,918	$228,556	$105,575	$109,038	$50,267	$123,046	$69,867	$162,090	$166,438	$213,169	$79,777	$196,081	$213,010	$213,975	$92,624	$184,413	$201,992	$267,702	$224,950	$232,159
1559	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Warehouse	NEW	$47,472	$77,546	$35,820	$36,995	$17,055	$41,748	$23,705	$54,995	$56,470	$72,325	$27,067	$66,528	$72,272	$72,599	$31,426	$62,569	$68,533	$90,828	$76,323	$78,769
1560	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Assembly	NEW	$31,546	$51,531	$23,803	$24,584	$11,333	$27,742	$15,752	$36,545	$37,526	$48,062	$17,987	$44,209	$48,026	$48,243	$20,883	$41,578	$45,542	$60,357	$50,718	$52,343
1561	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Other	NEW	$190,382	$310,989	$143,653	$148,364	$68,397	$167,425	$95,066	$220,551	$226,467	$290,052	$108,550	$266,801	$289,836	$291,149	$126,030	$250,925	$274,844	$364,254	$306,082	$315,890
1562	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	BSS	NEW	$40,523	$66,195	$30,577	$31,580	$14,558	$35,637	$20,235	$46,945	$48,204	$61,738	$23,105	$56,789	$61,692	$61,972	$26,826	$53,410	$58,501	$77,532	$65,150	$67,238
1563	WholeBldg	COM Competitions	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1564	WholeBldg	COM Competitions	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1565	WholeBldg	COM Competitions	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1566	WholeBldg	COM Competitions	Biz-Custom	Lodging	RET	$70	$106	$170	$206	$267	$332	$418	$506	$601	$686	$759	$807	$833	$831	$809	$769	$717	$658	$596	$534
1567	WholeBldg	COM Competitions	Biz-Custom	Office	RET	$247	$376	$601	$730	$945	$1,176	$1,480	$1,790	$2,128	$2,427	$2,687	$2,858	$2,949	$2,943	$2,866	$2,721	$2,540	$2,329	$2,111	$1,890
1568	WholeBldg	COM Competitions	Biz-Custom	Food Service	RET	$12	$18	$29	$35	$46	$57	$72	$87	$103	$117	$130	$138	$143	$142	$139	$132	$123	$113	$102	$91
1569	WholeBldg	COM Competitions	Biz-Custom	Retail	RET	$144	$219	$351	$426	$552	$687	$864	$1,046	$1,243	$1,418	$1,570	$1,670	$1,723	$1,719	$1,674	$1,590	$1,484	$1,361	$1,233	$1,104
1570	WholeBldg	COM Competitions	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1571	WholeBldg	COM Competitions	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1572	WholeBldg	COM Competitions	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1573	WholeBldg	COM Competitions	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1574	WholeBldg	Business Energy Reports	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1575	WholeBldg	Business Energy Reports	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1576	WholeBldg	Business Energy Reports	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1577	WholeBldg	Business Energy Reports	Biz-Custom	Lodging	RET	$33	$50	$80	$96	$124	$153	$191	$229	$271	$306	$337	$355	$364	$361	$349	$329	$304	$277	$249	$222
1578	WholeBldg	Business Energy Reports	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1579	WholeBldg	Business Energy Reports	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1580	WholeBldg	Business Energy Reports	Biz-Custom	Retail	RET	$48	$72	$114	$138	$177	$219	$274	$329	$388	$439	$483	$509	$522	$517	$500	$471	$437	$397	$358	$318
1581	WholeBldg	Business Energy Reports	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1582	WholeBldg	Business Energy Reports	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1583	WholeBldg	Business Energy Reports	Biz-Custom	Other	RET	$137	$206	$327	$394	$507	$626	$782	$939	$1,109	$1,255	$1,380	$1,456	$1,492	$1,478	$1,429	$1,347	$1,248	$1,136	$1,022	$908
1584	WholeBldg	Business Energy Reports	Biz-Custom	BSS	RET	$29	$44	$70	$84	$108	$133	$167	$200	$236	$267	$294	$310	$318	$315	$304	$287	$266	$242	$218	$193
1585	WholeBldg	Building Benchmarking	Biz-Custom	Education	RET	$106	$159	$253	$305	$392	$484	$604	$725	$855	$967	$1,063	$1,121	$1,148	$1,137	$1,099	$1,035	$959	$872	$785	$697
1586	WholeBldg	Building Benchmarking	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1587	WholeBldg	Building Benchmarking	Biz-Custom	Health	RET	$14	$22	$35	$42	$54	$66	$83	$99	$117	$133	$146	$154	$157	$156	$151	$142	$131	$120	$108	$96
1588	WholeBldg	Building Benchmarking	Biz-Custom	Lodging	RET	$19	$29	$46	$55	$71	$88	$110	$132	$155	$176	$193	$204	$209	$207	$200	$188	$174	$159	$143	$127
1589	WholeBldg	Building Benchmarking	Biz-Custom	Office	RET	$176	$266	$422	$509	$654	$807	$1,008	$1,209	$1,427	$1,614	$1,774	$1,872	$1,916	$1,897	$1,834	$1,728	$1,600	$1,456	$1,309	$1,163
1590	WholeBldg	Building Benchmarking	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1591	WholeBldg	Building Benchmarking	Biz-Custom	Retail	RET	$178	$268	$426	$513	$660	$815	$1,017	$1,221	$1,440	$1,630	$1,790	$1,889	$1,935	$1,915	$1,851	$1,744	$1,615	$1,470	$1,322	$1,174
1592	WholeBldg	Building Benchmarking	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1593	WholeBldg	Building Benchmarking	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1594	WholeBldg	Building Benchmarking	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1595	WholeBldg	Building Benchmarking	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1596	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Education	RET	$19,613	$18,674	$16,893	$14,592	$12,113	$23,812	$21,024	$17,971	$14,889	$11,991	$17,131	$15,131	$12,939	$10,724	$8,640	$12,349	$10,912	$9,335	$7,740	$6,239
1597	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1598	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Health	RET	$652	$721	$907	$1,104	$1,291	$1,910	$2,048	$2,190	$2,259	$2,255	$2,521	$2,426	$2,342	$2,226	$2,084	$2,164	$2,008	$1,690	$1,607	$1,505
1599	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1600	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Office	RET	$4,880	$5,449	$5,867	$6,494	$8,169	$13,448	$15,547	$17,210	$18,459	$19,742	$22,887	$23,149	$22,730	$21,883	$21,129	$21,902	$20,838	$19,527	$18,129	$15,256
1601	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1602	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1603	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1604	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1605	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1606	WholeBldg	Strategic Energy Management	Biz-Custom SEM	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1607	WholeBldg	BEIMS	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1608	WholeBldg	BEIMS	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1609	WholeBldg	BEIMS	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1610	WholeBldg	BEIMS	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1611	WholeBldg	BEIMS	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1612	WholeBldg	BEIMS	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1613	WholeBldg	BEIMS	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1614	WholeBldg	BEIMS	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1615	WholeBldg	BEIMS	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1616	WholeBldg	BEIMS	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1617	WholeBldg	BEIMS	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1618	WholeBldg	Building Operator Certification	Biz-Custom	Education	RET	$2,794	$3,134	$3,995	$6,995	$8,160	$9,568	$12,287	$13,283	$14,073	$15,506	$15,447	$15,142	$15,325	$14,486	$13,580	$13,159	$12,095	$10,057	$9,746	$8,958
1619	WholeBldg	Building Operator Certification	Biz-Custom	Food Sales	RET	$144	$220	$249	$379	$469	$575	$762	$919	$1,073	$1,262	$1,391	$1,482	$1,566	$1,584	$1,564	$1,540	$1,476	$1,394	$1,322	$1,230
1620	WholeBldg	Building Operator Certification	Biz-Custom	Health	RET	$594	$909	$1,029	$1,564	$1,934	$2,371	$3,144	$3,787	$4,422	$5,197	$5,729	$6,100	$6,441	$6,515	$6,431	$6,330	$6,063	$5,726	$5,426	$5,049
1621	WholeBldg	Building Operator Certification	Biz-Custom	Lodging	RET	$654	$999	$1,130	$1,717	$2,122	$2,599	$3,444	$4,147	$4,839	$5,683	$6,261	$6,662	$7,031	$7,107	$7,011	$6,898	$6,603	$6,232	$5,903	$5,490
1622	WholeBldg	Building Operator Certification	Biz-Custom	Office	RET	$951	$1,453	$1,644	$2,499	$3,089	$3,785	$5,018	$6,044	$7,055	$8,289	$9,136	$9,724	$10,266	$10,380	$10,244	$10,081	$9,653	$9,114	$8,635	$8,033
1623	WholeBldg	Building Operator Certification	Biz-Custom	Food Service	RET	$98	$149	$169	$257	$318	$390	$518	$624	$729	$857	$945	$1,006	$1,063	$1,075	$1,062	$1,046	$1,002	$946	$897	$835
1624	WholeBldg	Building Operator Certification	Biz-Custom	Retail	RET	$1,288	$1,968	$2,228	$3,384	$4,184	$5,126	$6,795	$8,183	$9,551	$11,221	$12,365	$13,160	$13,892	$14,046	$13,860	$13,638	$13,059	$12,328	$11,679	$10,864
1625	WholeBldg	Building Operator Certification	Biz-Custom	Warehouse	RET	$42	$64	$72	$110	$135	$165	$219	$263	$307	$360	$396	$421	$443	$448	$441	$434	$415	$391	$370	$344
1626	WholeBldg	Building Operator Certification	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1627	WholeBldg	Building Operator Certification	Biz-Custom	Other	RET	$767	$1,172	$1,325	$2,013	$2,488	$3,047	$4,037	$4,860	$5,671	$6,660	$7,336	$7,805	$8,237	$8,325	$8,212	$8,078	$7,733	$7,298	$6,911	$6,427
1628	WholeBldg	Building Operator Certification	Biz-Custom	BSS	RET	$163	$249	$282	$428	$529	$649	$859	$1,034	$1,207	$1,418	$1,562	$1,661	$1,753	$1,772	$1,748	$1,719	$1,646	$1,553	$1,471	$1,368
1629	Cooking	Advanced Cooking	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1630	Cooking	Advanced Cooking	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1631	Cooking	Advanced Cooking	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1632	Cooking	Advanced Cooking	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1633	Cooking	Advanced Cooking	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1634	Cooking	Advanced Cooking	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1635	Cooking	Advanced Cooking	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1636	Cooking	Advanced Cooking	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1637	Cooking	Advanced Cooking	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1638	Cooking	Advanced Cooking	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1639	Cooking	Advanced Cooking	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1640	Lighting_Int	Advanced Lighting	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1641	Lighting_Int	Advanced Lighting	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1642	Lighting_Int	Advanced Lighting	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1643	Lighting_Int	Advanced Lighting	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1644	Lighting_Int	Advanced Lighting	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1645	Lighting_Int	Advanced Lighting	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1646	Lighting_Int	Advanced Lighting	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1647	Lighting_Int	Advanced Lighting	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1648	Lighting_Int	Advanced Lighting	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1649	Lighting_Int	Advanced Lighting	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1650	Lighting_Int	Advanced Lighting	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1651	Plug_Office	Advanced IT	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$2,722	$4,129	$4,639	$5,026	$5,772	$7,587	$8,857	$10,141	$11,771	$14,236	$16,302	$18,316	$20,452	$22,997
1652	Plug_Office	Advanced IT	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$35	$54	$60	$65	$75	$99	$115	$132	$153	$185	$212	$238	$266	$299
1653	Plug_Office	Advanced IT	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$2,722	$4,128	$4,638	$5,026	$5,771	$7,586	$8,856	$10,140	$11,770	$14,234	$16,300	$18,314	$20,449	$22,994
1654	Plug_Office	Advanced IT	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$597	$905	$1,017	$1,102	$1,265	$1,663	$1,942	$2,223	$2,580	$3,121	$3,574	$4,015	$4,483	$5,041
1655	Plug_Office	Advanced IT	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$13,406	$20,332	$22,845	$24,753	$28,424	$37,363	$43,619	$49,942	$57,968	$70,105	$80,280	$90,200	$100,718	$113,252
1656	Plug_Office	Advanced IT	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$137	$208	$234	$253	$291	$382	$446	$510	$593	$717	$821	$922	$1,029	$1,158
1657	Plug_Office	Advanced IT	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$2,893	$4,388	$4,930	$5,342	$6,135	$8,064	$9,414	$10,779	$12,511	$15,130	$17,326	$19,467	$21,737	$24,443
1658	Plug_Office	Advanced IT	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$666	$1,010	$1,135	$1,230	$1,412	$1,857	$2,168	$2,482	$2,881	$3,484	$3,989	$4,482	$5,005	$5,628
1659	Plug_Office	Advanced IT	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$524	$794	$892	$967	$1,110	$1,459	$1,703	$1,950	$2,264	$2,738	$3,135	$3,523	$3,933	$4,423
1660	Plug_Office	Advanced IT	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$6,420	$9,738	$10,941	$11,855	$13,613	$17,894	$20,890	$23,918	$27,762	$33,575	$38,448	$43,199	$48,236	$54,239
1661	Plug_Office	Advanced IT	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$1,078	$1,635	$1,837	$1,990	$2,286	$3,004	$3,507	$4,016	$4,661	$5,637	$6,455	$7,253	$8,099	$9,107
1662	Refrigeration	Advanced Refrigeration	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1663	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1664	Refrigeration	Advanced Refrigeration	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1665	Refrigeration	Advanced Refrigeration	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1666	Refrigeration	Advanced Refrigeration	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1667	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1668	Refrigeration	Advanced Refrigeration	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1669	Refrigeration	Advanced Refrigeration	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1670	Refrigeration	Advanced Refrigeration	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1671	Refrigeration	Advanced Refrigeration	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1672	Refrigeration	Advanced Refrigeration	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1673	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Education	RET	$0	$0	$0	$0	$0	$0	$61,719	$93,017	$103,850	$111,811	$83,527	$100,218	$119,113	$139,993	$162,395	$185,558	$208,418	$229,654	$247,800	$261,433
1674	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Sales	RET	$0	$0	$0	$0	$0	$0	$4,670	$7,039	$7,859	$8,461	$6,321	$7,584	$9,014	$10,594	$12,289	$14,042	$15,772	$17,379	$18,752	$19,784
1675	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Health	RET	$0	$0	$0	$0	$0	$0	$29,890	$45,048	$50,294	$54,150	$40,452	$48,536	$57,686	$67,799	$78,648	$89,865	$100,937	$111,221	$120,010	$126,612
1676	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Lodging	RET	$0	$0	$0	$0	$0	$0	$29,077	$43,822	$48,925	$52,676	$39,351	$47,215	$56,116	$65,953	$76,507	$87,419	$98,189	$108,194	$116,743	$123,166
1677	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Office	RET	$0	$0	$0	$0	$0	$0	$148,604	$223,963	$250,045	$269,215	$201,113	$241,302	$286,796	$337,071	$391,009	$446,779	$501,822	$552,953	$596,645	$629,469
1678	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Service	RET	$0	$0	$0	$0	$0	$0	$22,659	$34,150	$38,127	$41,050	$30,666	$36,794	$43,731	$51,397	$59,622	$68,126	$76,519	$84,315	$90,977	$95,982
1679	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Retail	RET	$0	$0	$0	$0	$0	$0	$77,704	$117,108	$130,746	$140,770	$105,160	$126,174	$149,962	$176,251	$204,454	$233,616	$262,397	$289,133	$311,980	$329,143
1680	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Warehouse	RET	$0	$0	$0	$0	$0	$0	$25,814	$38,905	$43,436	$46,765	$34,935	$41,917	$49,819	$58,553	$67,922	$77,610	$87,172	$96,054	$103,644	$109,345
1681	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Assembly	RET	$0	$0	$0	$0	$0	$0	$25,401	$38,282	$42,741	$46,017	$34,377	$41,246	$49,023	$57,616	$66,836	$76,369	$85,777	$94,517	$101,986	$107,596
1682	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Other	RET	$0	$0	$0	$0	$0	$0	$30,738	$46,326	$51,721	$55,686	$41,600	$49,913	$59,323	$69,722	$80,879	$92,415	$103,800	$114,377	$123,414	$130,204
1683	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	BSS	RET	$0	$0	$0	$0	$0	$0	$6,543	$9,861	$11,009	$11,853	$8,855	$10,624	$12,627	$14,841	$17,215	$19,671	$22,094	$24,345	$26,269	$27,714
1684	Water_WW	Water Supply & Wastewater treatment pumps and process efficiency	Biz-Custom	Industrial	RET	$344,168	$315,264	$274,257	$229,257	$185,016	$145,772	$112,304	$85,418	$64,213	$0	$0	$278,261	$254,335	$221,967	$185,499	$150,318	$118,600	$91,799	$69,836	$52,504
1685	Compressed Air	Efficient Air Compressor Equipment	Biz-Custom	Industrial	ROB	$25,986	$32,487	$39,336	$46,342	$53,047	$59,393	$64,960	$69,973	$74,277	$78,045	$80,940	$83,672	$86,103	$78,165	$76,929	$75,702	$74,411	$73,305	$72,266	$71,479
1686	Compressed Air	Efficient Air Compressor Controls	Biz-Custom	Industrial	RET	$51,913	$58,726	$62,775	$101,525	$103,478	$101,068	$121,824	$115,685	$106,378	$115,047	$104,425	$92,950	$95,533	$76,625	$68,004	$69,808	$55,909	$49,794	$51,103	$40,931
1687	HVAC	Efficient HVAC Equipment	Biz-Custom	Industrial	ROB	$101,774	$114,385	$125,131	$134,411	$141,952	$148,543	$153,775	$158,584	$162,740	$164,978	$166,567	$168,772	$171,093	$173,450	$175,225	$141,010	$138,828	$137,333	$136,167	$135,538
1688	HVAC	Efficient HVAC O&M	Biz-Custom	Industrial	RET	$74,517	$68,354	$59,547	$104,467	$90,012	$75,120	$100,440	$84,334	$68,930	$73,703	$61,734	$50,507	$54,006	$45,422	$37,052	$39,570	$33,232	$27,204	$29,046	$24,395
1689	Lighting_Int	Efficient Lighting Equipment	Biz-Standard	Industrial	RET	########	########	########	########	$841,216	$680,572	$535,268	$413,604	$314,638	$236,875	$0	$0	$0	$0	$0	$161,322	$154,979	$141,661	$123,450	$103,381
1690	Lighting_Int	Efficient Lighting O&M	Biz-Custom	Industrial	RET	$17,586	$20,890	$23,567	$29,887	$31,051	$30,789	$30,278	$27,780	$24,579	$21,410	$17,905	$14,695	$11,921	$9,479	$3,870	$3,136	$2,490	$1,020	$826	$656
1691	Motors	Efficient MachDr Equipment	Biz-Custom	Industrial	ROB	$95,721	$127,690	$166,361	$212,101	$263,282	$319,013	$375,439	$431,512	$483,985	$531,998	$571,880	$607,884	$638,980	$665,674	$686,384	$670,622	$668,949	$665,734	$659,003	$650,185
1692	Motors	Efficient MachDr O&M	Biz-Custom	Industrial	RET	$52,454	$66,906	$82,124	$135,311	$157,524	$176,266	$216,257	$228,326	$232,414	$249,286	$242,911	$231,831	$231,354	$216,466	$198,766	$191,118	$158,370	$145,932	$140,287	$116,255
1693	Process Heat	Efficient ProcHeat Equipment	Biz-Custom	Industrial	ROB	$62,080	$69,885	$76,574	$82,387	$87,152	$91,349	$94,724	$97,848	$100,580	$102,135	$103,292	$104,836	$106,458	$108,108	$109,402	$88,190	$86,974	$86,186	$85,602	$85,354
1694	Process Heat	Efficient ProcHeat O&M	Biz-Custom	Industrial	RET	$63,755	$58,547	$51,060	$89,676	$77,353	$64,626	$86,505	$72,713	$59,497	$63,687	$53,403	$43,739	$46,820	$39,421	$32,192	$34,417	$28,935	$23,712	$25,345	$21,309

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1695	Process Refrig	Efficient ProcRefrig Equipment	Biz-Custom	Industrial	ROB	$82,959	$93,390	$102,329	$110,097	$116,465	$122,073	$126,583	$130,758	$134,409	$136,486	$138,033	$140,097	$142,264	$144,469	$146,197	$117,852	$116,227	$115,174	$114,393	$114,062
1696	Process Refrig	Efficient ProcRefrig O&M	Biz-Custom	Industrial	RET	$60,199	$55,195	$48,060	$84,276	$72,581	$60,544	$80,913	$67,906	$55,476	$59,290	$49,638	$40,592	$43,384	$36,471	$29,736	$31,742	$26,645	$21,802	$23,267	$19,532
1697	Process Other	Efficient Other Facility Process Equipment	Biz-Custom	Industrial	ROB	$87,705	$98,732	$108,182	$116,395	$123,127	$129,056	$133,823	$138,237	$142,097	$144,293	$145,928	$117,721	$116,266	$115,209	$114,198	$113,885	$113,952	$114,539	$115,243	$116,187
1698	Process Other	Efficient Other Facility Process O&M	Biz-Custom	Industrial	RET	$81,945	$75,063	$65,299	$54,585	$44,051	$34,708	$26,739	$20,338	$15,289	$0	$0	$66,253	$60,556	$52,849	$44,166	$35,790	$28,238	$21,857	$16,628	$12,501
1699	WholeBldg	Power Distribution (Transformers)	Biz-Custom	Industrial	RET	$54,377	$69,009	$84,275	$98,893	$110,562	$117,722	$118,542	$113,426	$103,123	$89,648	$74,582	$60,246	$47,416	$36,555	$27,643	$20,703	$0	$0	$0	$0
1700	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Industrial	RET	$127,394	$162,578	$199,660	$235,615	$264,913	$379,704	$409,009	$426,188	$429,795	$421,108	$471,364	$460,055	$442,286	$418,803	$389,021	$410,776	$348,976	$335,515	$317,228	$295,277

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Education	per unit	813	1,066	1,371	1,727	2,123	2,540	2,958	3,353	3,709	4,015	4,268	4,470	4,383	4,427	4,425	4,385	4,266	4,141	4,015	3,897
2	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Sales	per unit	174	228	293	370	454	544	633	717	794	859	913	956	938	947	947	938	913	886	859	834
3	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Service	per unit	1,816	2,381	3,064	3,860	4,743	5,676	6,609	7,492	8,288	8,971	9,536	9,987	9,793	9,891	9,886	9,797	9,531	9,252	8,972	8,707
4	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Health	per unit	504	660	850	1,070	1,316	1,574	1,833	2,078	2,299	2,488	2,645	2,770	2,716	2,743	2,742	2,717	2,643	2,566	2,488	2,415
5	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Lodging	per unit	478	627	807	1,016	1,249	1,495	1,740	1,973	2,183	2,363	2,511	2,630	2,579	2,605	2,604	2,580	2,510	2,437	2,363	2,293
6	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Retail	per unit	459	602	775	976	1,199	1,435	1,671	1,894	2,096	2,268	2,411	2,525	2,476	2,501	2,500	2,477	2,410	2,339	2,269	2,202
7	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Office	per unit	369	484	623	784	964	1,153	1,343	1,523	1,684	1,823	1,938	2,029	1,990	2,010	2,009	1,991	1,937	1,880	1,823	1,769
8	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Warehouse	per unit	8	10	13	16	20	23	27	31	34	37	39	41	40	41	41	40	39	38	37	36
9	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Assembly	per unit	122	160	207	260	320	383	445	505	559	605	643	673	660	667	666	660	642	624	605	587
10	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Other	per unit	1,371	1,797	2,312	2,913	3,580	4,283	4,987	5,654	6,254	6,770	7,196	7,536	7,390	7,464	7,461	7,393	7,193	6,982	6,771	6,571
11	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	BSS	per unit	292	382	492	620	762	912	1,062	1,203	1,331	1,441	1,532	1,604	1,573	1,589	1,588	1,574	1,531	1,486	1,441	1,399
12	Cooking	Commercial Electric Convection Oven	Biz-Custom	Education	per unit	1,083	1,419	1,826	2,300	2,827	3,383	3,939	4,465	4,939	5,347	5,683	5,952	5,836	5,895	5,892	5,839	5,681	5,514	5,347	5,189
13	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Sales	per unit	232	304	391	492	605	724	843	955	1,057	1,144	1,216	1,273	1,249	1,261	1,261	1,249	1,215	1,180	1,144	1,110
14	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Service	per unit	2,419	3,170	4,081	5,140	6,316	7,558	8,800	9,977	11,036	11,946	12,698	13,299	13,040	13,171	13,165	13,046	12,693	12,320	11,947	11,594
15	Cooking	Commercial Electric Convection Oven	Biz-Custom	Health	per unit	671	879	1,132	1,425	1,752	2,096	2,441	2,767	3,061	3,313	3,522	3,688	3,617	3,653	3,651	3,618	3,520	3,417	3,314	3,216
16	Cooking	Commercial Electric Convection Oven	Biz-Custom	Lodging	per unit	637	835	1,075	1,354	1,663	1,991	2,318	2,628	2,907	3,146	3,344	3,502	3,434	3,469	3,467	3,436	3,343	3,245	3,146	3,054
17	Cooking	Commercial Electric Convection Oven	Biz-Custom	Retail	per unit	612	802	1,032	1,300	1,597	1,911	2,225	2,523	2,791	3,021	3,211	3,363	3,297	3,330	3,329	3,299	3,209	3,115	3,021	2,932
18	Cooking	Commercial Electric Convection Oven	Biz-Custom	Office	per unit	492	644	829	1,044	1,284	1,536	1,788	2,028	2,243	2,428	2,581	2,703	2,650	2,677	2,675	2,651	2,579	2,504	2,428	2,356
19	Cooking	Commercial Electric Convection Oven	Biz-Custom	Warehouse	per unit	10	13	17	21	26	31	36	41	46	49	52	55	54	54	54	54	52	51	49	48
20	Cooking	Commercial Electric Convection Oven	Biz-Custom	Assembly	per unit	163	214	275	346	426	509	593	672	744	805	856	896	879	888	887	879	855	830	805	781
21	Cooking	Commercial Electric Convection Oven	Biz-Custom	Other	per unit	1,825	2,393	3,079	3,879	4,767	5,704	6,641	7,529	8,328	9,015	9,583	10,036	9,841	9,940	9,935	9,845	9,578	9,297	9,016	8,750
22	Cooking	Commercial Electric Convection Oven	Biz-Custom	BSS	per unit	389	509	655	826	1,015	1,214	1,414	1,603	1,773	1,919	2,040	2,136	2,095	2,116	2,115	2,096	2,039	1,979	1,919	1,862
23	Cooking	Commercial Electric Griddle	Biz-Custom	Education	per unit	100	251	418	598	795	1,042	1,341	1,689	2,076	2,484	2,892	3,279	3,597	3,851	4,048	4,192	4,286	4,329	4,327	4,288
24	Cooking	Commercial Electric Griddle	Biz-Custom	Food Sales	per unit	21	54	89	128	170	223	287	361	444	531	619	702	770	824	866	897	917	926	926	917
25	Cooking	Commercial Electric Griddle	Biz-Custom	Food Service	per unit	224	561	935	1,335	1,776	2,328	2,997	3,774	4,638	5,551	6,463	7,327	8,037	8,605	9,045	9,365	9,576	9,672	9,668	9,580
26	Cooking	Commercial Electric Griddle	Biz-Custom	Health	per unit	62	156	259	370	493	646	831	1,047	1,286	1,539	1,792	2,032	2,229	2,386	2,508	2,597	2,656	2,683	2,681	2,657
27	Cooking	Commercial Electric Griddle	Biz-Custom	Lodging	per unit	59	148	246	352	468	613	789	994	1,222	1,462	1,702	1,930	2,117	2,266	2,382	2,466	2,522	2,547	2,546	2,523
28	Cooking	Commercial Electric Griddle	Biz-Custom	Retail	per unit	57	142	236	338	449	589	758	954	1,173	1,403	1,634	1,853	2,032	2,176	2,287	2,368	2,421	2,446	2,445	2,422
29	Cooking	Commercial Electric Griddle	Biz-Custom	Office	per unit	46	114	190	271	361	473	609	767	943	1,128	1,313	1,489	1,633	1,749	1,838	1,903	1,946	1,966	1,965	1,947
30	Cooking	Commercial Electric Griddle	Biz-Custom	Warehouse	per unit	1	2	4	6	7	10	12	16	19	23	27	30	33	36	37	39	40	40	40	40
31	Cooking	Commercial Electric Griddle	Biz-Custom	Assembly	per unit	15	38	63	90	120	157	202	254	313	374	436	494	542	580	610	631	645	652	652	646
32	Cooking	Commercial Electric Griddle	Biz-Custom	Other	per unit	169	423	705	1,008	1,340	1,757	2,261	2,848	3,500	4,189	4,877	5,529	6,065	6,494	6,825	7,068	7,227	7,299	7,296	7,230
33	Cooking	Commercial Electric Griddle	Biz-Custom	BSS	per unit	36	90	150	214	285	374	481	606	745	892	1,038	1,177	1,291	1,382	1,453	1,504	1,538	1,554	1,553	1,539
34	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Education	per unit	301	400	525	676	851	1,046	1,251	1,457	1,652	1,827	1,978	2,102	2,111	2,159	2,181	2,180	2,160	2,101	2,040	1,978
35	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Sales	per unit	64	86	112	145	182	224	268	312	353	391	423	450	452	462	467	466	462	450	436	423
36	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Service	per unit	673	895	1,173	1,509	1,901	2,336	2,796	3,255	3,691	4,082	4,419	4,697	4,718	4,824	4,872	4,870	4,826	4,695	4,557	4,419
37	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Health	per unit	187	248	325	419	527	648	775	903	1,024	1,132	1,226	1,303	1,308	1,338	1,351	1,351	1,338	1,302	1,264	1,226
38	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Lodging	per unit	177	236	309	398	501	615	736	857	972	1,075	1,164	1,237	1,242	1,270	1,283	1,283	1,271	1,237	1,200	1,164
39	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Retail	per unit	170	226	297	382	481	591	707	823	933	1,032	1,117	1,188	1,193	1,220	1,232	1,231	1,220	1,187	1,152	1,117
40	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Office	per unit	137	182	238	307	386	475	568	662	750	830	898	955	959	980	990	990	981	954	926	898
41	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Warehouse	per unit	3	4	5	6	8	10	12	13	15	17	18	19	19	20	20	20	20	19	19	18
42	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Assembly	per unit	45	60	79	102	128	157	188	219	249	275	298	317	318	325	328	328	325	316	307	298
43	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Other	per unit	508	675	885	1,139	1,435	1,763	2,110	2,457	2,785	3,081	3,335	3,545	3,560	3,640	3,677	3,675	3,642	3,543	3,439	3,335
44	Cooking	Commercial Electric Steam Cooker	Biz-BSS	BSS	per unit	144	188	242	305	375	449	523	593	656	710	754	790	775	783	782	775	754	732	710	689
45	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Education	per unit	1,286	1,656	2,085	2,563	3,067	3,571	4,048	4,478	4,847	5,152	5,010	5,089	5,104	5,070	4,999	4,848	4,704	4,576	4,465	4,373
46	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Sales	per unit	275	354	446	548	656	764	866	958	1,037	1,102	1,072	1,089	1,092	1,085	1,069	1,037	1,007	979	955	936
47	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Service	per unit	2,874	3,699	4,660	5,726	6,852	7,978	9,045	10,005	10,830	11,512	11,194	11,370	11,405	11,327	11,169	10,831	10,511	10,223	9,976	9,771
48	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Health	per unit	797	1,026	1,292	1,588	1,900	2,213	2,509	2,775	3,004	3,193	3,105	3,153	3,163	3,142	3,098	3,004	2,915	2,835	2,767	2,710
49	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Lodging	per unit	757	974	1,227	1,508	1,805	2,101	2,382	2,635	2,852	3,032	2,948	2,994	3,004	2,983	2,941	2,853	2,768	2,692	2,627	2,573
50	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Retail	per unit	727	935	1,178	1,448	1,733	2,017	2,287	2,530	2,739	2,911	2,830	2,875	2,884	2,864	2,824	2,739	2,658	2,585	2,522	2,471
51	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Office	per unit	584	752	947	1,164	1,393	1,621	1,838	2,033	2,201	2,339	2,275	2,311	2,318	2,302	2,270	2,201	2,136	2,078	2,027	1,986
52	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Warehouse	per unit	12	15	19	24	28	33	37	41	45	48	46	47	47	47	46	45	43	42	41	40
53	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Assembly	per unit	194	249	314	386	462	538	610	674	730	776	754	766	769	763	753	730	708	689	672	659
54	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Other	per unit	2,169	2,792	3,516	4,321	5,171	6,021	6,826	7,550	8,173	8,687	8,447	8,580	8,607	8,548	8,429	8,174	7,932	7,715	7,528	7,374
55	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	BSS	per unit	462	594	748	920	1,101	1,282	1,453	1,607	1,740	1,849	1,798	1,826	1,832	1,819	1,794	1,740	1,688	1,642	1,602	1,570
56	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Education	per unit	281	361	455	560	670	780	884	978	1,058	1,125	1,094	1,111	1,114	1,107	1,091	1,058	1,027	999	975	955
57	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Sales	per unit	60	77	97	120	143	167	189	209	226	241	234	238	238	237	233	226	220	214	209	204
58	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Service	per unit	627	808	1,017	1,250	1,496	1,742	1,975	2,184	2,364	2,513	2,444	2,482	2,490	2,473	2,438	2,365	2,295	2,232	2,178	2,133
59	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Health	per unit	174	224	282	347	415	483	548	606	656	697	678	688	691	686	676	656	636	619	604	592
60	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Lodging	per unit	165	213	268	329	394	459	520	575	623	662	644	654	656	651	642	623	604	588	574	562
61	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Retail	per unit	159	204	257	316	378	440	499	552	598	635	618	628	630	625	617	598	580	564	551	539
62	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Office	per unit	128	164	207	254	304	354	401	444	480	511	497	504	506	503	496	481	466	454	443	434
63	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Warehouse	per unit	3	3	4	5	6	7	8	9	10	10	10	10	10	10	10	10	9	9	9	9
64	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Assembly	per unit	42	54	69	84	101	117	133	147	159	169	165	167	168	167	164	159	155	150	147	144
65	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Other	per unit	474	609	768	943	1,129	1,314	1,490	1,648	1,784	1,897	1,844	1,873	1,879	1,866	1,840	1,784	1,732	1,684	1,643	1,610
66	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	BSS	per unit	101	130	163	201	240	280	317	351	380	404	393	399	400	397	392	380	369	358	350	343
67	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Education	per unit	465	774	1,106	1,472	1,929	2,483	3,128	3,844	4,599	5,355	6,071	6,716	7,130	7,495	7,760	7,935	8,015	8,011	7,938	7,724
68	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Food Sales	per unit	99	166	237	315	413	531	669	822	984	1,146	1,299	1,437	1,525	1,603	1,660	1,698	1,715	1,714	1,698	1,652
69	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Food Service	per unit	1,038	1,730	2,472	3,288	4,310	5,548	6,988	8,588	10,276	11,965	13,565	15,005	15,931	16,745	17,339	17,730	17,907	17,899	17,737	17,257
70	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Health	per unit	288	480	686	912	1,195	1,539	1,938	2,382	2,850	3,318	3,762	4,161	4,418	4,644	4,809	4,917	4,966	4,964	4,919	4,786
71	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Lodging	per unit	273	456	651	866	1,135	1,461	1,840	2,262	2,706	3,151	3,572	3,952	4,196	4,410	4,566	4,669	4,716	4,714	4,671	4,545
72	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Retail	per unit	263	438	625	832	1,090	1,403	1,767	2,171	2,598	3,025	3,430	3,794	4,028	4,234	4,384	4,483	4,528	4,526	4,485	4,364
73	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Office	per unit	211	352	502	668	876	1,127	1,420	1,745	2,088	2,432	2,757	3,049	3,237	3,403	3,524	3,603	3,639	3,638	3,604	3,507
74	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Warehouse	per unit	4	7	10	14	18	23	29	35	42	49	56	62	66	69	72	73	74	74	73	71
75	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Assembly	per unit	70	117	167	222	291	374	471	579	693	806	914	1,011	1,074	1,129	1,169	1,195	1,207	1,206	1,195	1,163
76	Cooking	Energy Efficient Electric Fryer	Biz-Custom	Other	per unit	783	1,306	1,865	2,482	3,253	4,187	5,273	6,481	7,755	9,029	10,237	11,323	12,022	12,637	13,085	13,380	13,514	13,508	13,385	13,023
77	Cooking	Energy Efficient Electric Fryer	Biz-Custom	BSS	per unit	154	257	367	488	639	823	1,036	1,273	1,524	1,774	2,011	2,225	2,408	2,514	2,604	2,665	2,701	2,709	2,694	2,630
78	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Education	per unit	42	104	174	248	330	432	556	701	861	1,031	1,200	1,360	1,492	1,598	1,679	1,739	1,778	1,796	1,795	1,779
79	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Sales	per unit	9	22	37	53	71	92	119	150	184	220	257	291	319	342	359	372	380	384	384	381
80	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Service	per unit	93	233	388	554	737	966	1,243	1,566	1,924	2,303	2,681	3,040	3,334	3,570	3,752	3,885	3,973	4,013	4,011	3,974
81	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Health	per unit	26	65	108	154	204	268	345	434	534	639	744	843	925	990	1,041	1,078	1,102	1,113	1,112	1,102
82	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Lodging	per unit	25	61	102	146	194	254	327	412	507	606	706	800	878	940	988	1,023	1,046	1,057	1,056	1,047
83	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Retail	per unit	24	59	98	140	186	244	314	396	487	582	678	769	843	903	949	982	1,005	1,015	1,014	1,005
84	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Office	per unit	19	47	79	113	150	196	253	318	391	468	545	618	678	725	763	790	807	815	815	808
85	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Warehouse	per unit	0	1	2	2	3	4	5	6	8	10	11	13	14	15	16	16	16	17	17	16
86	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Assembly	per unit	6	16	26	37	50	65	84	106	130	155	181	205	225	241	253	262	268	270	270	268
87	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Other	per unit	70	176	293	418	556	729	938	1,182	1,452	1,738	2,023	2,294	2,516	2,694	2,832	2,932	2,998	3,028	3,027	2,999
88	Cooking	Insulated Holding Cabinets (Full Size)	Biz-BSS	BSS	per unit	128	145	161	174	185	194	201	206	210	213	213	213	174	169	164	160	157	154	152	151

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
89	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Education	per unit	34	84	140	200	267	349	450	566	696	833	970	1,100	1,206	1,291	1,357	1,406	1,437	1,452	1,451	1,438
90	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Sales	per unit	7	18	30	43	57	75	96	121	149	178	208	235	258	276	290	301	307	311	310	308
91	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Service	per unit	75	188	313	448	596	781	1,005	1,266	1,555	1,861	2,167	2,457	2,695	2,885	3,033	3,140	3,211	3,243	3,242	3,212
92	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Health	per unit	21	52	87	124	165	217	279	351	431	516	601	681	747	800	841	871	891	900	899	891
93	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Lodging	per unit	20	50	83	118	157	206	265	333	410	490	571	647	710	760	799	827	846	854	854	846
94	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Retail	per unit	19	48	79	113	151	197	254	320	393	471	548	621	681	730	767	794	812	820	820	812
95	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Office	per unit	15	38	64	91	121	159	204	257	316	378	440	499	548	586	616	638	653	659	659	653
96	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Warehouse	per unit	0	1	1	2	2	3	4	5	6	8	9	10	11	12	13	13	13	13	13	13
97	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Assembly	per unit	5	13	21	30	40	53	68	85	105	125	146	166	182	194	204	212	216	219	219	217
98	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Other	per unit	57	142	237	338	449	589	758	955	1,174	1,405	1,635	1,854	2,034	2,177	2,289	2,370	2,423	2,448	2,447	2,424
99	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-BSS	BSS	per unit	12	30	50	72	96	125	161	203	250	299	348	395	433	463	487	504	516	521	521	516
100	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Education	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Sales	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Service	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Health	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Lodging	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Retail	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Office	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Warehouse	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Assembly	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Other	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-BSS	BSS	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Education	Per unit	30,887	27,801	23,893	19,731	15,765	12,267	9,350	7,015	5,201	0	0	0	0	0	0	3,089	2,780	2,389	1,973	1,577
112	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Sales	Per unit	3,664	3,298	2,834	2,341	1,870	1,455	1,109	832	617	0	0	0	0	0	0	366	330	283	234	187
113	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Health	Per unit	10,085	9,078	7,801	6,443	5,148	4,005	3,053	2,290	1,698	0	0	0	0	0	0	1,009	908	780	644	515
114	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Lodging	Per unit	9,439	8,496	7,302	6,030	4,818	3,749	2,857	2,144	1,589	0	0	0	0	0	0	944	850	730	603	482
115	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Office	Per unit	58,587	52,733	45,320	37,426	29,903	23,268	17,734	13,305	9,864	0	0	0	0	0	0	5,859	5,273	4,532	3,743	2,990
116	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Service	Per unit	6,482	5,834	5,014	4,141	3,308	2,574	1,962	1,472	1,091	0	0	0	0	0	0	648	583	501	414	331
117	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Retail	Per unit	57,762	51,991	44,682	36,899	29,482	22,940	17,485	13,118	9,725	0	0	0	0	0	0	5,776	5,199	4,468	3,690	2,948
118	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Warehouse	Per unit	16,563	14,908	12,812	10,580	8,454	6,578	5,014	3,761	2,789	0	0	0	0	0	0	1,656	1,491	1,281	1,058	845
119	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Assembly	Per unit	4,729	4,256	3,658	3,021	2,414	1,878	1,431	1,074	796	0	0	0	0	0	0	473	426	366	302	241
120	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Other	Per unit	96,833	87,158	74,905	61,858	49,424	38,457	29,311	21,991	16,304	0	0	0	0	0	0	9,683	8,716	7,491	6,186	4,942
121	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-BSS	BSS	Per unit	18,287	14,229	10,845	8,137	6,032	0	0	0	0	0	0	0	0	0	0	1,829	1,423	1,085	814	603
122	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Education	Per unit	17,641	15,879	13,646	11,269	9,004	7,006	5,340	4,006	2,970	0	0	0	0	0	0	1,764	1,588	1,365	1,127	900
123	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Sales	Per unit	2,093	1,884	1,619	1,337	1,068	831	633	475	352	0	0	0	0	0	0	209	188	162	134	107
124	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Health	Per unit	5,760	5,185	4,456	3,680	2,940	2,288	1,744	1,308	970	0	0	0	0	0	0	576	518	446	368	294
125	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Lodging	Per unit	5,391	4,852	4,170	3,444	2,752	2,141	1,632	1,224	908	0	0	0	0	0	0	539	485	417	344	275
126	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Office	Per unit	33,461	30,118	25,884	21,376	17,079	13,289	10,129	7,599	5,634	0	0	0	0	0	0	3,346	3,012	2,588	2,138	1,708
127	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Service	Per unit	3,702	3,332	2,864	2,365	1,890	1,470	1,121	841	623	0	0	0	0	0	0	370	333	286	236	189
128	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Retail	Per unit	32,990	29,694	25,520	21,075	16,838	13,102	9,986	7,492	5,555	0	0	0	0	0	0	3,299	2,969	2,552	2,107	1,684
129	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Warehouse	Per unit	9,460	8,514	7,317	6,043	4,828	3,757	2,863	2,148	1,593	0	0	0	0	0	0	946	851	732	604	483
130	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Assembly	Per unit	2,701	2,431	2,089	1,725	1,379	1,073	818	613	455	0	0	0	0	0	0	270	243	209	173	138
131	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Other	Per unit	55,305	49,780	42,781	35,330	28,228	21,964	16,741	12,560	9,312	0	0	0	0	0	0	5,531	4,978	4,278	3,533	2,823
132	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-BSS	BSS	Per unit	10,444	8,127	6,194	4,647	3,445	0	0	0	0	0	0	0	0	0	0	0	1,044	813	619	465
133	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Education	Per unit	12,351	11,117	9,554	7,890	6,304	4,905	3,739	2,805	2,079	0	0	0	0	0	0	1,235	1,112	955	789	630
134	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Sales	Per unit	1,465	1,319	1,133	936	748	582	443	333	247	0	0	0	0	0	0	147	132	113	94	75
135	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Health	Per unit	4,033	3,630	3,119	2,576	2,058	1,602	1,221	916	679	0	0	0	0	0	0	403	363	312	258	206
136	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Lodging	Per unit	3,774	3,397	2,920	2,411	1,926	1,499	1,142	857	635	0	0	0	0	0	0	377	340	292	241	193
137	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Office	Per unit	23,426	21,086	18,122	14,965	11,957	9,304	7,091	5,320	3,944	0	0	0	0	0	0	2,343	2,109	1,812	1,497	1,196
138	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Service	Per unit	2,592	2,333	2,005	1,656	1,323	1,029	785	589	436	0	0	0	0	0	0	259	233	200	166	132
139	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Retail	Per unit	23,097	20,789	17,866	14,755	11,789	9,173	6,991	5,245	3,889	0	0	0	0	0	0	2,310	2,079	1,787	1,475	1,179
140	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Warehouse	Per unit	6,623	5,961	5,123	4,231	3,380	2,630	2,005	1,504	1,115	0	0	0	0	0	0	662	596	512	423	338
141	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Assembly	Per unit	1,891	1,702	1,463	1,208	965	751	572	429	318	0	0	0	0	0	0	189	170	146	121	97
142	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Other	Per unit	38,719	34,851	29,951	24,735	19,763	15,377	11,720	8,793	6,519	0	0	0	0	0	0	3,872	3,485	2,995	2,473	1,976
143	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-BSS	BSS	Per unit	7,312	5,690	4,337	3,254	2,412	0	0	0	0	0	0	0	0	0	0	0	731	569	434	325
144	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Education	Per unit	7,720	6,949	5,972	4,932	3,940	3,066	2,337	1,753	1,300	0	0	0	0	0	0	772	695	597	493	394
145	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Sales	Per unit	916	824	708	585	467	364	277	208	154	0	0	0	0	0	0	92	82	71	59	47
146	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Health	Per unit	2,521	2,269	1,950	1,610	1,287	1,001	763	572	424	0	0	0	0	0	0	252	227	195	161	129
147	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Lodging	Per unit	2,359	2,124	1,825	1,507	1,204	937	714	536	397	0	0	0	0	0	0	236	212	182	151	120
148	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Office	Per unit	14,643	13,180	11,327	9,354	7,474	5,816	4,433	3,326	2,466	0	0	0	0	0	0	1,464	1,318	1,133	935	747
149	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Service	Per unit	1,620	1,458	1,253	1,035	827	643	490	368	273	0	0	0	0	0	0	162	146	125	103	83
150	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Retail	Per unit	14,437	12,995	11,168	9,223	7,369	5,734	4,370	3,279	2,431	0	0	0	0	0	0	1,444	1,299	1,117	922	737
151	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Warehouse	Per unit	4,140	3,726	3,202	2,645	2,113	1,644	1,253	940	697	0	0	0	0	0	0	414	373	320	264	211
152	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Assembly	Per unit	1,182	1,064	914	755	603	469	358	268	199	0	0	0	0	0	0	118	106	91	76	60
153	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Other	Per unit	24,203	21,785	18,722	15,461	12,353	9,612	7,326	5,496	4,075	0	0	0	0	0	0	2,420	2,178	1,872	1,546	1,235
154	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-BSS	BSS	Per unit	4,571	3,557	2,711	2,034	1,508	0	0	0	0	0	0	0	0	0	0	0	457	356	271	203
155	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Education	Per unit	3,249	2,924	2,513	2,075	1,658	1,290	983	738	547	0	0	0	0	0	0	325	292	251	208	166
156	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Sales	Per unit	385	347	298	246	197	153	117	88	65	0	0	0	0	0	0	39	35	30	25	20
157	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Health	Per unit	1,061	955	821	678	541	421	321	241	179	0	0	0	0	0	0	106	95	82	68	54
158	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Lodging	Per unit	993	894	768	634	507	394	301	225	167	0	0	0	0	0	0	99	89	77	63	51
159	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Office	Per unit	6,162	5,547	4,767	3,937	3,145	2,447	1,865	1,399	1,038	0	0	0	0	0	0	616	555	477	394	315
160	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Service	Per unit	682	614	527	436	348	271	206	155	115	0	0	0	0	0	0	68	61	53	44	35
161	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Retail	Per unit	6,076	5,469	4,700	3,881	3,101	2,413	1,839	1,380	1,023	0	0	0	0	0	0	608	547	470	388	310
162	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Warehouse	Per unit	1,742	1,568	1,348	1,113	889	692	527	396	293	0	0	0	0	0	0	174	157	135	111	89
163	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Assembly	Per unit	497	448	385	318	254	198	151	113	84	0	0	0	0	0	0	50	45	38	32	25
164	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Other	Per unit	10,185	9,168	7,879	6,507	5,199	4,045	3,083	2,313	1,715	0	0	0	0	0	0	1,019	917	788	651	520
165	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-BSS	BSS	Per unit	1,924	1,497	1,141	856	635	0	0	0	0	0	0	0	0	0	0	192	150	114	86	63
166	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Education	Per unit	247,100	222,412	191,144	157,851	126,121	98,135	74,797	56,116	41,604	0	0	0	0	0	0	24,710	22,241	19,114	15,785	12,612
167	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Sales	Per unit	29,312	26,384	22,675	18,725	14,961	11,641	8,873	6,657	4,935	0	0	0	0	0	0	2,931	2,638	2,267	1,873	1,496
168	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Health	Per unit	80,681	72,621	62,411	51,541	41,180	32,042	24,422	18,323	13,584	0	0	0	0	0	0	8,068	7,262	6,241	5,154	4,118
169	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Lodging	Per unit	75,512	67,968	58,413	48,238	38,542	29,990	22,858	17,149	12,714	0	0	0	0	0	0	7,551	6,797	5,841	4,824	3,854
170	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Office	Per unit	468,693	421,866	362,558	299,409	239,224	186,141	141,874	106,440	78,914	0	0	0	0	0	0	46,869	42,187	36,256	29,941	23,922
171	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Service	Per unit	51,855	46,674	40,113	33,126	26,467	20,594	15,697	11,776	8,731	0	0	0	0	0	0	5,186	4,667	4,011	3,313	2,647
172	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Retail	Per unit	462,097	415,928	357,455	295,195	235,857	183,521	139,877	104,942	77,803	0	0	0	0	0	0	46,210	41,593	35,745	29,519	23,586
173	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Warehouse	Per unit	132,501	119,262	102,496	84,644	67,629	52,622	40,108	30,091	22,309	0	0	0	0	0	0	13,250	11,926	10,250	8,464	6,763
174	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Assembly	Per unit	37,832	34,052	29,265	24,167	19,309	15,025	11,452	8,592	6,370	0	0	0	0	0	0	3,783	3,405	2,926	2,417	1,931
175	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Other	Per unit	774,663	697,266	599,240	494,867	395,392	307,656	234,491	175,926	130,430	0	0	0	0	0	0	77,466	69,727	59,924	49,487	39,539
176	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-BSS	BSS	Per unit	146,296	113,833	86,762	65,093	48,259	0	0	0	0	0	0	0	0	0	0	14,630	11,383	8,676	6,509	4,826

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
177	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Education	Per unit	141,129	127,029	109,170	90,155	72,033	56,049	42,720	32,050	23,762	0	0	0	0	0	0	14,113	12,703	10,917	9,016	7,203
178	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Sales	Per unit	16,742	15,069	12,950	10,695	8,545	6,649	5,068	3,802	2,819	0	0	0	0	0	0	1,674	1,507	1,295	1,069	854
179	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Health	Per unit	46,080	41,477	35,646	29,437	23,520	18,301	13,949	10,465	7,759	0	0	0	0	0	0	4,608	4,148	3,565	2,944	2,352
180	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Lodging	Per unit	43,128	38,819	33,362	27,551	22,013	17,128	13,055	9,794	7,262	0	0	0	0	0	0	4,313	3,882	3,336	2,755	2,201
181	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Office	Per unit	267,690	240,945	207,072	171,005	136,631	106,313	81,030	60,792	45,071	0	0	0	0	0	0	26,769	24,095	20,707	17,100	13,663
182	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Service	Per unit	29,617	26,658	22,910	18,920	15,116	11,762	8,965	6,726	4,987	0	0	0	0	0	0	2,962	2,666	2,291	1,892	1,512
183	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Retail	Per unit	263,922	237,554	204,157	168,598	134,708	104,816	79,890	59,937	44,437	0	0	0	0	0	0	26,392	23,755	20,416	16,860	13,471
184	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Warehouse	Per unit	75,677	68,116	58,540	48,343	38,626	30,055	22,907	17,186	12,742	0	0	0	0	0	0	7,568	6,812	5,854	4,834	3,863
185	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Assembly	Per unit	21,607	19,448	16,714	13,803	11,028	8,581	6,541	4,907	3,638	0	0	0	0	0	0	2,161	1,945	1,671	1,380	1,103
186	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Other	Per unit	442,442	398,237	342,251	282,639	225,825	175,715	133,928	100,479	74,494	0	0	0	0	0	0	44,244	39,824	34,225	28,264	22,582
187	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-BSS	BSS	Per unit	83,556	65,015	49,554	37,177	27,563	0	0	0	0	0	0	0	0	0	0	8,356	6,501	4,955	3,718	2,756
188	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Education	Per unit	98,805	88,933	76,431	63,118	50,431	39,240	29,908	22,439	16,636	0	0	0	0	0	0	9,881	8,893	7,643	6,312	5,043
189	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Sales	Per unit	11,721	10,550	9,067	7,487	5,982	4,655	3,548	2,662	1,973	0	0	0	0	0	0	1,172	1,055	907	749	598
190	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Health	Per unit	32,261	29,038	24,956	20,609	16,466	12,812	9,766	7,327	5,432	0	0	0	0	0	0	3,226	2,904	2,496	2,061	1,647
191	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Lodging	Per unit	30,194	27,178	23,357	19,289	15,411	11,992	9,140	6,857	5,084	0	0	0	0	0	0	3,019	2,718	2,336	1,929	1,541
192	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Office	Per unit	187,411	168,687	144,972	119,721	95,656	74,430	56,730	42,561	31,555	0	0	0	0	0	0	18,741	16,869	14,497	11,972	9,566
193	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Service	Per unit	20,735	18,663	16,039	13,246	10,583	8,235	6,276	4,709	3,491	0	0	0	0	0	0	2,073	1,866	1,604	1,325	1,058
194	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Retail	Per unit	184,774	166,313	142,932	118,036	94,309	73,383	55,931	41,962	31,110	0	0	0	0	0	0	18,477	16,631	14,293	11,804	9,431
195	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Warehouse	Per unit	52,982	47,688	40,984	33,845	27,042	21,042	16,038	12,032	8,921	0	0	0	0	0	0	5,298	4,769	4,098	3,385	2,704
196	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Assembly	Per unit	15,127	13,616	11,702	9,664	7,721	6,008	4,579	3,435	2,547	0	0	0	0	0	0	1,513	1,362	1,170	966	772
197	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Other	Per unit	309,756	278,808	239,612	197,877	158,101	123,019	93,764	70,346	52,154	0	0	0	0	0	0	30,976	27,881	23,961	19,788	15,810
198	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-BSS	BSS	Per unit	58,498	45,517	34,693	26,028	19,297	0	0	0	0	0	0	0	0	0	0	5,850	4,552	3,469	2,603	1,930
199	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Education	Per unit	61,761	55,591	47,775	39,454	31,523	24,528	18,695	14,026	10,399	0	0	0	0	0	0	6,176	5,559	4,778	3,945	3,152
200	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Sales	Per unit	7,326	6,595	5,667	4,680	3,739	2,910	2,218	1,664	1,234	0	0	0	0	0	0	733	659	567	468	374
201	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Health	Per unit	20,166	18,151	15,599	12,882	10,293	8,009	6,104	4,580	3,395	0	0	0	0	0	0	2,017	1,815	1,560	1,288	1,029
202	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Lodging	Per unit	18,874	16,988	14,600	12,057	9,633	7,496	5,713	4,286	3,178	0	0	0	0	0	0	1,887	1,699	1,460	1,206	963
203	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Office	Per unit	117,148	105,443	90,620	74,836	59,793	46,525	35,461	26,604	19,724	0	0	0	0	0	0	11,715	10,544	9,062	7,484	5,979
204	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Service	Per unit	12,961	11,666	10,026	8,280	6,615	5,147	3,923	2,943	2,182	0	0	0	0	0	0	1,296	1,167	1,003	828	662
205	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Retail	Per unit	115,499	103,959	89,344	73,783	58,951	45,870	34,962	26,230	19,447	0	0	0	0	0	0	11,550	10,396	8,934	7,378	5,895
206	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Warehouse	Per unit	33,118	29,809	25,618	21,156	16,904	13,153	10,025	7,521	5,576	0	0	0	0	0	0	3,312	2,981	2,562	2,116	1,690
207	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Assembly	Per unit	9,456	8,511	7,315	6,041	4,826	3,755	2,862	2,147	1,592	0	0	0	0	0	0	946	851	731	604	483
208	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Other	Per unit	193,623	174,278	149,777	123,690	98,826	76,897	58,610	43,972	32,600	0	0	0	0	0	0	19,362	17,428	14,978	12,369	9,883
209	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-BSS	BSS	Per unit	36,566	28,452	21,686	16,270	12,062	0	0	0	0	0	0	0	0	0	0	3,657	2,845	2,169	1,627	1,206
210	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Education	Per unit	25,991	23,394	20,106	16,604	13,266	10,322	7,868	5,903	4,376	0	0	0	0	0	0	2,599	2,339	2,011	1,660	1,327
211	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Sales	Per unit	3,083	2,775	2,385	1,970	1,574	1,225	933	700	519	0	0	0	0	0	0	308	278	239	197	157
212	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Health	Per unit	8,486	7,639	6,565	5,421	4,332	3,370	2,569	1,927	1,429	0	0	0	0	0	0	849	764	656	542	433
213	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Lodging	Per unit	7,943	7,149	6,144	5,074	4,054	3,154	2,404	1,804	1,337	0	0	0	0	0	0	794	715	614	507	405
214	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Office	Per unit	49,300	44,374	38,136	31,493	25,163	19,579	14,923	11,196	8,301	0	0	0	0	0	0	4,930	4,437	3,814	3,149	2,516
215	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Service	Per unit	5,454	4,909	4,219	3,484	2,784	2,166	1,651	1,239	918	0	0	0	0	0	0	545	491	422	348	278
216	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Retail	Per unit	48,606	43,749	37,599	31,050	24,809	19,304	14,713	11,038	8,184	0	0	0	0	0	0	4,861	4,375	3,760	3,105	2,481
217	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Warehouse	Per unit	13,937	12,545	10,781	8,903	7,114	5,535	4,219	3,165	2,347	0	0	0	0	0	0	1,394	1,254	1,078	890	711
218	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Assembly	Per unit	3,979	3,582	3,078	2,542	2,031	1,580	1,205	904	670	0	0	0	0	0	0	398	358	308	254	203
219	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Other	Per unit	81,483	73,342	63,031	52,053	41,589	32,361	24,665	18,505	13,719	0	0	0	0	0	0	8,148	7,334	6,303	5,205	4,159
220	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-BSS	BSS	Per unit	15,388	11,974	9,126	6,847	5,076	0	0	0	0	0	0	0	0	0	0	1,539	1,197	913	685	508
221	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Education	Per unit	390,476	390,476	369,944	332,983	286,170	236,326	188,822	146,923	111,983	84,014	101,335	39,048	36,994	33,298	28,617	23,633	18,882	14,692	11,198	8,401
222	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Sales	Per unit	70,678	70,678	66,962	60,271	51,798	42,776	34,178	26,594	20,269	15,207	18,342	7,068	6,696	6,027	5,180	4,278	3,418	2,659	2,027	1,521
223	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Health	Per unit	346,350	346,350	328,139	295,354	253,832	209,620	167,484	130,320	99,328	74,520	89,884	34,635	32,814	29,535	25,383	20,962	16,748	13,032	9,933	7,452
224	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Lodging	Per unit	740,128	740,128	701,210	631,152	542,421	447,945	357,902	278,484	212,257	159,245	192,076	74,013	70,121	63,115	54,242	44,794	35,790	27,848	21,226	15,924
225	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Office	Per unit	922,010	922,010	873,528	786,254	675,718	558,024	445,854	346,920	264,418	198,378	239,277	92,201	87,353	78,625	67,572	55,802	44,585	34,692	26,442	19,838
226	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Service	Per unit	128,795	128,795	122,023	109,831	94,391	77,950	62,281	48,461	36,936	27,711	33,425	12,880	12,202	10,983	9,439	7,795	6,228	4,846	3,694	2,771
227	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Retail	Per unit	1,677,023	1,677,023	1,588,842	1,430,100	1,229,049	1,014,979	810,954	631,006	480,944	360,826	435,216	167,702	158,884	143,010	122,905	101,498	81,095	63,101	48,094	36,083
228	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Warehouse	Per unit	168,198	168,198	159,354	143,433	123,268	101,798	81,335	63,287	48,237	36,189	43,650	16,820	15,935	14,343	12,327	10,180	8,134	6,329	4,824	3,619
229	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Assembly	Per unit	128,192	128,192	121,452	109,318	93,949	77,585	61,990	48,234	36,764	27,582	33,268	12,819	12,145	10,932	9,395	7,759	6,199	4,823	3,676	2,758
230	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Other	Per unit	2,272,008	2,272,008	2,152,542	1,937,480	1,665,099	1,375,079	1,098,669	854,878	651,577	488,843	589,625	227,201	215,254	193,748	166,510	137,508	109,867	85,488	65,158	48,884
231	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-BSS	BSS	Per unit	185,436	144,289	109,975	82,508	61,171	0	0	0	0	0	18,544	14,429	10,997	8,251	6,117	0	0	0	0	0
232	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Education	Per unit	618,898	618,898	586,355	527,772	453,575	374,574	299,279	232,870	177,490	133,161	160,615	61,890	58,636	52,777	45,358	37,457	29,928	23,287	17,749	13,316
233	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Sales	Per unit	112,023	112,023	106,133	95,529	82,099	67,799	54,171	42,151	32,127	24,103	29,072	11,202	10,613	9,553	8,210	6,780	5,417	4,215	3,213	2,410
234	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Health	Per unit	548,960	548,960	520,094	468,132	402,319	332,245	265,459	206,555	157,433	118,114	142,464	54,896	52,009	46,813	40,232	33,224	26,546	20,655	15,743	11,811
235	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Lodging	Per unit	1,173,090	1,173,090	1,111,407	1,000,366	859,729	709,985	567,268	441,394	336,424	252,401	304,437	117,309	111,141	100,037	85,973	70,999	56,727	44,139	33,642	25,240
236	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Office	Per unit	1,461,371	1,461,371	1,384,529	1,246,200	1,071,002	884,460	706,671	549,863	419,099	314,427	379,251	146,137	138,453	124,620	107,100	88,446	70,667	54,986	41,910	31,443
237	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Service	Per unit	204,138	204,138	193,404	174,081	149,608	123,550	98,715	76,810	58,544	43,922	52,977	20,414	19,340	17,408	14,961	12,355	9,871	7,681	5,854	4,392
238	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Retail	Per unit	2,658,055	2,658,055	2,518,289	2,266,686	1,948,023	1,608,725	1,285,349	1,000,134	762,289	571,904	689,811	265,806	251,829	226,669	194,802	160,872	128,535	100,013	76,229	57,190
239	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Warehouse	Per unit	266,591	266,591	252,573	227,338	195,378	161,348	128,915	100,309	76,454	57,359	69,185	26,659	25,257	22,734	19,538	16,135	12,891	10,031	7,645	5,736
240	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Assembly	Per unit	203,183	203,183	192,499	173,267	148,908	122,972	98,253	76,451	58,270	43,717	52,729	20,318	19,250	17,327	14,891	12,297	9,825	7,645	5,827	4,372
241	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Other	Per unit	3,601,097	3,601,097	3,411,744	3,070,875	2,639,155	2,179,479	1,741,374	1,354,969	1,032,739	774,808	934,546	360,110	341,174	307,088	263,916	217,948	174,137	135,497	103,274	77,481
242	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-BSS	BSS	Per unit	293,914	228,695	174,308	130,774	96,955	0	0	0	0	0	29,391	22,870	17,431	13,077	9,695	0	0	0	0	0
243	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Education	Per unit	405,309	405,309	383,997	345,631	297,041	245,303	195,994	152,504	116,236	87,206	105,185	40,531	38,400	34,563	29,704	24,530	19,599	15,250	11,624	8,721
244	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Sales	Per unit	73,363	73,363	69,505	62,561	53,766	44,401	35,476	27,604	21,039	15,785	19,039	7,336	6,951	6,256	5,377	4,440	3,548	2,760	2,104	1,578
245	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Health	Per unit	359,507	359,507	340,603	306,573	263,474	217,583	173,846	135,270	103,101	77,351	93,298	35,951	34,060	30,657	26,347	21,758	17,385	13,527	10,310	7,735
246	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Lodging	Per unit	768,242	768,242	727,846	655,127	563,026	464,960	371,497	289,063	220,320	165,294	199,372	76,824	72,785	65,513	56,303	46,496	37,150	28,906	22,032	16,529
247	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Office	Per unit	957,033	957,033	906,710	816,120	701,386	579,222	462,790	360,099	274,462	205,914	248,366	95,703	90,671	81,612	70,139	57,922	46,279	36,010	27,446	20,591
248	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Service	Per unit	133,688	133,688	126,658	114,004	97,976	80,911	64,647	50,302	38,340	28,764	34,694	13,369	12,666	11,400	9,798	8,091	6,465	5,030	3,834	2,876
249	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Retail	Per unit	1,740,727	1,740,727	1,649,196	1,484,424	1,275,735	1,053,534	841,759	654,975	499,214	374,533	451,748	174,073	164,920	148,442	127,574	105,353	84,176	65,498	49,921	37,453
250	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Warehouse	Per unit	174,587	174,587	165,407	148,881	127,951	105,665	84,425	65,691	50,069	37,564	45,308	17,459	16,541	14,888	12,795	10,566	8,442	6,569	5,007	3,756
251	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Assembly	Per unit	133,062	133,062	126,065	113,470	97,518	80,533	64,344	50,067	38,160	28,629	34,532	13,306	12,607	11,347	9,752	8,053	6,434	5,007	3,816	2,863
252	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Other	Per unit	2,358,313	2,358,313	2,234,308	2,011,077	1,728,349	1,427,313	1,140,404	887,352	676,328	507,412	612,022	235,831	223,431	201,108	172,835	142,731	114,040	88,735	67,633	50,741
253	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-BSS	BSS	Per unit	192,480	149,770	114,152	85,642	63,495	0	0	0	0	0	19,248	14,977	11,415	8,564	6,349	0	0	0	0	0
254	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Education	Per unit	661,142	661,142	626,377	563,796	484,534	400,140	319,707	248,765	189,605	142,250	171,577	66,114	62,638	56,380	48,453	40,014	31,971	24,876	18,961	14,225
255	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Sales	Per unit	119,670	119,670	113,377	102,050	87,703	72,427	57,868	45,028	34,319	25,748	31,056	11,967	11,338	10,205	8,770	7,243	5,787	4,503	3,432	2,575
256	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Health	Per unit	586,429	586,429	555,594	500,084	429,780	354,923	283,578	220,653	168,179	126,175	152,188	58,643	55,559	50,008	42,978	35,492	28,358	22,065	16,818	12,618
257	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Lodging	Per unit	1,253,160	1,253,160	1,187,267	1,068,646	918,410	758,446	605,988	471,521	359,387	269,629	325,216	125,316	118,727	106,865	91,841	75,845	60,599	47,152	35,939	26,963
258	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Office	Per unit	1,561,117	1,561,117	1,479,030	1,331,260	1,144,104	944,829	754,906	587,395	447,704	335,888	405,137	156,112	147,903	133,126	114,410	94,483	75,491	58,739	44,770	33,589
259	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Service	Per unit	218,072	218,072	206,605	185,963	159,819	131,983	105,452	82,053	62,540	46,920	56,593	21,807	20,661	18,596	15,982	13,198	10,545	8,205	6,254	4,692
260	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Retail	Per unit	2,839,482	2,839,482	2,690,176	2,421,399	2,080,986	1,718,529	1,373,081	1,068,399	814,320	610,940	736,894	283,948	269,018	242,140	208,099	171,853	137,308	106,840	81,432	61,094
261	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Warehouse	Per unit	284,787	284,787	269,813	242,856	208,714	172,361	137,714	107,156	81,673	61,275	73,907	28,479	26,981	24,286	20,871	17,236	13,771	10,716	8,167	6,127
262	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Assembly	Per unit	217,051	217,051	205,638	185,093	159,072	131,365	104,959	81,669	62,247	46,701	56,329	21,705	20,564	18,509	15,907	13,137	10,496	8,167	6,225	4,670
263	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Other	Per unit	3,846,892	3,846,892	3,644,615	3,280,479	2,819,292	2,328,240	1,860,232	1,447,453	1,103,229	827,693	998,334	384,689	364,461	328,048	281,929	232,824	186,023	144,745	110,323	82,769
264	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-BSS	BSS	Per unit	313,975	244,305	186,206	139,700	103,573	0	0	0	0	0	31,397	24,430	18,621	13,970	10,357	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
265	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Education	Per unit	374,452	374,452	354,763	319,318	274,427	226,628	181,073	140,893	107,387	80,567	97,177	37,445	35,476	31,932	27,443	22,663	18,107	14,089	10,739	8,057
266	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Sales	Per unit	67,777	67,777	64,214	57,798	49,672	41,021	32,775	25,502	19,438	14,583	17,589	6,778	6,421	5,780	4,967	4,102	3,277	2,550	1,944	1,458
267	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Health	Per unit	332,137	332,137	314,673	283,234	243,415	201,018	160,611	124,972	95,252	71,462	86,195	33,214	31,467	28,323	24,342	20,102	16,061	12,497	9,525	7,146
268	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Lodging	Per unit	709,755	709,755	672,435	605,251	520,162	429,562	343,214	267,056	203,547	152,710	184,194	70,976	67,243	60,525	52,016	42,956	34,321	26,706	20,355	15,271
269	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Office	Per unit	884,173	884,173	837,682	753,988	647,989	535,125	427,557	332,684	253,567	190,238	229,458	88,417	83,768	75,399	64,799	53,512	42,756	33,268	25,357	19,024
270	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Service	Per unit	123,510	123,510	117,015	105,324	90,517	74,751	59,725	46,472	35,421	26,574	32,053	12,351	11,702	10,532	9,052	7,475	5,973	4,647	3,542	2,657
271	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Retail	Per unit	1,608,203	1,608,203	1,523,641	1,371,413	1,178,612	973,327	777,675	605,111	461,208	346,019	417,356	160,820	152,364	137,141	117,861	97,333	77,767	60,511	46,121	34,602
272	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Warehouse	Per unit	161,296	161,296	152,814	137,547	118,210	97,620	77,997	60,690	46,257	34,704	41,859	16,130	15,281	13,755	11,821	9,762	7,800	6,069	4,626	3,470
273	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Assembly	Per unit	122,932	122,932	116,468	104,832	90,094	74,402	59,446	46,255	35,255	26,450	31,903	12,293	11,647	10,483	9,009	7,440	5,945	4,626	3,525	2,645
274	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Other	Per unit	2,178,772	2,178,772	2,064,208	1,857,972	1,596,768	1,318,650	1,053,583	819,797	624,838	468,782	565,429	217,877	206,421	185,797	159,677	131,865	105,358	81,980	62,484	46,878
275	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-BSS	bss	Per unit	177,827	138,367	105,462	79,122	58,661	0	0	0	0	0	17,783	13,837	10,546	7,912	5,866	0	0	0	0	0
276	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Education	Per unit	116,239	116,239	110,127	99,124	85,189	70,351	56,209	43,737	33,336	25,010	18,542	0	0	0	0	11,624	11,624	11,013	9,912	8,519
277	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Sales	Per unit	21,349	21,349	20,227	18,206	15,646	12,921	10,324	8,033	6,123	4,593	3,406	0	0	0	0	2,135	2,135	2,023	1,821	1,565
278	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Health	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
279	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Lodging	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
280	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Office	Per unit	163,155	163,155	154,576	139,132	119,572	98,746	78,897	61,390	46,790	35,104	26,026	0	0	0	0	16,316	16,316	15,458	13,913	11,957
281	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Service	Per unit	38,904	38,904	36,858	33,176	28,512	23,546	18,813	14,638	11,157	8,371	6,206	0	0	0	0	3,890	3,890	3,686	3,318	2,851
282	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Retail	Per unit	221,205	221,205	209,574	188,635	162,116	133,879	106,968	83,232	63,438	47,594	35,286	0	0	0	0	22,121	22,121	20,957	18,864	16,212
283	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Warehouse	Per unit	83,715	83,715	79,313	71,389	61,353	50,667	40,482	31,499	24,008	18,012	13,354	0	0	0	0	8,372	8,372	7,931	7,139	6,135
284	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Assembly	Per unit	27,587	27,587	26,136	23,525	20,218	16,696	13,340	10,380	7,912	5,936	4,401	0	0	0	0	2,759	2,759	2,614	2,353	2,022
285	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Other	Per unit	448,306	448,306	424,733	382,298	328,552	271,327	216,786	168,682	128,567	96,457	71,512	0	0	0	0	44,831	44,831	42,473	38,230	32,855
286	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-BSS	BSS	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
287	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Education	Per unit	112,445	112,445	106,532	95,888	82,408	68,054	54,375	42,309	32,247	24,193	17,937	0	0	0	0	11,244	11,244	10,653	9,589	8,241
288	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Sales	Per unit	20,652	20,652	19,566	17,611	15,136	12,499	9,987	7,771	5,923	4,444	3,294	0	0	0	0	2,065	2,065	1,957	1,761	1,514
289	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Health	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
290	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Lodging	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
291	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Office	Per unit	157,830	157,830	149,531	134,591	115,670	95,523	76,321	59,386	45,263	33,959	25,177	0	0	0	0	15,783	15,783	14,953	13,459	11,567
292	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Service	Per unit	37,634	37,634	35,655	32,093	27,581	22,777	18,199	14,161	10,793	8,097	6,003	0	0	0	0	3,763	3,763	3,566	3,209	2,758
293	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Retail	Per unit	213,985	213,985	202,734	182,478	156,825	129,510	103,476	80,515	61,368	46,041	34,134	0	0	0	0	21,399	21,399	20,273	18,248	15,682
294	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Warehouse	Per unit	80,983	80,983	76,724	69,059	59,350	49,013	39,161	30,471	23,225	17,424	12,918	0	0	0	0	8,098	8,098	7,672	6,906	5,935
295	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Assembly	Per unit	26,687	26,687	25,283	22,757	19,558	16,151	12,905	10,041	7,653	5,742	4,257	0	0	0	0	2,669	2,669	2,528	2,276	1,956
296	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Other	Per unit	433,674	433,674	410,870	369,820	317,829	262,471	209,711	163,177	124,371	93,309	69,178	0	0	0	0	43,367	43,367	41,087	36,982	31,783
297	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-BSS	BSS	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
298	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Education	Per unit	48,574	48,574	46,020	41,422	35,599	29,398	23,489	18,277	13,930	10,451	7,748	0	0	0	0	4,857	4,857	4,602	4,142	3,560
299	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Sales	Per unit	8,921	8,921	8,452	7,608	6,538	5,399	4,314	3,357	2,559	1,920	1,423	0	0	0	0	892	892	845	761	654
300	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Health	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
301	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Lodging	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
302	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Office	Per unit	68,180	68,180	64,595	58,141	49,967	41,264	32,970	25,654	19,553	14,669	10,876	0	0	0	0	6,818	6,818	6,459	5,814	4,997
303	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Service	Per unit	16,257	16,257	15,403	13,864	11,915	9,839	7,862	6,117	4,662	3,498	2,593	0	0	0	0	1,626	1,626	1,540	1,386	1,191
304	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Retail	Per unit	92,438	92,438	87,577	78,827	67,745	55,946	44,700	34,781	26,510	19,889	14,745	0	0	0	0	9,244	9,244	8,758	7,883	6,775
305	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Warehouse	Per unit	34,983	34,983	33,144	29,832	25,638	21,173	16,917	13,163	10,033	7,527	5,580	0	0	0	0	3,498	3,498	3,314	2,983	2,564
306	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Assembly	Per unit	11,528	11,528	10,922	9,831	8,449	6,977	5,575	4,338	3,306	2,480	1,839	0	0	0	0	1,153	1,153	1,092	983	845
307	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Other	Per unit	187,339	187,339	177,489	159,756	137,296	113,383	90,591	70,489	53,726	40,308	29,884	0	0	0	0	18,734	18,734	17,749	15,976	13,730
308	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-BSS	BSS	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
309	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Education	Per unit	39,736	31,748	24,704	18,829	14,126	10,473	0	3,974	3,175	2,470	1,883	1,413	1,047	0	397	317	247	188	141	105
310	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Sales	Per unit	482	385	300	229	171	127	0	48	39	30	23	17	13	0	5	4	3	2	2	1
311	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Health	Per unit	32,739	26,158	20,354	15,513	11,639	8,629	0	3,274	2,616	2,035	1,551	1,164	863	0	327	262	204	155	116	86
312	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Lodging	Per unit	26,132	20,879	16,246	12,383	9,290	6,887	0	2,613	2,088	1,625	1,238	929	689	0	261	209	162	124	93	69
313	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Office	Per unit	27,063	21,623	16,825	12,824	9,621	7,133	0	2,706	2,162	1,682	1,282	962	713	0	271	216	168	128	96	71
314	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Service	Per unit	527	421	328	250	188	139	0	53	42	33	25	19	14	0	5	4	3	2	2	1
315	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Retail	Per unit	8,930	7,135	5,552	4,232	3,175	2,354	0	893	714	555	423	317	235	0	89	71	56	42	32	24
316	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Warehouse	Per unit	17,743	14,176	11,031	8,407	6,308	4,676	0	1,774	1,418	1,103	841	631	468	0	177	142	110	84	63	47
317	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Assembly	Per unit	6,737	5,383	4,188	3,192	2,395	1,776	0	674	538	419	319	239	178	0	67	54	42	32	24	18
318	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Other	Per unit	105,180	84,037	65,390	49,839	37,392	27,722	0	10,518	8,404	6,539	4,984	3,739	2,772	0	1,052	840	654	498	374	277
319	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-BSS	BSS	Per unit	13,012	10,125	7,717	5,790	4,292	0	0	1,301	1,012	772	579	429	0	0	130	101	77	58	43	0
320	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	Per unit	251,161	237,954	214,180	184,070	152,009	121,453	94,503	72,029	54,039	40,064	25,116	23,795	21,418	18,407	15,201	12,145	9,450	7,203	5,404	4,006
321	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	Per unit	25,237	23,910	21,521	18,495	15,274	12,204	9,496	7,238	5,430	4,026	2,524	2,391	2,152	1,850	1,527	1,220	950	724	543	403
322	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	Per unit	76,123	72,120	64,915	55,789	46,072	36,811	28,643	21,831	16,379	12,143	7,612	7,212	6,491	5,579	4,607	3,681	2,864	2,183	1,638	1,214
323	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	Per unit	34,179	32,382	29,147	25,049	20,686	16,528	12,861	9,802	7,354	5,452	3,418	3,238	2,915	2,505	2,069	1,653	1,286	980	735	545
324	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	Per unit	495,555	469,497	422,590	363,180	299,923	239,634	186,460	142,117	106,623	79,049	49,555	46,950	42,259	36,318	29,992	23,963	18,646	14,212	10,662	7,905
325	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	Per unit	45,989	43,570	39,217	33,704	27,834	22,239	17,304	13,189	9,895	7,336	4,599	4,357	3,922	3,370	2,783	2,224	1,730	1,319	989	734
326	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	Per unit	394,476	373,733	336,394	289,102	238,747	190,756	148,428	113,130	84,875	62,926	39,448	37,373	33,639	28,910	23,875	19,076	14,843	11,313	8,487	6,293
327	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	Per unit	120,375	114,045	102,651	88,219	72,854	58,209	45,293	34,522	25,900	19,202	12,037	11,404	10,265	8,822	7,285	5,821	4,529	3,452	2,590	1,920
328	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	Per unit	29,336	27,793	25,016	21,499	17,755	14,186	11,038	8,413	6,312	4,680	2,934	2,779	2,502	2,150	1,775	1,419	1,104	841	631	468
329	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	Per unit	672,565	637,201	573,538	492,907	407,054	325,231	253,063	192,881	144,708	107,286	67,257	63,720	57,354	49,291	40,705	32,523	25,306	19,288	14,471	10,729
330	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	Per unit	165,949	129,125	98,418	73,837	54,742	0	0	0	0	0	16,595	12,913	9,842	7,384	5,474	0	0	0	0	0
331	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	Per unit	322,115	305,177	274,687	236,070	194,952	155,764	121,201	92,378	69,306	51,383	0	0	0	0	0	32,211	30,518	27,469	23,607	19,495
332	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	Per unit	32,365	30,663	27,600	23,720	19,588	15,651	12,178	9,282	6,964	5,163	0	0	0	0	0	3,237	3,066	2,760	2,372	1,959
333	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	Per unit	97,624	92,491	83,250	71,546	59,085	47,208	36,733	27,997	21,005	15,573	0	0	0	0	0	9,762	9,249	8,325	7,155	5,908
334	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	Per unit	43,833	41,529	37,379	32,124	26,529	21,196	16,493	12,571	9,431	6,992	0	0	0	0	0	4,383	4,153	3,738	3,212	2,653
335	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	Per unit	635,526	602,109	541,952	465,761	384,637	307,320	239,126	182,259	136,739	101,377	0	0	0	0	0	63,553	60,211	54,195	46,576	38,464
336	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	Per unit	58,978	55,877	50,294	43,224	35,695	28,520	22,192	16,914	12,690	9,408	0	0	0	0	0	5,898	5,588	5,029	4,322	3,570
337	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	Per unit	505,897	479,296	431,409	370,759	306,182	244,635	190,352	145,083	108,848	80,699	0	0	0	0	0	50,590	47,930	43,141	37,076	30,618
338	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	Per unit	154,375	146,257	131,645	113,137	93,432	74,651	58,086	44,272	33,215	24,625	0	0	0	0	0	15,437	14,626	13,164	11,314	9,343
339	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	Per unit	37,622	35,643	32,082	27,572	22,770	18,193	14,156	10,789	8,095	6,001	0	0	0	0	0	3,762	3,564	3,208	2,757	2,277
340	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	Per unit	862,534	817,180	735,535	632,130	522,028	417,093	324,542	247,361	185,582	137,589	0	0	0	0	0	86,253	81,718	73,554	63,213	52,203
341	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	Per unit	212,821	165,597	126,216	94,693	70,205	0	0	0	0	0	0	0	0	0	0	21,282	16,560	12,622	9,469	7,020
342	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Education	Per unit	327,639	310,412	279,398	240,119	198,296	158,436	123,279	93,962	70,495	52,264	0	32,764	31,041	27,940	24,012	19,830	15,844	12,328	9,396	7,049
343	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Sales	Per unit	32,920	31,189	28,073	24,126	19,924	15,919	12,387	9,441	7,083	5,251	0	3,292	3,119	2,807	2,413	1,992	1,592	1,239	944	708
344	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Health	Per unit	99,299	94,077	84,678	72,774	60,098	48,018	37,363	28,477	21,365	15,840	0	9,930	9,408	8,468	7,277	6,010	4,802	3,736	2,848	2,137
345	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Lodging	Per unit	44,585	42,241	38,021	32,675	26,984	21,560	16,776	12,786	9,593	7,112	0	4,459	4,224	3,802	3,268	2,698	2,156	1,678	1,279	959
346	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Office	Per unit	646,426	612,436	551,247	473,750	391,234	312,591	243,228	185,385	139,084	103,116	0	64,643	61,244	55,125	47,375	39,123	31,259	24,323	18,539	13,908
347	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Service	Per unit	59,990	56,836	51,157	43,965	36,307	29,009	22,572	17,204	12,907	9,569	0	5,999	5,684	5,116	4,397	3,631	2,901	2,257	1,720	1,291
348	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Retail	Per unit	514,574	487,517	438,809	377,119	311,434	248,831	193,616	147,572	110,715	82,083	0	51,457	48,752	43,881	37,712	31,143	24,883	19,362	14,757	11,072
349	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Warehouse	Per unit	157,023	148,766	133,903	115,078	95,034	75,931	59,082	45,032	33,785	25,048	0	15,702	14,877	13,390	11,508	9,503	7,593	5,908	4,503	3,378
350	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Assembly	Per unit	38,267	36,255	32,633	28,045	23,160	18,505	14,399	10,974	8,233	6,104	0	3,827	3,625	3,263	2,804	2,316	1,850	1,440	1,097	823
351	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Other	Per unit	877,328	831,196	748,151	642,972	530,982	424,247	330,108	251,604	188,765	139,949	0	87,733	83,120	74,815	64,297	53,098	42,425	33,011	25,160	18,876
352	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-BSS	BSS	Per unit	216,472	168,437	128,381	96,317	71,409	0	0	0	0	0	0	21,647	16,844	12,838	9,632	7,141	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
353	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	Per unit	890,891	844,046	759,717	652,912	539,191	430,806	335,212	255,494	191,683	142,112	89,089	84,405	75,972	65,291	53,919	43,081	33,521	25,549	19,168	14,211
354	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	Per unit	89,514	84,807	76,334	65,603	54,176	43,286	33,681	25,671	19,260	14,279	8,951	8,481	7,633	6,560	5,418	4,329	3,368	2,567	1,926	1,428
355	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	Per unit	270,005	255,808	230,250	197,880	163,414	130,566	101,594	77,433	58,094	43,070	27,001	25,581	23,025	19,788	16,341	13,057	10,159	7,743	5,809	4,307
356	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	Per unit	121,233	114,858	103,382	88,848	73,373	58,624	45,616	34,768	26,084	19,339	12,123	11,486	10,338	8,885	7,337	5,862	4,562	3,477	2,608	1,934
357	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	Per unit	1,757,711	1,665,287	1,498,908	1,288,183	1,063,813	849,972	661,366	504,085	378,187	280,385	175,771	166,529	149,891	128,818	106,381	84,997	66,137	50,408	37,819	28,038
358	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	Per unit	163,120	154,543	139,102	119,547	98,724	78,879	61,376	46,780	35,097	26,020	16,312	15,454	13,910	11,955	9,872	7,888	6,138	4,678	3,510	2,602
359	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	Per unit	1,399,189	1,325,616	1,193,173	1,025,431	846,826	676,602	526,466	401,266	301,048	223,194	139,919	132,562	119,317	102,543	84,683	67,660	52,647	40,127	30,105	22,319
360	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	Per unit	426,963	404,513	364,098	312,911	258,409	206,466	160,652	122,446	91,865	68,108	42,696	40,451	36,410	31,291	25,841	20,647	16,065	12,245	9,186	6,811
361	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	Per unit	104,052	98,581	88,732	76,258	62,975	50,316	39,151	29,841	22,388	16,598	10,405	9,858	8,873	7,626	6,298	5,032	3,915	2,984	2,239	1,660
362	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	Per unit	2,385,561	2,260,123	2,034,313	1,748,319	1,443,804	1,153,580	897,604	684,142	513,274	380,538	238,556	226,012	203,431	174,832	144,380	115,358	89,760	68,414	51,327	38,054
363	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	Per unit	809,492	629,868	480,077	360,176	267,032	0	0	0	0	0	80,949	62,987	48,008	36,018	26,703	0	0	0	0	0
364	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	Per unit	1,281,241	1,213,871	1,092,593	938,990	775,441	619,567	482,087	367,440	275,670	204,380	0	0	0	0	0	128,124	121,387	109,259	93,899	77,544
365	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	Per unit	128,735	121,966	109,780	94,347	77,914	62,252	48,439	36,919	27,699	20,535	0	0	0	0	0	12,874	12,197	10,978	9,435	7,791
366	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	Per unit	388,310	367,892	331,136	284,583	235,016	187,774	146,108	111,361	83,548	61,942	0	0	0	0	0	38,831	36,789	33,114	28,458	23,502
367	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	Per unit	174,352	165,184	148,680	127,778	105,522	84,311	65,603	50,001	37,513	27,812	0	0	0	0	0	17,435	16,518	14,868	12,778	10,552
368	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	Per unit	2,527,865	2,394,945	2,155,664	1,852,610	1,529,930	1,222,393	951,148	724,953	543,892	403,238	0	0	0	0	0	252,786	239,494	215,566	185,261	152,993
369	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	Per unit	234,592	222,257	200,051	171,927	141,981	113,441	88,269	67,277	50,475	37,421	0	0	0	0	0	23,459	22,226	20,005	17,193	14,198
370	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	Per unit	2,012,253	1,906,445	1,715,971	1,474,730	1,217,868	973,060	757,141	577,083	432,954	320,989	0	0	0	0	0	201,225	190,644	171,597	147,473	121,787
371	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	Per unit	614,040	581,753	523,629	450,015	371,633	296,930	231,042	176,097	132,116	97,950	0	0	0	0	0	61,404	58,175	52,363	45,001	37,163
372	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	Per unit	149,644	141,775	127,610	109,670	90,568	72,363	56,306	42,916	32,197	23,871	0	0	0	0	0	14,964	14,178	12,761	10,967	9,057
373	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	Per unit	3,430,811	3,250,412	2,925,662	2,514,356	2,076,417	1,659,029	1,290,896	983,904	738,169	547,273	0	0	0	0	0	343,081	325,041	292,566	251,436	207,642
374	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	Per unit	1,164,177	905,850	690,427	517,989	384,033	0	0	0	0	0	0	0	0	0	0	116,418	90,585	69,043	51,799	38,403
375	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Education	Per unit	936,950	887,684	798,995	686,668	567,067	453,079	352,542	268,703	201,593	149,460	0	93,695	88,768	79,899	68,667	56,707	45,308	35,254	26,870	20,159
376	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Food Sales	Per unit	94,142	89,192	80,280	68,994	56,977	45,524	35,422	26,998	20,255	15,017	0	9,414	8,919	8,028	6,899	5,698	4,552	3,542	2,700	2,026
377	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Health	Per unit	283,965	269,033	242,154	208,111	171,863	137,316	106,846	81,437	61,098	45,297	0	28,396	26,903	24,215	20,811	17,186	13,732	10,685	8,144	6,110
378	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Lodging	Per unit	127,500	120,796	108,727	93,442	77,167	61,655	47,974	36,565	27,433	20,338	0	12,750	12,080	10,873	9,344	7,717	6,166	4,797	3,657	2,743
379	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Office	Per unit	1,848,585	1,751,383	1,576,401	1,354,782	1,118,812	893,916	695,559	530,146	397,739	294,881	0	184,858	175,138	157,640	135,478	111,881	89,392	69,556	53,015	39,774
380	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Food Service	Per unit	171,553	162,533	146,294	125,727	103,828	82,958	64,550	49,199	36,911	27,366	0	17,155	16,253	14,629	12,573	10,383	8,296	6,455	4,920	3,691
381	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Retail	Per unit	1,471,527	1,394,151	1,254,860	1,078,445	890,607	711,582	553,685	422,011	316,612	234,734	0	147,153	139,415	125,486	107,845	89,061	71,158	55,368	42,201	31,661
382	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Warehouse	Per unit	449,037	425,426	382,921	329,088	271,769	217,140	168,957	128,777	96,614	71,629	0	44,904	42,543	38,292	32,909	27,177	21,714	16,896	12,878	9,661
383	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Assembly	Per unit	109,432	103,678	93,319	80,200	66,231	52,918	41,175	31,383	23,545	17,456	0	10,943	10,368	9,332	8,020	6,623	5,292	4,118	3,138	2,355
384	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-Standard	Other	Per unit	2,508,894	2,376,971	2,139,487	1,838,706	1,518,449	1,213,220	944,010	719,512	539,811	400,211	0	250,889	237,697	213,949	183,871	151,845	121,322	94,401	71,951	53,981
385	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type C)	Biz-BSS	BSS	Per unit	416,253	323,888	246,863	185,208	137,312	0	0	0	0	0	0	41,625	32,389	24,686	18,521	13,731	0	0	0	0
386	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	Per unit	800,475	758,384	682,614	586,648	484,468	387,084	301,191	229,564	172,229	127,689	80,047	75,838	68,261	58,665	48,447	38,708	30,119	22,956	17,223	12,769
387	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	Per unit	80,429	76,200	68,587	58,945	48,678	38,893	30,263	23,066	17,305	12,830	8,043	7,620	6,859	5,894	4,868	3,889	3,026	2,307	1,731	1,283
388	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	Per unit	242,603	229,846	206,882	177,797	146,829	117,315	91,283	69,575	52,198	38,699	24,260	22,985	20,688	17,780	14,683	11,731	9,128	6,957	5,220	3,870
389	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	Per unit	108,929	103,201	92,890	79,831	65,927	52,674	40,986	31,239	23,437	17,376	10,893	10,320	9,289	7,983	6,593	5,267	4,099	3,124	2,344	1,738
390	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	Per unit	1,579,321	1,496,277	1,346,784	1,157,446	955,847	763,708	594,244	452,925	339,805	251,929	157,932	149,628	134,678	115,745	95,585	76,371	59,424	45,293	33,980	25,193
391	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	Per unit	146,565	138,858	124,985	107,414	88,705	70,874	55,147	42,033	31,535	23,380	14,656	13,886	12,498	10,741	8,870	7,087	5,515	4,203	3,153	2,338
392	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	Per unit	1,257,185	1,191,080	1,072,078	921,360	760,881	607,934	473,035	360,541	270,494	200,542	125,719	119,108	107,208	92,136	76,088	60,793	47,304	36,054	27,049	20,054
393	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	Per unit	383,631	363,459	327,145	281,153	232,183	185,511	144,347	110,019	82,542	61,196	38,363	36,346	32,715	28,115	23,218	18,551	14,435	11,002	8,254	6,120
394	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	Per unit	93,492	88,576	79,727	68,518	56,584	45,210	35,178	26,812	20,116	14,914	9,349	8,858	7,973	6,852	5,658	4,521	3,518	2,681	2,012	1,491
395	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	Per unit	2,143,450	2,030,743	1,827,851	1,570,882	1,297,272	1,036,503	806,506	614,709	461,182	341,917	214,345	203,074	182,785	157,088	129,727	103,650	80,651	61,471	46,118	34,192
396	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	Per unit	431,839	336,015	256,106	192,143	142,453	0	0	0	0	0	43,184	33,602	25,611	19,214	14,245	0	0	0	0	0
397	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	Per unit	1,260,608	1,194,322	1,074,997	923,868	762,953	609,589	474,323	361,523	271,231	201,088	0	0	0	0	0	126,061	119,432	107,500	92,387	76,295
398	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	Per unit	126,662	120,002	108,012	92,827	76,659	61,250	47,659	36,325	27,252	20,205	0	0	0	0	0	12,666	12,000	10,801	9,283	7,666
399	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	Per unit	382,057	361,967	325,803	280,000	231,231	184,750	143,755	109,568	82,203	60,945	0	0	0	0	0	38,206	36,197	32,580	28,000	23,123
400	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	Per unit	171,544	162,524	146,286	125,720	103,823	82,953	64,546	49,196	36,909	27,364	0	0	0	0	0	17,154	16,252	14,629	12,572	10,382
401	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	Per unit	2,487,155	2,356,375	2,120,948	1,822,774	1,505,291	1,202,707	935,831	713,278	535,133	396,744	0	0	0	0	0	248,715	235,638	212,095	182,277	150,529
402	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	Per unit	230,814	218,677	196,829	169,158	139,695	111,614	86,847	66,194	49,662	36,819	0	0	0	0	0	23,081	21,868	19,683	16,916	13,969
403	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	Per unit	1,979,846	1,875,742	1,688,336	1,450,980	1,198,255	957,389	744,948	567,789	425,981	315,819	0	0	0	0	0	197,985	187,574	168,834	145,098	119,826
404	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	Per unit	604,151	572,384	515,197	442,768	365,648	292,148	227,321	173,261	129,988	96,372	0	0	0	0	0	60,415	57,238	51,520	44,277	36,565
405	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	Per unit	147,234	139,492	125,555	107,904	89,110	71,198	55,399	42,224	31,679	23,486	0	0	0	0	0	14,723	13,949	12,556	10,790	8,911
406	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	Per unit	3,375,559	3,198,065	2,878,545	2,473,864	2,042,977	1,632,311	1,270,106	968,058	726,281	538,459	0	0	0	0	0	337,556	319,807	287,854	247,386	204,298
407	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	Per unit	680,071	529,165	403,323	302,591	224,339	0	0	0	0	0	0	0	0	0	0	68,007	52,917	40,332	30,259	22,434
408	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Education	Per unit	971,629	920,539	828,568	712,083	588,056	469,848	365,591	278,648	209,055	154,991	0	97,163	92,054	82,857	71,208	58,806	46,985	36,559	27,865	20,905
409	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Sales	Per unit	97,626	92,493	83,252	71,548	59,086	47,209	36,733	27,998	21,005	15,573	0	9,763	9,249	8,325	7,155	5,909	4,721	3,673	2,800	2,101
410	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Health	Per unit	294,475	278,991	251,117	215,813	178,224	142,399	110,801	84,451	63,359	46,974	0	29,448	27,899	25,112	21,581	17,822	14,240	11,080	8,445	6,336
411	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Lodging	Per unit	132,220	125,267	112,752	96,900	80,023	63,937	49,750	37,919	28,448	21,091	0	13,222	12,527	11,275	9,690	8,002	6,394	4,975	3,792	2,845
412	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Office	Per unit	1,917,006	1,816,206	1,634,748	1,404,926	1,160,223	927,002	721,303	549,768	412,461	305,795	0	191,701	181,621	163,475	140,493	116,022	92,700	72,130	54,977	41,246
413	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Service	Per unit	177,903	168,548	151,709	130,381	107,671	86,028	66,939	51,020	38,277	28,379	0	17,790	16,855	15,171	13,038	10,767	8,603	6,694	5,102	3,828
414	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Retail	Per unit	1,525,992	1,445,752	1,301,306	1,118,362	923,570	737,920	574,178	437,631	328,331	243,422	0	152,599	144,575	130,131	111,836	92,357	73,792	57,418	43,763	32,833
415	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Warehouse	Per unit	465,657	441,172	397,094	341,269	281,828	225,177	175,211	133,543	100,190	74,280	0	46,566	44,117	39,709	34,127	28,183	22,518	17,521	13,354	10,019
416	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Assembly	Per unit	113,482	107,515	96,773	83,168	68,683	54,876	42,700	32,545	24,417	18,102	0	11,348	10,752	9,677	8,317	6,868	5,488	4,270	3,255	2,442
417	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Other	Per unit	2,601,755	2,464,950	2,218,675	1,906,762	1,574,651	1,258,124	978,951	746,143	559,791	415,024	0	260,176	246,495	221,868	190,676	157,465	125,812	97,895	74,614	55,979
418	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-BSS	BSS	Per unit	524,173	407,861	310,866	233,226	172,912	0	0	0	0	0	0	52,417	40,786	31,087	23,323	17,291	0	0	0	0
419	Lighting_Int	LED Specialty Lamp	Biz-Standard	Education	Per unit	185,312	185,312	175,568	158,027	135,811	112,156	89,611	69,727	53,145	39,872	48,092	18,531	17,557	15,803	13,581	11,216	8,961	6,973	5,314	3,987
420	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Sales	Per unit	33,542	33,542	31,779	28,604	24,582	20,301	16,220	12,621	9,619	7,217	8,705	3,354	3,178	2,860	2,458	2,030	1,622	1,262	962	722
421	Lighting_Int	LED Specialty Lamp	Biz-Standard	Health	Per unit	164,371	164,371	155,728	140,169	120,464	99,482	79,485	61,847	47,139	35,366	42,657	16,437	15,573	14,017	12,046	9,948	7,948	6,185	4,714	3,537
422	Lighting_Int	LED Specialty Lamp	Biz-Standard	Lodging	Per unit	351,250	351,250	332,781	299,532	257,423	212,586	169,853	132,163	100,733	75,575	91,155	35,125	33,278	29,953	25,742	21,259	16,985	13,216	10,073	7,557
423	Lighting_Int	LED Specialty Lamp	Biz-Standard	Office	Per unit	437,568	437,568	414,560	373,141	320,683	264,828	211,594	164,642	125,488	94,147	113,556	43,757	41,456	37,314	32,068	26,483	21,159	16,464	12,549	9,415
424	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Service	Per unit	61,124	61,124	57,910	52,124	44,796	36,994	29,557	22,999	17,529	13,151	15,863	6,112	5,791	5,212	4,480	3,699	2,956	2,300	1,753	1,315
425	Lighting_Int	LED Specialty Lamp	Biz-Standard	Retail	Per unit	795,883	795,883	754,034	678,698	583,283	481,689	384,863	299,463	228,247	171,241	206,545	79,588	75,403	67,870	58,328	48,169	38,486	29,946	22,825	17,124
426	Lighting_Int	LED Specialty Lamp	Biz-Standard	Warehouse	Per unit	79,823	79,823	75,626	68,070	58,501	48,311	38,600	30,035	22,892	17,175	20,716	7,982	7,563	6,807	5,850	4,831	3,860	3,003	2,289	1,717
427	Lighting_Int	LED Specialty Lamp	Biz-Standard	Assembly	Per unit	60,838	60,838	57,639	51,880	44,586	36,821	29,419	22,891	17,447	13,090	15,788	6,084	5,764	5,188	4,459	3,682	2,942	2,289	1,745	1,309
428	Lighting_Int	LED Specialty Lamp	Biz-Standard	Other	Per unit	1,078,251	1,078,251	1,021,555	919,491	790,224	652,586	521,407	405,709	309,226	231,995	279,825	107,825	102,155	91,949	79,022	65,259	52,141	40,571	30,923	23,200
429	Lighting_Int	LED Specialty Lamp	Biz-BSS	BSS	Per unit	88,004	68,477	52,192	39,157	29,031	0	0	0	0	0	8,800	6,848	5,219	3,916	2,903	0	0	0	0	0
430	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Education	Per unit	2,641	3,130	3,566	3,884	4,024	3,958	3,696	3,285	2,794	2,288	1,821	1,412	1,074	804	595	226	273	318	354	373
431	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Sales	Per unit	310	368	420	458	475	467	436	388	330	271	215	167	127	95	70	27	32	38	42	44
432	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Health	Per unit	862	1,027	1,175	1,286	1,338	1,321	1,238	1,103	941	772	615	477	363	272	201	76	92	108	120	126
433	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Lodging	Per unit	772	927	1,070	1,180	1,237	1,229	1,158	1,038	888	731	583	453	345	259	192	73	88	103	114	120
434	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Office	Per unit	5,143	6,095	6,945	7,565	7,841	7,714	7,204	6,405	5,448	4,462	3,551	2,755	2,095	1,569	1,161	440	533	621	690	728
435	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Service	Per unit	566	671	765	834	865	851	795	707	602	493	392	304	232	173	128	49	59	69	76	80
436	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Retail	Per unit	4,945	5,876	6,713	7,330	7,615	7,507	7,024	6,255	5,328	4,369	3,478	2,699	2,053	1,538	1,139	432	523	609	676	714
437	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Warehouse	Per unit	1,324	1,570	1,789	1,948	2,020	1,987	1,856	1,650	1,404	1,150	915	710	540	405	300	114	138	160	178	188
438	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Assembly	Per unit	398	473	541	591	613	605	566	504	429	352	280	217	165	124	92	35	42	49	54	57
439	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Other	Per unit	8,227	9,771	11,158	12,178	12,645	12,462	11,656	10,377	8,838	7,245	5,767	4,476	3,404	2,550	1,888	716	867	1,009	1,121	1,184
440	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	BSS	Per unit	1,772	2,107	2,411	2,638	2,745	2,719	2,552	2,278	1,943	1,595	1,269	984	748	560	415	157	190	221	246	260

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
441	Lighting_Int	Lighting Power Density	Biz-Custom	Education	Per unit	157,394,461	188,485,420	217,113,435	239,107,877	250,543,350	249,077,136	234,899,285	210,688,856	180,590,982	148,843,713	118,924,082	92,535,233	70,529,130	52,914,154	39,230,138	14,884,371	18,023,651	20,972,008	23,299,914	24,593,067
442	Lighting_Int	Lighting Power Density	Biz-Custom	Food Sales	Per unit	12,394,005	14,861,802	17,139,778	18,896,068	19,817,338	19,715,493	18,603,733	16,693,518	14,313,444	11,800,058	9,428,084	7,336,024	5,591,421	4,194,938	3,110,094	1,180,006	1,428,882	1,662,623	1,847,175	1,949,693
443	Lighting_Int	Lighting Power Density	Biz-Custom	Health	Per unit	51,005,726	61,160,176	70,533,143	77,759,141	81,548,991	81,128,879	76,553,257	68,692,315	58,898,190	48,555,688	38,795,328	30,186,777	23,007,962	17,261,617	12,797,627	4,855,569	5,879,662	6,841,473	7,600,881	8,022,733
444	Lighting_Int	Lighting Power Density	Biz-Custom	Lodging	Per unit	17,805,740	21,454,324	24,851,978	27,503,718	28,937,051	28,862,640	27,290,129	24,525,925	21,053,675	17,371,783	13,879,816	10,799,932	8,231,565	6,175,694	4,578,611	1,737,178	2,103,569	2,447,676	2,719,370	2,870,295
445	Lighting_Int	Lighting Power Density	Biz-Custom	Office	Per unit	266,789,963	319,357,502	367,722,224	404,838,187	424,080,446	421,502,605	397,438,796	356,426,767	305,477,795	251,756,357	201,149,870	156,515,399	119,293,966	89,499,747	66,354,408	25,175,636	30,485,458	35,472,350	39,409,804	41,597,061
446	Lighting_Int	Lighting Power Density	Biz-Custom	Food Service	Per unit	22,585,046	27,081,606	31,232,178	34,432,092	36,110,458	35,924,592	33,898,587	30,417,763	26,080,863	21,501,106	17,179,088	13,367,107	10,188,232	7,643,674	5,666,960	2,150,111	2,603,593	3,029,496	3,365,771	3,552,573
447	Lighting_Int	Lighting Power Density	Biz-Custom	Retail	Per unit	171,595,511	205,798,729	237,381,542	261,742,856	274,536,647	273,151,986	257,768,350	231,314,305	198,343,389	163,520,367	130,650,526	101,659,619	77,483,617	58,131,725	43,098,404	16,352,037	19,800,864	23,039,941	25,597,390	27,018,053
448	Lighting_Int	Lighting Power Density	Biz-Custom	Warehouse	Per unit	37,347,486	44,745,402	51,563,213	56,807,677	59,542,922	59,209,266	55,849,957	50,101,216	42,948,920	35,401,652	28,285,434	22,008,992	16,774,963	12,585,338	9,330,671	3,540,165	4,286,826	4,988,076	5,541,756	5,849,325
449	Lighting_Int	Lighting Power Density	Biz-Custom	Assembly	Per unit	18,488,249	22,196,857	25,628,080	28,282,044	29,685,420	29,552,560	27,900,685	25,045,920	21,481,508	17,713,428	14,152,786	11,012,331	8,393,453	6,297,149	4,668,657	1,771,343	2,144,939	2,495,814	2,772,850	2,926,745
450	Lighting_Int	Lighting Power Density	Biz-Custom	Other	Per unit	283,735,338	340,296,774	392,526,601	432,815,795	453,976,855	451,691,469	426,255,865	382,512,615	327,991,721	270,407,295	216,051,714	168,110,574	128,131,655	96,130,182	71,270,161	27,040,730	32,743,921	38,100,259	42,329,412	44,678,708
451	Lighting_Int	Lighting Power Density	Biz-Custom	BSS	Per unit	115,979,670	139,174,620	160,817,995	177,732,700	186,864,312	186,864,312	177,038,612	159,350,594	136,948,238	113,095,198	90,361,510	70,310,598	53,589,808	40,205,506	29,808,046	11,309,520	13,694,824	15,935,059	17,703,861	18,686,431
452	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Education	Per unit	1,372,012	1,283,470	1,141,866	971,400	795,392	631,138	488,434	370,731	277,266	205,082	128,530	121,772	109,606	94,197	77,790	62,153	48,362	36,861	27,654	20,503
453	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Sales	Per unit	151,930	142,175	126,523	107,657	88,163	69,963	54,148	41,101	30,740	22,737	14,248	13,498	12,150	10,442	8,623	6,890	5,361	4,086	3,066	2,273
454	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Health	Per unit	365,824	343,203	306,171	261,102	214,243	170,296	131,974	100,278	75,059	55,552	34,825	32,994	29,698	25,523	21,077	16,840	13,104	9,987	7,493	5,555
455	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Lodging	Per unit	165,085	155,629	139,453	119,384	98,274	78,317	60,817	46,283	34,683	25,692	16,106	15,259	13,735	11,804	9,748	7,788	6,060	4,619	3,465	2,569
456	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Office	Per unit	2,610,990	2,442,491	2,173,056	1,848,709	1,513,803	1,201,241	929,670	705,660	527,770	390,377	244,677	231,811	208,651	179,318	148,085	118,318	92,063	70,170	52,644	39,030
457	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Service	Per unit	276,855	259,073	230,549	196,167	160,644	127,481	98,662	74,889	56,010	41,429	25,960	24,595	22,138	19,026	15,712	12,554	9,768	7,445	5,586	4,141
458	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Retail	Per unit	2,214,060	2,074,118	1,847,689	1,573,646	1,289,751	1,024,200	793,106	602,264	450,586	333,367	208,928	197,942	178,165	153,118	126,449	101,031	78,612	59,917	44,953	33,328
459	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Warehouse	Per unit	697,980	652,777	580,607	493,804	404,237	320,693	248,141	188,318	140,826	104,155	65,269	61,837	55,659	47,834	39,502	31,562	24,558	18,718	14,043	10,411
460	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Assembly	Per unit	180,866	169,475	151,001	128,621	105,426	83,723	64,834	49,234	36,835	27,253	17,077	16,179	14,563	12,516	10,336	8,258	6,426	4,898	3,674	2,724
461	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Other	Per unit	3,877,047	3,630,929	3,233,624	2,753,304	2,256,075	1,791,221	1,386,846	1,053,006	787,737	582,768	365,213	346,010	311,440	267,656	221,037	176,605	137,417	104,738	78,579	58,258
462	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	BSS	Per unit	934,963	877,813	784,630	670,789	551,791	440,873	343,045	261,464	196,162	145,433	91,171	86,377	77,747	66,817	55,179	44,087	34,305	26,146	19,616	14,543
463	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Education	Per unit	849,341	794,529	706,869	601,343	492,386	390,704	302,364	229,500	171,641	126,955	79,566	75,383	67,851	58,312	48,156	38,476	29,938	22,818	17,119	12,692
464	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Sales	Per unit	94,052	88,013	78,324	66,645	54,577	43,311	33,520	25,443	19,029	14,075	8,820	8,356	7,521	6,464	5,338	4,265	3,319	2,529	1,898	1,407
465	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Health	Per unit	226,462	212,459	189,534	161,635	132,627	105,421	81,698	62,077	46,465	34,389	21,558	20,425	18,384	15,800	13,048	10,425	8,112	6,183	4,638	3,439
466	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Lodging	Per unit	102,195	96,342	86,328	73,904	60,836	48,482	37,649	28,651	21,471	15,905	9,970	9,446	8,502	7,307	6,034	4,821	3,752	2,859	2,145	1,590
467	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Office	Per unit	1,616,327	1,512,018	1,345,225	1,144,439	937,116	743,625	575,510	436,837	326,715	241,662	151,467	143,502	129,165	111,006	91,672	73,244	56,992	43,438	32,589	24,162
468	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Service	Per unit	171,386	160,379	142,721	121,437	99,446	78,917	61,077	46,360	34,673	25,646	16,071	15,226	13,704	11,778	9,726	7,771	6,047	4,609	3,458	2,564
469	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Retail	Per unit	1,370,609	1,283,978	1,143,808	974,162	798,417	634,029	490,970	372,830	278,934	206,370	129,336	122,535	110,293	94,787	78,278	62,543	48,665	37,092	27,828	20,631
470	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Warehouse	Per unit	432,083	404,100	359,423	305,688	250,242	198,525	153,611	116,578	87,178	64,477	40,404	38,280	34,455	29,611	24,454	19,538	15,203	11,587	8,693	6,445
471	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Assembly	Per unit	111,965	104,913	93,477	79,623	65,263	51,829	40,136	30,478	22,803	16,871	10,572	10,016	9,015	7,748	6,398	5,112	3,978	3,032	2,275	1,686
472	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Other	Per unit	2,400,077	2,247,718	2,001,767	1,704,426	1,396,618	1,108,851	858,524	651,861	487,647	360,761	226,084	214,196	192,796	165,692	136,832	109,327	85,068	64,838	48,644	36,064
473	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	BSS	Per unit	578,787	543,408	485,724	415,251	341,585	272,922	212,361	161,859	121,434	90,030	56,439	53,472	48,129	41,363	34,158	27,292	21,236	16,186	12,143	9,003
474	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Education	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
475	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Sales	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
476	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Health	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
477	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Lodging	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
478	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Office	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
479	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Service	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
480	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Retail	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
481	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Warehouse	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
482	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Assembly	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
483	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Other	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
484	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	BSS	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
485	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Education	Per unit	284,176	351,183	420,329	484,136	533,307	559,035	556,012	524,586	470,692	403,573	333,193	266,216	207,144	157,882	118,450	154,372	83,298	100,867	117,367	130,394
486	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Food Sales	Per unit	31,468	38,902	46,574	53,655	59,113	61,970	61,639	58,158	52,184	44,744	36,935	29,510	22,962	17,501	13,130	17,112	9,234	11,181	13,010	14,454
487	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Health	Per unit	75,771	93,907	112,704	130,131	143,649	150,841	150,233	141,894	127,421	109,319	90,278	72,131	56,125	42,778	32,094	41,827	22,570	27,330	31,800	35,330
488	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Lodging	Per unit	34,193	42,583	51,334	59,500	65,892	69,370	69,231	65,490	58,879	50,558	41,752	33,360	25,957	19,784	14,843	19,344	10,438	12,640	14,707	16,340
489	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Office	Per unit	540,797	668,315	799,918	921,378	1,014,998	1,064,008	1,058,294	998,511	895,952	768,209	634,282	506,783	394,330	300,553	225,488	293,871	158,571	192,015	223,425	248,226
490	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Food Service	Per unit	57,343	70,888	84,867	97,768	107,711	112,917	112,312	105,968	95,083	81,526	67,297	53,770	41,838	31,889	23,924	31,180	16,824	20,373	23,705	26,337
491	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Retail	Per unit	458,584	567,521	680,148	784,289	864,772	907,193	902,836	852,205	764,923	656,021	541,609	432,738	336,715	256,640	192,543	250,934	135,402	163,960	190,781	211,958
492	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Warehouse	Per unit	144,568	178,613	213,726	246,107	271,039	284,057	282,472	266,470	239,069	204,962	169,198	135,187	105,189	80,174	60,150	78,392	42,300	51,221	59,600	66,215
493	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Assembly	Per unit	37,462	46,372	55,584	64,103	70,687	74,159	73,805	69,667	62,532	53,629	44,270	35,371	27,523	20,977	15,738	20,511	11,068	13,402	15,594	17,325
494	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	Other	Per unit	803,027	993,495	1,190,321	1,372,219	1,512,688	1,586,587	1,578,723	1,490,008	1,337,277	1,146,808	946,752	756,442	588,590	448,616	336,572	438,642	236,688	286,608	333,492	370,510
495	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixtures	Biz-Standard	BSS	Per unit	193,653	240,187	288,828	334,315	369,973	390,507	390,507	369,973	333,009	286,193	236,345	188,836	146,934	111,991	84,021	109,502	59,086	71,548	83,252	92,493
496	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Education	Per unit	166,264	205,469	245,924	283,256	312,025	327,078	325,309	306,922	275,390	236,121	194,943	155,757	121,195	92,373	69,302	90,319	48,736	59,015	68,668	76,291
497	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Sales	Per unit	18,411	22,761	27,249	31,392	34,585	36,257	36,064	34,027	30,532	26,178	21,610	17,266	13,435	10,240	7,682	10,012	5,402	6,542	7,612	8,457
498	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Health	Per unit	44,332	54,943	65,940	76,136	84,046	88,253	87,898	83,019	74,551	63,960	52,820	42,202	32,838	25,028	18,777	24,472	13,205	15,990	18,606	20,671
499	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Lodging	Per unit	20,005	24,914	30,034	34,812	38,552	40,587	40,505	38,317	34,449	29,581	24,428	19,518	15,187	11,575	8,684	11,318	6,107	7,395	8,605	9,560
500	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Office	Per unit	316,407	391,015	468,013	539,075	593,850	622,525	619,182	584,204	524,200	449,460	371,103	296,506	230,713	175,846	131,928	171,937	92,776	112,343	130,721	145,231
501	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Service	Per unit	33,550	41,475	49,653	57,201	63,019	66,065	65,711	61,999	55,631	47,699	39,374	31,459	24,479	18,657	13,998	18,242	9,844	11,920	13,869	15,409
502	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Retail	Per unit	268,306	332,042	397,938	458,868	505,957	530,776	528,227	498,604	447,538	383,822	316,882	253,184	197,004	150,154	112,652	146,815	79,221	95,929	111,621	124,011
503	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Warehouse	Per unit	84,583	104,502	125,046	143,991	158,578	166,195	165,268	155,905	139,873	119,918	98,994	79,095	61,544	46,908	35,192	45,865	24,748	29,968	34,870	38,741
504	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Assembly	Per unit	21,918	27,131	32,521	37,505	41,357	43,388	43,181	40,760	36,586	31,377	25,901	20,695	16,103	12,273	9,208	12,000	6,475	7,841	9,124	10,137
505	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Other	Per unit	469,831	581,270	696,428	802,851	885,036	928,273	923,672	871,767	782,408	670,969	553,921	442,576	344,370	262,474	196,920	256,639	138,480	167,687	195,118	216,776
506	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	BSS	Per unit	113,301	140,528	168,986	195,599	216,462	228,476	228,476	216,462	194,835	167,444	138,280	110,484	85,968	65,523	49,159	64,067	34,570	41,861	48,709	54,116
507	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Education	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
508	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Sales	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
509	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Health	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
510	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Lodging	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
511	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Office	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
512	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Service	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
513	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Retail	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
514	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Warehouse	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
515	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Assembly	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
516	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Other	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
517	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	BSS	Per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
518	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Education	per HP	9,706	12,375	15,454	18,851	22,418	25,971	29,329	32,346	34,936	37,072	36,048	36,615	36,728	36,477	35,968	34,880	33,849	32,922	32,124	31,466
519	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Sales	per HP	1,500	1,912	2,388	2,913	3,464	4,013	4,532	4,998	5,398	5,728	5,570	5,658	5,675	5,636	5,558	5,390	5,230	5,087	4,964	4,862
520	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Health	per HP	3,024	3,856	4,815	5,873	6,984	8,091	9,138	10,077	10,884	11,550	11,231	11,408	11,442	11,364	11,206	10,867	10,546	10,257	10,008	9,803
521	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Lodging	per HP	1,475	1,880	2,348	2,864	3,406	3,946	4,457	4,915	5,308	5,633	5,477	5,564	5,581	5,543	5,465	5,300	5,143	5,002	4,881	4,781
522	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Office	per HP	27,642	35,242	44,009	53,682	63,840	73,960	83,523	92,114	99,488	105,572	102,657	104,272	104,591	103,878	102,427	99,329	96,394	93,753	91,482	89,608
523	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Service	per HP	1,164	1,484	1,853	2,261	2,689	3,115	3,518	3,879	4,190	4,446	4,323	4,391	4,405	4,375	4,314	4,183	4,060	3,948	3,853	3,774
524	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Retail	per HP	20,374	25,976	32,438	39,568	47,055	54,515	61,564	67,896	73,331	77,815	75,667	76,857	77,092	76,567	75,497	73,214	71,051	69,103	67,430	66,048
525	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Warehouse	per HP	14,052	17,916	22,373	27,291	32,455	37,600	42,461	46,829	50,578	53,670	52,189	53,010	53,172	52,809	52,072	50,497	49,005	47,662	46,508	45,555
526	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Assembly	per HP	5,092	6,492	8,107	9,889	11,760	13,624	15,386	16,969	18,327	19,448	18,911	19,208	19,267	19,136	18,868	18,298	17,757	17,270	16,852	16,507
527	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Other	per HP	28,384	36,189	45,191	55,124	65,555	75,947	85,767	94,589	102,160	108,408	105,415	107,073	107,401	106,668	105,178	101,997	98,983	96,271	93,940	92,015
528	Compressed Air	Efficient Air Compressors (VSD)	Biz-BSS	BSS	per HP	8,800	8,942	9,033	9,090	9,033	8,989	8,954	8,927	8,907	8,892	6,375	6,309	6,261	6,224	6,224	6,224	6,224	6,224	6,224	6,224

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
529	Compressed Air	Efficient Air Nozzles	Biz-Standard	Education	per unit	8,087	7,996	7,493	6,677	5,685	4,655	3,690	2,850	2,157	1,608	1,187	0	0	0	0	5,128	5,120	4,845	4,357	3,742
530	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Sales	per unit	1,250	1,236	1,158	1,032	878	719	570	440	333	248	183	0	0	0	0	792	791	749	673	578
531	Compressed Air	Efficient Air Nozzles	Biz-Standard	Health	per unit	2,520	2,491	2,335	2,080	1,771	1,450	1,150	888	672	501	370	0	0	0	0	1,598	1,595	1,510	1,358	1,166
532	Compressed Air	Efficient Air Nozzles	Biz-Standard	Lodging	per unit	1,262	1,248	1,169	1,042	887	726	576	445	336	251	185	0	0	0	0	799	798	755	679	583
533	Compressed Air	Efficient Air Nozzles	Biz-Standard	Office	per unit	23,657	23,389	21,918	19,528	16,627	13,613	10,789	8,332	6,305	4,699	3,469	0	0	0	0	14,981	14,957	14,153	12,728	10,931
534	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Service	per unit	996	985	923	822	700	573	454	351	266	198	146	0	0	0	0	631	630	596	536	460
535	Compressed Air	Efficient Air Nozzles	Biz-Standard	Retail	per unit	17,437	17,239	16,155	14,394	12,256	10,034	7,953	6,141	4,648	3,463	2,557	0	0	0	0	11,043	11,025	10,432	9,381	8,057
536	Compressed Air	Efficient Air Nozzles	Biz-Standard	Warehouse	per unit	12,027	11,890	11,143	9,928	8,453	6,921	5,485	4,236	3,206	2,389	1,763	0	0	0	0	7,616	7,604	7,195	6,470	5,557
537	Compressed Air	Efficient Air Nozzles	Biz-Standard	Assembly	per unit	4,358	4,308	4,038	3,597	3,063	2,508	1,988	1,535	1,162	866	639	0	0	0	0	2,760	2,755	2,607	2,345	2,014
538	Compressed Air	Efficient Air Nozzles	Biz-Standard	Other	per unit	24,292	24,017	22,507	20,053	17,074	13,979	11,079	8,556	6,475	4,825	3,562	0	0	0	0	15,384	15,359	14,533	13,069	11,225
539	Compressed Air	Efficient Air Nozzles	Biz-BSS	BSS	per unit	7,958	5,995	4,449	3,265	0	0	0	0	0	0	0	0	0	0	0	5,128	3,906	2,929	2,171	0
540	Compressed Air	AODD Pump Controls	Biz-Custom	Education	per unit	231	342	377	400	437	543	654	757	837	880	1,029	1,056	996	908	822	790	773	768	763	746
541	Compressed Air	AODD Pump Controls	Biz-Custom	Food Sales	per unit	36	53	58	62	68	84	101	117	129	136	159	163	154	140	127	122	119	119	118	115
542	Compressed Air	AODD Pump Controls	Biz-Custom	Health	per unit	72	107	117	125	136	169	204	236	261	274	321	329	310	283	256	246	241	239	238	232
543	Compressed Air	AODD Pump Controls	Biz-Custom	Lodging	per unit	38	56	62	65	71	89	107	124	137	144	168	173	163	148	134	129	126	125	125	122
544	Compressed Air	AODD Pump Controls	Biz-Custom	Office	per unit	706	1,048	1,154	1,225	1,339	1,664	2,003	2,318	2,563	2,694	3,151	3,234	3,051	2,781	2,519	2,418	2,368	2,352	2,336	2,285
545	Compressed Air	AODD Pump Controls	Biz-Custom	Food Service	per unit	30	44	49	52	56	70	84	98	108	113	133	136	129	117	106	102	100	99	98	96
546	Compressed Air	AODD Pump Controls	Biz-Custom	Retail	per unit	521	773	850	903	987	1,227	1,476	1,709	1,889	1,985	2,322	2,384	2,249	2,050	1,857	1,783	1,746	1,733	1,722	1,684
547	Compressed Air	AODD Pump Controls	Biz-Custom	Warehouse	per unit	359	533	587	623	681	846	1,018	1,179	1,303	1,369	1,602	1,644	1,551	1,414	1,281	1,230	1,204	1,196	1,188	1,162
548	Compressed Air	AODD Pump Controls	Biz-Custom	Assembly	per unit	130	193	213	226	247	307	369	427	472	496	580	596	562	512	464	446	436	433	430	421
549	Compressed Air	AODD Pump Controls	Biz-Custom	Other	per unit	725	1,077	1,185	1,258	1,375	1,709	2,057	2,380	2,632	2,766	3,235	3,321	3,133	2,855	2,586	2,483	2,432	2,415	2,399	2,347
550	Compressed Air	AODD Pump Controls	Biz-Custom	BSS	per unit	154	229	252	268	293	364	439	509	563	593	695	715	676	617	559	538	527	524	521	510
551	Compressed Air	No Loss Condensate Drain	Biz-Standard	Education	per drain	1,955	2,420	2,900	3,342	3,681	3,855	3,827	3,601	3,220	2,751	2,263	1,802	1,397	2,315	2,359	2,479	2,197	2,437	2,570	2,569
552	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Sales	per drain	302	374	448	516	569	596	591	556	498	425	350	278	216	358	365	383	339	377	397	397
553	Compressed Air	No Loss Condensate Drain	Biz-Standard	Health	per drain	609	754	903	1,041	1,147	1,201	1,192	1,122	1,003	857	705	561	435	721	735	772	684	759	801	800
554	Compressed Air	No Loss Condensate Drain	Biz-Standard	Lodging	per drain	297	368	441	508	559	586	581	547	489	418	344	273	212	351	358	376	333	370	390	390
555	Compressed Air	No Loss Condensate Drain	Biz-Standard	Office	per drain	5,566	6,890	8,256	9,515	10,480	10,973	10,893	10,249	9,165	7,827	6,439	5,125	3,974	6,584	6,710	7,049	6,246	6,931	7,309	7,304
556	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Service	per drain	234	290	348	401	441	462	459	432	386	330	271	216	167	277	283	297	263	292	308	308
557	Compressed Air	No Loss Condensate Drain	Biz-Standard	Retail	per drain	4,102	5,078	6,086	7,013	7,724	8,088	8,029	7,554	6,755	5,769	4,746	3,778	2,929	4,853	4,946	5,196	4,604	5,109	5,387	5,383
558	Compressed Air	No Loss Condensate Drain	Biz-Standard	Warehouse	per drain	2,830	3,503	4,197	4,837	5,328	5,579	5,538	5,210	4,659	3,979	3,273	2,606	2,020	3,347	3,411	3,584	3,175	3,524	3,716	3,713
559	Compressed Air	No Loss Condensate Drain	Biz-Standard	Assembly	per drain	1,025	1,269	1,521	1,753	1,930	2,021	2,007	1,888	1,688	1,442	1,186	944	732	1,213	1,236	1,299	1,151	1,277	1,346	1,345
560	Compressed Air	No Loss Condensate Drain	Biz-Standard	Other	per drain	5,715	7,075	8,478	9,771	10,761	11,268	11,185	10,524	9,411	8,038	6,612	5,263	4,081	6,761	6,890	7,238	6,414	7,117	7,505	7,500
561	Compressed Air	No Loss Condensate Drain	Biz-BSS	BSS	per drain	1,705	2,042	2,351	2,588	2,709	2,690	2,533	2,267	1,938	1,593	1,271	987	751	1,671	1,758	1,559	1,730	1,826	1,825	1,728
562	Compressed Air	Compressed Air - Custom	Biz-Custom	Education	per kWh savec	54,895,009	63,111,619	69,314,262	72,382,670	71,678,315	67,301,436	60,076,588	51,233,735	42,005,498	33,334,915	61,036,992	60,414,655	59,831,893	58,366,309	47,408,960	44,823,918	40,284,268	34,581,091	28,533,680	22,784,079
563	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Sales	per kWh savec	8,482,351	9,751,978	10,710,407	11,184,536	11,075,700	10,399,386	9,283,006	7,916,613	6,490,670	5,150,896	9,431,408	9,335,244	9,245,196	9,018,735	7,325,610	6,926,171	6,224,706	5,343,454	4,409,011	3,520,585
564	Compressed Air	Compressed Air - Custom	Biz-Custom	Health	per kWh savec	17,102,502	19,662,381	21,594,810	22,550,771	22,331,329	20,967,716	18,716,819	15,961,835	13,086,784	10,385,470	19,016,033	18,822,144	18,640,585	18,183,983	14,770,229	13,964,861	12,550,536	10,773,715	8,889,648	7,098,364
565	Compressed Air	Compressed Air - Custom	Biz-Custom	Lodging	per kWh savec	8,340,815	9,588,628	10,530,259	10,995,606	10,887,763	10,221,990	9,123,683	7,779,803	6,377,660	5,060,512	9,264,669	9,169,065	9,079,598	8,856,337	7,193,127	6,800,501	6,111,484	5,246,083	4,328,561	3,456,284
566	Compressed Air	Compressed Air - Custom	Biz-Custom	Office	per kWh savec	156,320,495	179,706,548	197,354,258	206,075,614	204,054,457	191,576,793	170,992,726	145,806,208	119,527,760	94,842,253	173,635,024	171,843,251	170,166,505	165,982,228	134,810,940	127,452,499	114,539,198	98,320,172	81,124,302	64,776,407
567	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Service	per kWh savec	6,583,483	7,568,393	8,311,632	8,678,934	8,593,812	8,068,312	7,201,408	6,140,671	5,033,946	3,994,309	7,312,689	7,237,228	7,166,612	6,990,390	5,677,602	5,367,699	4,823,851	4,140,783	3,416,573	2,728,077
568	Compressed Air	Compressed Air - Custom	Biz-Custom	Retail	per kWh savec	115,221,155	132,458,613	145,466,437	151,894,799	150,405,039	141,207,967	126,035,804	107,471,254	88,101,861	69,906,598	127,983,397	126,662,712	125,426,811	122,342,652	99,366,831	93,943,050	84,424,878	72,470,112	59,795,331	47,745,578
569	Compressed Air	Compressed Air - Custom	Biz-Custom	Warehouse	per kWh savec	79,469,936	91,358,896	100,330,607	104,764,355	103,736,842	97,393,470	86,928,978	74,124,701	60,765,311	48,215,736	88,272,265	87,361,367	86,508,945	84,381,750	68,534,946	64,794,075	58,229,234	49,983,835	41,241,829	32,930,914
570	Compressed Air	Compressed Air - Custom	Biz-Custom	Assembly	per kWh savec	28,796,250	33,104,262	36,355,198	37,961,784	37,589,461	35,290,914	31,499,064	26,859,383	22,018,554	17,471,165	31,985,809	31,655,741	31,346,863	30,576,065	24,833,913	23,478,393	21,099,596	18,111,843	14,944,142	11,932,649
571	Compressed Air	Compressed Air - Custom	Biz-Custom	Other	per kWh savec	160,519,335	184,533,548	202,655,284	211,610,899	209,535,453	196,722,633	175,585,668	149,722,630	122,738,331	97,389,760	178,298,940	176,459,039	174,737,255	170,440,586	138,432,024	130,875,931	117,615,773	100,961,097	83,303,338	66,516,330
572	Compressed Air	Compressed Air - Custom	Biz-Custom	BSS	per kWh savec	34,139,898	39,231,492	43,082,142	44,998,898	44,599,388	41,920,689	37,467,886	31,999,222	26,277,739	20,889,940	38,332,580	38,017,080	37,720,296	36,858,412	29,982,748	28,384,993	25,534,012	21,934,344	18,107,625	14,463,701
573	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Education	per kWh savec	30,519	33,605	42,060	50,931	59,262	87,204	93,019	98,937	101,492	100,746	111,974	107,173	102,861	97,193	90,452	93,334	86,107	72,003	68,035	63,317
574	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Sales	per kWh savec	4,716	5,193	6,499	7,870	9,157	13,475	14,373	15,288	15,683	15,567	17,302	16,560	15,894	15,018	13,977	14,422	13,305	11,126	10,513	9,784
575	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Health	per kWh savec	9,508	10,470	13,104	15,868	18,463	27,168	28,980	30,824	31,620	31,387	34,885	33,390	32,046	30,280	28,180	29,078	26,826	22,432	21,196	19,726
576	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Lodging	per kWh savec	4,947	5,447	6,818	8,255	9,606	14,135	15,078	16,037	16,451	16,330	18,150	17,372	16,673	15,754	14,662	15,129	13,957	11,671	11,028	10,263
577	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Office	per kWh savec	92,713	102,089	127,773	154,722	180,031	264,914	282,578	300,557	308,320	306,053	340,161	325,577	312,478	295,260	274,782	283,536	261,581	218,735	206,682	192,347
578	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Service	per kWh savec	3,905	4,299	5,381	6,516	7,582	11,157	11,901	12,658	12,985	12,890	14,326	13,712	13,160	12,435	11,573	11,941	11,017	9,212	8,704	8,101
579	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Retail	per kWh savec	68,337	75,248	94,179	114,043	132,698	195,264	208,283	221,535	227,257	225,587	250,727	239,977	230,322	217,631	202,537	208,990	192,807	161,226	152,342	141,776
580	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Warehouse	per kWh savec	47,133	51,900	64,957	78,657	91,524	134,677	143,656	152,796	156,743	155,591	172,931	165,516	158,857	150,104	139,693	144,144	132,982	111,200	105,072	97,785
581	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Assembly	per kWh savec	17,079	18,806	23,537	28,502	33,164	48,801	52,054	55,366	56,797	56,379	62,662	59,976	57,563	54,391	50,618	52,231	48,187	40,294	38,073	35,433
582	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Other	per kWh savec	95,203	104,831	131,205	158,877	184,867	272,030	290,168	308,630	316,602	314,274	349,298	334,322	320,872	303,190	282,163	291,152	268,607	224,610	212,233	197,514
583	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	BSS	per kWh savec	20,264	22,314	27,927	33,818	39,349	57,902	61,763	65,693	67,390	66,894	74,349	71,161	68,298	64,535	60,059	61,973	57,174	47,809	45,174	42,041
584	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Education	er CFM reduce	176,945	167,641	274,753	247,027	299,419	258,484	276,172	231,684	231,391	190,404	161,974	133,283	113,382	93,298	79,367	65,309	55,557	45,716	38,890	32,001
585	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Sales	er CFM reduce	27,341	25,904	42,455	38,171	46,266	39,941	42,674	35,800	35,755	29,421	25,028	20,595	17,520	14,416	12,264	10,091	8,585	7,064	6,009	4,945
586	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Health	er CFM reduce	55,127	52,228	85,599	76,961	93,284	80,530	86,041	72,181	72,090	59,320	50,463	41,524	35,324	29,067	24,727	20,347	17,309	14,243	12,116	9,970
587	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Lodging	er CFM reduce	26,887	25,473	41,748	37,535	45,496	39,276	41,964	35,204	35,160	28,932	24,612	20,252	17,228	14,177	12,060	9,924	8,442	6,947	5,909	4,863
588	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Office	er CFM reduce	503,898	477,402	782,434	703,476	852,676	736,102	786,473	659,782	658,949	542,228	461,264	379,559	322,885	265,692	226,020	185,984	158,214	130,189	110,750	91,132
589	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Service	er CFM reduce	21,222	20,106	32,952	29,627	35,911	31,001	33,123	27,787	27,752	22,836	19,426	15,985	13,598	11,190	9,519	7,833	6,663	5,483	4,664	3,838
590	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Retail	er CFM reduce	371,415	351,885	576,718	518,520	628,493	542,568	579,696	486,314	485,700	399,667	339,990	279,767	237,993	195,837	166,595	137,086	116,617	95,960	81,632	67,172
591	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Warehouse	er CFM reduce	256,171	242,701	397,772	357,632	433,482	374,218	399,826	335,419	334,995	275,657	234,497	192,960	164,148	135,072	114,903	94,550	80,432	66,185	56,303	46,330
592	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Assembly	er CFM reduce	92,825	87,944	144,134	129,589	157,074	135,599	144,878	121,540	121,387	99,885	84,971	69,920	59,480	48,944	41,636	34,261	29,145	23,982	20,401	16,788
593	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Other	er CFM reduce	517,433	490,225	803,450	722,372	875,579	755,874	807,598	677,504	676,649	556,792	473,654	389,754	331,558	272,828	232,091	190,980	162,463	133,686	113,724	93,580
594	Compressed Air	Compressed Air Leak Repair	Biz-Custom	BSS	er CFM reduce	110,137	104,346	171,017	153,759	186,369	160,890	171,899	144,209	144,027	118,515	100,819	82,960	70,573	58,072	49,401	40,651	34,581	28,455	24,207	19,919
595	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
596	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
597	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
598	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
599	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
600	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
602	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
603	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
604	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
605	Cooling	Air Conditioner - (<65kBTUh)	Biz-BSS	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
606	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
607	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
608	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
609	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
611	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
612	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
613	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
614	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
615	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
616	Cooling	Air Conditioner - (65-135kBTUh)	Biz-BSS	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
617	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
618	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
619	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
620	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
621	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
622	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
623	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
624	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
625	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
626	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
627	Cooling	Air Conditioner - (135-240kBTUh)	Biz-BSS	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
628	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
629	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
630	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
631	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
632	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
633	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
634	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
635	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
636	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
637	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
638	Cooling	Air Conditioner - (240-760kBTUh)	Biz-BSS	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
639	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Education	Per ton	26,524	34,675	44,536	56,003	68,738	82,176	95,612	108,396	119,902	129,792	137,958	144,483	149,560	153,430	156,333	150,603	148,153	145,186	141,734	137,899
640	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Sales	Per ton	2,654	3,472	4,462	5,614	6,892	8,242	9,591	10,874	12,028	13,020	13,839	14,494	15,003	15,391	15,682	15,108	14,862	14,564	14,218	13,833
641	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Health	Per ton	16,997	22,218	28,535	35,880	44,037	52,645	61,251	69,441	76,812	83,147	88,379	92,559	95,812	98,291	100,151	96,479	94,910	93,009	90,798	88,341
642	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Lodging	Per ton	5,538	7,119	8,958	11,000	13,155	15,309	17,350	19,192	20,775	22,082	23,127	23,940	24,559	25,024	25,368	23,714	23,239	22,687	22,073	21,425
643	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Office	Per ton	51,918	66,644	83,761	102,765	122,814	142,857	161,842	179,023	193,788	205,981	215,723	223,304	229,082	233,417	236,630	221,202	216,772	211,618	205,892	199,848
644	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Service	Per ton	8,780	11,278	14,181	17,404	20,806	24,206	27,428	30,339	32,841	34,908	36,559	37,844	38,823	39,557	40,102	37,487	36,737	35,863	34,893	33,869
645	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Retail	Per ton	6,970	8,956	11,265	13,830	16,536	19,241	21,804	24,119	26,108	27,751	29,064	30,085	30,863	31,447	31,880	29,802	29,205	28,510	27,739	26,925
646	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Warehouse	Per ton	27,424	35,208	44,255	54,299	64,897	75,491	85,527	94,606	102,409	108,853	114,001	118,007	121,060	123,351	125,049	116,896	114,555	111,832	108,806	105,612
647	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Assembly	Per ton	18,987	24,389	30,668	37,641	44,998	52,353	59,321	65,618	71,030	75,499	79,070	81,849	83,967	85,555	86,733	81,078	79,455	77,566	75,467	73,251
648	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Other	Per ton	64,866	83,249	104,614	128,332	153,355	178,369	202,064	223,514	241,949	257,172	269,336	278,800	286,014	291,426	295,439	276,176	270,646	264,211	257,061	249,515
649	Cooling	Air Conditioner - (760kBTUh+)	Biz-BSS	BSS	Per ton	11,095	11,070	11,051	11,035	11,024	11,015	11,009	11,009	11,009	11,009	11,009	11,009	11,009	11,009	11,009	7,706	7,706	7,706	7,706	7,706
650	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Education	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
651	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Sales	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
652	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Health	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
653	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Lodging	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
654	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Office	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
655	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Service	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
656	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Retail	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
657	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Warehouse	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
658	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Assembly	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
659	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Other	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
660	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	BSS	Per Ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
661	Cooling	Air Cooled Chiller	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
662	Cooling	Air Cooled Chiller	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
663	Cooling	Air Cooled Chiller	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
664	Cooling	Air Cooled Chiller	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
665	Cooling	Air Cooled Chiller	Biz-Standard	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
666	Cooling	Air Cooled Chiller	Biz-Standard	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
667	Cooling	Air Cooled Chiller	Biz-Standard	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
668	Cooling	Air Cooled Chiller	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
669	Cooling	Air Cooled Chiller	Biz-Standard	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
670	Cooling	Air Cooled Chiller	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
671	Cooling	Air Cooled Chiller	Biz-BSS	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
672	Cooling	Water Cooled Chiller	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
673	Cooling	Water Cooled Chiller	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
674	Cooling	Water Cooled Chiller	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
675	Cooling	Water Cooled Chiller	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
676	Cooling	Water Cooled Chiller	Biz-Standard	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
677	Cooling	Water Cooled Chiller	Biz-Standard	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
678	Cooling	Water Cooled Chiller	Biz-Standard	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
679	Cooling	Water Cooled Chiller	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
680	Cooling	Water Cooled Chiller	Biz-Standard	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
681	Cooling	Water Cooled Chiller	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
682	Cooling	Water Cooled Chiller	Biz-BSS	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
683	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Education	Per ton	4,333,585	3,578,780	2,859,396	5,258,415	4,200,940	3,273,839	4,624,135	2,940,658	2,291,687	3,236,895	2,058,461	1,604,181	2,265,826	1,440,922	1,122,927	1,586,078	1,008,646	786,049	1,110,255	706,052
684	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Sales	Per ton	302,619	249,910	199,675	367,201	293,356	228,616	322,908	205,349	160,031	226,036	143,744	112,022	158,225	100,621	78,415	110,758	70,435	54,891	77,530	49,304
685	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Health	Per ton	1,165,825	962,767	769,238	1,414,624	1,130,141	880,731	1,243,990	791,099	616,512	870,793	553,769	431,558	609,555	387,638	302,091	426,688	271,347	211,464	298,682	189,943
686	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Lodging	Per ton	499,454	412,461	329,551	606,042	484,166	377,316	532,940	338,916	264,121	373,058	237,241	184,885	261,141	166,069	129,419	182,799	116,248	90,594	127,959	81,374
687	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Office	Per ton	4,851,679	4,006,635	3,201,246	5,887,076	4,703,176	3,665,237	5,176,966	3,292,223	2,565,666	3,623,876	2,304,556	1,795,966	2,536,713	1,613,189	1,257,176	1,775,699	1,129,233	880,023	1,242,989	790,463
688	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Service	Per ton	868,880	717,542	573,306	1,054,308	842,285	656,402	927,135	589,599	459,481	648,995	412,720	321,637	454,296	288,904	225,146	318,007	202,233	157,602	222,605	141,563
689	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Retail	Per ton	1,021,051	843,209	673,712	1,238,954	989,798	771,361	1,089,509	692,859	539,953	762,656	485,001	377,967	533,859	339,501	264,577	373,702	237,651	185,204	261,591	166,355
690	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Warehouse	Per ton	9,242,241	7,632,468	6,098,237	11,214,628	8,959,349	6,982,120	9,861,899	6,271,544	4,887,484	6,903,329	4,390,081	3,421,239	4,832,330	3,073,057	2,394,867	3,382,631	2,151,140	1,676,407	2,367,842	1,505,798
691	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Assembly	Per ton	2,600,545	2,147,593	1,715,898	3,155,527	2,520,946	1,964,601	2,774,902	1,764,662	1,375,221	1,942,431	1,235,263	962,654	1,359,702	864,684	673,858	951,791	605,279	471,701	666,254	423,695
692	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Other	Per ton	6,705,746	5,537,769	4,424,601	8,136,819	6,500,493	5,065,905	7,155,341	4,550,345	3,546,134	5,008,739	3,185,241	2,482,294	3,506,117	2,229,669	1,737,606	2,454,282	1,560,768	1,216,324	1,717,997	1,092,538
693	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	BSS	Per ton	1,160,906	958,705	765,992	1,408,655	1,125,373	877,015	1,238,741	787,761	613,911	867,118	551,433	429,737	606,983	386,003	300,816	424,888	270,202	210,571	297,422	189,141
694	Cooling	Chiller Tune-up	Biz-Custom	Education	Per ton	3,784,720	3,125,514	2,497,243	1,943,113	1,481,015	3,760,429	3,011,639	1,748,070	1,360,179	1,036,711	2,632,300	2,108,147	1,223,649	952,125	725,697	1,842,610	1,475,703	856,554	666,488	507,988
695	Cooling	Chiller Tune-up	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
696	Cooling	Chiller Tune-up	Biz-Custom	Health	Per ton	2,266,971	1,872,120	1,495,798	1,163,885	887,098	2,252,421	1,803,911	1,047,059	814,720	620,969	1,576,694	1,262,738	732,941	570,304	434,678	1,103,686	883,916	513,059	399,213	304,275
697	Cooling	Chiller Tune-up	Biz-Custom	Lodging	Per ton	1,566,881	1,293,968	1,033,863	804,452	613,143	1,556,824	1,246,824	723,704	563,117	429,200	1,089,777	872,777	506,593	394,182	300,440	762,844	610,944	354,615	275,927	210,308
698	Cooling	Chiller Tune-up	Biz-Custom	Office	Per ton	4,632,410	3,825,557	3,056,567	2,378,326	1,812,728	4,602,678	3,686,176	2,139,597	1,664,828	1,268,910	3,221,874	2,580,324	1,497,718	1,165,380	888,237	2,255,312	1,806,226	1,048,403	815,766	621,766
699	Cooling	Chiller Tune-up	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
700	Cooling	Chiller Tune-up	Biz-Custom	Retail	Per ton	913,489	754,381	602,740	468,994	357,461	907,626	726,896	421,918	328,296	250,223	635,338	508,827	295,343	229,807	175,156	444,737	356,179	206,740	160,865	122,609
701	Cooling	Chiller Tune-up	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
702	Cooling	Chiller Tune-up	Biz-Custom	Assembly	Per ton	2,489,532	2,055,916	1,642,649	1,278,151	974,190	2,473,554	1,981,011	1,149,854	894,706	681,933	1,731,488	1,386,708	804,898	626,294	477,353	1,212,041	970,695	563,429	438,406	334,147
703	Cooling	Chiller Tune-up	Biz-Custom	Other	Per ton	6,810,720	5,624,459	4,493,865	3,496,692	2,665,132	6,767,007	5,419,537	3,145,706	2,447,684	1,865,593	4,736,905	3,793,676	2,201,994	1,713,379	1,305,915	3,315,833	2,655,573	1,541,396	1,199,365	914,140
704	Cooling	Chiller Tune-up	Biz-Custom	BSS	Per ton	1,261,060	1,041,414	832,076	647,441	493,471	1,252,966	1,003,471	582,453	453,209	345,430	877,077	702,430	407,717	317,246	241,801	613,954	491,701	285,402	222,072	169,261

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
705	Cooling	Advanced Rooftop Controls	Biz-Standard	Education	per HP	110,814	122,789	129,328	129,114	122,169	109,858	94,346	77,912	62,249	48,436	36,916	27,696	20,533	0	0	76,832	85,359	90,095	90,093	85,355
706	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Sales	per HP	11,089	12,296	12,958	12,942	12,250	11,018	9,464	7,816	6,245	4,859	3,703	2,778	2,060	0	0	7,708	8,563	9,038	9,038	8,563
707	Cooling	Advanced Rooftop Controls	Biz-Standard	Health	per HP	71,010	78,677	82,862	82,720	78,268	70,379	60,440	49,912	39,878	31,029	23,649	17,742	13,154	0	0	49,220	54,682	57,716	57,715	54,680
708	Cooling	Advanced Rooftop Controls	Biz-Standard	Lodging	per HP	20,888	23,177	24,439	24,420	23,122	20,802	17,871	14,759	11,792	9,175	6,993	5,247	3,890	0	0	14,555	16,171	17,068	17,068	16,171
709	Cooling	Advanced Rooftop Controls	Biz-Standard	Office	per HP	195,825	216,976	228,524	228,138	215,863	194,107	166,697	137,660	109,987	85,580	65,227	48,935	36,279	0	0	135,755	150,821	159,190	159,188	150,816
710	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Service	per HP	33,118	36,717	38,689	38,638	36,569	32,891	28,251	23,330	18,640	14,504	11,054	8,293	6,149	0	0	23,008	25,561	26,980	26,979	25,561
711	Cooling	Advanced Rooftop Controls	Biz-Standard	Retail	per HP	26,290	29,159	30,735	30,703	29,065	26,145	22,459	18,547	14,819	11,530	8,788	6,593	4,888	0	0	18,291	20,321	21,449	21,449	20,321
712	Cooling	Advanced Rooftop Controls	Biz-Standard	Warehouse	per HP	103,440	114,627	120,740	120,545	114,066	102,574	88,093	72,748	58,124	45,226	34,470	25,860	19,172	0	0	71,741	79,704	84,126	84,125	79,701
713	Cooling	Advanced Rooftop Controls	Biz-Standard	Assembly	per HP	71,617	79,403	83,671	83,563	79,091	71,136	61,101	50,458	40,315	31,369	23,909	17,937	13,298	0	0	49,761	55,284	58,352	58,352	55,283
714	Cooling	Advanced Rooftop Controls	Biz-Standard	Other	per HP	244,663	271,036	285,415	284,898	269,543	242,359	208,124	171,871	137,320	106,847	81,436	61,096	45,295	0	0	169,490	188,301	198,749	198,746	188,294
715	Cooling	Advanced Rooftop Controls	Biz-BSS	BSS	per HP	70,085	66,253	59,528	51,088	42,145	33,647	26,165	19,943	14,962	11,093	0	0	0	0	0	48,676	46,116	41,509	35,673	29,460
716	Cooling	HVAC Occupancy Controls	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
717	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718	Cooling	HVAC Occupancy Controls	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
719	Cooling	HVAC Occupancy Controls	Biz-Custom	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
720	Cooling	HVAC Occupancy Controls	Biz-Custom	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
721	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
722	Cooling	HVAC Occupancy Controls	Biz-Custom	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
723	Cooling	HVAC Occupancy Controls	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
724	Cooling	HVAC Occupancy Controls	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
725	Cooling	HVAC Occupancy Controls	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
726	Cooling	HVAC Occupancy Controls	Biz-Custom	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
727	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
728	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
729	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
730	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
731	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
732	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
733	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
734	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
735	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
736	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
737	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
738	Cooling	Smart Thermostat	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
739	Cooling	Smart Thermostat	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
740	Cooling	Smart Thermostat	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
741	Cooling	Smart Thermostat	Biz-Custom	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
742	Cooling	Smart Thermostat	Biz-Custom	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
743	Cooling	Smart Thermostat	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
744	Cooling	Smart Thermostat	Biz-Custom	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
745	Cooling	Smart Thermostat	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
746	Cooling	Smart Thermostat	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
747	Cooling	Smart Thermostat	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
748	Cooling	Smart Thermostat	Biz-Custom	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
749	Cooling	Secondary Windows	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
750	Cooling	Secondary Windows	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
751	Cooling	Secondary Windows	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
752	Cooling	Secondary Windows	Biz-Custom	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
753	Cooling	Secondary Windows	Biz-Custom	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
754	Cooling	Secondary Windows	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
755	Cooling	Secondary Windows	Biz-Custom	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
756	Cooling	Secondary Windows	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
757	Cooling	Secondary Windows	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
758	Cooling	Secondary Windows	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
759	Cooling	Secondary Windows	Biz-Custom	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
760	Cooling	Triple Pane Windows	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
761	Cooling	Triple Pane Windows	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
762	Cooling	Triple Pane Windows	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
763	Cooling	Triple Pane Windows	Biz-Custom	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
764	Cooling	Triple Pane Windows	Biz-Custom	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
765	Cooling	Triple Pane Windows	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
766	Cooling	Triple Pane Windows	Biz-Custom	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
767	Cooling	Triple Pane Windows	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
768	Cooling	Triple Pane Windows	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
769	Cooling	Triple Pane Windows	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
770	Cooling	Triple Pane Windows	Biz-Custom	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
771	Cooling	Energy Recovery Ventilator	Biz-Custom	Education	Per ton	816,666	897,553	951,635	1,037,676	1,287,344	1,546,951	1,788,447	1,978,371	2,080,913	2,075,253	1,962,034	1,763,228	1,513,563	1,249,908	998,635	1,310,363	1,184,854	1,079,271	1,028,565	874,995
772	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Sales	Per ton	45,122	49,798	53,001	57,992	72,161	86,935	100,718	111,546	117,440	117,208	110,877	99,685	85,598	70,688	56,478	74,106	67,007	61,035	58,167	49,482
773	Cooling	Energy Recovery Ventilator	Biz-Custom	Health	Per ton	508,401	558,636	592,163	645,557	800,707	961,990	1,111,979	1,229,898	1,293,503	1,289,874	1,219,422	1,095,807	940,611	776,760	620,605	814,332	736,336	670,722	639,210	543,773
774	Cooling	Energy Recovery Ventilator	Biz-Custom	Lodging	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
775	Cooling	Energy Recovery Ventilator	Biz-Custom	Office	Per ton	1,071,628	1,178,215	1,249,564	1,362,819	1,690,951	2,032,136	2,349,513	2,598,859	2,733,427	2,725,890	2,577,101	2,315,925	1,987,973	1,641,683	1,311,655	1,721,103	1,556,260	1,417,588	1,350,993	1,149,287
776	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Service	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
777	Cooling	Energy Recovery Ventilator	Biz-Custom	Retail	Per ton	168,671	186,106	198,069	216,747	269,766	325,083	376,727	417,405	439,609	438,859	415,240	373,385	320,657	264,803	211,571	277,607	251,013	228,642	217,899	185,365
778	Cooling	Energy Recovery Ventilator	Biz-Custom	Warehouse	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
779	Cooling	Energy Recovery Ventilator	Biz-Custom	Assembly	Per ton	457,355	503,866	535,474	585,170	727,411	875,627	1,013,815	1,122,598	1,181,735	1,179,266	1,115,471	1,002,813	861,057	711,071	568,127	745,458	674,048	613,979	585,132	497,769
780	Cooling	Energy Recovery Ventilator	Biz-Custom	Other	Per ton	1,422,857	1,562,777	1,655,820	1,804,302	2,236,973	2,686,505	3,104,320	3,432,579	3,609,306	3,598,564	3,401,568	3,056,447	2,623,382	2,166,405	1,730,889	2,271,224	2,053,706	1,870,717	1,782,841	1,516,661
781	Cooling	Energy Recovery Ventilator	Biz-Custom	BSS	Per ton	244,609	268,617	284,855	310,947	386,432	465,320	539,099	597,411	629,356	628,458	595,410	535,920	460,576	380,354	303,896	398,771	360,583	328,455	313,026	266,292
782	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
783	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Sales	Per ton	3,535	4,453	5,472	6,548	7,624	8,643	9,561	10,349	11,000	11,521	11,925	12,234	12,465	12,637	12,637	11,577	11,301	10,996	10,673	10,350
784	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
785	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
786	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Office	Per ton	12,761	16,073	19,753	23,637	27,521	31,201	34,513	37,359	39,710	41,588	43,050	44,164	44,999	45,619	45,619	41,791	40,797	39,693	38,528	37,363
787	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Service	Per ton	17,888	22,531	27,689	33,134	38,578	43,737	48,380	52,370	55,665	58,298	60,346	61,908	63,079	63,948	63,948	58,581	57,188	55,641	54,007	52,374
788	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Retail	Per ton	69,167	87,119	107,064	128,116	149,168	169,113	187,065	202,494	215,235	225,415	233,336	239,373	243,903	247,261	247,261	226,511	221,125	215,142	208,826	202,511
789	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Warehouse	Per ton	8,720	10,984	13,498	16,152	18,807	21,321	23,585	25,530	27,136	28,420	29,418	30,179	30,751	31,174	31,174	28,558	27,879	27,124	26,328	25,532
790	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Assembly	Per ton	27,148	34,194	42,023	50,286	58,549	66,377	73,423	79,479	84,480	88,476	91,585	93,954	95,732	97,050	97,050	88,906	86,792	84,443	81,965	79,486
791	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
792	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-BSS	BSS	Per ton	1,389	1,617	1,833	2,028	2,195	2,333	2,444	2,529	2,595	2,644	2,680	2,680	2,680	2,680	2,680	2,264	2,195	2,130	2,072	2,022

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
793	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Education	Per ton	72,348	91,126	111,988	134,008	156,028	176,891	195,668	211,806	225,134	235,782	244,067	250,382	255,120	258,633	258,633	236,928	231,295	225,036	218,430	211,824
794	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Sales	Per ton	2,584	3,255	4,000	4,787	5,573	6,318	6,989	7,565	8,042	8,422	8,718	8,943	9,113	9,238	9,238	8,463	8,262	8,038	7,802	7,566
795	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Health	Per ton	2,152	2,710	3,331	3,986	4,641	5,261	5,820	6,300	6,696	7,013	7,260	7,447	7,588	7,693	7,693	7,047	6,880	6,694	6,497	6,301
796	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Lodging	Per ton	4,744	5,975	7,343	8,787	10,231	11,599	12,830	13,888	14,762	15,460	16,004	16,418	16,728	16,959	16,959	15,536	15,166	14,756	14,323	13,889
797	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Office	Per ton	54,573	68,737	84,474	101,084	117,694	133,431	147,595	159,768	169,821	177,853	184,103	188,866	192,440	195,090	195,090	178,718	174,468	169,747	164,764	159,781
798	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Service	Per ton	19,615	24,706	30,362	36,333	42,303	47,959	53,050	57,425	61,039	63,926	66,172	67,884	69,169	70,121	70,121	64,237	62,709	61,012	59,221	57,430
799	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Retail	Per ton	68,260	85,977	105,660	126,436	147,212	166,895	184,612	199,838	212,412	222,459	230,276	236,234	240,704	244,018	244,018	223,540	218,225	212,320	206,088	199,855
800	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Warehouse	Per ton	6,147	7,743	9,515	11,386	13,257	15,030	16,625	17,996	19,129	20,034	20,738	21,274	21,677	21,975	21,975	20,131	19,652	19,121	18,559	17,998
801	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Assembly	Per ton	26,792	33,746	41,472	49,626	57,781	65,507	72,460	78,437	83,372	87,315	90,384	92,722	94,477	95,777	95,777	87,740	85,654	83,336	80,890	78,443
802	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Other	Per ton	3,135	3,949	4,853	5,807	6,761	7,666	8,479	9,179	9,756	10,218	10,577	10,850	11,056	11,208	11,208	10,267	10,023	9,752	9,466	9,179
803	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-BSS	BSS	Per ton	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985	690	690	690	690	690
804	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Education	Per ton	69,765	87,873	107,991	129,225	150,459	170,576	188,684	204,246	217,098	227,366	235,355	241,445	246,014	249,401	249,401	228,471	223,039	217,004	210,633	204,263
805	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Sales	Per ton	2,492	3,139	3,857	4,616	5,374	6,093	6,740	7,295	7,754	8,121	8,407	8,624	8,787	8,908	8,908	8,161	7,967	7,751	7,524	7,296
806	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Health	Per ton	2,075	2,614	3,212	3,844	4,475	5,074	5,612	6,075	6,457	6,763	7,000	7,182	7,317	7,418	7,418	6,796	6,634	6,455	6,265	6,076
807	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Lodging	Per ton	4,575	5,762	7,081	8,473	9,866	11,185	12,372	13,393	14,235	14,909	15,432	15,832	16,131	16,353	16,353	14,981	14,625	14,229	13,811	13,394
808	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Office	Per ton	52,625	66,284	81,459	97,476	113,493	128,668	142,327	154,065	163,759	171,504	177,531	182,125	185,571	188,126	188,126	172,338	168,241	163,688	158,883	154,078
809	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Service	Per ton	18,915	23,824	29,279	35,036	40,793	46,247	51,156	55,376	58,860	61,644	63,810	65,461	66,700	67,618	67,618	61,944	60,471	58,835	57,107	55,380
810	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Retail	Per ton	65,823	82,908	101,888	121,923	141,957	160,938	178,022	192,705	204,830	214,518	222,056	227,802	232,112	235,308	235,308	215,561	210,436	204,742	198,731	192,721
811	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Warehouse	Per ton	5,928	7,466	9,176	10,980	12,784	14,493	16,032	17,354	18,446	19,318	19,997	20,515	20,903	21,191	21,191	19,412	18,951	18,438	17,897	17,356
812	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Assembly	Per ton	25,836	32,541	39,991	47,855	55,718	63,168	69,874	75,637	80,396	84,199	87,157	89,412	91,104	92,359	92,359	84,608	82,596	80,361	78,002	75,643
813	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Other	Per ton	3,023	3,808	4,680	5,600	6,520	7,392	8,177	8,851	9,408	9,853	10,199	10,463	10,661	10,808	10,808	9,901	9,665	9,404	9,128	8,852
814	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-BSS	BSS	Per ton	950	950	950	950	950	950	950	950	950	950	950	950	950	950	950	665	665	665	665	665
815	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Education	Per ton	66,184	83,362	102,447	122,591	142,735	161,820	178,998	193,761	205,953	215,694	223,273	229,050	233,384	236,598	236,598	216,742	211,589	205,864	199,820	193,777
816	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Sales	Per ton	2,364	2,978	3,659	4,379	5,098	5,780	6,394	6,921	7,356	7,704	7,975	8,181	8,336	8,451	8,451	7,742	7,558	7,353	7,137	6,921
817	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Health	Per ton	1,969	2,480	3,047	3,646	4,246	4,813	5,324	5,763	6,126	6,416	6,641	6,813	6,942	7,037	7,037	6,447	6,294	6,123	5,943	5,764
818	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Lodging	Per ton	4,340	5,466	6,718	8,038	9,359	10,611	11,737	12,705	13,504	14,143	14,640	15,019	15,303	15,514	15,514	14,212	13,874	13,499	13,102	12,706
819	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Office	Per ton	49,923	62,881	77,277	92,472	107,667	122,062	135,020	146,156	155,352	162,700	168,417	172,775	176,044	178,468	178,468	163,491	159,604	155,285	150,727	146,168
820	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Service	Per ton	17,944	22,601	27,776	33,237	38,699	43,873	48,530	52,533	55,838	58,479	60,534	62,101	63,276	64,147	64,147	58,764	57,366	55,814	54,176	52,537
821	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Retail	Per ton	62,444	78,651	96,658	115,664	134,669	152,676	168,883	182,812	194,315	203,506	210,657	216,107	220,197	223,228	223,228	204,495	199,633	194,231	188,529	182,828
822	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Warehouse	Per ton	5,623	7,083	8,705	10,416	12,128	13,749	15,209	16,463	17,499	18,327	18,971	19,462	19,830	20,103	20,103	18,416	17,978	17,491	16,978	16,465
823	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Assembly	Per ton	24,509	30,871	37,938	45,398	52,858	59,925	66,287	71,754	76,269	79,876	82,683	84,822	86,427	87,617	87,617	80,265	78,356	76,236	73,998	71,760
824	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Other	Per ton	2,868	3,612	4,440	5,312	6,185	7,012	7,757	8,397	8,925	9,347	9,676	9,926	10,114	10,253	10,253	9,393	9,169	8,921	8,659	8,397
825	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-BSS	BSS	Per ton	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	631	631	631	631	631
826	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Education	Per ton	11,870	14,951	18,373	21,986	25,599	29,022	32,103	34,750	36,937	38,684	40,043	41,079	41,857	42,433	42,433	38,872	37,948	36,921	35,837	34,753
827	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
828	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Lodging	Per ton	8,859	11,158	13,713	16,409	19,105	21,660	23,959	25,935	27,567	28,871	29,886	30,659	31,239	31,669	31,669	29,011	28,322	27,555	26,746	25,937
830	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Office	Per ton	9,397	11,835	14,545	17,405	20,265	22,975	25,413	27,509	29,240	30,623	31,699	32,520	33,135	33,591	33,591	30,772	30,041	29,228	28,370	27,512
831	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Service	Per ton	3,773	4,753	5,841	6,989	8,138	9,226	10,205	11,047	11,742	12,298	12,730	13,059	13,306	13,489	13,489	12,357	12,064	11,737	11,393	11,048
832	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Retail	Per ton	19,074	24,025	29,525	35,330	41,136	46,636	51,586	55,841	59,355	62,162	64,346	66,011	67,260	68,186	68,186	62,464	60,979	59,329	57,587	55,846
833	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
834	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Assembly	Per ton	4,103	5,167	6,350	7,599	8,848	10,031	11,096	12,011	12,767	13,370	13,840	14,198	14,467	14,666	14,666	13,435	13,116	12,761	12,387	12,012
835	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
836	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-BSS	BSS	Per ton	249	290	329	363	393	418	438	453	465	474	480	480	480	480	480	406	393	382	371	362
837	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
838	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Sales	Per ton	2,460	2,944	3,428	3,886	4,298	4,653	4,946	5,180	4,624	4,617	4,576	4,516	4,392	4,286	4,198	4,128	3,556	3,413	3,280	3,161
839	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
840	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Lodging	Per ton	21,277	25,461	29,645	33,608	37,176	40,242	42,774	44,797	39,988	39,933	39,578	39,056	37,986	37,066	36,307	35,700	30,759	29,521	28,372	27,339
841	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Office	Per ton	51,310	61,399	71,488	81,046	89,650	97,044	103,150	108,028	96,432	96,298	95,442	94,184	91,603	89,385	87,553	86,090	74,176	71,189	68,419	65,929
842	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Service	Per ton	14,408	17,241	20,074	22,758	25,174	27,250	28,964	30,334	27,078	27,041	26,800	26,447	25,722	25,099	24,585	24,174	20,829	19,990	19,212	18,513
843	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Retail	Per ton	54,034	64,659	75,284	85,350	94,410	102,197	108,627	113,765	101,552	101,412	100,510	99,185	96,467	94,131	92,202	90,661	78,114	74,969	72,052	69,430
844	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
845	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
846	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
847	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	BSS	Per ton	145	173	202	229	253	274	291	305	272	272	269	266	258	252	247	243	209	201	193	186
848	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Education	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
849	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Sales	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
850	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Health	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
851	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Lodging	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
852	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Office	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
853	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Service	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
854	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Retail	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
855	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Warehouse	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
856	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Assembly	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
857	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Other	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
858	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	BSS	Per ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
859	Hot Water	Faucet Aerator	Biz-Custom	Education	per unit	551,505	612,149	645,283	644,203	609,047	546,703	468,221	385,015	306,037	236,696	552,116	544,617	528,589	426,764	400,667	357,336	304,306	249,054	197,250	152,181
860	Hot Water	Faucet Aerator	Biz-Custom	Food Sales	per unit	1,837	2,039	2,149	2,146	2,028	1,821	1,559	1,282	1,019	788	1,837	1,811	1,757	1,418	1,331	1,186	1,010	826	654	504
861	Hot Water	Faucet Aerator	Biz-Custom	Health	per unit	38,168	42,366	44,663	44,593	42,165	37,856	32,430	26,675	21,211	16,413	38,304	37,808	36,720	29,669	27,878	24,884	21,210	17,374	13,772	10,635
862	Hot Water	Faucet Aerator	Biz-Custom	Lodging	per unit	608,033	674,956	711,579	710,500	671,856	603,234	516,801	425,127	338,080	261,621	610,633	602,747	585,433	473,020	444,450	396,704	338,105	276,935	219,503	169,477
863	Hot Water	Faucet Aerator	Biz-Custom	Office	per unit	440,240	488,655	515,100	514,219	486,125	436,325	373,641	307,191	244,122	188,753	440,122	433,945	420,942	339,638	318,641	283,962	241,627	197,593	156,363	120,536
864	Hot Water	Faucet Aerator	Biz-Custom	Food Service	per unit	668,521	742,041	782,198	780,860	738,198	662,575	567,388	466,480	370,709	286,629	668,341	658,961	639,217	515,752	483,868	431,206	366,920	300,052	237,443	183,039
865	Hot Water	Faucet Aerator	Biz-Custom	Retail	per unit	790,954	877,939	925,450	923,867	873,392	783,919	671,300	551,911	438,600	339,122	790,741	779,643	756,283	610,207	572,483	510,177	434,118	355,003	280,929	216,561
866	Hot Water	Faucet Aerator	Biz-Custom	Warehouse	per unit	69,508	77,152	81,327	81,188	76,752	68,890	58,993	48,501	38,544	29,802	69,489	68,514	66,461	53,624	50,309	44,834	38,150	31,197	24,688	19,031
867	Hot Water	Faucet Aerator	Biz-Custom	Assembly	per unit	70,266	77,993	82,214	82,073	77,589	69,641	59,636	49,030	38,964	30,127	70,247	69,261	67,186	54,209	50,858	45,323	38,566	31,537	24,957	19,239
868	Hot Water	Faucet Aerator	Biz-Custom	Other	per unit	138,654	153,902	162,231	161,953	153,105	137,421	117,678	96,750	76,886	59,448	138,617	136,671	132,576	106,969	100,356	89,434	76,101	62,232	49,247	37,963
869	Hot Water	Faucet Aerator	Biz-Custom	BSS	per unit	29,512	32,757	34,529	34,468	32,584	29,245	25,043	20,588	16,360	12,649	29,492	29,076	28,203	22,754	21,346	19,022	16,185	13,235	10,473	8,073
870	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Education	per unit	802	2,006	3,344	4,777	6,354	8,329	10,721	13,503	16,595	19,858	23,120	26,212	28,994	31,386	33,361	34,698	35,564	36,099	36,371	36,418
871	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Sales	per unit	3	8	14	20	27	35	45	57	70	84	98	111	123	133	141	147	150	153	154	154
872	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Health	per unit	49	123	204	292	388	509	655	825	1,013	1,213	1,412	1,601	1,770	1,917	2,037	2,119	2,172	2,204	2,221	2,224
873	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Lodging	per unit	816	2,040	3,401	4,858	6,463	8,472	10,904	13,734	16,878	20,197	23,516	26,660	29,491	31,923	33,931	35,291	36,173	36,717	36,993	37,041
874	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Office	per unit	851	2,127	3,544	5,063	6,736	8,829	11,364	14,314	17,591	21,050	24,509	27,786	30,735	33,270	35,364	36,781	37,700	38,266	38,555	38,605
875	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Service	per unit	1,292	3,229	5,382	7,689	10,229	13,408	17,257	21,736	26,713	31,965	37,217	42,194	46,673	50,522	53,701	55,854	57,249	58,109	58,547	58,623
876	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Retail	per unit	1,528	3,821	6,368	9,097	12,102	15,863	20,418	25,717	31,605	37,819	44,033	49,921	55,220	59,775	63,536	66,083	67,733	68,751	69,270	69,359
877	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Warehouse	per unit	134	336	560	799	1,064	1,394	1,794	2,260	2,777	3,323	3,870	4,387	4,853	5,253	5,583	5,807	5,952	6,042	6,087	6,095
878	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Assembly	per unit	136	339	566	808	1,075	1,409	1,814	2,285	2,808	3,360	3,912	4,435	4,906	5,310	5,644	5,871	6,017	6,108	6,154	6,162
879	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Other	per unit	268	670	1,116	1,595	2,121	2,781	3,579	4,508	5,540	6,630	7,719	8,751	9,680	10,479	11,138	11,584	11,874	12,052	12,143	12,159
880	Hot Water	Res-Sized Heat Pump Water Heater	Biz-BSS	BSS	per unit	59	147	244	349	464	608	783	986	1,212	1,451	1,689	1,915	2,118	2,293	2,437	2,535	2,598	2,637	2,657	2,660

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
881	Hot Water	Commercial-Sized HPWH	Biz-Standard	Education	per unit	5	12	20	29	39	51	66	83	101	121	141	160	177	192	204	212	217	221	222	223
882	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Sales	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
883	Hot Water	Commercial-Sized HPWH	Biz-Standard	Health	per unit	0	1	1	2	3	4	5	6	7	8	10	11	12	13	14	15	15	15	15	15
884	Hot Water	Commercial-Sized HPWH	Biz-Standard	Lodging	per unit	5	12	21	29	39	51	66	83	102	122	143	162	179	194	206	214	219	223	224	225
885	Hot Water	Commercial-Sized HPWH	Biz-Standard	Office	per unit	1	1	2	3	4	5	7	9	11	13	15	17	19	21	22	23	23	24	24	24
886	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Service	per unit	1	2	3	5	6	8	11	13	17	20	23	26	29	31	33	35	35	36	36	36
887	Hot Water	Commercial-Sized HPWH	Biz-Standard	Retail	per unit	1	2	4	6	7	10	13	16	20	23	27	31	34	37	39	41	42	43	43	43
888	Hot Water	Commercial-Sized HPWH	Biz-Standard	Warehouse	per unit	0	0	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4
889	Hot Water	Commercial-Sized HPWH	Biz-Standard	Assembly	per unit	0	0	0	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4
890	Hot Water	Commercial-Sized HPWH	Biz-Standard	Other	per unit	0	0	1	1	1	2	2	3	3	4	5	5	6	6	7	7	7	7	8	8
891	Hot Water	Commercial-Sized HPWH	Biz-BSS	BSS	per unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
892	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Education	per unit	19,238	23,620	28,227	32,811	37,120	35,227	37,166	38,402	39,040	39,221	35,189	34,016	32,712	30,873	29,240	25,214	23,459	21,889	20,656	19,575
893	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Sales	per unit	64	79	94	109	124	117	124	128	130	131	117	113	109	103	97	84	78	73	68	65
894	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Health	per unit	1,331	1,635	1,954	2,271	2,570	2,439	2,574	2,661	2,706	2,720	2,441	2,361	2,272	2,146	2,034	1,756	1,635	1,527	1,442	1,368
895	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Lodging	per unit	21,210	26,043	31,127	36,187	40,948	38,870	41,022	42,403	43,127	43,351	38,919	37,646	36,230	34,219	32,435	27,992	26,065	24,339	22,987	21,799
896	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Office	per unit	15,357	18,855	22,533	26,190	29,628	28,115	29,658	30,640	31,142	31,277	28,051	27,103	26,050	24,570	23,254	20,037	18,627	17,366	16,375	15,504
897	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Service	per unit	23,319	28,632	34,217	39,771	44,991	42,693	45,037	46,528	47,290	47,495	42,597	41,157	39,559	37,311	35,312	30,426	28,286	26,371	24,865	23,544
898	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Retail	per unit	27,590	33,875	40,483	47,055	53,231	50,512	53,285	55,049	55,950	56,193	50,398	48,695	46,803	44,144	41,779	35,998	33,467	31,200	29,419	27,856
899	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Warehouse	per unit	2,425	2,977	3,558	4,135	4,678	4,439	4,683	4,838	4,917	4,938	4,429	4,279	4,113	3,879	3,671	3,163	2,941	2,742	2,585	2,448
900	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Assembly	per unit	2,451	3,009	3,596	4,180	4,729	4,487	4,734	4,890	4,970	4,992	4,477	4,326	4,158	3,922	3,711	3,198	2,973	2,772	2,614	2,475
901	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Other	per unit	4,837	5,938	7,097	8,249	9,331	8,855	9,341	9,650	9,808	9,851	8,835	8,536	8,205	7,738	7,324	6,311	5,867	5,469	5,157	4,883
902	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	BSS	per unit	1,029	1,264	1,510	1,756	1,986	1,884	1,988	2,053	2,087	2,096	1,880	1,816	1,745	1,646	1,558	1,342	1,248	1,163	1,097	1,038
903	Hot Water	Custom Hot Water	Biz-Custom	Education	per kWh savec	7,048,711	10,573,067	11,747,852	12,586,984	13,859,846	17,346,789	21,005,420	24,441,542	27,154,569	28,661,656	33,595,754	34,555,716	32,665,038	29,816,309	27,048,681	26,002,598	25,488,187	25,328,801	25,175,007	24,635,183
904	Hot Water	Custom Hot Water	Biz-Custom	Food Sales	per kWh savec	23,481	35,222	39,135	41,930	46,171	57,786	69,974	81,421	90,459	95,479	111,916	115,114	108,815	99,326	90,106	86,621	84,907	84,377	83,864	82,066
905	Hot Water	Custom Hot Water	Biz-Custom	Health	per kWh savec	487,807	731,710	813,011	871,084	959,172	1,200,486	1,453,682	1,691,480	1,879,235	1,983,533	2,324,998	2,391,432	2,260,587	2,063,441	1,871,907	1,799,513	1,763,913	1,752,882	1,742,239	1,704,880
906	Hot Water	Custom Hot Water	Biz-Custom	Lodging	per kWh savec	6,820,188	10,230,282	11,366,980	12,178,907	13,410,502	16,784,396	20,324,412	23,649,133	26,274,202	27,732,429	32,506,560	33,435,399	31,606,019	28,849,647	26,171,747	25,159,579	24,661,845	24,507,627	24,358,818	23,836,496
907	Hot Water	Custom Hot Water	Biz-Custom	Office	per kWh savec	4,938,245	7,407,367	8,230,408	8,818,295	9,710,047	12,152,958	14,716,153	17,123,460	19,024,175	20,080,023	23,536,794	24,209,332	22,884,746	20,888,959	18,949,991	18,217,117	17,856,727	17,745,063	17,637,317	17,259,122
908	Hot Water	Custom Hot Water	Biz-Custom	Food Service	per kWh savec	7,498,906	11,248,359	12,498,177	13,390,904	14,745,062	18,454,713	22,347,017	26,002,602	28,888,907	30,492,251	35,741,485	36,762,759	34,751,325	31,720,650	28,776,256	27,663,361	27,116,095	26,946,529	26,782,912	26,208,610
909	Hot Water	Custom Hot Water	Biz-Custom	Retail	per kWh savec	8,872,254	13,308,382	14,787,091	15,843,312	17,445,470	21,834,506	26,439,647	30,764,714	34,179,617	36,076,597	42,287,175	43,495,485	41,115,678	37,529,965	34,046,335	32,729,624	32,082,132	31,881,513	31,687,930	31,008,451
910	Hot Water	Custom Hot Water	Biz-Custom	Warehouse	per kWh savec	779,680	1,169,520	1,299,467	1,392,286	1,533,081	1,918,783	2,323,476	2,703,556	3,003,653	3,170,356	3,716,132	3,822,317	3,613,183	3,298,076	2,991,940	2,876,229	2,819,329	2,801,699	2,784,687	2,724,975
911	Hot Water	Custom Hot Water	Biz-Custom	Assembly	per kWh savec	788,183	1,182,275	1,313,639	1,407,470	1,549,801	1,939,709	2,348,815	2,733,041	3,036,410	3,204,932	3,756,660	3,864,003	3,652,588	3,334,045	3,024,570	2,907,597	2,850,076	2,832,254	2,815,057	2,754,694
912	Hot Water	Custom Hot Water	Biz-Custom	Other	per kWh savec	1,555,302	2,332,953	2,592,170	2,777,325	3,058,182	3,827,578	4,634,857	5,393,039	5,991,670	6,324,209	7,412,921	7,624,737	7,207,558	6,578,984	5,968,305	5,737,487	5,623,982	5,588,813	5,554,878	5,435,766
913	Hot Water	Custom Hot Water	Biz-Custom	BSS	per kWh savec	331,050	496,576	551,751	591,161	650,943	814,711	986,542	1,147,923	1,275,344	1,346,126	1,577,861	1,622,947	1,534,149	1,400,355	1,270,371	1,221,240	1,197,080	1,189,595	1,182,371	1,157,018
914	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Education	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Sales	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
916	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Health	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
917	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Lodging	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Office	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
919	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Service	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
920	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Retail	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Warehouse	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Assembly	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
923	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Other	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
924	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	BSS	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925	Misc	Miscellaneous Custom	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926	Misc	Miscellaneous Custom	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
927	Misc	Miscellaneous Custom	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
928	Misc	Miscellaneous Custom	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929	Misc	Miscellaneous Custom	Biz-Custom	Office	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
930	Misc	Miscellaneous Custom	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
931	Misc	Miscellaneous Custom	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
932	Misc	Miscellaneous Custom	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
933	Misc	Miscellaneous Custom	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
934	Misc	Miscellaneous Custom	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
935	Misc	Miscellaneous Custom	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
936	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Education	per HP	109,666	118,711	126,180	132,148	136,792	140,331	142,987	144,955	144,955	144,955	144,955	144,955	144,955	144,955	144,955	144,955	144,955	144,955	144,955	144,955
937	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Sales	per HP	14,950	16,183	17,201	18,015	18,648	19,130	19,492	19,760	19,760	19,760	19,760	19,760	19,760	19,760	19,760	19,760	19,760	19,760	19,760	19,760
938	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Health	per HP	20,937	22,664	24,090	25,230	26,116	26,792	27,299	27,675	27,675	27,675	27,675	27,675	27,675	27,675	27,675	27,675	27,675	27,675	27,675	27,675
939	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Lodging	per HP	32,389	35,061	37,267	39,030	40,401	41,446	42,231	42,812	42,812	42,812	42,812	42,812	42,812	42,812	42,812	42,812	42,812	42,812	42,812	42,812
940	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Office	per HP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
941	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Service	per HP	13,575	14,695	15,620	16,358	16,933	17,371	17,700	17,944	17,944	17,944	17,944	17,944	17,944	17,944	17,944	17,944	17,944	17,944	17,944	17,944
942	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Retail	per HP	140,284	151,854	161,409	169,043	174,984	179,511	182,908	185,426	185,426	185,426	185,426	185,426	185,426	185,426	185,426	185,426	185,426	185,426	185,426	185,426
943	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Warehouse	per HP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
944	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Assembly	per HP	29,262	31,675	33,668	35,261	36,500	37,444	38,153	38,678	38,678	38,678	38,678	38,678	38,678	38,678	38,678	38,678	38,678	38,678	38,678	38,678
945	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Other	per HP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
946	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-BSS	BSS	per HP	54,899	58,353	61,113	63,260	64,897	66,125	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036	67,036
947	Misc	High Efficiency Hand Dryers	Biz-Custom	Education	per measure	97,483	102,894	102,894	97,483	87,744	75,408	62,274	49,756	38,715	29,508	90,377	88,439	72,026	68,238	61,421	52,786	43,592	34,829	27,101	20,656
948	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Sales	per measure	5,747	6,384	6,739	6,739	6,384	5,747	4,939	4,078	3,259	2,536	5,955	5,919	5,792	4,717	4,469	4,023	3,457	2,855	2,281	1,775
949	Misc	High Efficiency Hand Dryers	Biz-Custom	Health	per measure	18,425	19,447	19,447	18,425	16,584	14,252	11,770	9,404	7,317	5,577	17,081	16,715	13,613	12,897	11,609	9,977	8,239	6,583	5,122	3,904
950	Misc	High Efficiency Hand Dryers	Biz-Custom	Lodging	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
951	Misc	High Efficiency Hand Dryers	Biz-Custom	Office	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
952	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Service	per measure	22,042	24,489	25,848	25,848	24,489	22,042	18,943	15,644	12,499	9,726	22,842	22,704	22,217	18,094	17,142	15,430	13,260	10,951	8,749	6,808
953	Misc	High Efficiency Hand Dryers	Biz-Custom	Retail	per measure	123,342	137,033	144,638	144,638	137,033	123,342	106,002	87,539	69,942	54,422	127,819	127,043	124,319	101,247	95,923	86,339	74,201	61,277	48,960	38,096
954	Misc	High Efficiency Hand Dryers	Biz-Custom	Warehouse	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
955	Misc	High Efficiency Hand Dryers	Biz-Custom	Assembly	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
956	Misc	High Efficiency Hand Dryers	Biz-Custom	Other	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
957	Misc	High Efficiency Hand Dryers	Biz-Custom	BSS	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
958	Misc	Ozone Commercial Laundry	Biz-Custom	Education	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
959	Misc	Ozone Commercial Laundry	Biz-Custom	Food Sales	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
960	Misc	Ozone Commercial Laundry	Biz-Custom	Health	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961	Misc	Ozone Commercial Laundry	Biz-Custom	Lodging	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
962	Misc	Ozone Commercial Laundry	Biz-Custom	Office	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
963	Misc	Ozone Commercial Laundry	Biz-Custom	Food Service	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
964	Misc	Ozone Commercial Laundry	Biz-Custom	Retail	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
965	Misc	Ozone Commercial Laundry	Biz-Custom	Warehouse	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
966	Misc	Ozone Commercial Laundry	Biz-Custom	Assembly	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
967	Misc	Ozone Commercial Laundry	Biz-Custom	Other	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
968	Misc	Ozone Commercial Laundry	Biz-Custom	BSS	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
969	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Education	per measure	33,864	34,740	35,398	35,885	35,885	35,885	35,885	35,885	35,885	35,885	35,885	35,885	35,885	35,885	35,885	35,726	25,463	25,266	25,120	25,120
970	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Sales	per measure	2,260	2,318	2,362	2,394	2,394	2,394	2,394	2,394	2,394	2,394	2,394	2,394	2,394	2,394	2,394	1,717	1,699	1,686	1,676	1,676
971	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Health	per measure	6,371	6,536	6,660	6,752	6,752	6,752	6,752	6,752	6,752	6,752	6,752	6,752	6,752	6,752	6,752	4,840	4,791	4,754	4,726	4,726
972	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Lodging	per measure	9,551	9,798	9,983	10,121	10,121	10,121	10,121	10,121	10,121	10,121	10,121	10,121	10,121	10,121	10,121	7,255	7,181	7,126	7,084	7,084
973	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Office	per measure	436,786	448,087	456,566	462,852	462,852	462,852	462,852	462,852	462,852	462,852	462,852	462,852	462,852	462,852	462,852	331,817	328,426	325,883	323,997	323,997
974	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Service	per measure	2,262	2,320	2,364	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	1,718	1,700	1,687	1,678	1,678
975	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Retail	per measure	21,091	21,637	22,046	22,350	22,350	22,350	22,350	22,350	22,350	22,350	22,350	22,350	22,350	22,350	22,350	16,023	15,859	15,736	15,645	15,645
976	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Warehouse	per measure	18,385	18,861	19,218	19,482	19,482	19,482	19,482	19,482	19,482	19,482	19,482	19,482	19,482	19,482	19,482	13,967	13,824	13,717	13,638	13,638
977	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Assembly	per measure	8,940	9,171	9,345	9,474	9,474	9,474	9,474	9,474	9,474	9,474	9,474	9,474	9,474	9,474	9,474	6,792	6,722	6,670	6,632	6,632
978	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Other	per measure	67,049	68,784	70,086	71,051	71,051	71,051	71,051	71,051	71,051	71,051	71,051	71,051	71,051	71,051	71,051	50,936	50,415	50,025	49,735	49,735
979	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	BSS	per measure	57,841	59,337	60,460	61,293	61,293	61,293	61,293	61,293	61,293	61,293	61,293	61,293	61,293	61,293	61,293	43,940	43,491	43,155	42,905	42,905
980	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Education	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
981	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Sales	per measure	7,189	7,782	8,272	8,663	8,968	9,200	9,374	9,503	9,503	9,503	7,346	7,168	7,021	6,904	6,813	6,743	6,691	6,652	6,652	6,652
982	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Health	per measure	10,136	10,972	11,662	12,214	12,643	12,970	13,216	13,398	13,398	13,398	10,357	10,106	9,899	9,733	9,605	9,507	9,433	9,378	9,378	9,378
983	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Lodging	per measure	18,233	19,736	20,978	21,970	22,742	23,331	23,772	24,100	24,100	24,100	18,630	18,179	17,806	17,509	17,277	17,100	16,968	16,870	16,870	16,870
984	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Office	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
985	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Service	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
986	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Retail	per measure	80,529	87,171	92,655	97,038	100,448	103,047	104,997	106,442	106,442	106,442	82,284	80,291	78,646	77,331	76,308	75,528	74,943	74,510	74,510	74,510
987	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Warehouse	per measure	31,907	34,539	36,712	38,448	39,799	40,829	41,602	42,175	42,175	42,175	32,602	31,813	31,161	30,640	30,235	29,926	29,694	29,522	29,522	29,522
988	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Assembly	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
989	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Other	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
990	Misc	Pool Pump w/ Variable Frequency Drive	Biz-BSS	BSS	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
991	Misc	Pool Pump Timer	Biz-Custom	Education	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
992	Misc	Pool Pump Timer	Biz-Custom	Food Sales	per measure	7,187	7,778	8,264	8,652	8,953	9,181	9,351	9,476	9,473	9,469	7,319	7,141	6,995	6,877	6,786	6,717	6,665	6,626	6,626	6,626
993	Misc	Pool Pump Timer	Biz-Custom	Health	per measure	10,133	10,965	11,651	12,198	12,622	12,944	13,184	13,360	13,355	13,350	10,319	10,068	9,861	9,696	9,568	9,470	9,397	9,342	9,342	9,342
994	Misc	Pool Pump Timer	Biz-Custom	Lodging	per measure	18,227	19,724	20,958	21,942	22,705	23,283	23,715	24,032	24,023	24,013	18,562	18,111	17,739	17,442	17,210	17,034	16,902	16,805	16,805	16,805
995	Misc	Pool Pump Timer	Biz-Custom	Office	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
996	Misc	Pool Pump Timer	Biz-Custom	Food Service	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
997	Misc	Pool Pump Timer	Biz-Custom	Retail	per measure	80,505	87,118	92,568	96,912	100,281	102,837	104,743	106,144	106,103	106,062	81,982	79,991	78,348	77,035	76,015	75,237	74,654	74,222	74,222	74,222
998	Misc	Pool Pump Timer	Biz-Custom	Warehouse	per measure	31,898	34,518	36,677	38,398	39,733	40,746	41,501	42,056	42,040	42,024	32,483	31,694	31,043	30,523	30,119	29,810	29,579	29,408	29,408	29,408
999	Misc	Pool Pump Timer	Biz-Custom	Assembly	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	Misc	Pool Pump Timer	Biz-Custom	Other	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1001	Misc	Pool Pump Timer	Biz-Custom	BSS	per measure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1002	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Education	per measure	63,112	94,668	105,186	112,700	124,097	155,318	188,076	263,020	309,401	330,258	335,517	330,001	327,564	319,729	339,432	340,677	327,740	308,459	286,216	270,231
1003	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Sales	per measure	1,864	2,796	3,107	3,329	3,665	4,587	5,555	7,768	9,138	9,754	9,910	9,747	9,675	9,443	10,025	10,062	9,680	9,111	8,454	7,981
1004	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Health	per measure	50,572	75,858	84,286	90,307	99,439	124,457	150,706	210,759	247,924	264,637	268,851	264,431	262,478	256,200	271,988	272,986	262,620	247,169	229,346	216,537
1005	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Lodging	per measure	13,251	19,877	22,086	23,663	26,056	32,611	39,489	55,225	64,963	69,343	70,447	69,289	68,777	67,132	71,269	71,530	68,814	64,766	60,095	56,739
1006	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Office	per measure	256,007	384,010	426,678	457,155	503,385	630,029	762,909	1,066,913	1,255,051	1,339,656	1,360,989	1,338,613	1,328,728	1,296,946	1,376,868	1,381,920	1,329,444	1,251,230	1,161,006	1,096,164
1007	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Service	per measure	8,986	13,479	14,977	16,047	17,670	22,115	26,779	37,450	44,054	47,024	47,773	46,987	46,640	45,525	48,330	48,507	46,665	43,920	40,753	38,477
1008	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Retail	per measure	59,511	89,266	99,185	106,269	117,016	146,456	177,345	248,013	291,747	311,414	316,374	311,172	308,874	301,486	320,065	321,239	309,041	290,859	269,886	254,813
1009	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Warehouse	per measure	13,075	19,613	21,792	23,349	25,710	32,178	38,965	54,491	64,100	68,421	69,511	68,368	67,863	66,240	70,322	70,580	67,899	63,905	59,297	55,985
1010	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Assembly	per measure	13,006	19,509	21,676	23,225	25,573	32,007	38,758	54,202	63,760	68,058	69,142	68,005	67,503	65,888	69,948	70,205	67,539	63,566	58,982	55,688
1011	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Other	per measure	108,271	162,406	180,451	193,341	212,892	266,453	322,651	451,221	530,789	566,570	575,592	566,129	561,949	548,507	582,308	584,445	562,251	529,173	491,015	463,592
1012	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	BSS	per measure	25,047	37,571	41,745	44,727	49,250	61,641	74,641	104,385	122,792	131,069	133,156	130,967	130,000	126,891	134,710	135,204	130,070	122,418	113,590	107,246
1013	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Education	per measure	75,047	112,570	125,078	134,012	147,564	184,689	223,642	260,226	341,643	383,956	392,711	382,919	363,520	352,924	341,238	329,722	353,970	356,283	340,555	316,721
1014	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Sales	per measure	2,217	3,325	3,694	3,958	4,358	5,455	6,605	7,686	10,091	11,340	11,599	11,310	10,737	10,424	10,079	9,739	10,455	10,523	10,059	9,355
1015	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Health	per measure	60,135	90,203	100,225	107,384	118,243	147,992	179,205	208,520	273,760	307,665	314,681	306,835	291,290	282,799	273,435	264,207	283,638	285,491	272,888	253,790
1016	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Lodging	per measure	15,757	23,636	26,262	28,138	30,983	38,778	46,957	54,638	71,733	80,617	82,456	80,400	76,327	74,102	71,648	69,230	74,322	74,807	71,505	66,500
1017	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Office	per measure	304,419	456,628	507,364	543,605	598,577	749,171	907,179	1,055,578	1,385,841	1,557,475	1,592,991	1,553,271	1,474,582	1,431,598	1,384,196	1,337,481	1,435,843	1,445,225	1,381,425	1,284,745
1018	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Service	per measure	10,686	16,028	17,809	19,081	21,011	26,297	31,843	37,052	48,645	54,670	55,916	54,522	51,760	50,251	48,587	46,948	50,400	50,730	48,490	45,096
1019	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Retail	per measure	70,765	106,147	117,941	126,366	139,144	174,151	210,881	245,378	322,150	362,048	370,304	361,071	342,779	332,787	321,768	310,909	333,774	335,955	321,124	298,650
1020	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Warehouse	per measure	15,548	23,322	25,913	27,764	30,571	38,263	46,333	53,912	70,780	79,546	81,360	79,331	75,312	73,117	70,696	68,310	73,334	73,813	70,554	65,617
1021	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Assembly	per measure	15,465	23,198	25,775	27,616	30,409	38,060	46,087	53,626	70,404	79,123	80,928	78,910	74,912	72,729	70,320	67,947	72,944	73,421	70,180	65,268
1022	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Other	per measure	128,745	193,118	214,576	229,902	253,151	316,841	383,666	446,427	586,103	658,691	673,711	656,913	623,633	605,455	585,407	565,650	607,250	611,217	584,235	543,347
1023	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	BSS	per measure	29,784	44,676	49,640	53,185	58,564	73,297	88,757	103,276	135,588	152,380	155,855	151,969	144,270	140,065	135,427	130,856	140,480	141,398	135,156	125,697
1024	Plug_Office	Energy Star Server	Biz-Custom	Education	per server	13,155	19,733	21,926	23,492	25,867	32,375	39,203	45,616	50,680	62,701	67,306	66,028	62,060	57,310	55,038	53,310	52,059	50,817	55,400	55,647
1025	Plug_Office	Energy Star Server	Biz-Custom	Food Sales	per server	171	256	285	305	336	421	509	593	658	814	874	858	806	744	715	692	676	660	720	723
1026	Plug_Office	Energy Star Server	Biz-Custom	Health	per server	13,153	19,730	21,922	23,488	25,864	32,371	39,198	45,610	50,673	62,692	67,296	66,018	62,052	57,302	55,030	53,302	52,052	50,810	55,393	55,639
1027	Plug_Office	Energy Star Server	Biz-Custom	Lodging	per server	2,692	4,038	4,486	4,807	5,293	6,624	8,022	9,334	10,370	12,830	13,772	13,510	12,699	11,727	11,262	10,908	10,652	10,398	11,336	11,386
1028	Plug_Office	Energy Star Server	Biz-Custom	Office	per server	60,469	90,704	100,782	107,981	118,900	148,814	180,201	209,678	232,953	288,210	309,374	303,500	285,265	263,431	252,984	245,041	239,292	233,582	254,651	255,784
1029	Plug_Office	Energy Star Server	Biz-Custom	Food Service	per server	618	927	1,030	1,104	1,215	1,521	1,842	2,143	2,381	2,946	3,162	3,102	2,916	2,693	2,586	2,505	2,446	2,388	2,603	2,614
1030	Plug_Office	Energy Star Server	Biz-Custom	Retail	per server	13,051	19,576	21,751	23,305	25,662	32,118	38,892	45,254	50,277	62,203	66,771	65,503	61,567	56,855	54,600	52,886	51,645	50,413	54,960	55,205
1031	Plug_Office	Energy Star Server	Biz-Custom	Warehouse	per server	3,005	4,507	5,008	5,366	5,908	7,395	8,954	10,419	11,576	14,322	15,373	15,081	14,175	13,090	12,571	12,177	11,891	11,607	12,654	12,710
1032	Plug_Office	Energy Star Server	Biz-Custom	Assembly	per server	2,362	3,542	3,936	4,217	4,644	5,812	7,038	8,189	9,098	11,256	12,082	11,853	11,141	10,288	9,880	9,570	9,345	9,122	9,945	9,989
1033	Plug_Office	Energy Star Server	Biz-Custom	Other	per server	28,960	43,440	48,267	51,715	56,944	71,271	86,302	100,420	111,567	138,031	148,167	145,354	136,620	126,163	121,160	117,356	114,603	111,868	121,958	122,501
1034	Plug_Office	Energy Star Server	Biz-Custom	BSS	per server	4,862	7,293	8,104	8,683	9,561	11,966	14,490	16,860	18,732	23,175	24,877	24,404	22,938	21,182	20,342	19,704	19,241	18,782	20,476	20,568
1035	Plug_Office	Server Virtualization	Biz-Custom	Education	per server	68,001	102,001	113,335	121,430	133,710	167,349	202,645	235,794	261,967	324,107	347,907	341,302	320,795	296,242	284,493	275,561	269,096	262,675	286,368	287,643
1036	Plug_Office	Server Virtualization	Biz-Custom	Food Sales	per server	883	1,325	1,472	1,577	1,737	2,174	2,632	3,063	3,403	4,210	4,519	4,434	4,167	3,848	3,696	3,580	3,496	3,412	3,720	3,737
1037	Plug_Office	Server Virtualization	Biz-Custom	Health	per server	67,991	101,987	113,319	121,413	133,691	167,326	202,617	235,761	261,931	324,062	347,859	341,254	320,750	296,200	284,454	275,523	269,058	262,638	286,328	287,603
1038	Plug_Office	Server Virtualization	Biz-Custom	Lodging	per server	13,914	20,871	23,190	24,847	27,359	34,242	41,464	48,247	53,603	66,318	71,187	69,836	65,640	60,616	58,212	56,384	55,061	53,748	58,595	58,856
1039	Plug_Office	Server Virtualization	Biz-Custom	Office	per server	312,570	468,855	520,950	558,160	614,604	769,230	931,469	1,083,842	1,204,149	1,489,778	1,599,177	1,568,813	1,474,554	1,361,692	1,307,691	1,266,633	1,236,915	1,207,401	1,316,307	1,322,167
1040	Plug_Office	Server Virtualization	Biz-Custom	Food Service	per server	3,195	4,792	5,325	5,705	6,282	7,863	9,521	11,078	12,308	15,228	16,346	16,036	15,072	13,919	13,367	12,947	12,643	12,341	13,455	13,515
1041	Plug_Office	Server Virtualization	Biz-Custom	Retail	per server	67,461	101,191	112,434	120,465	132,647	166,020	201,035	233,921	259,886	321,533	345,144	338,590	318,247	293,888	282,233	273,372	266,958	260,588	284,093	285,358
1042	Plug_Office	Server Virtualization	Biz-Custom	Warehouse	per server	15,532	23,298	25,887	27,736	30,541	38,224	46,286	53,858	59,836	74,030	79,466	77,957	73,273	67,665	64,981	62,941	61,464	59,998	65,410	65,701
1043	Plug_Office	Server Virtualization	Biz-Custom	Assembly	per server	12,207	18,311	20,345	21,798	24,003	30,041	36,377	42,328	47,027	58,182	62,454	61,268	57,587	53,179	51,070	49,467	48,306	47,154	51,407	51,636
1044	Plug_Office	Server Virtualization	Biz-Custom	Other	per server	149,697	224,546	249,495	267,317	294,349	368,403	446,103	519,078	576,696	713,491	765,885	751,343	706,200	652,148	626,285	606,621	592,389	578,254	630,412	633,218
1045	Plug_Office	Server Virtualization	Biz-Custom	BSS	per server	25,134	37,701	41,889	44,882	49,420	61,854	74,899	87,152	96,825	119,793	128,590	126,148	118,569	109,494	105,151	101,850	99,460	97,087	105,844	106,315
1046	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Education	per unit	1,387	2,081	2,312	2,477	2,728	3,414	4,134	4,810	5,344	5,641	5,641	5,344	4,810	4,134	3,414	3,699	3,579	3,236	2,948	2,809
1047	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Sales	per unit	18	27	30	32	35	44	54	62	69	73	73	69	62	54	44	48	46	42	38	36
1048	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Health	per unit	1,387	2,081	2,312	2,477	2,727	3,413	4,133	4,809	5,343	5,640	5,640	5,343	4,809	4,133	3,413	3,698	3,578	3,236	2,947	2,809
1049	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Lodging	per unit	284	426	473	507	558	699	846	984	1,093	1,154	1,154	1,093	984	846	699	757	732	662	603	575
1050	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Office	per unit	6,376	9,565	10,627	11,386	12,538	15,692	19,002	22,110	24,564	25,928	25,928	24,564	22,110	19,002	15,692	17,001	16,451	14,875	13,549	12,912
1051	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Service	per unit	65	98	109	116	128	160	194	226	251	265	265	251	226	194	160	174	168	152	138	132
1052	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Retail	per unit	1,376	2,064	2,294	2,457	2,706	3,387	4,101	4,772	5,302	5,596	5,596	5,302	4,772	4,101	3,387	3,669	3,551	3,210	2,924	2,787
1053	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Warehouse	per unit	317	475	528	566	623	780	944	1,099	1,221	1,288	1,288	1,221	1,099	944	780	845	817	739	673	642
1054	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Assembly	per unit	249	374	415	445	490	613	742	863	959	1,013	1,013	959	863	742	613	664	642	581	529	504
1055	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Other	per unit	3,054	4,581	5,090	5,453	6,005	7,515	9,100	10,589	11,764	12,417	12,417	11,764	10,589	9,100	7,515	8,142	7,879	7,124	6,489	6,184
1056	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	BSS	per unit	513	769	855	916	1,008	1,262	1,528	1,778	1,975	2,085	2,085	1,975	1,778	1,528	1,262	1,367	1,323	1,196	1,089	1,038

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1057	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Education	per ton	146	365	608	868	1,155	1,514	1,948	2,454	3,016	3,609	4,202	4,764	5,270	5,704	6,063	6,306	6,464	6,561	6,610	6,619
1058	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Sales	per ton	2	5	8	11	15	20	25	32	39	47	55	62	68	74	79	82	84	85	86	86
1059	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Health	per ton	146	365	608	868	1,155	1,514	1,948	2,454	3,016	3,609	4,201	4,763	5,269	5,703	6,062	6,305	6,463	6,560	6,609	6,618
1060	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Lodging	per ton	30	75	124	178	236	310	399	502	617	738	860	975	1,078	1,167	1,241	1,290	1,323	1,342	1,353	1,354
1061	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Office	per ton	670	1,676	2,793	3,990	5,309	6,958	8,956	11,281	13,863	16,589	19,315	21,898	24,222	26,220	27,870	28,987	29,711	30,157	30,385	30,424
1062	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Service	per ton	7	17	29	41	54	71	92	115	142	170	197	224	248	268	285	296	304	308	311	311
1063	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Retail	per ton	145	362	603	861	1,146	1,502	1,933	2,435	2,992	3,580	4,169	4,726	5,228	5,659	6,015	6,256	6,412	6,509	6,558	6,566
1064	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Warehouse	per ton	33	83	139	198	264	346	445	561	689	824	960	1,088	1,204	1,303	1,385	1,440	1,476	1,499	1,510	1,512
1065	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Assembly	per ton	26	65	109	156	207	272	350	441	541	648	754	855	946	1,024	1,088	1,132	1,160	1,178	1,187	1,188
1066	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Other	per ton	321	803	1,338	1,911	2,542	3,333	4,289	5,403	6,639	7,945	9,250	10,487	11,601	12,557	13,348	13,882	14,229	14,443	14,552	14,571
1067	Plug_Office	High Efficiency CRAC unit	Biz-Custom	BSS	per ton	54	135	225	321	427	560	720	907	1,115	1,334	1,553	1,761	1,948	2,108	2,241	2,331	2,389	2,425	2,443	2,446
1068	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Education	mbtu/hr	57,524	86,252	95,794	102,588	112,903	141,215	170,861	198,623	220,438	232,409	232,143	219,691	197,538	169,610	139,956	151,528	146,539	132,436	120,584	114,879
1069	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Sales	mbtu/hr	747	1,121	1,245	1,334	1,468	1,837	2,223	2,585	2,871	3,028	3,026	2,866	2,578	2,214	1,828	1,980	1,915	1,731	1,576	1,502
1070	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Health	mbtu/hr	57,514	86,232	95,765	102,550	112,851	141,136	170,744	198,459	220,219	232,138	231,831	219,358	197,207	169,302	139,684	151,218	146,225	132,143	120,309	114,611
1071	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Lodging	mbtu/hr	11,770	17,649	19,601	20,992	23,103	28,896	34,963	40,645	45,109	47,560	47,507	44,959	40,426	34,712	28,643	31,012	29,991	27,105	24,679	23,512
1072	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Office	mbtu/hr	264,406	396,443	440,284	471,491	518,874	648,950	785,134	912,634	1,012,774	1,067,673	1,066,342	1,009,051	907,218	778,895	642,669	695,767	672,825	608,046	553,611	527,403
1073	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Service	mbtu/hr	2,703	4,054	4,504	4,824	5,311	6,645	8,044	9,356	10,390	10,962	10,956	10,375	9,335	8,019	6,620	7,170	6,937	6,271	5,711	5,442
1074	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Retail	mbtu/hr	57,066	85,565	95,030	101,768	111,998	140,080	169,483	197,015	218,645	230,510	230,236	217,879	195,901	168,200	138,788	150,260	145,310	131,323	119,569	113,910
1075	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Warehouse	mbtu/hr	13,139	19,700	21,879	23,430	25,785	32,249	39,017	45,354	50,332	53,061	52,996	50,150	45,090	38,713	31,943	34,582	33,442	30,223	27,517	26,215
1076	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Assembly	mbtu/hr	10,327	15,484	17,198	18,419	20,271	25,356	30,682	35,670	39,591	41,746	41,702	39,469	35,493	30,477	25,151	27,232	26,337	23,803	21,674	20,649
1077	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Other	mbtu/hr	126,626	189,851	210,835	225,766	248,438	310,693	375,856	436,841	484,711	510,914	510,204	482,726	433,954	372,530	307,345	332,710	321,715	290,724	264,684	252,143
1078	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	BSS	mbtu/hr	21,262	31,881	35,408	37,920	41,734	52,201	63,162	73,428	81,497	85,927	85,833	81,234	73,046	62,722	51,757	56,039	54,195	48,980	44,598	42,489
1079	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Education	r DC w/ H/C ai	13,181,358	19,757,440	21,934,562	23,480,335	25,829,204	32,287,337	39,038,138	45,344,056	50,278,088	52,957,416	61,942,736	63,583,308	59,992,616	54,671,026	49,527,178	47,556,847	46,572,304	46,246,063	45,937,276	44,930,173
1080	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Sales	r DC w/ H/C ai	171,266	256,796	285,202	305,426	336,133	420,418	508,676	591,325	656,266	691,909	810,100	832,339	786,013	716,836	649,811	624,294	611,636	607,565	603,678	590,578
1081	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Health	r DC w/ H/C ai	13,178,525	19,750,954	21,924,574	23,466,419	25,809,962	32,257,109	38,992,512	45,278,723	50,190,339	52,847,819	61,794,225	63,410,809	59,812,499	54,492,952	49,355,092	47,383,071	46,395,337	46,064,905	45,752,993	44,746,519
1082	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Lodging	r DC w/ H/C ai	2,697,140	4,042,775	4,488,323	4,804,698	5,285,429	6,607,099	7,988,753	9,279,477	10,289,558	10,838,285	12,677,691	13,013,924	12,279,397	11,190,485	10,137,850	9,734,734	9,533,357	9,466,700	9,403,591	9,197,510
1083	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Office	r DC w/ H/C ai	60,586,360	90,806,712	100,805,797	107,901,533	118,685,453	148,344,831	179,338,281	208,275,607	230,899,551	243,160,259	284,365,391	291,845,539	275,319,913	250,862,228	227,231,713	218,169,929	213,635,889	212,125,447	210,697,970	206,070,003
1084	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Service	r DC w/ H/C ai	619,484	928,935	1,031,788	1,105,070	1,216,311	1,521,518	1,841,249	2,140,850	2,376,508	2,506,190	2,935,012	3,016,295	2,849,031	2,598,778	2,356,172	2,263,952	2,218,289	2,203,716	2,189,774	2,142,375
1085	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Retail	r DC w/ H/C ai	13,076,427	19,599,663	21,758,781	23,291,451	25,620,552	32,025,146	38,719,113	44,970,761	49,860,778	52,514,057	61,419,644	63,041,912	59,477,941	54,198,913	49,097,095	47,141,979	46,164,518	45,839,927	45,532,889	44,533,893
1086	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Warehouse	r DC w/ H/C ai	3,010,672	4,512,452	5,009,415	5,362,120	5,898,134	7,372,247	8,912,776	10,351,256	11,476,096	12,085,960	14,134,584	14,506,958	13,686,001	12,470,618	11,296,227	10,845,986	10,620,776	10,545,839	10,474,995	10,245,010
1087	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Assembly	r DC w/ H/C ai	2,366,333	3,547,116	3,938,276	4,216,154	4,638,335	5,798,719	7,012,103	8,146,087	9,034,104	9,517,347	11,134,307	11,431,320	10,787,602	9,832,169	8,908,224	8,554,733	8,378,347	8,320,231	8,265,135	8,084,296
1088	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Other	r DC w/ H/C ai	29,014,540	43,482,982	48,266,150	51,657,926	56,813,796	71,000,618	85,818,652	99,644,254	110,441,111	116,275,211	135,942,970	139,483,519	131,554,690	119,843,605	108,535,669	104,192,303	102,014,984	101,284,142	100,594,915	98,379,340
1089	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	BSS	r DC w/ H/C ai	4,872,057	7,302,943	8,107,987	8,679,737	9,548,463	11,936,582	14,433,368	16,766,213	18,592,325	19,585,051	22,910,352	23,519,402	22,193,167	20,226,115	18,324,310	17,596,281	17,232,762	17,112,659	16,998,887	16,626,599
1090	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Education	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1091	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Sales	Per door	3,014	4,522	5,024	5,383	8,037	10,584	12,500	14,221	17,239	19,666	21,007	21,567	22,520	22,749	22,124	21,024	20,376	19,440	18,124	16,672
1092	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Health	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1093	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Lodging	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1094	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Office	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1095	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Service	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1096	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Retail	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1097	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Warehouse	Per door	892	1,338	1,486	1,592	2,378	3,131	3,698	4,207	5,100	5,818	6,215	6,380	6,662	6,730	6,545	6,220	6,028	5,751	5,362	4,932
1098	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Assembly	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1099	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Other	Per door	3,465	5,197	5,774	6,187	9,238	12,164	14,367	16,345	19,814	22,603	24,145	24,789	25,884	26,147	25,428	24,165	23,419	22,343	20,831	19,163
1100	Refrigeration	Strip Curtains, Cooler	Biz-Custom	BSS	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1101	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Education	Per door	55	82	91	98	108	135	163	228	268	286	291	286	284	277	294	295	284	268	248	234
1102	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Sales	Per door	4	6	7	7	8	10	12	17	20	21	22	21	21	21	22	22	21	20	18	17
1103	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Health	Per door	17	26	29	31	34	43	52	72	85	91	92	91	90	88	93	94	90	85	79	74
1104	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Lodging	Per door	25	37	42	45	49	61	74	104	122	131	133	130	129	126	134	135	130	122	113	107
1105	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Office	Per door	29	44	48	52	57	72	87	121	143	152	155	152	151	147	156	157	151	142	132	124
1106	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Service	Per door	94	141	156	167	184	231	279	390	459	490	498	490	486	475	504	506	487	458	425	401
1107	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Retail	Per door	37	56	62	67	73	92	111	156	183	195	198	195	194	189	201	201	194	182	169	160
1108	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Warehouse	Per door	7	10	11	12	13	17	20	29	34	36	36	36	36	35	37	37	36	33	31	29
1109	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Assembly	Per door	6	9	10	11	12	15	18	25	29	31	31	31	31	30	32	32	31	29	27	25
1110	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Other	Per door	10	15	17	18	20	25	30	42	50	53	54	53	53	51	55	55	53	50	46	43
1111	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	BSS	Per door	4	5	6	6	7	9	11	15	18	19	19	19	19	18	19	19	19	18	16	15
1112	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Education	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1113	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Sales	Per door	525	787	875	937	1,399	1,842	2,176	2,476	3,001	3,423	3,657	3,754	3,920	3,960	3,851	3,660	3,547	3,384	3,155	2,902
1114	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Health	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1115	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Lodging	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1116	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Office	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1117	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Service	Per door	22,934	34,400	38,223	40,953	61,148	80,520	95,099	108,190	131,154	149,617	159,823	164,083	171,330	173,075	168,315	159,952	155,019	147,896	137,885	126,842
1118	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Retail	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1119	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Warehouse	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1120	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Assembly	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1121	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Other	Per door	3,093	4,639	5,155	5,523	8,247	10,859	12,826	14,591	17,688	20,178	21,555	22,129	23,107	23,342	22,700	21,572	20,907	19,946	18,596	17,107
1122	Refrigeration	Strip Curtains, Freezer	Biz-Custom	BSS	sq. ft of door op	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1123	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Education	Per door	36	55	61	65	72	90	109	152	179	191	194	191	189	185	196	197	190	178	166	156
1124	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Sales	Per door	1	1	1	1	1	2	2	3	3	4	4	4	4	4	4	4	4	3	3	3
1125	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Health	Per door	14	21	23	25	27	34	41	58	68	73	74	73	72	70	75	75	72	68	63	59
1126	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Lodging	Per door	12	19	21	22	25	31	37	52	61	65	66	65	65	63	67	67	65	61	57	53
1127	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Office	Per door	15	22	24	26	29	36	43	61	71	76	77	76	75	74	78	78	75	71	66	62
1128	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Service	Per door	31	46	51	55	61	76	92	128	151	161	164	161	160	156	166	166	160	151	140	132
1129	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Retail	Per door	23	35	39	42	46	57	70	97	114	122	124	122	121	118	125	126	121	114	106	100
1130	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Warehouse	Per door	20	30	33	36	39	49	60	84	98	105	107	105	104	102	108	108	104	98	91	86
1131	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Assembly	Per door	4	6	6	7	7	9	11	15	18	19	20	19	19	19	20	20	19	18	17	16
1132	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Other	Per door	4	6	7	7	8	10	12	17	20	22	22	22	22	21	22	22	22	20	19	18
1133	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	BSS	Per door	2	3	4	4	4	5	6	9	10	11	11	11	11	11	11	11	11	10	10	9
1134	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Education	Per motor	24,279	36,419	40,465	43,355	47,740	59,750	72,351	84,186	93,530	98,721	98,720	93,528	84,183	72,348	59,746	64,731	62,635	56,634	51,586	49,162
1135	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	Per motor	4,040	6,060	6,733	7,213	7,941	9,938	12,032	13,997	15,547	16,405	16,401	15,535	13,980	12,013	9,919	10,745	10,396	9,399	8,561	8,159
1136	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Health	Per motor	9,505	14,258	15,842	16,974	18,690	23,392	28,326	32,959	36,617	38,649	38,649	36,617	32,958	28,324	23,391	25,342	24,522	22,172	20,196	19,247
1137	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	Per motor	9,959	14,938	16,598	17,783	19,582	24,508	29,677	34,531	38,364	40,493	40,493	38,363	34,530	29,676	24,507	26,551	25,692	23,230	21,160	20,165
1138	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Office	Per motor	11,605	17,408	19,342	20,724	22,819	28,560	34,584	40,241	44,707	47,189	47,188	44,707	40,240	34,583	28,559	30,942	29,940	27,072	24,659	23,500
1139	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	Per motor	44,318	66,453	73,807	79,046	86,998	108,822	131,680	153,095	169,932	179,189	179,015	169,446	152,390	130,873	108,014	116,970	113,142	102,274	93,139	88,748
1140	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Retail	Per motor	16,139	24,208	26,898	28,819	31,733	39,717	48,093	55,960	62,172	65,622	65,622	62,171	55,959	48,092	39,715	43,029	41,636	37,646	34,291	32,680
1141	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	Per motor	10,667	15,993	17,761	19,020	20,930	26,177	31,669	36,811	40,849	43,062	43,009	40,700	36,594	31,421	25,929	28,075	27,153	24,543	22,350	21,295
1142	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	Per motor	2,555	3,832	4,258	4,562	5,024	6,288	7,614	8,859	9,843	10,389	10,389	9,843	8,859	7,614	6,288	6,812	6,592	5,960	5,429	5,174
1143	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Other	Per motor	9,413	14,112	15,672	16,782	18,467	23,095	27,939	32,472	36,032	37,981	37,931	35,892	32,269	27,706	22,862	24,753	23,940	21,638	19,704	18,774
1144	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	BSS	Per motor	1,524	2,285	2,539	2,721	2,996	3,749	4,540	5,283	5,869	6,195	6,195	5,869	5,283	4,540	3,749	4,062	3,931	3,554	3,237	3,085

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1145	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Education	Per motor	39,918	59,876	66,529	71,281	78,489	98,235	118,954	138,411	153,774	162,307	190,247	195,682	184,974	168,842	153,169	147,244	144,331	143,428	142,557	139,500
1146	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	Per motor	6,643	9,963	11,069	11,859	13,056	16,339	19,781	23,012	25,561	26,972	31,608	32,503	30,718	28,034	25,428	24,442	23,956	23,805	23,659	23,151
1147	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Health	Per motor	13,668	20,502	22,780	24,407	26,875	33,636	40,730	47,393	52,653	55,575	65,142	67,003	63,336	57,813	52,446	50,418	49,420	49,111	48,813	47,766
1148	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	Per motor	16,373	24,560	27,289	29,238	32,194	40,294	48,792	56,773	63,075	66,575	78,035	80,264	75,872	69,255	62,827	60,397	59,202	58,831	58,474	57,220
1149	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Office	Per motor	19,080	28,620	31,800	34,072	37,517	46,956	56,859	66,160	73,504	77,583	90,939	93,537	88,419	80,707	73,216	70,384	68,992	68,560	68,144	66,683
1150	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	Per motor	72,863	109,256	121,347	129,959	143,035	178,915	216,497	251,704	279,387	294,607	344,988	354,519	334,844	305,424	276,910	266,075	260,716	259,013	257,386	251,828
1151	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Retail	Per motor	26,534	39,801	44,223	47,382	52,173	65,299	79,071	92,005	102,217	107,890	126,462	130,075	122,958	112,234	101,816	97,878	95,942	95,342	94,763	92,731
1152	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	Per motor	17,538	26,295	29,201	31,270	34,412	43,037	52,067	60,521	67,160	70,799	82,884	85,152	80,408	73,329	66,472	63,863	62,570	62,156	61,762	60,426
1153	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	Per motor	4,201	6,301	7,001	7,501	8,260	10,338	12,518	14,566	16,182	17,080	20,021	20,593	19,466	17,768	16,119	15,496	15,189	15,094	15,002	14,681
1154	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Other	Per motor	15,476	23,202	25,766	27,591	30,362	37,970	45,934	53,388	59,240	62,446	73,099	75,093	70,905	64,658	58,609	56,306	55,165	54,799	54,451	53,272
1155	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	BSS	Per motor	2,505	3,757	4,175	4,473	4,925	6,164	7,465	8,686	9,650	10,185	11,938	12,280	11,608	10,595	9,612	9,240	9,057	9,001	8,946	8,754
1156	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Education	r motor control	53,531	80,170	88,922	95,095	104,494	130,443	157,457	182,539	201,968	212,249	211,321	199,377	178,782	189,124	179,951	160,230	141,939	129,649	132,328	139,212
1157	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Sales	r motor control	8,917	13,372	14,854	15,911	17,514	21,912	26,521	30,843	34,245	36,123	36,100	34,181	30,749	32,618	31,108	27,750	24,617	22,510	22,995	24,206
1158	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Health	r motor control	18,331	27,458	30,461	32,582	35,810	44,714	53,992	62,616	69,310	72,872	72,586	68,513	61,460	65,038	61,901	55,130	48,845	44,622	45,549	47,922
1159	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Lodging	r motor control	21,960	32,894	36,492	39,034	42,903	53,573	64,692	75,030	83,057	87,330	86,994	82,118	73,669	77,961	74,204	66,089	58,556	53,495	54,607	57,452
1160	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Office	r motor control	25,601	38,372	42,599	45,600	50,161	62,701	75,809	88,052	97,631	102,833	102,616	97,026	87,174	92,373	88,017	78,459	69,564	63,583	64,930	68,333
1161	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Service	r motor control	97,716	146,300	162,217	173,417	190,484	237,671	286,720	332,164	367,235	385,614	383,614	361,650	324,067	342,606	325,827	290,007	256,825	234,536	239,345	251,767
1162	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Retail	r motor control	35,596	53,341	59,201	63,354	69,669	87,052	105,200	122,122	135,324	142,441	142,046	134,224	120,527	127,652	121,582	108,344	96,036	87,763	89,609	94,295
1163	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Warehouse	r motor control	23,520	35,212	39,040	41,732	45,835	57,183	68,975	79,894	88,314	92,717	92,218	86,923	77,877	82,321	78,281	69,669	61,693	56,336	57,489	60,471
1164	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Assembly	r motor control	5,637	8,450	9,382	10,045	11,051	13,817	16,710	19,415	21,535	22,691	22,652	21,426	19,257	20,411	19,453	17,344	15,380	14,059	14,358	15,112
1165	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Other	r motor control	20,763	31,102	34,506	36,911	40,571	50,664	61,184	70,967	78,567	82,619	82,310	77,706	69,718	73,787	70,237	62,561	55,434	50,645	51,700	54,396
1166	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	BSS	r motor control	3,361	5,038	5,594	5,989	6,589	8,237	9,961	11,573	12,836	13,523	13,499	12,767	11,473	12,160	11,589	10,332	9,161	8,375	8,552	9,001
1167	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Education	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1168	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Sales	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1169	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Health	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1170	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Lodging	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1171	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Office	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1172	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Service	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1173	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Retail	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1174	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Warehouse	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1175	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Assembly	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1176	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Other	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1177	Refrigeration	Floating Head Pressure Controls	Biz-Custom	BSS	Per hp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1178	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Education	Per door	54	81	90	97	107	133	162	188	209	221	221	209	226	219	197	174	158	157	161	167
1179	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Sales	Per door	26,858	40,287	44,763	47,961	52,811	66,097	80,038	93,130	103,468	109,210	109,210	103,468	111,931	108,238	97,431	86,383	78,060	77,588	79,524	82,612
1180	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Health	Per door	36	54	60	64	71	89	108	125	139	147	147	139	150	146	131	116	105	104	107	111
1181	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Lodging	Per door	37	56	62	66	73	91	110	129	143	151	151	143	155	149	135	119	108	107	110	114
1182	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Office	Per door	86	130	144	154	170	213	258	300	333	351	351	333	360	348	313	278	251	250	256	266
1183	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Service	Per door	155	232	258	276	304	381	461	537	596	629	629	596	645	624	561	498	450	447	458	476
1184	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Retail	Per door	97	146	162	173	191	239	289	337	374	395	395	374	405	391	352	312	282	280	287	299
1185	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Warehouse	Per door	27	40	45	48	53	66	80	93	103	109	109	103	112	108	97	86	78	77	79	82
1186	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Assembly	Per door	22	33	37	39	43	54	65	76	85	89	89	85	91	88	80	71	64	63	65	68
1187	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Other	Per door	60	90	100	107	118	148	179	208	232	244	244	232	250	242	218	193	175	174	178	185
1188	Refrigeration	Door Heater Controls for Cooler	Biz-BSS	BSS	Per door	13	19	21	22	25	31	37	44	48	51	51	48	52	51	46	40	37	36	37	39
1189	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Education	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1190	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Sales	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1191	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Health	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1192	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Lodging	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1193	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Office	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1194	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Service	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1195	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Retail	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1196	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Warehouse	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1197	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Assembly	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1198	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Other	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1199	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	BSS	Per door	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Education	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1201	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Sales	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1202	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Health	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1203	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Lodging	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1204	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Office	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1205	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Service	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1206	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Retail	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1207	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Warehouse	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1208	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Assembly	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1209	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Other	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1210	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	BSS	Per linear ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1211	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Education	r refrigerated c	2	3	3	3	4	5	6	6	7	8	9	9	9	8	7	7	7	7	7	6
1212	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Sales	r refrigerated c	1,394	2,092	2,324	2,490	2,742	3,432	4,155	4,835	5,372	5,670	6,646	6,836	6,462	5,898	5,351	5,144	5,042	5,011	4,980	4,873
1213	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Health	r refrigerated c	2	3	3	3	3	4	5	6	7	7	8	9	8	7	7	7	6	6	6	6
1214	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Lodging	r refrigerated c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1215	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Office	r refrigerated c	26	39	43	47	51	64	78	91	101	106	124	128	121	110	100	96	94	94	93	91
1216	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Service	r refrigerated c	5	7	8	8	9	11	14	16	18	19	22	22	21	19	18	17	17	16	16	16
1217	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Retail	r refrigerated c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1218	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Warehouse	r refrigerated c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1219	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Assembly	r refrigerated c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1220	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Other	r refrigerated c	11	16	18	20	21	27	33	38	42	44	52	54	51	46	42	40	40	39	39	38
1221	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	BSS	r refrigerated c	1	1	2	2	2	2	3	3	4	4	4	5	4	4	4	3	3	3	3	3
1222	Refrigeration	Night Covers for Coolers	Biz-Custom	Education	linear foot of c	1	3	6	8	11	14	17	21	26	31	35	39	42	44	45	45	44	43	42	40
1223	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Sales	linear foot of c	1,038	2,595	4,325	6,179	8,220	10,464	13,090	16,171	19,614	23,222	26,459	29,203	31,359	32,864	33,724	33,809	33,319	32,440	31,308	30,028
1224	Refrigeration	Night Covers for Coolers	Biz-Custom	Health	linear foot of c	1	3	5	8	10	13	17	21	25	29	34	37	40	42	43	43	42	41	40	38
1225	Refrigeration	Night Covers for Coolers	Biz-Custom	Lodging	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1226	Refrigeration	Night Covers for Coolers	Biz-Custom	Office	linear foot of c	19	49	81	116	154	196	245	303	367	435	495	547	587	615	631	633	624	607	586	562
1227	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Service	linear foot of c	3	9	14	20	27	34	43	53	64	76	87	96	103	108	111	111	110	107	103	99
1228	Refrigeration	Night Covers for Coolers	Biz-Custom	Retail	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1229	Refrigeration	Night Covers for Coolers	Biz-Custom	Warehouse	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1230	Refrigeration	Night Covers for Coolers	Biz-Custom	Assembly	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1231	Refrigeration	Night Covers for Coolers	Biz-Custom	Other	linear foot of c	8	20	34	48	64	82	103	127	154	182	207	229	246	258	264	265	261	254	245	235
1232	Refrigeration	Night Covers for Coolers	Biz-Custom	BSS	linear foot of c	1	2	3	4	6	7	9	11	13	16	18	20	21	22	23	23	22	22	21	20

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1233	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Education	Per door	136	339	565	807	1,074	1,407	1,811	2,281	2,804	3,355	3,906	4,429	4,858	5,201	5,467	5,661	5,788	5,846	5,844	5,791
1234	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Sales	Per door	1,966	4,914	8,190	11,699	15,564	20,401	26,259	33,074	40,646	48,638	56,631	64,203	70,428	75,401	79,256	82,067	83,915	84,756	84,719	83,949
1235	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Health	Per door	55	138	230	329	438	574	738	930	1,143	1,368	1,592	1,805	1,980	2,120	2,228	2,308	2,360	2,383	2,382	2,360
1236	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Lodging	Per door	60	149	248	355	472	618	796	1,003	1,232	1,474	1,717	1,946	2,135	2,286	2,403	2,488	2,544	2,569	2,568	2,545
1237	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Office	Per door	154	386	643	918	1,222	1,602	2,061	2,596	3,191	3,818	4,446	5,040	5,529	5,919	6,222	6,443	6,588	6,654	6,651	6,590
1238	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Service	Per door	265	663	1,105	1,579	2,100	2,753	3,543	4,463	5,485	6,563	7,642	8,663	9,503	10,174	10,694	11,074	11,323	11,437	11,432	11,328
1239	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Retail	Per door	163	409	681	973	1,294	1,696	2,183	2,750	3,379	4,044	4,708	5,338	5,855	6,269	6,589	6,823	6,977	7,046	7,043	6,979
1240	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Warehouse	Per door	53	133	222	317	421	552	711	895	1,100	1,316	1,533	1,738	1,906	2,041	2,145	2,221	2,271	2,294	2,293	2,272
1241	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Assembly	Per door	47	118	196	280	372	488	628	791	973	1,164	1,355	1,536	1,685	1,804	1,897	1,964	2,008	2,028	2,027	2,009
1242	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Other	Per door	107	268	447	639	850	1,114	1,434	1,806	2,219	2,655	3,092	3,505	3,845	4,116	4,327	4,480	4,581	4,627	4,625	4,583
1243	Refrigeration	Door Heater Controls for Freezer	Biz-BSS	BSS	Per door	14	34	57	82	109	143	184	231	284	340	396	449	492	527	554	574	587	592	592	587
1244	Refrigeration	Night Covers for Freezers	Biz-Custom	Education	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1245	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Sales	linear foot of c	18,356	27,534	30,594	32,779	36,094	58,024	73,976	85,066	93,661	99,906	115,257	122,499	123,197	120,265	115,109	116,774	113,834	107,644	100,245	92,483
1246	Refrigeration	Night Covers for Freezers	Biz-Custom	Health	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1247	Refrigeration	Night Covers for Freezers	Biz-Custom	Lodging	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1248	Refrigeration	Night Covers for Freezers	Biz-Custom	Office	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1249	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Service	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250	Refrigeration	Night Covers for Freezers	Biz-Custom	Retail	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1251	Refrigeration	Night Covers for Freezers	Biz-Custom	Warehouse	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1252	Refrigeration	Night Covers for Freezers	Biz-Custom	Assembly	linear foot of c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1253	Refrigeration	Night Covers for Freezers	Biz-Custom	Other	linear foot of c	3,333	5,000	5,555	5,952	6,554	10,536	13,433	15,446	17,007	18,141	20,929	22,244	22,370	21,838	20,902	21,204	20,670	19,546	18,203	16,793
1254	Refrigeration	Night Covers for Freezers	Biz-Custom	BSS	linear foot of c	7	11	12	13	14	22	29	33	36	39	45	47	48	46	44	45	44	42	39	36
1255	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Education	Per motor	1,398	2,097	2,330	2,496	2,748	3,440	4,165	4,846	5,384	5,683	5,683	5,383	4,845	4,164	3,438	3,725	3,604	3,259	2,968	2,828
1256	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	Per motor	156,621	234,842	260,813	279,287	307,327	384,323	464,894	540,261	599,348	631,568	630,437	596,163	535,573	459,404	378,679	409,536	395,604	357,129	324,812	309,118
1257	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Health	Per motor	1,426	2,140	2,377	2,547	2,805	3,510	4,250	4,945	5,494	5,798	5,798	5,493	4,944	4,248	3,508	3,800	3,677	3,324	3,028	2,885
1258	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	Per motor	887	1,331	1,479	1,584	1,744	2,183	2,644	3,076	3,417	3,607	3,607	3,417	3,075	2,643	2,182	2,364	2,287	2,068	1,884	1,795
1259	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Office	Per motor	19,112	28,667	31,851	34,125	37,573	47,022	56,934	66,239	73,580	77,649	77,632	73,532	66,167	56,849	46,933	50,833	49,172	44,448	40,475	38,562
1260	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	Per motor	19,857	29,785	33,094	35,457	39,041	48,861	59,163	68,835	76,469	80,704	80,693	76,438	68,790	59,109	48,804	52,866	51,145	46,236	42,108	40,123
1261	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Retail	Per motor	39,892	59,836	66,481	71,224	78,418	98,134	118,810	138,214	153,514	161,980	161,918	153,338	137,952	118,496	97,804	105,904	102,419	92,556	84,261	80,261
1262	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	Per motor	1,636	2,455	2,727	2,922	3,218	4,027	4,876	5,674	6,303	6,653	6,652	6,302	5,672	4,874	4,025	4,360	4,219	3,814	3,474	3,310
1263	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	Per motor	806	1,209	1,343	1,439	1,585	1,983	2,402	2,794	3,104	3,276	3,276	3,104	2,793	2,400	1,982	2,147	2,077	1,878	1,711	1,630
1264	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Other	Per motor	14,667	21,999	24,442	26,186	28,832	36,082	43,686	50,823	56,452	59,571	59,555	56,407	50,755	43,605	35,998	38,988	37,714	34,089	31,042	29,574
1265	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	BSS	Per motor	1,045	1,567	1,741	1,866	2,054	2,571	3,113	3,622	4,024	4,247	4,247	4,023	3,621	3,111	2,569	2,783	2,693	2,434	2,217	2,113
1266	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Education	Per motor	75	186	311	444	590	774	996	1,255	1,542	1,845	2,125	2,379	2,600	2,782	2,921	3,013	3,060	3,069	3,048	3,005
1267	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	Per motor	8,355	20,878	34,781	49,659	66,020	86,465	111,173	139,852	171,617	205,023	235,803	263,446	287,391	306,944	321,730	331,215	335,853	336,343	333,549	328,433
1268	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Health	Per motor	76	190	317	453	602	790	1,016	1,280	1,573	1,882	2,169	2,427	2,653	2,838	2,980	3,073	3,121	3,131	3,109	3,065
1269	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	Per motor	47	118	197	282	375	491	632	796	979	1,171	1,349	1,510	1,650	1,766	1,854	1,912	1,942	1,948	1,934	1,907
1270	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Office	Per motor	1,019	2,549	4,248	6,068	8,072	10,579	13,615	17,147	21,069	25,207	29,037	32,494	35,506	37,983	39,875	41,111	41,746	41,861	41,564	40,972
1271	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	Per motor	1,059	2,648	4,413	6,305	8,387	10,993	14,148	17,819	21,896	26,198	30,182	33,778	36,913	39,493	41,465	42,756	43,420	43,545	43,241	42,630
1272	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Retail	Per motor	2,128	5,320	8,866	12,664	16,846	22,078	28,412	35,778	43,957	52,583	60,563	67,760	74,025	79,172	83,095	85,651	86,950	87,169	86,528	85,276
1273	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	Per motor	87	218	364	520	691	906	1,166	1,469	1,805	2,160	2,488	2,785	3,044	3,257	3,420	3,526	3,581	3,592	3,567	3,517
1274	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	Per motor	43	107	179	256	340	446	574	723	889	1,064	1,225	1,371	1,499	1,604	1,684	1,736	1,764	1,769	1,757	1,732
1275	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Other	Per motor	782	1,956	3,260	4,656	6,194	8,118	10,447	13,156	16,165	19,338	22,275	24,926	27,235	29,134	30,584	31,532	32,017	32,105	31,877	31,422
1276	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	BSS	Per motor	56	139	232	332	441	578	744	938	1,152	1,379	1,588	1,778	1,943	2,079	2,183	2,251	2,286	2,293	2,277	2,245
1277	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Education	Per light	414	1,034	1,724	2,463	3,276	4,294	5,527	6,962	8,556	10,238	11,921	13,515	14,949	16,182	17,200	17,890	18,337	18,612	18,753	18,777
1278	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Sales	Per light	45,606	114,016	190,026	271,466	361,141	473,377	609,285	767,426	943,120	1,128,565	1,314,010	1,489,704	1,647,845	1,783,753	1,895,989	1,971,983	2,021,236	2,051,616	2,067,084	2,069,763
1279	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Health	Per light	458	1,146	1,910	2,728	3,629	4,757	6,123	7,712	9,478	11,341	13,205	14,970	16,559	17,925	19,053	19,817	20,312	20,617	20,772	20,799
1280	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Lodging	Per light	301	752	1,254	1,791	2,383	3,123	4,020	5,063	6,222	7,446	8,669	9,829	10,872	11,769	12,509	13,011	13,336	13,536	13,638	13,656
1281	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Office	Per light	6,209	15,523	25,872	36,960	49,169	64,451	82,954	104,485	128,406	153,655	178,903	202,824	224,355	242,859	258,140	268,486	275,192	279,328	281,434	281,799
1282	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Service	Per light	6,666	16,665	27,776	39,680	52,787	69,193	89,058	112,174	137,854	164,961	192,067	217,748	240,863	260,729	277,134	288,242	295,441	299,882	302,143	302,534
1283	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Retail	Per light	13,530	33,824	56,373	80,533	107,137	140,433	180,751	227,666	279,787	334,802	389,816	441,938	488,852	529,171	562,467	585,011	599,623	608,635	613,224	614,019
1284	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Warehouse	Per light	555	1,388	2,313	3,304	4,395	5,761	7,415	9,339	11,477	13,734	15,991	18,129	20,054	21,708	23,073	23,998	24,598	24,967	25,156	25,188
1285	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Assembly	Per light	273	683	1,139	1,627	2,165	2,837	3,652	4,600	5,653	6,764	7,876	8,929	9,877	10,691	11,364	11,820	12,115	12,297	12,390	12,406
1286	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Other	Per light	4,579	11,447	19,078	27,254	36,257	47,526	61,170	77,047	94,686	113,304	131,922	149,562	165,438	179,083	190,351	197,981	202,926	205,976	207,529	207,798
1287	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	BSS	Per light	344	860	1,433	2,048	2,724	3,571	4,596	5,789	7,114	8,513	9,912	11,237	12,430	13,455	14,301	14,875	15,246	15,475	15,592	15,612
1288	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Education	Per door	8,649	21,621	36,036	51,480	68,485	89,769	115,542	145,531	178,849	214,016	249,183	282,501	309,895	331,777	348,736	361,109	369,239	372,939	372,774	369,387
1289	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Sales	Per door	1,207	3,019	5,031	7,187	9,561	12,533	16,131	20,318	24,969	29,879	34,789	39,440	43,265	46,320	48,688	50,415	51,550	52,067	52,044	51,571
1290	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Health	Per door	4,724	11,811	19,684	28,121	37,410	49,036	63,115	79,496	97,696	116,906	136,116	154,316	169,280	181,233	190,497	197,255	201,696	203,718	203,627	201,777
1291	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Lodging	Per door	4,876	12,190	20,317	29,024	38,612	50,612	65,142	82,050	100,835	120,662	140,489	159,273	174,718	187,055	196,617	203,592	208,176	210,262	210,169	208,260
1292	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Office	Per door	9,760	24,400	40,666	58,095	77,285	101,304	130,389	164,232	201,831	241,517	281,202	318,802	349,716	374,409	393,548	407,510	416,686	420,861	420,674	416,852
1293	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Service	Per door	19,098	47,746	79,576	113,680	151,233	198,233	255,146	321,370	394,944	472,602	550,259	623,834	684,327	732,647	770,098	797,420	815,374	823,544	823,179	815,700
1294	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Retail	Per door	8,388	20,970	34,950	49,928	66,421	87,064	112,060	141,145	173,459	207,566	241,673	273,987	300,556	321,778	338,226	350,226	358,111	361,700	361,540	358,255
1295	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Warehouse	Per door	3,370	8,424	14,041	20,058	26,684	34,977	45,019	56,704	69,686	83,388	97,090	110,072	120,746	129,271	135,879	140,700	143,868	145,310	145,245	143,926
1296	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Assembly	Per door	3,117	7,792	12,987	18,553	24,681	32,352	41,640	52,448	64,455	77,129	89,802	101,810	111,682	119,568	125,680	130,139	133,069	134,403	134,343	133,122
1297	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Other	Per door	7,451	18,626	31,044	44,349	58,999	77,334	99,537	125,372	154,075	184,370	214,666	243,369	266,968	285,819	300,429	311,088	318,092	321,280	321,137	318,219
1298	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-BSS	BSS	Per door	1,232	3,079	5,132	7,332	9,753	12,785	16,455	20,726	25,471	30,479	35,488	40,233	44,134	47,251	49,666	51,428	52,586	53,113	53,089	52,607
1299	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Education	Per door	11,128	27,820	46,367	66,238	88,119	115,505	148,667	187,253	230,123	275,372	320,621	363,491	398,739	426,893	448,715	464,635	475,096	479,857	479,644	475,286
1300	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Sales	Per door	261	651	1,086	1,551	2,063	2,704	3,481	4,384	5,388	6,447	7,507	8,511	9,336	9,995	10,506	10,879	11,124	11,235	11,230	11,128
1301	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Health	Per door	4,306	10,766	17,943	25,633	34,101	44,699	57,532	72,464	89,054	106,565	124,075	140,665	154,306	165,201	173,646	179,806	183,855	185,697	185,615	183,928
1302	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Lodging	Per door	4,661	11,652	19,421	27,744	36,909	48,380	62,270	78,432	96,388	115,340	134,293	152,249	167,013	178,806	187,946	194,614	198,995	200,990	200,900	199,075
1303	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Office	Per door	8,112	20,281	33,801	48,287	64,238	84,202	108,377	136,506	167,758	200,744	233,730	264,982	290,678	311,202	327,110	338,715	346,341	349,812	349,657	346,480
1304	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Service	Per door	13,130	32,826	54,710	78,157	103,975	136,289	175,418	220,948	271,531	324,922	378,314	428,897	470,488	503,708	529,457	548,241	560,585	566,202	565,951	560,809
1305	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Retail	Per door	3,336	8,341	13,901	19,859	26,419	34,630	44,572	56,141	68,994	82,560	96,127	108,980	119,547	127,989	134,531	139,304	142,440	143,868	143,804	142,497
1306	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Warehouse	Per door	4,367	10,916	18,194	25,991	34,577	45,323	58,335	73,477	90,298	108,053	125,809	142,630	156,461	167,509	176,072	182,318	186,423	188,291	188,208	186,498
1307	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Assembly	Per door	3,406	8,515	14,191	20,273	26,970	35,352	45,501	57,311	70,432	84,281	98,130	111,250	122,038	130,655	137,334	142,206	145,408	146,865	146,800	145,466
1308	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Other	Per door	3,797	9,494	15,823	22,604	30,071	39,416	50,732	63,900	78,529	93,970	109,412	124,041	136,069	145,677	153,124	158,556	162,126	163,751	163,678	162,191
1309	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-BSS	BSS	Per door	1,755	4,389	7,314	10,449	13,901	18,221	23,452	29,539	36,302	43,440	50,578	57,341	62,901	67,343	70,785	73,297	74,947	75,698	75,664	74,977
1310	Refrigeration	Commercial Ice Maker	Biz-Custom	Education	Per pound of ic	158	396	660	943	1,255	1,645	2,117	2,667	3,277	3,874	4,447	4,979	5,443	5,822	6,095	6,265	6,343	6,344	6,256	6,116
1311	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Sales	Per pound of ic	22	55	92	131	174	228	294	370	455	537	617	690	755	807	845	869	880	880	868	848
1312	Refrigeration	Commercial Ice Maker	Biz-Custom	Health	Per pound of ic	75	188	314	449	597	782	1,007	1,268	1,559	1,842	2,115	2,368	2,589	2,769	2,899	2,979	3,016	3,017	2,975	2,909
1313	Refrigeration	Commercial Ice Maker	Biz-Custom	Lodging	Per pound of ic	135	339	564	806	1,072	1,406	1,809	2,279	2,801	3,311	3,800	4,254	4,652	4,975	5,209	5,354	5,420	5,422	5,346	5,226
1314	Refrigeration	Commercial Ice Maker	Biz-Custom	Office	Per pound of ic	284	710	1,184	1,691	2,250	2,949	3,795	4,780	5,875	6,945	7,972	8,924	9,757	10,436	10,925	11,230	11,369	11,372	11,214	10,963
1315	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Service	Per pound of ic	226	565	942	1,346	1,790	2,346	3,020	3,804	4,675	5,526	6,344	7,102	7,764	8,305	8,694	8,936	9,047	9,050	8,924	8,724
1316	Refrigeration	Commercial Ice Maker	Biz-Custom	Retail	Per pound of ic	101	253	422	603	802	1,051	1,353	1,705	2,095	2,476	2,843	3,182	3,479	3,721	3,896	4,004	4,054	4,055	3,999	3,909
1317	Refrigeration	Commercial Ice Maker	Biz-Custom	Warehouse	Per pound of ic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1318	Refrigeration	Commercial Ice Maker	Biz-Custom	Assembly	Per pound of ic	64	160	267	382	508	666	857	1,079	1,327	1,568	1,800	2,015	2,203	2,356	2,467	2,536	2,567	2,568	2,532	2,475
1319	Refrigeration	Commercial Ice Maker	Biz-Custom	Other	Per pound of ic	165	412	686	980	1,304	1,709	2,199	2,770	3,405	4,025	4,620	5,172	5,655	6,048	6,332	6,508	6,589	6,590	6,499	6,353
1320	Refrigeration	Commercial Ice Maker	Biz-Custom	BSS	Per pound of ic	38	95	158	225	300	393	506	637	783	925	1,062	1,189	1,300	1,390	1,455	1,496	1,515	1,515	1,494	1,460

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1321	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Education	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1322	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Sales	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1323	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Health	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1324	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Lodging	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1325	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Office	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1326	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Service	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1327	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Retail	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1328	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Warehouse	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1329	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Assembly	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1330	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Other	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1331	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	BSS	Per cubic feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1332	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Education	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1333	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Sales	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1334	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Health	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1335	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Lodging	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1336	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Office	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1337	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Service	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1338	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Retail	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1339	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Warehouse	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1340	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Assembly	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1341	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Other	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1342	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	BSS	Per machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1343	Refrigeration	Refrigeration - Custom	Biz-Custom	Education	Per kWh	7,975,699	11,940,574	13,238,909	14,151,913	15,543,429	19,391,914	23,390,942	27,094,161	29,949,611	31,442,374	36,656,373	37,509,766	35,292,024	32,084,278	29,008,537	27,811,361	27,203,390	26,989,207	26,792,262	26,193,625
1344	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Sales	Per kWh	23,262,997	34,778,451	38,496,274	41,074,248	45,015,995	56,008,125	67,329,397	77,672,462	85,456,504	89,250,957	103,481,500	105,303,261	98,540,934	89,124,176	80,195,934	76,555,749	74,595,646	73,758,105	73,002,767	71,187,815
1345	Refrigeration	Refrigeration - Custom	Biz-Custom	Health	Per kWh	14,744,196	22,076,910	24,481,172	26,173,769	28,752,513	35,879,567	43,290,494	50,160,091	55,465,997	58,252,169	67,937,046	69,542,781	65,451,176	59,517,339	53,822,464	51,608,882	50,485,968	50,091,919	49,728,405	48,618,242
1346	Refrigeration	Refrigeration - Custom	Biz-Custom	Lodging	Per kWh	9,288,632	13,909,009	15,424,856	16,492,603	18,119,114	22,612,920	27,287,340	31,622,557	34,973,965	36,738,045	42,854,751	43,876,400	41,302,623	37,564,466	33,975,194	32,582,042	31,876,554	31,630,608	31,403,427	30,704,278
1347	Refrigeration	Refrigeration - Custom	Biz-Custom	Office	Per kWh	11,649,719	17,447,628	19,352,629	20,695,958	22,741,147	28,387,625	34,264,762	39,720,128	43,943,119	46,173,033	53,874,231	55,169,028	51,938,384	47,238,150	42,721,112	40,963,053	40,067,790	39,748,965	39,453,046	38,564,250
1348	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Service	Per kWh	23,053,413	34,493,909	38,219,774	40,826,760	44,805,853	55,844,116	67,278,644	77,818,705	85,881,269	90,005,357	104,745,017	106,999,489	100,512,857	91,247,495	82,399,210	78,918,027	77,128,366	76,469,343	75,870,037	74,142,474
1349	Refrigeration	Refrigeration - Custom	Biz-Custom	Retail	Per kWh	27,009,797	40,416,641	44,784,791	47,841,223	52,504,656	65,439,992	78,838,625	91,186,284	100,625,531	105,442,289	122,682,857	125,285,504	117,644,899	106,749,941	96,345,948	92,220,979	90,074,328	89,249,693	88,496,889	86,432,159
1350	Refrigeration	Refrigeration - Custom	Biz-Custom	Warehouse	Per kWh	6,905,720	10,334,425	11,452,838	12,236,585	13,432,378	16,746,587	20,183,087	23,355,391	25,788,300	27,041,788	31,488,693	32,185,269	30,251,089	27,476,848	24,824,145	23,785,370	23,254,526	23,063,180	22,888,722	22,372,826
1351	Refrigeration	Refrigeration - Custom	Biz-Custom	Assembly	Per kWh	3,250,656	4,871,823	5,407,972	5,788,297	6,366,385	7,956,702	9,618,152	11,168,848	12,380,535	13,036,264	15,243,451	15,642,678	14,755,583	13,443,941	12,177,135	11,691,350	11,448,415	11,367,698	11,291,593	11,044,094
1352	Refrigeration	Refrigeration - Custom	Biz-Custom	Other	Per kWh	13,555,441	20,288,107	22,486,305	24,027,672	26,378,442	32,890,932	39,645,913	45,884,117	50,671,005	53,140,122	61,883,294	63,253,187	59,448,810	53,989,890	48,767,743	46,715,148	45,659,290	45,269,527	44,912,803	43,886,749
1353	Refrigeration	Refrigeration - Custom	Biz-Custom	BSS	Per kWh	1,832,997	2,746,696	3,048,405	3,262,130	3,587,117	4,481,906	5,415,909	6,286,546	6,965,390	7,330,734	8,567,669	8,787,859	8,285,847	7,546,356	6,832,972	6,558,536	6,420,771	6,374,305	6,330,670	6,191,151
1354	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Education	Per kWh	17,014,825	25,473,224	28,243,005	30,190,747	33,159,316	53,136,478	67,482,912	77,248,311	84,623,811	89,782,467	103,019,235	108,928,818	109,038,069	106,013,874	101,128,424	102,314,224	99,527,154	93,961,229	87,395,266	80,553,579
1355	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Sales	Per kWh	49,627,727	74,194,028	82,125,384	87,625,063	96,034,123	153,469,871	194,245,435	221,452,385	241,460,736	254,852,610	290,824,867	305,801,953	304,451,601	294,486,888	279,575,917	281,638,218	272,917,906	256,784,205	238,132,045	218,924,770
1356	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Health	Per kWh	31,454,285	47,097,407	52,226,500	55,837,375	61,338,695	98,314,888	124,893,157	143,011,711	156,721,372	166,336,787	190,930,578	201,953,085	202,217,641	196,659,054	187,633,760	189,862,079	184,709,504	174,391,868	162,212,025	149,516,283
1357	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Lodging	Per kWh	19,815,748	29,672,553	32,906,360	35,184,220	38,654,110	61,962,472	78,724,027	90,159,248	98,820,323	104,904,049	120,439,182	127,417,600	127,608,388	124,121,685	118,442,989	119,864,914	116,624,534	110,119,973	102,436,695	94,425,247
1358	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Office	Per kWh	24,852,734	37,221,606	41,285,609	44,151,376	48,514,447	77,785,949	98,853,901	113,246,274	124,163,022	131,845,287	151,408,378	160,211,531	160,468,584	156,085,771	148,932,664	150,697,518	146,593,242	138,383,523	128,694,224	118,597,117
1359	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Service	Per kWh	49,180,614	73,587,005	81,535,519	87,097,088	95,585,819	153,020,466	194,099,012	221,869,339	242,660,925	257,006,769	294,375,863	310,727,821	310,544,046	301,502,827	287,256,889	290,328,719	282,184,193	266,223,211	247,484,963	228,011,269
1360	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Retail	Per kWh	57,620,901	86,222,168	95,540,888	102,061,275	112,009,933	179,314,468	227,449,580	259,981,716	284,321,423	301,086,324	344,788,448	363,830,633	363,475,119	352,726,493	335,877,460	339,268,476	329,548,685	310,717,195	288,673,239	265,805,891
1361	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Warehouse	Per kWh	14,732,204	22,046,773	24,432,720	26,104,715	28,655,740	45,887,923	58,228,244	66,588,684	72,865,863	77,216,767	88,495,963	93,466,414	93,463,622	90,789,860	86,540,961	87,503,150	85,079,717	80,293,010	74,662,075	68,803,428
1362	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Assembly	Per kWh	6,934,732	10,393,221	11,537,008	12,348,368	13,581,622	21,802,443	27,748,386	31,843,563	34,981,693	37,224,542	42,840,262	45,426,529	45,588,779	44,421,890	42,451,450	43,010,891	41,885,520	39,575,927	36,832,716	33,964,040
1363	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Other	Per kWh	28,918,275	43,281,295	47,970,785	51,259,034	56,274,010	90,125,623	114,378,532	130,820,458	143,172,930	151,739,534	173,917,085	183,688,027	183,672,760	178,395,083	170,012,190	171,858,693	167,050,474	157,603,012	146,503,729	134,965,463
1364	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	BSS	Per kWh	3,910,395	5,859,617	6,503,264	6,959,211	7,652,517	12,281,032	15,624,909	17,923,606	19,680,985	20,932,624	24,078,615	25,520,051	25,599,915	24,934,905	23,820,839	24,127,963	23,491,229	22,191,743	20,650,388	19,039,722
1365	Ventilation	Demand Controlled Ventilation	Biz-Standard	Education	Per Sq. Ft.	306,036,274	379,635,310	455,585,369	525,546,044	579,280,390	607,216,875	603,702,913	569,274,533	510,502,777	437,483,827	562,134,141	539,768,815	528,737,422	525,431,057	522,240,679	511,042,348	416,198,422	394,313,875	354,917,773	305,021,541
1366	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Sales	Per Sq. Ft.	24,056,905	29,826,737	35,787,509	41,289,679	45,530,678	47,754,443	47,508,673	44,827,182	40,221,420	34,484,319	44,326,169	42,593,255	41,745,054	41,484,009	41,232,121	40,347,987	32,859,838	31,132,001	28,021,587	24,082,163
1367	Ventilation	Demand Controlled Ventilation	Biz-Standard	Health	Per Sq. Ft.	260,421,699	323,481,988	388,697,551	448,915,571	495,325,181	519,662,256	517,017,432	487,801,985	437,627,483	375,152,745	482,158,977	462,980,515	453,521,256	450,685,241	447,948,714	438,343,415	356,991,624	338,220,289	304,428,526	261,630,341
1368	Ventilation	Demand Controlled Ventilation	Biz-Standard	Lodging	Per Sq. Ft.	221,851,887	266,554,828	307,705,901	339,247,463	355,556,399	353,358,511	333,033,769	298,489,489	255,667,239	210,590,774	315,054,965	308,467,588	306,335,613	304,475,566	297,946,741	242,651,052	229,891,973	206,923,348	177,832,961	146,858,801
1369	Ventilation	Demand Controlled Ventilation	Biz-Standard	Office	Per Sq. Ft.	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	858,856,008
1370	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Service	Per Sq. Ft.	141,598,638	169,854,349	195,833,667	215,731,944	226,006,604	224,580,699	211,676,756	189,751,743	162,561,914	133,926,961	200,396,205	196,345,831	195,091,957	193,907,373	189,749,446	154,534,003	146,408,296	131,780,567	113,254,153	93,528,045
1371	Ventilation	Demand Controlled Ventilation	Biz-Standard	Retail	Per Sq. Ft.	576,302,790	692,452,555	799,385,569	881,362,054	923,767,797	918,089,416	865,308,188	775,572,694	664,320,016	547,203,005	818,654,630	801,544,885	796,010,282	791,176,967	774,211,875	630,526,534	597,372,185	537,688,423	462,097,319	381,611,248
1372	Ventilation	Demand Controlled Ventilation	Biz-Standard	Warehouse	Per Sq. Ft.	142,132,682	170,574,482	196,652,347	216,513,600	226,614,621	224,928,742	211,753,674	189,609,680	162,282,684	133,589,651	199,763,840	195,506,315	194,095,961	192,917,424	188,780,724	153,745,066	145,660,842	131,107,793	112,675,960	93,050,559
1373	Ventilation	Demand Controlled Ventilation	Biz-Standard	Assembly	Per Sq. Ft.	92,278,024	110,871,957	127,988,510	141,108,043	147,891,651	146,977,453	138,523,492	124,154,997	106,343,326	87,594,028	131,045,311	128,305,330	127,418,547	126,644,871	123,929,243	100,929,318	95,622,252	86,068,584	73,968,603	61,085,079
1374	Ventilation	Demand Controlled Ventilation	Biz-Standard	Other	Per Sq. Ft.	103,140,291	124,077,403	143,396,267	158,241,862	165,955,230	164,984,821	155,506,589	139,360,681	119,341,289	98,274,794	146,986,841	143,880,859	142,859,390	141,915,292	138,816,602	113,053,744	107,109,152	96,407,821	82,854,296	68,423,100
1375	Ventilation	Demand Controlled Ventilation	Biz-BSS	BSS	Per Sq. Ft.	86,229,974	0	0	0	0	0	0	0	0	0	59,483,864	0	0	0	0	0	0	0	0	0
1376	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Education	Per hp	552,775	614,134	648,219	648,219	614,134	552,775	475,063	392,319	313,457	243,902	185,899	139,470	103,402	0	0	386,943	429,894	453,753	453,753	429,894
1377	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Sales	Per hp	74,192	74,192	70,291	63,268	54,374	44,903	35,877	27,916	21,277	15,963	11,835	0	0	0	0	51,935	51,935	49,204	44,288	38,062
1378	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Health	Per hp	469,768	521,912	550,879	550,879	521,912	469,768	403,725	333,406	266,387	207,277	157,983	118,526	87,875	0	0	328,837	365,339	385,615	385,615	365,339
1379	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Lodging	Per hp	349,871	388,706	410,280	410,280	388,706	349,871	300,684	248,312	198,398	154,374	117,662	88,275	65,447	0	0	244,909	272,095	287,196	287,196	272,095
1380	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Office	Per hp	2,610,938	2,755,846	2,755,846	2,610,938	2,350,078	2,019,692	1,667,911	1,332,638	1,036,930	790,334	592,945	439,605	0	0	0	1,827,657	1,929,092	1,929,092	1,827,657	1,645,055
1381	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Service	Per hp	381,695	381,695	361,625	325,494	279,735	231,012	184,575	143,619	109,464	82,125	60,887	0	0	0	0	267,186	267,186	253,137	227,846	195,814
1382	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Retail	Per hp	897,824	997,484	1,052,844	1,052,844	997,484	897,824	771,604	637,209	509,121	396,149	301,940	226,529	167,947	0	0	628,477	698,238	736,991	736,991	698,238
1383	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Warehouse	Per hp	179,495	199,419	210,487	210,487	199,419	179,495	154,261	127,392	101,785	79,199	60,364	45,288	33,576	0	0	125,646	139,593	147,341	147,341	139,593
1384	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Assembly	Per hp	145,527	161,680	170,654	170,654	161,680	145,527	125,068	103,284	82,522	64,211	48,941	36,718	27,222	0	0	101,869	113,176	119,457	119,457	113,176
1385	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Other	Per hp	87,507	105,963	123,297	136,983	144,586	144,586	136,983	123,297	105,963	87,507	69,917	54,403	41,465	31,109	23,064	61,255	74,174	86,308	95,888	101,210
1386	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-BSS	BSS	Per hp	146,730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102,711	0	0	0	0
1387	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Education	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1388	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Sales	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1389	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Health	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1390	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Lodging	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1391	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Office	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1392	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Service	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1393	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Retail	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1394	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Warehouse	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1395	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Assembly	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1396	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Other	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1397	Ventilation	High Volume Low Speed Fan, 20	Biz-BSS	BSS	Per fan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1398	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Education	Per fan	7,069	7,854	8,290	8,290	7,854	7,069	6,075	5,017	4,009	3,119	7,326	7,281	7,125	5,803	5,498	4,948	4,253	3,512	2,806	2,183
1399	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Sales	Per fan	556	618	652	652	618	556	478	395	315	245	576	573	561	457	433	389	335	276	221	172
1400	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Health	Per fan	6,008	6,674	7,045	7,045	6,674	6,008	5,163	4,264	3,407	2,651	6,226	6,188	6,055	4,931	4,672	4,205	3,614	2,985	2,385	1,856
1401	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Lodging	Per fan	4,474	4,971	5,247	5,247	4,971	4,474	3,845	3,176	2,537	1,974	4,637	4,609	4,510	3,673	3,480	3,132	2,692	2,223	1,776	1,382
1402	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Office	Per fan	26,386	29,314	30,941	30,941	29,314	26,386	22,676	18,727	14,962	11,642	27,343	27,177	26,595	21,659	20,520	18,470	15,873	13,109	10,474	8,150
1403	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Service	Per fan	2,861	3,179	3,355	3,355	3,179	2,861	2,459	2,031	1,622	1,262	2,965	2,947	2,884	2,349	2,225	2,003	1,721	1,421	1,136	884
1404	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Retail	Per fan	11,622	12,913	13,629	13,629	12,913	11,622	9,989	8,249	6,591	5,128	12,044	11,971	11,715	9,540	9,039	8,136	6,992	5,774	4,613	3,590
1405	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Warehouse	Per fan	11,477	12,751	13,459	13,459	12,751	11,477	9,864	8,146	6,508	5,064	11,894	11,822	11,568	9,421	8,926	8,034	6,905	5,702	4,556	3,545
1406	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Assembly	Per fan	1,861	2,068	2,182	2,182	2,068	1,861	1,599	1,321	1,055	821	1,929	1,917	1,876	1,528	1,447	1,303	1,120	925	739	575
1407	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Other	Per fan	2,078	2,308	2,436	2,436	2,308	2,078	1,785	1,475	1,178	917	2,153	2,140	2,094	1,705	1,616	1,454	1,250	1,032	825	642
1408	Ventilation	High Volume Low Speed Fan, 22	Biz-BSS	BSS	Per fan	1,748	0	0	0	0	0	0	0	0	0	1,224	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1409	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Education	Per fan	6,994	7,770	8,201	8,201	7,770	6,994	6,011	4,964	3,966	3,086	7,248	7,204	7,049	5,741	5,439	4,896	4,207	3,475	2,776	2,160
1410	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Sales	Per fan	550	611	645	645	611	550	473	391	312	243	570	567	555	452	428	385	331	273	218	170
1411	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Health	Per fan	5,944	6,603	6,970	6,970	6,603	5,944	5,108	4,218	3,370	2,623	6,159	6,122	5,991	4,879	4,622	4,161	3,576	2,953	2,359	1,836
1412	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Lodging	Per fan	4,427	4,918	5,191	5,191	4,918	4,427	3,804	3,142	2,510	1,953	4,587	4,559	4,462	3,634	3,443	3,099	2,663	2,199	1,757	1,367
1413	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Office	Per fan	26,105	29,002	30,612	30,612	29,002	26,105	22,435	18,527	14,803	11,518	27,052	26,888	26,311	21,428	20,301	18,273	15,704	12,969	10,362	8,063
1414	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Service	Per fan	2,831	3,145	3,319	3,319	3,145	2,831	2,433	2,009	1,605	1,249	2,933	2,916	2,853	2,324	2,201	1,981	1,703	1,406	1,124	874
1415	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Retail	Per fan	11,499	12,775	13,484	13,484	12,775	11,499	9,882	8,161	6,520	5,074	11,916	11,844	11,590	9,439	8,943	8,049	6,918	5,713	4,564	3,552
1416	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Warehouse	Per fan	11,355	12,615	13,316	13,316	12,615	11,355	9,759	8,059	6,439	5,010	11,767	11,696	11,445	9,321	8,831	7,949	6,831	5,641	4,507	3,507
1417	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Assembly	Per fan	1,841	2,046	2,159	2,159	2,046	1,841	1,582	1,307	1,044	812	1,908	1,896	1,856	1,511	1,432	1,289	1,108	915	731	569
1418	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Other	Per fan	2,055	2,284	2,410	2,410	2,284	2,055	1,766	1,459	1,166	907	2,130	2,117	2,072	1,687	1,599	1,439	1,237	1,021	816	635
1419	Ventilation	High Volume Low Speed Fan, 24	Biz-BSS	BSS	Per fan	1,730	0	0	0	0	0	0	0	0	0	1,211	0	0	0	0	0	0	0	0	0
1420	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Education	Per HP	214,621	226,532	226,532	214,621	193,178	166,020	137,103	109,544	85,236	64,966	48,740	36,136	0	0	0	150,235	158,573	158,573	150,235	135,225
1421	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Sales	Per HP	16,885	17,822	17,822	16,885	15,198	13,061	10,786	8,618	6,706	5,111	3,834	2,843	0	0	0	11,819	12,475	12,475	11,819	10,638
1422	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Health	Per HP	182,392	192,515	192,515	182,392	164,169	141,090	116,515	93,094	72,437	55,210	41,421	30,709	0	0	0	127,675	134,761	134,761	127,675	114,919
1423	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Lodging	Per HP	135,841	143,380	143,380	135,841	122,269	105,080	86,777	69,334	53,949	41,119	30,849	22,872	0	0	0	95,089	100,366	100,366	95,089	85,588
1424	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Office	Per HP	801,071	845,531	845,531	801,071	721,036	619,669	511,738	408,871	318,144	242,485	181,923	134,877	0	0	0	560,750	591,872	591,872	560,750	504,725
1425	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Service	Per HP	86,866	91,687	91,687	86,866	78,187	67,195	55,491	44,337	34,499	26,294	19,727	14,626	0	0	0	60,806	64,181	64,181	60,806	54,731
1426	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Retail	Per HP	352,861	372,445	372,445	352,861	317,607	272,956	225,414	180,102	140,138	106,812	80,135	59,411	0	0	0	247,003	260,712	260,712	247,003	222,325
1427	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Warehouse	Per HP	87,114	91,948	91,948	87,114	78,410	67,387	55,650	44,463	34,597	26,369	19,783	14,667	0	0	0	60,979	64,364	64,364	60,979	54,887
1428	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Assembly	Per HP	56,502	59,638	59,638	56,502	50,857	43,707	36,095	28,839	22,440	17,103	12,832	9,513	0	0	0	39,552	41,747	41,747	39,552	35,600
1429	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Other	Per HP	63,075	66,576	66,576	63,075	56,773	48,792	40,294	32,194	25,050	19,093	14,324	10,620	0	0	0	44,153	46,603	46,603	44,153	39,741
1430	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-BSS	BSS	Per HP	57,324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,127	0	0	0	0
1431	Ventilation	Cogged V-Belt	Biz-Custom	Education	Per HP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1432	Ventilation	Cogged V-Belt	Biz-Custom	Food Sales	Per HP	4,725	4,725	4,476	4,029	6,770	6,167	5,418	4,598	6,094	5,334	4,547	3,219	4,266	3,733	3,183	2,253	2,986	2,613	2,228	1,577
1433	Ventilation	Cogged V-Belt	Biz-Custom	Health	Per HP	91,169	91,169	86,375	77,745	130,633	118,996	104,548	88,725	117,589	102,913	87,727	62,108	82,312	72,039	61,409	43,475	57,619	50,427	42,986	30,433
1434	Ventilation	Cogged V-Belt	Biz-Custom	Lodging	Per HP	58,555	58,555	55,476	49,933	83,901	76,427	67,148	56,985	75,524	66,097	56,344	39,890	52,866	46,268	39,441	27,923	37,007	32,388	27,609	19,546
1435	Ventilation	Cogged V-Belt	Biz-Custom	Office	Per HP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1436	Ventilation	Cogged V-Belt	Biz-Custom	Food Service	Per HP	28,439	28,439	26,944	24,252	40,750	37,120	32,613	27,677	36,681	32,103	27,366	19,374	25,677	22,472	19,156	13,562	17,974	15,730	13,409	9,493
1437	Ventilation	Cogged V-Belt	Biz-Custom	Retail	Per HP	119,857	119,857	113,555	102,210	171,741	156,441	137,448	116,645	154,592	135,297	115,333	81,652	108,214	94,708	80,733	57,156	75,750	66,296	56,513	40,009
1438	Ventilation	Cogged V-Belt	Biz-Custom	Warehouse	Per HP	24,386	24,386	23,104	20,795	34,942	31,829	27,965	23,732	31,453	27,527	23,465	16,613	22,017	19,269	16,426	11,629	15,412	13,488	11,498	8,140
1439	Ventilation	Cogged V-Belt	Biz-Custom	Assembly	Per HP	18,670	18,670	17,688	15,921	26,751	24,368	21,410	18,169	24,080	21,075	17,965	12,719	16,856	14,752	12,575	8,903	11,799	10,327	8,803	6,232
1440	Ventilation	Cogged V-Belt	Biz-Custom	Other	Per HP	24,161	24,161	22,891	20,604	34,620	31,536	27,707	23,513	31,163	27,273	23,249	16,459	21,814	19,091	16,274	11,522	15,270	13,364	11,392	8,065
1441	Ventilation	Cogged V-Belt	Biz-Custom	BSS	Per HP	5,176	5,176	4,904	4,414	7,416	6,755	5,935	5,037	6,676	5,842	4,980	3,526	4,673	4,090	3,486	2,468	3,271	2,863	2,440	1,728
1442	Ventilation	Switch Reluctance Motors	Biz-Custom	Education	Per motor	136,038	136,038	128,885	116,008	99,699	82,334	65,784	51,186	39,014	29,270	21,700	0	95,227	95,227	90,219	81,205	69,789	57,634	46,048	35,830
1443	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Sales	Per motor	3,444	3,444	3,263	2,937	2,524	2,084	1,665	1,296	988	741	549	0	2,411	2,411	2,284	2,056	1,767	1,459	1,166	907
1444	Ventilation	Switch Reluctance Motors	Biz-Custom	Health	Per motor	66,448	66,448	62,954	56,664	48,698	40,216	32,132	25,002	19,056	14,297	10,600	0	46,514	46,514	44,068	39,665	34,089	28,151	22,492	17,501
1445	Ventilation	Switch Reluctance Motors	Biz-Custom	Lodging	Per motor	42,677	42,677	40,433	36,394	31,277	25,829	20,637	16,058	12,239	9,182	6,808	0	29,874	29,874	28,303	25,476	21,894	18,081	14,446	11,241
1446	Ventilation	Switch Reluctance Motors	Biz-Custom	Office	Per motor	417,244	417,244	395,305	355,810	305,788	252,527	201,766	156,995	119,659	89,774	66,558	0	292,071	292,071	276,713	249,067	214,052	176,769	141,236	109,896
1447	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Service	Per motor	20,728	20,728	19,638	17,676	15,191	12,545	10,023	7,799	5,944	4,460	3,306	0	14,509	14,509	13,747	12,373	10,634	8,782	7,016	5,459
1448	Ventilation	Switch Reluctance Motors	Biz-Custom	Retail	Per motor	87,358	87,358	82,764	74,495	64,022	52,871	42,243	32,870	25,053	18,796	13,935	0	61,151	61,151	57,935	52,147	44,816	37,010	29,570	23,009
1449	Ventilation	Switch Reluctance Motors	Biz-Custom	Warehouse	Per motor	17,774	17,774	16,839	15,157	13,026	10,757	8,595	6,688	5,097	3,824	2,835	0	12,442	12,442	11,787	10,610	9,118	7,530	6,016	4,681
1450	Ventilation	Switch Reluctance Motors	Biz-Custom	Assembly	Per motor	13,607	13,607	12,892	11,604	9,973	8,236	6,580	5,120	3,902	2,928	2,171	0	9,525	9,525	9,024	8,123	6,981	5,765	4,606	3,584
1451	Ventilation	Switch Reluctance Motors	Biz-Custom	Other	Per motor	17,610	17,610	16,684	15,017	12,906	10,658	8,515	6,626	5,050	3,789	2,809	0	12,327	12,327	11,679	10,512	9,034	7,461	5,961	4,638
1452	Ventilation	Switch Reluctance Motors	Biz-Custom	BSS	Per motor	3,772	3,772	3,574	3,217	2,765	2,283	1,824	1,419	1,082	812	602	0	2,641	2,641	2,502	2,252	1,935	1,598	1,277	994
1453	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Education	Per each	808,445,220	887,717,783	925,425,586	913,693,000	854,682,033	##########	##########	##########	##########	891,039,886	##########	##########	906,473,101	697,999,340	611,741,036	765,037,408	700,716,232	630,530,864	486,692,253	427,403,589
1454	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Sales	Per each	61,214,392	67,282,390	70,240,351	69,480,917	65,142,930	98,710,159	94,219,271	87,409,800	78,741,739	68,772,277	85,730,002	78,310,771	70,321,444	54,203,440	47,543,784	59,489,390	54,491,916	49,037,182	37,852,956	33,243,167
1455	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Health	Per each	390,120,413	426,651,993	442,848,441	435,242,298	405,174,608	609,353,146	577,213,038	531,589,369	475,563,504	412,769,635	511,812,282	465,379,792	416,409,033	320,205,426	280,364,626	350,424,544	320,913,230	288,753,718	222,882,154	195,792,665
1456	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Lodging	Per each	364,012,195	397,787,759	412,245,835	404,229,847	375,272,911	562,730,463	531,546,103	488,284,199	436,023,816	377,993,437	468,363,338	425,736,093	380,893,489	292,835,779	256,374,057	320,629,718	293,927,463	264,705,425	204,474,902	179,670,769
1457	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Office	Per each	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	965,008,835
1458	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Service	Per each	284,768,362	312,797,462	326,304,914	322,521,234	302,166,517	457,603,750	436,615,051	404,965,458	364,796,681	318,641,502	397,281,265	362,983,198	326,015,992	251,310,647	220,439,987	275,942,198	252,767,104	227,464,570	175,582,885	154,186,872
1459	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Retail	Per each	977,755,756	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	865,020,345	758,675,346	949,562,803	869,720,916	782,597,404	604,061,479	530,449,491
1460	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Warehouse	Per each	324,298,804	356,076,949	371,288,887	366,818,298	343,532,148	520,104,073	496,189,656	460,305,127	414,718,125	362,336,199	451,897,163	412,885,249	370,874,196	286,078,966	251,084,139	314,399,177	288,070,630	259,291,674	200,186,678	175,817,369
1461	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Assembly	Per each	319,688,297	351,741,010	367,584,424	363,969,444	341,563,069	518,021,201	494,866,183	459,517,328	414,239,759	361,999,053	451,443,827	412,355,672	370,241,736	285,375,460	250,291,100	313,225,520	286,857,384	258,098,549	199,203,460	174,922,365
1462	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Other	Per each	383,995,940	419,226,373	434,645,030	426,885,482	397,079,155	596,510,116	564,124,580	518,605,528	462,784,080	400,456,353	494,889,301	448,437,184	399,939,820	306,717,875	267,960,830	334,554,321	305,892,821	274,921,019	212,030,151	186,296,248
1463	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	BSS	Per each	81,223,380	88,888,309	92,476,497	91,224,216	85,291,152	128,840,352	122,532,764	113,243,565	101,555,169	88,269,797	109,590,710	99,678,902	89,162,637	68,487,855	59,908,076	74,830,787	68,439,863	61,521,223	47,452,572	41,685,412
1464	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Education	Per unit	965,520,397	956,355,703	896,768,671	798,471,777	678,668,739	554,379,464	438,366,846	337,909,538	255,411,124	190,250,486	140,217,042	0	0	0	0	606,555,040	606,285,259	574,189,034	516,659,127	443,944,823
1465	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Sales	Per unit	73,107,915	72,484,479	68,064,703	60,717,769	51,725,305	42,360,393	33,584,865	25,954,723	19,666,287	14,680,995	10,840,268	0	0	0	0	47,153,823	47,139,206	44,649,042	40,179,667	34,527,451
1466	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Health	Per unit	465,918,044	459,644,569	429,147,133	380,378,240	321,765,091	261,554,472	205,813,834	157,909,864	118,835,347	88,167,920	64,761,257	0	0	0	0	277,959,902	277,762,058	263,016,904	236,645,327	203,391,409
1467	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Lodging	Per unit	436,702,403	432,951,690	406,434,318	362,398,508	308,577,017	252,607,365	200,228,823	154,728,877	117,260,610	87,563,993	64,684,356	0	0	0	0	281,976,047	281,956,880	267,113,679	240,411,992	206,603,095
1468	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Office	Per unit	##########	##########	##########	##########	##########	##########	993,867,630	764,983,633	577,559,236	429,812,366	316,558,508	0	0	0	0	##########	##########	##########	##########	##########
1469	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Service	Per unit	340,096,836	336,982,566	316,199,316	281,846,640	239,932,497	196,380,006	155,637,469	120,250,587	91,113,228	68,023,204	50,236,212	0	0	0	0	218,724,783	218,660,740	207,109,040	186,374,649	160,143,058
1470	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Retail	Per unit	##########	##########	##########	970,495,703	826,615,678	676,794,899	536,467,713	414,481,809	314,017,007	234,399,486	173,075,185	0	0	0	0	752,673,914	752,376,406	712,572,669	641,196,151	550,945,804
1471	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Warehouse	Per unit	387,307,763	383,608,700	359,791,159	320,559,056	272,780,990	223,204,623	176,876,054	136,684,719	103,582,773	77,351,534	57,142,461	0	0	0	0	249,201,901	249,194,658	236,082,402	212,486,073	182,605,713
1472	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Assembly	Per unit	381,801,467	378,935,802	356,196,323	318,060,277	271,204,864	222,296,457	176,390,128	136,438,121	103,452,852	77,271,479	57,079,204	0	0	0	0	248,261,990	248,141,894	234,997,129	211,445,556	181,679,512
1473	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Other	Per unit	458,603,629	451,646,450	421,201,277	373,079,902	315,342,676	256,050,142	201,157,474	154,064,762	115,655,026	85,551,427	62,633,263	0	0	0	0	265,463,842	264,840,074	250,478,244	225,166,655	193,553,103
1474	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	BSS	Per unit	97,004,507	95,761,815	89,614,316	79,722,164	67,728,089	55,295,913	43,683,530	33,632,026	25,370,553	18,849,318	13,862,750	0	0	0	0	59,344,706	59,230,048	56,034,463	50,381,981	43,303,371
1475	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Education	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1476	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Sales	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1477	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Health	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1478	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Lodging	Per ton	3,083,200	3,817,413	4,570,690	5,258,462	5,778,583	6,037,586	5,982,830	5,624,203	5,029,909	4,300,308	3,537,025	2,818,546	2,188,937	1,666,568	1,249,290	2,891,479	2,460,001	2,979,048	3,466,517	3,851,385
1479	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Office	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1480	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Service	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1481	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Retail	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1482	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Warehouse	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1483	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Assembly	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1484	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Other	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1485	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	BSS	Per ton	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1486	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Education	Per lb/hour	5,886,073	7,310,614	8,781,597	10,134,984	11,169,429	11,698,562	11,614,940	10,934,878	9,787,788	8,371,737	6,886,519	5,485,645	4,258,257	3,240,441	2,427,914	1,798,330	0	0	0	0
1487	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Sales	Per lb/hour	60,560	75,169	90,244	104,107	114,698	120,107	119,234	112,242	100,473	85,945	70,706	56,343	43,751	33,299	24,954	18,485	0	0	0	0
1488	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Health	Per lb/hour	2,840,362	3,513,655	4,202,505	4,828,358	5,296,025	5,520,142	5,454,416	5,111,571	4,555,784	3,881,642	3,182,505	2,528,320	1,958,616	1,488,535	1,114,271	824,788	0	0	0	0
1489	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Lodging	Per lb/hour	853,841	1,025,638	1,183,301	1,303,315	1,364,057	1,353,256	1,272,915	1,138,669	973,605	800,680	637,675	495,037	376,692	282,359	209,194	0	0	0	0	0
1490	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Office	Per lb/hour	10,340,437	12,379,995	14,236,004	15,629,660	16,306,136	16,126,503	15,122,803	13,488,067	11,499,629	9,431,760	7,493,707	5,806,233	4,412,477	3,303,311	2,444,882	0	0	0	0	0
1491	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Service	Per lb/hour	1,184,895	1,423,130	1,642,020	1,809,034	1,894,101	1,879,978	1,769,181	1,583,206	1,354,075	1,113,764	887,069	688,790	524,147	392,787	290,926	0	0	0	0	0
1492	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Retail	Per lb/hour	2,004,826	2,409,392	2,780,950	3,064,033	3,207,498	3,182,305	2,993,134	2,676,729	2,287,838	1,880,641	1,497,029	1,161,563	883,414	661,823	490,079	0	0	0	0	0
1493	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Warehouse	Per lb/hour	548,043	657,569	757,831	833,868	871,993	864,511	812,798	726,947	621,444	511,006	406,943	315,879	240,337	180,187	133,517	0	0	0	0	0
1494	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Assembly	Per lb/hour	796,036	957,284	1,105,945	1,219,922	1,278,638	1,270,192	1,196,108	1,071,033	916,285	753,744	600,289	465,881	354,348	265,484	196,595	0	0	0	0	0
1495	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Other	Per lb/hour	1,217,105	1,452,593	1,665,308	1,822,592	1,894,143	1,864,501	1,738,823	1,542,097	1,306,484	1,064,595	840,482	647,291	489,153	364,712	269,062	0	0	0	0	0
1496	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	BSS	Per lb/hour	208,136	248,964	286,353	314,699	328,646	325,204	304,901	271,761	231,316	189,283	150,094	116,008	87,913	65,645	48,485	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1497	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Education	Per linear foot	6,192,538	7,696,156	9,251,899	10,687,476	11,790,277	12,362,132	12,287,064	11,579,574	10,374,521	8,880,736	11,398,219	10,929,825	10,692,197	10,611,434	10,535,192	10,301,000	8,385,449	7,941,497	7,145,804	6,140,097
1498	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Sales	Per linear foot	468,292	581,628	698,819	806,905	889,893	932,866	927,089	873,623	782,745	670,103	860,169	825,112	807,429	801,463	795,845	778,247	633,604	600,124	540,046	464,073
1499	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Health	Per linear foot	2,988,249	3,698,963	4,427,603	5,091,649	5,590,568	5,833,542	5,770,470	5,413,488	4,829,525	4,118,323	5,268,425	5,038,381	4,918,728	4,875,154	4,835,587	4,724,883	3,845,174	3,640,988	3,275,885	2,815,490
1500	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Lodging	Per linear foot	2,798,060	3,476,160	4,176,893	4,822,648	5,318,217	5,574,941	5,541,004	5,222,633	4,681,244	4,009,594	5,149,797	4,941,697	4,837,797	4,804,566	4,773,044	4,670,249	3,803,169	3,602,908	3,242,721	2,786,688
1501	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Office	Per linear foot	14,255,099	17,651,353	21,139,755	24,330,004	26,745,153	27,948,994	27,694,510	26,026,881	23,262,250	19,871,608	25,461,785	24,385,625	23,841,920	23,648,034	23,468,850	22,947,579	18,677,347	17,686,930	15,914,129	13,676,428
1502	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Service	Per linear foot	2,179,892	2,707,854	3,253,957	3,758,009	4,145,827	4,347,971	4,323,484	4,076,627	3,655,038	3,131,154	4,021,784	3,860,073	3,779,075	3,752,170	3,726,523	3,645,379	2,967,927	2,811,110	2,529,668	2,173,622
1503	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Retail	Per linear foot	7,481,481	9,299,158	11,178,456	12,910,998	14,240,653	14,929,036	14,836,964	13,980,641	12,526,667	10,724,586	13,767,542	13,204,384	12,920,060	12,824,311	12,733,641	12,454,661	10,139,014	9,602,495	8,640,568	7,424,343
1504	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Warehouse	Per linear foot	2,481,251	3,079,094	3,695,788	4,262,959	4,697,051	4,920,511	4,888,236	4,606,548	4,128,214	3,535,488	4,540,523	4,356,514	4,264,435	4,235,975	4,208,799	4,118,369	3,353,877	3,177,356	2,859,756	2,457,598
1505	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Assembly	Per linear foot	2,446,373	3,042,677	3,661,006	4,233,271	4,675,060	4,907,194	4,882,705	4,606,738	4,131,479	3,539,654	4,546,209	4,361,287	4,267,738	4,236,439	4,206,611	4,114,044	3,348,860	3,171,434	2,853,575	2,451,856
1506	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Other	Per linear foot	2,938,884	3,627,651	4,331,435	4,969,473	5,441,765	5,660,174	5,577,896	5,212,583	4,629,791	3,929,503	5,003,197	4,762,958	4,630,705	4,574,403	4,524,968	4,413,871	3,586,114	3,391,522	3,048,714	2,620,560
1507	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	BSS	Per linear foot	621,560	768,952	921,125	1,061,188	1,167,683	1,220,912	1,209,548	1,135,960	1,013,639	863,911	1,104,789	1,055,500	1,029,086	1,018,103	1,008,301	984,143	799,930	756,756	680,406	584,794
1508	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Education	per kWh	131,785,262	162,687,144	194,145,472	222,547,124	243,597,083	253,496,233	250,185,891	234,288,101	208,753,163	177,872,146	145,877,992	115,961,233	89,870,414	68,323,887	51,154,313	37,879,268	0	0	0	0
1509	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Sales	per kWh	9,978,604	12,330,495	14,735,865	16,923,707	18,567,419	19,371,997	19,170,658	17,999,200	16,077,635	13,729,753	11,281,357	8,983,634	6,972,283	5,305,986	3,975,831	2,945,586	0	0	0	0
1510	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Health	per kWh	63,593,821	78,189,579	92,903,102	106,005,820	115,469,844	119,568,076	117,424,141	109,441,874	97,079,768	82,384,968	67,335,700	53,377,491	41,280,065	31,341,036	23,442,871	17,349,890	0	0	0	0
1511	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Lodging	per kWh	59,337,901	72,899,724	86,482,467	98,450,380	106,943,309	110,413,331	108,126,729	100,518,982	89,001,807	75,438,773	61,616,593	48,829,201	37,758,778	28,661,900	21,436,745	15,874,798	0	0	0	0
1512	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Office	per kWh	303,473,284	373,433,487	444,244,588	507,765,307	554,366,478	575,653,773	567,133,855	530,305,911	471,963,088	401,765,849	329,271,879	261,641,368	202,797,248	154,166,995	115,426,254	85,524,911	0	0	0	0
1513	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Service	per kWh	46,420,304	57,324,702	68,455,887	78,556,904	86,123,963	89,804,008	88,836,295	83,388,610	74,484,411	63,613,713	52,279,038	41,640,836	32,324,292	24,600,989	18,434,285	13,663,236	0	0	0	0
1514	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Retail	per kWh	159,384,700	197,049,621	235,540,963	270,504,732	296,723,804	309,506,211	306,219,567	287,432,671	256,711,949	219,208,256	180,115,066	143,397,575	111,274,811	84,676,659	63,443,664	47,017,190	0	0	0	0
1515	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Warehouse	per kWh	66,511,841	79,434,853	91,111,246	99,785,112	103,890,623	102,605,269	96,151,316	85,762,323	73,155,695	60,051,971	47,762,696	37,049,177	28,174,528	21,120,922	15,649,040	0	0	0	0	0
1516	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Assembly	per kWh	52,112,629	64,461,873	77,116,738	88,654,365	97,356,250	101,664,373	100,691,775	94,624,817	84,582,319	72,271,642	59,407,438	47,304,960	36,709,079	27,935,441	20,930,440	15,509,204	0	0	0	0
1517	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Other	per kWh	78,755,384	93,521,458	106,654,790	116,116,974	120,068,800	117,660,777	109,295,349	96,602,563	81,611,362	66,346,740	52,289,408	40,226,977	30,374,031	22,638,843	16,696,875	0	0	0	0	0
1518	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	BSS	per kWh	16,658,453	19,829,385	22,692,633	24,814,997	25,792,654	25,416,350	23,742,950	21,097,361	17,912,034	14,627,015	11,581,159	8,943,001	6,772,456	5,055,592	3,733,228	0	0	0	0	0
1519	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Education	per kVA	9,903,932	10,789,823	13,361,943	16,008,668	18,437,210	20,279,904	21,205,207	21,015,122	19,746,139	17,639,268	15,070,078	12,377,682	9,841,048	7,624,957	5,791,161	4,330,805	3,202,448	0	0	0
1520	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Sales	per kVA	2,052,507	2,243,480	2,787,381	3,350,003	3,868,870	4,262,703	4,459,738	4,416,623	4,142,006	3,689,165	3,139,952	2,568,463	2,033,929	1,569,926	1,188,458	886,243	653,687	0	0	0
1521	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Health	per kVA	3,840,136	4,173,578	5,154,849	6,158,576	7,071,727	7,753,890	8,080,965	7,982,189	7,476,091	6,658,079	5,673,132	4,649,122	3,689,611	2,855,063	2,166,318	1,618,968	1,196,766	0	0	0
1522	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Lodging	per kVA	3,788,604	4,119,389	5,088,293	6,077,220	6,974,599	7,644,437	7,964,840	7,866,660	7,369,344	6,565,631	5,596,634	4,588,755	3,643,258	2,819,851	2,139,861	1,599,573	1,182,729	0	0	0
1523	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Office	per kVA	20,065,136	21,832,170	27,003,884	32,318,509	37,188,656	40,876,851	42,719,049	42,320,062	39,757,086	35,513,666	30,345,919	24,933,579	19,835,966	15,378,595	11,688,041	8,749,232	6,474,387	0	0	0
1524	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Service	per kVA	4,323,981	4,721,481	5,859,838	7,035,006	8,117,041	8,941,635	9,358,778	9,278,128	8,715,754	7,779,099	6,636,346	5,441,432	4,318,410	3,339,634	2,531,912	1,890,368	1,395,430	0	0	0
1525	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Retail	per kVA	13,034,697	14,193,935	17,571,187	21,047,378	24,239,913	26,666,854	27,892,316	27,652,489	25,995,057	23,233,443	19,862,872	16,325,275	12,987,334	10,067,952	7,650,174	5,723,957	4,233,613	0	0	0
1526	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Warehouse	per kVA	4,425,587	4,823,152	5,976,343	7,166,087	8,262,413	9,100,216	9,530,093	9,460,691	8,904,941	7,968,635	6,820,712	5,611,935	4,469,102	3,468,263	2,638,134	1,975,757	1,462,608	0	0	0
1527	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Assembly	per kVA	2,943,629	3,210,916	3,981,646	4,777,071	5,509,956	6,069,922	6,356,519	6,309,313	5,936,980	5,310,386	4,541,444	3,733,311	2,970,272	2,302,840	1,749,833	1,309,123	968,088	0	0	0
1528	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Other	per kVA	17,767,979	19,391,603	24,067,881	28,910,632	33,390,996	36,833,011	38,625,359	38,387,133	36,164,147	32,385,431	27,732,421	22,824,823	18,181,447	14,110,576	10,734,554	8,040,718	5,953,911	0	0	0
1529	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	BSS	per kVA	3,778,534	4,125,695	5,124,609	6,161,145	7,121,846	7,867,923	8,260,007	8,215,367	7,743,397	6,935,325	5,937,579	4,884,685	3,889,014	3,016,390	2,293,212	1,716,506	1,270,099	0	0	0
1530	WholeBldg	WholeBlg - Com RET	Biz-Custom	Education	per kWh	392,602,193	427,698,072	529,620,454	634,477,770	730,662,357	803,605,862	840,180,622	832,558,299	782,203,348	698,677,762	596,865,483	490,197,043	389,716,362	301,943,528	229,318,580	206,488,845	165,245,057	47,981,145	57,957,376	67,277,769
1531	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Sales	per kWh	81,363,504	88,929,388	110,482,030	132,772,089	153,322,670	168,913,048	176,701,645	174,974,183	164,077,339	146,124,783	124,360,354	101,718,764	80,544,842	62,167,039	47,059,651	42,254,247	33,729,084	9,774,685	11,790,005	13,671,640
1532	WholeBldg	WholeBlg - Com RET	Biz-Custom	Health	per kWh	152,226,986	165,436,546	204,320,031	244,085,021	280,250,467	307,252,680	320,178,077	316,229,314	296,147,813	263,718,585	224,687,166	184,117,761	146,110,168	113,056,623	85,780,250	77,189,338	61,751,364	17,926,465	21,651,114	25,135,059
1533	WholeBldg	WholeBlg - Com RET	Biz-Custom	Lodging	per kWh	150,184,207	163,288,569	201,681,981	240,860,619	276,401,247	302,915,449	315,576,903	311,652,276	291,919,169	260,056,798	221,657,491	181,727,238	144,274,754	111,662,425	84,732,741	76,264,775	61,027,220	17,718,751	21,401,219	24,839,967
1534	WholeBldg	WholeBlg - Com RET	Biz-Custom	Office	per kWh	795,402,927	865,405,883	##########	##########	##########	##########	##########	##########	##########	##########	##########	987,451,014	785,525,875	608,982,897	462,823,946	417,156,282	334,076,808	97,075,807	117,347,184	136,328,593
1535	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Service	per kWh	171,407,134	187,154,943	232,263,457	278,821,305	321,676,805	354,319,321	370,808,912	367,573,415	345,257,708	308,124,538	262,839,178	215,498,363	171,013,282	132,246,724	100,258,031	90,130,224	72,002,813	20,876,243	25,186,009	29,206,695
1536	WholeBldg	WholeBlg - Com RET	Biz-Custom	Retail	per kWh	516,709,002	562,633,754	696,460,038	834,178,848	960,622,052	##########	##########	##########	##########	920,259,624	786,690,133	646,536,165	514,314,256	398,685,953	302,933,043	272,914,271	218,453,816	63,445,614	76,653,929	88,997,623
1537	WholeBldg	WholeBlg - Com RET	Biz-Custom	Warehouse	per kWh	175,434,878	191,185,051	236,881,261	284,016,377	327,437,673	360,602,975	377,596,533	374,806,124	352,752,522	315,633,063	270,142,925	222,252,999	176,983,163	137,342,654	104,466,323	94,203,693	75,471,211	21,937,877	26,527,134	30,823,782
1538	WholeBldg	WholeBlg - Com RET	Biz-Custom	Assembly	per kWh	116,688,529	127,277,571	157,818,492	189,331,597	218,358,449	240,525,344	251,854,880	249,957,402	235,182,334	210,341,287	179,869,455	147,852,380	117,626,893	91,191,752	69,290,542	62,418,364	49,953,408	14,504,834	17,520,385	20,337,281
1539	WholeBldg	WholeBlg - Com RET	Biz-Custom	Other	per kWh	704,341,228	768,664,306	953,966,496	##########	##########	##########	##########	##########	##########	##########	##########	903,949,877	720,016,038	558,779,222	425,075,064	383,381,884	307,226,216	89,333,975	108,063,574	125,631,742
1540	WholeBldg	WholeBlg - Com RET	Biz-Custom	BSS	per kWh	149,785,025	163,538,561	203,121,567	244,187,273	282,237,642	311,773,186	327,274,955	325,471,347	306,741,823	274,705,947	235,166,799	193,452,460	154,011,716	119,449,212	90,808,358	81,843,040	65,537,921	19,042,432	23,016,914	26,737,173
1541	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Education	per kWh	238,653,202	249,123,996	246,367,421	230,792,473	205,459,606	174,672,174	142,772,769	112,950,099	87,088,832	65,826,395	49,062,064	36,156,570	0	0	0	147,760,708	155,535,851	155,119,076	146,604,160	131,647,582
1542	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Sales	per kWh	49,458,870	51,799,318	51,393,908	48,296,436	43,114,291	36,715,612	30,027,633	23,738,463	18,268,136	13,767,113	10,222,027	7,502,244	0	0	0	30,231,546	31,741,537	31,594,862	29,817,594	26,747,841
1543	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Health	per kWh	92,535,035	96,362,792	95,044,791	88,785,852	78,804,532	66,783,330	54,406,586	42,899,819	32,970,526	24,844,536	18,467,461	13,578,909	0	0	0	55,228,266	58,115,918	57,948,462	54,761,800	49,180,095
1544	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Lodging	per kWh	91,293,280	95,111,662	93,817,652	87,612,964	77,722,073	65,840,472	53,624,573	42,278,755	32,499,667	24,499,559	18,218,488	13,402,682	0	0	0	54,567,475	57,435,265	57,277,901	54,130,551	48,603,282
1545	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Office	per kWh	483,505,847	504,078,215	497,896,712	465,925,524	414,419,063	352,072,727	287,621,080	227,455,522	175,343,565	132,528,685	98,792,948	72,833,144	0	0	0	298,516,512	314,454,886	313,847,078	296,841,557	266,774,479
1546	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Service	per kWh	104,194,175	109,013,403	108,043,939	101,422,247	90,455,066	77,015,914	63,012,872	49,868,132	38,440,833	29,030,470	21,605,296	15,894,845	0	0	0	64,491,783	67,766,867	67,485,281	63,702,633	57,145,841
1547	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Retail	per kWh	314,094,675	327,720,783	323,977,278	303,433,915	270,123,254	229,683,315	187,796,618	148,624,353	114,649,774	86,703,506	64,666,301	47,688,794	0	0	0	195,299,911	205,624,621	205,120,624	193,902,939	174,153,000
1548	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Warehouse	per kWh	106,642,541	111,360,776	110,191,847	103,311,641	92,074,603	78,381,363	64,166,110	50,849,485	39,275,748	29,738,659	22,206,685	16,394,197	0	0	0	67,417,731	71,044,020	70,930,442	67,107,264	60,320,637
1549	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Assembly	per kWh	70,932,083	74,136,201	73,413,681	68,869,928	61,401,948	52,281,196	42,798,567	33,911,484	26,185,409	19,818,131	14,785,790	10,905,994	0	0	0	44,668,374	47,020,805	46,895,080	44,319,795	39,796,714
1550	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Other	per kWh	428,151,684	447,729,012	443,764,527	416,798,937	372,105,119	317,251,338	260,068,862	206,328,338	159,508,286	120,865,057	90,293,571	66,680,836	0	0	0	274,379,718	289,212,812	288,846,195	273,381,654	245,860,967
1551	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	BSS	per kWh	91,050,627	95,257,408	94,487,814	88,824,191	79,365,256	67,768,789	55,616,203	44,157,732	34,154,216	25,883,685	19,332,410	14,270,406	0	0	0	58,573,172	61,694,359	61,569,126	58,227,084	52,322,842
1552	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Education	per door	531,281,736	860,961,018	394,504,092	404,131,719	184,776,283	448,544,551	252,546,935	580,922,123	591,374,365	750,828,370	278,521,608	678,486,462	730,443,888	727,090,998	311,849,134	615,131,796	667,454,915	876,212,067	729,237,535	745,335,988
1553	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Sales	per door	109,707,307	177,784,607	81,463,334	83,451,396	38,155,478	92,622,448	52,149,815	119,957,825	122,116,167	155,042,707	57,513,469	140,104,426	150,833,402	150,141,046	64,395,454	127,021,970	137,826,461	180,933,881	150,584,296	153,908,555
1554	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Health	per door	206,419,348	334,509,921	153,277,013	157,017,643	71,791,287	174,273,398	98,122,277	225,706,170	229,767,188	291,719,989	108,214,239	263,612,926	283,799,989	282,497,288	121,163,011	238,997,683	259,326,829	340,435,424	283,331,284	289,586,030
1555	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Lodging	per door	203,512,720	329,799,628	151,118,692	154,806,650	70,780,381	171,819,424	96,740,600	222,527,961	226,531,796	287,612,229	106,690,455	259,900,946	279,803,751	278,519,393	119,456,893	235,632,314	255,675,203	335,641,693	279,341,646	285,508,317
1556	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Office	per door	##########	##########	800,224,460	819,753,441	374,806,001	909,841,820	512,274,115	##########	##########	##########	564,961,955	##########	##########	##########	632,564,554	##########	##########	##########	##########	##########
1557	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Service	per door	231,393,746	374,981,825	171,821,791	176,014,995	80,477,218	195,358,501	109,993,959	253,014,054	257,566,410	327,014,797	121,306,933	295,507,098	318,136,566	316,676,253	135,822,360	267,913,690	290,702,432	381,624,247	317,611,153	324,622,652
1558	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Retail	per door	699,590,425	##########	519,481,975	532,159,610	243,312,934	590,642,312	332,553,155	764,956,759	778,720,244	988,688,869	366,756,537	893,429,230	961,846,635	957,431,558	410,642,138	810,003,968	878,902,917	##########	960,258,112	981,456,514
1559	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Warehouse	per door	237,362,412	384,654,262	176,253,834	180,555,199	82,553,081	200,397,660	112,831,189	259,540,404	264,210,185	335,449,953	124,435,975	303,129,531	326,342,714	324,844,732	139,325,819	274,824,367	298,200,932	391,468,022	325,803,747	332,996,104
1560	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Assembly	per door	157,731,682	255,609,821	117,123,910	119,982,246	54,858,038	133,167,925	74,978,397	172,469,365	175,572,520	222,912,654	82,689,990	201,435,140	216,860,726	215,865,290	92,584,565	182,625,839	198,159,996	260,137,689	216,502,573	221,282,026
1561	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Other	per door	951,909,537	##########	706,841,930	724,091,968	331,067,857	803,667,446	452,494,072	##########	##########	##########	499,033,482	##########	##########	##########	558,747,167	##########	##########	##########	##########	##########
1562	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	BSS	per door	202,616,618	328,347,463	150,453,290	154,125,009	70,468,723	171,062,873	96,314,634	221,548,132	225,534,337	286,345,822	106,220,678	258,756,557	278,571,727	277,293,024	118,930,904	234,594,784	254,549,420	334,163,804	278,111,656	284,251,175
1563	WholeBldg	COM Competitions	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1564	WholeBldg	COM Competitions	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1565	WholeBldg	COM Competitions	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1566	WholeBldg	COM Competitions	Biz-Custom	Lodging	per kWh	588,066	870,485	1,354,454	1,599,343	2,013,493	2,435,158	2,979,288	3,506,336	4,060,564	4,514,699	4,884,172	5,080,189	5,132,606	5,018,825	4,794,359	4,469,409	4,099,090	3,692,936	3,289,647	2,894,237
1567	WholeBldg	COM Competitions	Biz-Custom	Office	per kWh	2,082,217	3,084,344	4,805,699	5,686,275	7,177,687	8,705,764	10,683,447	12,611,642	14,646,810	16,327,812	17,707,367	18,457,305	18,685,689	18,302,412	17,510,967	16,346,987	15,004,363	13,528,528	12,060,824	10,620,779
1568	WholeBldg	COM Competitions	Biz-Custom	Food Service	per kWh	101,039	150,198	234,822	278,719	352,777	428,823	527,041	622,620	723,054	805,372	871,990	907,020	915,987	894,929	854,090	795,220	728,096	655,018	582,802	512,281
1569	WholeBldg	COM Competitions	Biz-Custom	Retail	per kWh	1,217,337	1,804,659	2,814,221	3,332,744	4,210,500	5,111,298	6,277,781	7,416,402	8,618,963	9,613,550	10,431,229	10,876,401	11,010,748	10,783,841	10,315,241	9,624,979	8,830,021	7,957,349	7,090,267	6,239,767
1570	WholeBldg	COM Competitions	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1571	WholeBldg	COM Competitions	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1572	WholeBldg	COM Competitions	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1573	WholeBldg	COM Competitions	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1574	WholeBldg	Business Energy Reports	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1575	WholeBldg	Business Energy Reports	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1576	WholeBldg	Business Energy Reports	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1577	WholeBldg	Business Energy Reports	Biz-Custom	Lodging	per kWh	126,634	187,451	291,669	344,403	433,587	524,388	641,561	755,056	874,404	972,197	1,051,760	1,093,970	1,105,258	1,080,756	1,032,419	962,445	882,700	795,239	708,394	623,246
1578	WholeBldg	Business Energy Reports	Biz-Custom	Office	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1579	WholeBldg	Business Energy Reports	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1580	WholeBldg	Business Energy Reports	Biz-Custom	Retail	per kWh	181,752	269,440	420,171	497,588	628,639	763,131	937,290	1,107,289	1,286,835	1,435,329	1,557,411	1,623,876	1,643,935	1,610,057	1,540,094	1,437,036	1,318,346	1,188,054	1,058,596	931,614
1581	WholeBldg	Business Energy Reports	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1582	WholeBldg	Business Energy Reports	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1583	WholeBldg	Business Energy Reports	Biz-Custom	Other	per kWh	520,435	773,260	1,208,971	1,435,770	1,819,109	2,214,256	2,726,659	3,229,146	3,760,902	4,203,162	4,568,186	4,769,803	4,835,031	4,740,852	4,540,221	4,241,125	3,895,233	3,514,415	3,135,259	2,762,815
1584	WholeBldg	Business Energy Reports	Biz-Custom	BSS	per kWh	110,676	164,516	257,418	305,978	387,993	472,994	583,104	691,095	805,297	900,128	978,083	1,020,794	1,034,229	1,013,451	969,925	905,374	830,923	749,115	667,771	587,965

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1585	WholeBldg	Building Benchmarking	Biz-Custom	Education	per kWh	375,994	557,661	869,943	1,030,442	1,301,854	1,580,118	1,940,116	2,291,150	2,661,384	2,966,949	3,217,109	3,352,108	3,391,482	3,319,852	3,174,099	2,960,176	2,715,052	2,446,165	2,179,146	1,917,399
1586	WholeBldg	Building Benchmarking	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1587	WholeBldg	Building Benchmarking	Biz-Custom	Health	per kWh	51,449	76,124	118,438	139,895	176,215	213,200	260,907	307,095	355,565	395,172	427,337	444,260	448,650	438,601	418,934	390,446	358,004	322,486	287,256	252,780
1588	WholeBldg	Building Benchmarking	Biz-Custom	Lodging	per kWh	68,252	101,029	157,199	185,621	233,688	282,627	345,779	406,949	471,273	523,981	566,862	589,612	595,696	582,490	556,438	518,724	475,745	428,606	381,800	335,908
1589	WholeBldg	Building Benchmarking	Biz-Custom	Office	per kWh	626,801	928,467	1,446,639	1,711,715	2,160,668	2,620,659	3,215,992	3,796,428	4,409,066	4,915,091	5,330,373	5,556,123	5,624,873	5,509,497	5,271,251	4,920,863	4,516,699	4,072,435	3,630,618	3,197,127
1590	WholeBldg	Building Benchmarking	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1591	WholeBldg	Building Benchmarking	Biz-Custom	Retail	per kWh	633,157	938,632	1,463,722	1,733,415	2,189,950	2,658,470	3,265,177	3,857,392	4,482,864	5,000,165	5,425,453	5,656,994	5,726,871	5,608,852	5,365,126	5,006,109	4,592,639	4,138,747	3,687,764	3,245,405
1592	WholeBldg	Building Benchmarking	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1593	WholeBldg	Building Benchmarking	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1594	WholeBldg	Building Benchmarking	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1595	WholeBldg	Building Benchmarking	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1596	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Education	per kWh	60,101,474	56,302,097	50,105,432	42,569,136	34,763,213	67,238,493	58,439,344	49,188,521	40,158,971	31,892,795	45,009,334	39,290,819	33,224,545	27,250,784	21,741,431	30,783,133	26,961,806	22,861,160	18,791,659	15,014,715
1597	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1598	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Health	per kWh	1,992,846	2,164,527	2,671,462	3,188,929	3,658,314	5,307,364	5,584,000	5,860,661	5,937,623	5,826,632	6,415,823	6,089,906	5,802,797	5,450,717	5,048,413	5,188,327	4,772,127	3,979,079	3,750,338	3,482,479
1599	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Lodging	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1600	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Office	per kWh	14,934,950	16,387,280	17,338,761	18,853,875	23,313,997	37,734,125	42,917,903	46,765,684	49,416,991	52,118,447	59,694,261	59,694,663	57,997,065	55,289,775	52,899,840	54,377,085	51,318,375	47,699,764	43,932,451	36,680,685
1601	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1602	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Retail	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1603	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1604	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1605	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1606	WholeBldg	Strategic Energy Management	Biz-Custom SEM	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1607	WholeBldg	BEIMS	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1608	WholeBldg	BEIMS	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1609	WholeBldg	BEIMS	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1610	WholeBldg	BEIMS	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1611	WholeBldg	BEIMS	Biz-Custom	Office	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1612	WholeBldg	BEIMS	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1613	WholeBldg	BEIMS	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1614	WholeBldg	BEIMS	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615	WholeBldg	BEIMS	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1616	WholeBldg	BEIMS	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1617	WholeBldg	BEIMS	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1618	WholeBldg	Building Operator Certification	Biz-Custom	Education	per 1000 sq ft	722,720	786,873	973,733	1,654,558	1,873,582	2,132,805	2,660,461	2,795,028	2,880,071	3,088,532	2,999,813	2,868,848	2,834,430	2,617,280	2,398,888	2,273,543	2,045,256	1,664,585	1,579,112	1,421,090
1619	WholeBldg	Building Operator Certification	Biz-Custom	Food Sales	per 1000 sq ft	11,547	17,183	18,938	28,010	33,704	40,160	51,741	60,503	68,551	78,150	83,647	86,490	88,765	87,338	83,978	80,590	75,331	69,470	64,332	58,530
1620	WholeBldg	Building Operator Certification	Biz-Custom	Health	per 1000 sq ft	101,453	150,109	164,472	241,811	289,293	343,029	440,235	513,455	580,984	662,269	709,639	735,121	756,125	745,862	718,843	691,370	647,699	598,356	554,838	505,381
1621	WholeBldg	Building Operator Certification	Biz-Custom	Lodging	per 1000 sq ft	203,219	300,815	329,620	484,472	579,293	686,630	880,974	1,027,390	1,162,742	1,325,954	1,421,378	1,473,170	1,515,915	1,495,692	1,441,688	1,386,918	1,299,644	1,200,805	1,113,521	1,014,058
1622	WholeBldg	Building Operator Certification	Biz-Custom	Office	per 1000 sq ft	219,093	324,538	356,099	524,468	628,777	747,423	961,891	1,125,169	1,277,039	1,460,132	1,569,051	1,629,692	1,680,391	1,660,782	1,603,301	1,544,553	1,448,501	1,339,416	1,243,055	1,133,051
1623	WholeBldg	Building Operator Certification	Biz-Custom	Food Service	per 1000 sq ft	9,550	14,196	15,630	23,092	27,760	33,071	42,625	49,898	56,629	64,695	69,407	71,939	73,995	72,946	70,246	67,494	63,139	58,254	53,957	49,092
1624	WholeBldg	Building Operator Certification	Biz-Custom	Retail	per 1000 sq ft	326,629	484,216	531,758	783,853	940,563	1,119,007	1,441,327	1,687,256	1,916,276	2,192,248	2,357,003	2,448,861	2,524,990	2,495,282	2,408,386	2,319,032	2,173,726	2,008,977	1,863,450	1,697,474
1625	WholeBldg	Building Operator Certification	Biz-Custom	Warehouse	per 1000 sq ft	24,171	35,862	39,420	58,168	69,877	83,231	107,337	125,819	143,080	163,887	176,415	183,489	189,390	187,367	181,034	174,482	163,693	151,415	140,564	128,147
1626	WholeBldg	Building Operator Certification	Biz-Custom	Assembly	per 1000 sq ft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1627	WholeBldg	Building Operator Certification	Biz-Custom	Other	per 1000 sq ft	254,248	377,760	415,927	614,842	739,876	882,624	1,139,812	1,337,585	1,522,443	1,745,131	1,879,380	1,955,355	2,018,777	1,997,324	1,930,056	1,860,519	1,745,913	1,615,496	1,500,288	1,368,461
1628	WholeBldg	Building Operator Certification	Biz-Custom	BSS	per 1000 sq ft	54,068	80,371	88,561	131,029	157,806	188,540	243,752	286,267	325,990	373,729	402,389	418,469	431,823	426,968	412,317	397,174	372,434	344,351	319,542	291,227
1629	Cooking	Advanced Cooking	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	Cooking	Advanced Cooking	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1631	Cooking	Advanced Cooking	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1632	Cooking	Advanced Cooking	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1633	Cooking	Advanced Cooking	Biz-Custom	Office	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1634	Cooking	Advanced Cooking	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1635	Cooking	Advanced Cooking	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1636	Cooking	Advanced Cooking	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1637	Cooking	Advanced Cooking	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1638	Cooking	Advanced Cooking	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1639	Cooking	Advanced Cooking	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1640	Lighting_Int	Advanced Lighting	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1641	Lighting_Int	Advanced Lighting	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1642	Lighting_Int	Advanced Lighting	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1643	Lighting_Int	Advanced Lighting	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1644	Lighting_Int	Advanced Lighting	Biz-Custom	Office	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1645	Lighting_Int	Advanced Lighting	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1646	Lighting_Int	Advanced Lighting	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1647	Lighting_Int	Advanced Lighting	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1648	Lighting_Int	Advanced Lighting	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1649	Lighting_Int	Advanced Lighting	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1650	Lighting_Int	Advanced Lighting	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1651	Plug_Office	Advanced IT	Biz-Custom	Education	per kWh	0	0	0	0	0	0	16,648,490	24,915,604	27,613,298	29,505,407	33,407,336	43,300,520	49,851,399	56,299,354	64,471,868	76,942,183	86,963,952	96,454,021	106,327,195	118,041,166
1652	Plug_Office	Advanced IT	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	217,136	325,303	360,951	386,169	437,793	568,129	654,807	740,221	848,370	1,013,146	1,145,729	1,271,305	1,401,915	1,556,782
1653	Plug_Office	Advanced IT	Biz-Custom	Health	per kWh	0	0	0	0	0	0	16,623,858	24,869,932	27,551,764	29,427,244	33,304,663	43,149,836	49,659,396	56,064,190	64,184,801	76,582,245	86,541,409	95,971,534	105,783,281	117,426,770
1654	Plug_Office	Advanced IT	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	3,650,193	5,462,980	6,054,744	6,469,930	7,325,892	9,495,801	10,932,865	12,347,412	14,140,221	16,875,687	19,074,144	21,155,980	23,321,834	25,891,441
1655	Plug_Office	Advanced IT	Biz-Custom	Office	per kWh	0	0	0	0	0	0	81,925,568	122,583,051	135,825,567	145,098,502	164,248,097	212,839,896	244,989,329	276,626,812	316,733,684	377,949,503	427,134,490	473,708,171	522,164,545	579,661,918
1656	Plug_Office	Advanced IT	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	842,248	1,262,152	1,400,880	1,499,226	1,700,183	2,207,020	2,544,442	2,877,040	3,298,063	3,939,298	4,455,408	4,944,271	5,452,695	6,055,456
1657	Plug_Office	Advanced IT	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	17,689,555	26,471,535	29,335,099	31,342,237	35,483,706	45,987,595	52,940,591	59,783,754	68,457,842	81,695,004	92,332,087	102,404,666	112,884,086	125,317,906
1658	Plug_Office	Advanced IT	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	4,071,704	6,092,650	6,751,164	7,212,450	8,164,754	10,580,782	12,179,571	13,752,977	15,747,499	18,791,581	21,237,528	23,553,636	25,963,342	28,822,578
1659	Plug_Office	Advanced IT	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	3,204,420	4,796,630	5,317,212	5,682,961	6,436,106	8,344,076	9,608,539	10,853,418	12,430,933	14,837,324	16,771,681	18,603,488	20,509,138	22,769,814
1660	Plug_Office	Advanced IT	Biz-Custom	Other	per kWh	0	0	0	0	0	0	39,194,023	58,628,328	64,941,253	69,351,389	78,477,355	101,661,124	116,982,008	132,054,207	151,166,563	180,350,079	203,790,487	225,985,175	249,078,843	276,485,873
1661	Plug_Office	Advanced IT	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	6,595,239	9,871,292	10,941,408	11,692,632	13,240,634	17,163,819	19,762,752	22,321,154	25,563,483	30,510,139	34,486,011	38,251,026	42,167,919	46,814,804
1662	Refrigeration	Advanced Refrigeration	Biz-Custom	Education	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1663	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1664	Refrigeration	Advanced Refrigeration	Biz-Custom	Health	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1665	Refrigeration	Advanced Refrigeration	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1666	Refrigeration	Advanced Refrigeration	Biz-Custom	Office	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1667	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1668	Refrigeration	Advanced Refrigeration	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1669	Refrigeration	Advanced Refrigeration	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1670	Refrigeration	Advanced Refrigeration	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1671	Refrigeration	Advanced Refrigeration	Biz-Custom	Other	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1672	Refrigeration	Advanced Refrigeration	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Measure #	End-Use	Measure Name	Program	Building Type	Unit Descriptor	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1673	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Education	per kWh	0	0	0	0	0	0	146,684,894	217,346,178	238,924,602	253,678,118	187,194,145	222,267,480	261,716,019	305,172,308	351,377,906	398,836,242	445,475,524	488,100,458	523,667,254	549,334,427
1674	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Sales	per kWh	0	0	0	0	0	0	11,240,069	16,698,157	18,402,136	19,582,170	14,477,424	17,220,553	20,305,997	23,701,575	27,312,470	31,017,523	34,646,810	37,964,216	40,732,901	42,731,201
1675	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Health	per kWh	0	0	0	0	0	0	68,843,095	101,521,472	111,101,645	117,483,819	86,396,174	102,296,448	120,195,245	139,963,670	161,001,349	182,647,876	203,978,852	223,486,283	239,772,362	251,606,553
1676	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Lodging	per kWh	0	0	0	0	0	0	66,078,633	97,194,827	106,171,405	112,134,391	82,406,051	97,542,379	114,597,656	133,418,847	153,457,253	174,195,818	194,742,448	213,557,628	229,296,114	240,676,869
1677	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Office	per kWh	0	0	0	0	0	0	346,604,775	512,804,901	563,063,651	597,265,760	440,428,021	522,740,616	615,591,461	717,762,415	826,444,174	938,651,031	##########	##########	##########	##########
1678	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Service	per kWh	0	0	0	0	0	0	54,294,497	80,640,850	88,867,801	94,576,231	69,934,442	83,204,844	98,132,527	114,550,901	132,006,187	149,977,159	167,529,021	183,569,316	196,953,782	206,597,637
1679	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Retail	per kWh	0	0	0	0	0	0	187,154,435	277,962,542	306,285,696	325,903,789	240,943,037	286,530,377	337,815,522	394,283,022	454,312,143	516,090,577	576,427,920	631,568,432	677,577,575	710,752,106
1680	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Warehouse	per kWh	0	0	0	0	0	0	61,682,345	91,635,562	101,008,877	107,532,331	79,545,112	94,645,267	111,642,985	130,415,242	150,382,353	170,924,723	190,978,451	209,309,902	224,611,480	235,642,974
1681	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Assembly	per kWh	0	0	0	0	0	0	61,541,114	91,508,455	100,917,812	107,450,737	79,472,180	94,524,842	111,446,578	130,079,998	149,883,929	170,242,913	190,125,301	208,293,576	223,451,278	234,383,871
1682	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Other	per kWh	0	0	0	0	0	0	70,108,736	103,205,949	112,665,465	118,778,544	87,060,727	102,730,597	120,314,940	139,731,922	160,382,459	181,769,487	202,676,459	221,804,211	237,771,976	249,560,947
1683	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	BSS	per kWh	0	0	0	0	0	0	15,231,030	22,541,248	24,730,293	26,189,598	19,285,331	22,842,438	26,831,727	31,210,704	35,867,431	40,667,736	45,357,587	49,646,578	53,225,938	55,853,962
1684	Water_WW	Water Supply & Wastewater treatment pumps and process efficiency	Biz-Custom	Industrial	per kWh	##########	##########	##########	##########	895,551,551	699,728,591	534,543,949	403,116,088	300,434,643	0	0	##########	##########	993,192,643	822,398,121	660,245,950	516,051,509	395,654,501	298,114,711	221,962,059
1685	Compressed Air	Efficient Air Compressor Equipment	Biz-Custom	Industrial	per kWh	123,740,673	153,532,397	184,475,879	215,648,111	244,912,336	272,037,382	295,147,693	315,343,543	331,990,650	345,933,396	355,750,469	364,632,463	371,999,752	334,768,240	326,581,450	318,519,525	310,276,485	302,890,192	295,856,785	289,923,174
1686	Compressed Air	Efficient Air Compressor Controls	Biz-Custom	Industrial	per kWh	275,922,221	309,208,942	327,343,095	524,152,030	528,785,344	511,077,436	609,459,914	572,464,067	520,595,659	556,726,440	499,571,960	439,580,737	446,566,999	354,266,507	310,972,868	315,771,131	250,188,177	220,457,288	223,855,223	177,399,379
1687	HVAC	Efficient HVAC Equipment	Biz-Custom	Industrial	per kWh	405,474,920	452,832,140	492,193,081	525,255,475	551,066,815	572,802,816	588,967,909	603,220,528	614,733,320	618,805,578	620,316,192	623,996,091	627,957,790	631,901,304	633,592,676	506,012,641	494,360,446	485,243,138	477,343,004	471,364,120
1688	HVAC	Efficient HVAC O&M	Biz-Custom	Industrial	per kWh	437,699,257	397,124,634	342,104,152	593,372,784	505,374,415	416,837,286	550,743,540	456,908,334	368,948,909	389,716,478	322,416,434	260,534,934	275,130,769	228,512,595	184,044,548	194,324,707	161,357,054	130,608,568	137,885,756	114,501,064
1689	Lighting_Int	Efficient Lighting Equipment	Biz-Standard	Industrial	per kWh	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	0	0	0	0	0	708,578,808	674,341,334	610,558,277	526,979,660	437,047,796
1690	Lighting_Int	Efficient Lighting O&M	Biz-Custom	Industrial	per kWh	118,923,114	135,242,153	146,383,766	178,741,095	179,493,108	172,814,447	165,602,786	148,626,646	128,986,144	110,476,441	91,339,282	74,159,950	59,517,296	46,812,692	18,887,737	15,088,251	11,813,152	4,774,349	3,814,758	2,988,211
1691	Motors	Efficient MachDr Equipment	Biz-Custom	Industrial	per kWh	478,604,947	633,380,824	818,574,498	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########
1692	Motors	Efficient MachDr O&M	Biz-Custom	Industrial	per kWh	308,380,321	389,391,473	473,007,803	771,013,058	887,653,806	981,901,290	##########	##########	##########	##########	##########	##########	##########	##########	984,420,597	933,810,391	763,444,039	694,185,305	658,565,858	538,671,850
1693	Process Heat	Efficient ProcHeat Equipment	Biz-Custom	Industrial	per kWh	310,398,042	346,650,811	376,782,290	402,092,123	421,851,148	438,490,431	450,865,089	461,775,714	470,588,955	473,706,339	474,862,740	477,679,766	480,712,515	483,731,343	485,026,118	387,361,401	378,441,445	371,461,989	365,414,299	360,837,361
1694	Process Heat	Efficient ProcHeat O&M	Biz-Custom	Industrial	per kWh	418,954,472	380,238,808	327,671,482	568,549,267	484,420,807	399,714,275	528,338,542	438,502,688	354,235,378	374,330,048	309,820,197	250,460,324	264,600,889	219,857,413	177,149,927	187,069,909	155,349,029	125,754,013	132,768,219	110,255,872
1695	Process Refrig	Efficient ProcRefrig Equipment	Biz-Custom	Industrial	per kWh	414,796,182	463,242,074	503,507,865	537,330,314	563,735,018	585,970,697	602,507,401	617,087,666	628,865,120	633,030,994	634,576,334	638,340,828	642,393,601	646,427,771	648,158,025	517,645,116	505,725,054	496,398,153	488,316,406	482,200,077
1696	Process Refrig	Efficient ProcRefrig O&M	Biz-Custom	Industrial	per kWh	335,658,532	304,380,937	262,057,922	454,254,032	386,635,309	318,686,796	420,770,630	348,836,873	281,483,379	297,120,110	245,632,626	198,349,255	209,315,445	173,728,066	139,819,029	147,595,566	122,534,271	99,172,470	104,688,092	86,927,617
1697	Process Other	Efficient Other Facility Process Equipment	Biz-Custom	Industrial	per kWh	438,523,032	489,740,089	532,309,132	568,066,266	595,981,352	619,488,939	636,971,563	652,385,837	664,836,976	669,241,142	670,874,879	536,385,679	524,998,563	515,502,704	506,289,635	500,221,043	495,825,104	493,662,114	491,945,575	491,183,649
1698	Process Other	Efficient Other Facility Process O&M	Biz-Custom	Industrial	per kWh	408,104,675	369,249,970	317,132,454	261,617,216	208,279,921	161,844,570	122,934,313	92,178,335	68,300,176	0	0	284,364,496	257,237,944	222,247,722	183,866,838	147,537,633	115,275,930	88,369,839	66,575,857	49,567,101
1699	WholeBldg	Power Distribution (Transformers)	Biz-Custom	Industrial	per kWh	146,109,573	183,575,946	221,986,752	258,007,541	285,785,954	301,595,770	301,072,124	285,679,658	257,615,857	222,217,162	183,482,314	147,133,552	114,955,427	87,979,747	66,032,724	49,111,905	0	0	0	0
1700	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Industrial	per kWh	786,613,599	988,239,818	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########	##########

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%
2	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%
3	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Service	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
4	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%
5	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Lodging	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
6	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Retail	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
7	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Office	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
8	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Warehouse	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
9	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Assembly	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
10	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Other	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
11	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	BSS	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
12	Cooking	Commercial Electric Convection Oven	Biz-Custom	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%
13	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%
14	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Service	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
15	Cooking	Commercial Electric Convection Oven	Biz-Custom	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%
16	Cooking	Commercial Electric Convection Oven	Biz-Custom	Lodging	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
17	Cooking	Commercial Electric Convection Oven	Biz-Custom	Retail	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
18	Cooking	Commercial Electric Convection Oven	Biz-Custom	Office	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
19	Cooking	Commercial Electric Convection Oven	Biz-Custom	Warehouse	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
20	Cooking	Commercial Electric Convection Oven	Biz-Custom	Assembly	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
21	Cooking	Commercial Electric Convection Oven	Biz-Custom	Other	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
22	Cooking	Commercial Electric Convection Oven	Biz-Custom	BSS	ROB	68%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
23	Cooking	Commercial Electric Griddle	Biz-Custom	Education	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
24	Cooking	Commercial Electric Griddle	Biz-Custom	Food Sales	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
25	Cooking	Commercial Electric Griddle	Biz-Custom	Food Service	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
26	Cooking	Commercial Electric Griddle	Biz-Custom	Health	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
27	Cooking	Commercial Electric Griddle	Biz-Custom	Lodging	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
28	Cooking	Commercial Electric Griddle	Biz-Custom	Retail	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
29	Cooking	Commercial Electric Griddle	Biz-Custom	Office	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
30	Cooking	Commercial Electric Griddle	Biz-Custom	Warehouse	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
31	Cooking	Commercial Electric Griddle	Biz-Custom	Assembly	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
32	Cooking	Commercial Electric Griddle	Biz-Custom	Other	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
33	Cooking	Commercial Electric Griddle	Biz-Custom	BSS	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
34	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Education	ROB	68%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%
35	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Sales	ROB	68%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%
36	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Service	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
37	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Health	ROB	68%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%
38	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Lodging	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
39	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Retail	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
40	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Office	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
41	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Warehouse	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
42	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Assembly	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
43	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Other	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
44	Cooking	Commercial Electric Steam Cooker	Biz-BSS	BSS	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
45	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Education	ROB	68%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%
46	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	68%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%
47	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
48	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Health	ROB	68%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%
49	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
50	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Retail	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
51	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Office	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
52	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
53	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
54	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Other	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
55	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	BSS	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
56	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Education	ROB	68%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%
57	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	68%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%
58	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
59	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Health	ROB	68%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%
60	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
61	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Retail	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
62	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Office	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
63	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
64	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
65	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Other	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
66	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	BSS	ROB	68%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%
67	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Education	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
68	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Sales	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
69	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Service	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
70	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Health	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
71	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Lodging	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
72	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Retail	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
73	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Office	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
74	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Warehouse	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
75	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Assembly	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
76	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Other	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
77	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	BSS	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
78	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Education	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
79	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Sales	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
80	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Service	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
81	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Health	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
82	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Lodging	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
83	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Retail	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
84	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Office	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
85	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Warehouse	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
86	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Assembly	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
87	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Other	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
88	Cooking	Insulated Holding Cabinets (Full Size)	Biz-BSS	BSS	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
89	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Education	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
90	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Sales	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
91	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Service	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
92	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Health	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
93	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Lodging	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
94	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Retail	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
95	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Office	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
96	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Warehouse	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
97	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Assembly	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
98	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Other	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
99	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-BSS	BSS	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
100	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Education	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
101	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Sales	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
102	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Service	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
103	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Health	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
104	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Lodging	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
105	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Retail	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
106	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Office	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
107	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Warehouse	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
108	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Assembly	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
109	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Other	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
110	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-BSS	BSS	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
111	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
112	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
113	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
114	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
115	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
116	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
117	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
118	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
119	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
120	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
121	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
122	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
123	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
124	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
125	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
126	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
127	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
128	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
129	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
130	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
131	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
132	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
133	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
134	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
135	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
136	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
137	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
138	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
139	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
140	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
141	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
142	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
143	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
144	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
145	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
146	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
147	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
148	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
149	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
150	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
151	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
152	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
153	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
154	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
155	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
156	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
157	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
158	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
159	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
160	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
161	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
162	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
163	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
164	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
165	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
166	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
167	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
168	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
169	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
170	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
171	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
172	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
173	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
174	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
175	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
176	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
177	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
178	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
179	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
180	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
181	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
182	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
183	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
184	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
185	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
186	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
187	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
188	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
189	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
190	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
191	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
192	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
193	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
194	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
195	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
196	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
197	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
198	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
199	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
200	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
201	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
202	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
203	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
204	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
205	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
206	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
207	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
208	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
209	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
210	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Education	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
211	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Sales	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
212	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Health	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
213	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Lodging	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
214	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Office	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
215	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Service	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
216	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Retail	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
217	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Warehouse	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
218	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Assembly	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
219	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Other	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
220	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-BSS	BSS	RET	78%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
221	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
222	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
223	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
224	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
225	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
226	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
227	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
228	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
229	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
230	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
231	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-BSS	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
232	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
233	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
234	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
235	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
236	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
237	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
238	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
239	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
240	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
241	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
242	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-BSS	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
243	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
244	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
245	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
246	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
247	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
248	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
249	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
250	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
251	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
252	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
253	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-BSS	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
254	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
255	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
256	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
257	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
258	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
259	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
260	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
261	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
262	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
263	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
264	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-BSS	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
265	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
266	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
267	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
268	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
269	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
270	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
271	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
272	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
273	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
274	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
275	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-BSS	bss	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
276	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Education	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
277	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
278	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Health	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
279	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
280	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Office	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
281	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
282	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Retail	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
283	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
284	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
285	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Other	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
286	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-BSS	BSS	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
287	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Education	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
288	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
289	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Health	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
290	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
291	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Office	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
292	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
293	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Retail	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
294	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
295	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
296	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Other	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
297	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-BSS	BSS	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
298	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Education	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
299	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
300	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Health	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
301	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
302	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Office	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
303	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
304	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Retail	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
305	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
306	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
307	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Other	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
308	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-BSS	BSS	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
309	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Education	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
310	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Sales	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
311	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Health	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
312	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Lodging	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
313	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Office	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
314	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Service	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
315	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Retail	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
316	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Warehouse	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
317	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Assembly	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
318	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Other	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
319	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-BSS	BSS	RET	96%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
320	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
321	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
322	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
323	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
324	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
325	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
326	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
327	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
328	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
329	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
330	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
331	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
332	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
333	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
334	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
335	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
336	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
337	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
338	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
339	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
340	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
341	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
342	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
343	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
344	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
345	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
346	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
347	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
348	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
349	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
350	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
351	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
352	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
353	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
354	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
355	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
356	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
357	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
358	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
359	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
360	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
361	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
362	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
363	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
364	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
365	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
366	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
367	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
368	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
369	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
370	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
371	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
372	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
373	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
374	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
375	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
376	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
377	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
378	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
379	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
380	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
381	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
382	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
383	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
384	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
385	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
386	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
387	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
388	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
389	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
390	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
391	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
392	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
393	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
394	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
395	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
396	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
397	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
398	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
399	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
400	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
401	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
402	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
403	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
404	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
405	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
406	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
407	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
408	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Education	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
409	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
410	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Health	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
411	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Lodging	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
412	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Office	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
413	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Service	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
414	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Retail	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
415	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
416	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Assembly	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
417	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Other	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
418	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-BSS	BSS	RET	71%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
419	Lighting_Int	LED Specialty Lamp	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
420	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
421	Lighting_Int	LED Specialty Lamp	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
422	Lighting_Int	LED Specialty Lamp	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
423	Lighting_Int	LED Specialty Lamp	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
424	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
425	Lighting_Int	LED Specialty Lamp	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
426	Lighting_Int	LED Specialty Lamp	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
427	Lighting_Int	LED Specialty Lamp	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
428	Lighting_Int	LED Specialty Lamp	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
429	Lighting_Int	LED Specialty Lamp	Biz-BSS	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
430	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Education	RET	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
431	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Sales	RET	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
432	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Health	RET	67%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
433	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Lodging	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
434	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Office	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
435	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Service	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
436	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Retail	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
437	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Warehouse	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
438	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Assembly	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
439	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Other	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
440	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	BSS	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
441	Lighting_Int	Lighting Power Density	Biz-Custom	Education	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
442	Lighting_Int	Lighting Power Density	Biz-Custom	Food Sales	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
443	Lighting_Int	Lighting Power Density	Biz-Custom	Health	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
444	Lighting_Int	Lighting Power Density	Biz-Custom	Lodging	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
445	Lighting_Int	Lighting Power Density	Biz-Custom	Office	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
446	Lighting_Int	Lighting Power Density	Biz-Custom	Food Service	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
447	Lighting_Int	Lighting Power Density	Biz-Custom	Retail	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
448	Lighting_Int	Lighting Power Density	Biz-Custom	Warehouse	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
449	Lighting_Int	Lighting Power Density	Biz-Custom	Assembly	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
450	Lighting_Int	Lighting Power Density	Biz-Custom	Other	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
451	Lighting_Int	Lighting Power Density	Biz-Custom	BSS	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
452	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
453	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
454	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
455	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
456	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
457	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
458	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
459	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
460	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
461	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
462	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
463	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
464	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
465	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
466	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
467	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
468	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
469	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
470	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
471	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
472	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
473	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
474	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Education	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
475	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Sales	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
476	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Health	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
477	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Lodging	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
478	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Office	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
479	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Service	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
480	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Retail	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
481	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Warehouse	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
482	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Assembly	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
483	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Other	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
484	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	BSS	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
485	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Education	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
486	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Sales	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
487	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Health	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
488	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Lodging	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
489	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Office	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
490	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Service	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
491	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Retail	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
492	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Warehouse	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
493	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Assembly	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
494	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Other	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
495	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	BSS	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
496	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Education	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
497	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Sales	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
498	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Health	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
499	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Lodging	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
500	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Office	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
501	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Service	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
502	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Retail	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
503	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Warehouse	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
504	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Assembly	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
505	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Other	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
506	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	BSS	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
507	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Education	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
508	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Sales	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
509	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Health	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
510	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Lodging	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
511	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Office	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
512	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Service	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
513	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Retail	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
514	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Warehouse	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
515	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Assembly	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
516	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Other	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
517	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	BSS	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
518	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Education	ROB	68%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%
519	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Sales	ROB	68%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
520	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Health	ROB	68%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%
521	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Lodging	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
522	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Office	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
523	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Service	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
524	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Retail	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
525	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Warehouse	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
526	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Assembly	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
527	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Other	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
528	Compressed Air	Efficient Air Compressors (VSD)	Biz-BSS	BSS	ROB	68%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%
529	Compressed Air	Efficient Air Nozzles	Biz-Standard	Education	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
530	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Sales	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
531	Compressed Air	Efficient Air Nozzles	Biz-Standard	Health	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
532	Compressed Air	Efficient Air Nozzles	Biz-Standard	Lodging	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
533	Compressed Air	Efficient Air Nozzles	Biz-Standard	Office	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
534	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Service	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
535	Compressed Air	Efficient Air Nozzles	Biz-Standard	Retail	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
536	Compressed Air	Efficient Air Nozzles	Biz-Standard	Warehouse	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
537	Compressed Air	Efficient Air Nozzles	Biz-Standard	Assembly	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
538	Compressed Air	Efficient Air Nozzles	Biz-Standard	Other	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
539	Compressed Air	Efficient Air Nozzles	Biz-BSS	BSS	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
540	Compressed Air	AODD Pump Controls	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
541	Compressed Air	AODD Pump Controls	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
542	Compressed Air	AODD Pump Controls	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
543	Compressed Air	AODD Pump Controls	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
544	Compressed Air	AODD Pump Controls	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
545	Compressed Air	AODD Pump Controls	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
546	Compressed Air	AODD Pump Controls	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
547	Compressed Air	AODD Pump Controls	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
548	Compressed Air	AODD Pump Controls	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
549	Compressed Air	AODD Pump Controls	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
550	Compressed Air	AODD Pump Controls	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
551	Compressed Air	No Loss Condensate Drain	Biz-Standard	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
552	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Sales	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
553	Compressed Air	No Loss Condensate Drain	Biz-Standard	Health	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
554	Compressed Air	No Loss Condensate Drain	Biz-Standard	Lodging	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
555	Compressed Air	No Loss Condensate Drain	Biz-Standard	Office	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
556	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Service	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
557	Compressed Air	No Loss Condensate Drain	Biz-Standard	Retail	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
558	Compressed Air	No Loss Condensate Drain	Biz-Standard	Warehouse	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
559	Compressed Air	No Loss Condensate Drain	Biz-Standard	Assembly	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
560	Compressed Air	No Loss Condensate Drain	Biz-Standard	Other	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
561	Compressed Air	No Loss Condensate Drain	Biz-BSS	BSS	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
562	Compressed Air	Compressed Air - Custom	Biz-Custom	Education	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
563	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Sales	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
564	Compressed Air	Compressed Air - Custom	Biz-Custom	Health	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
565	Compressed Air	Compressed Air - Custom	Biz-Custom	Lodging	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
566	Compressed Air	Compressed Air - Custom	Biz-Custom	Office	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
567	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Service	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
568	Compressed Air	Compressed Air - Custom	Biz-Custom	Retail	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
569	Compressed Air	Compressed Air - Custom	Biz-Custom	Warehouse	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
570	Compressed Air	Compressed Air - Custom	Biz-Custom	Assembly	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
571	Compressed Air	Compressed Air - Custom	Biz-Custom	Other	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
572	Compressed Air	Compressed Air - Custom	Biz-Custom	BSS	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
573	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
574	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Sales	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
575	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Health	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
576	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Lodging	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
577	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Office	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
578	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Service	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
579	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Retail	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
580	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Warehouse	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
581	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Assembly	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
582	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Other	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
583	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	BSS	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
584	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Education	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
585	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Sales	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
586	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Health	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
587	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Lodging	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
588	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Office	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
589	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Service	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
590	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Retail	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
591	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Warehouse	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
592	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Assembly	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
593	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Other	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
594	Compressed Air	Compressed Air Leak Repair	Biz-Custom	BSS	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
595	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Education	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%
596	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Sales	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%
597	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Health	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%
598	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Lodging	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
599	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Office	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
600	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Service	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
601	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Retail	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
602	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Warehouse	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
603	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Assembly	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
604	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Other	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
605	Cooling	Air Conditioner - (<65kBTUh)	Biz-BSS	BSS	ROB	69%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%
606	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
607	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
608	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
609	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Lodging	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
610	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Office	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
611	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Service	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
612	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Retail	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
613	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Warehouse	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
614	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Assembly	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
615	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Other	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
616	Cooling	Air Conditioner - (65-135kBTUh)	Biz-BSS	BSS	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
617	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
618	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
619	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
620	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Lodging	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
621	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Office	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
622	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Service	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
623	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Retail	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
624	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Warehouse	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
625	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Assembly	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
626	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Other	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
627	Cooling	Air Conditioner - (135-240kBTUh)	Biz-BSS	BSS	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
628	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
629	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
630	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
631	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Lodging	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
632	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Office	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
633	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Service	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
634	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Retail	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
635	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Warehouse	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
636	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Assembly	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
637	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Other	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
638	Cooling	Air Conditioner - (240-760kBTUh)	Biz-BSS	BSS	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
639	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
640	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
641	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
642	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Lodging	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
643	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Office	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
644	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Service	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
645	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Retail	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
646	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Warehouse	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
647	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Assembly	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
648	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Other	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
649	Cooling	Air Conditioner - (760kBTUh+)	Biz-BSS	BSS	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
650	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Education	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
651	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Sales	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
652	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Health	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
653	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Lodging	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
654	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Office	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
655	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Service	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
656	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Retail	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
657	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Warehouse	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
658	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Assembly	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
659	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Other	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
660	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	BSS	RET	69%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
661	Cooling	Air Cooled Chiller	Biz-Standard	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
662	Cooling	Air Cooled Chiller	Biz-Standard	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
663	Cooling	Air Cooled Chiller	Biz-Standard	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
664	Cooling	Air Cooled Chiller	Biz-Standard	Lodging	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
665	Cooling	Air Cooled Chiller	Biz-Standard	Office	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
666	Cooling	Air Cooled Chiller	Biz-Standard	Food Service	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
667	Cooling	Air Cooled Chiller	Biz-Standard	Retail	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
668	Cooling	Air Cooled Chiller	Biz-Standard	Warehouse	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
669	Cooling	Air Cooled Chiller	Biz-Standard	Assembly	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
670	Cooling	Air Cooled Chiller	Biz-Standard	Other	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
671	Cooling	Air Cooled Chiller	Biz-BSS	BSS	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
672	Cooling	Water Cooled Chiller	Biz-Standard	Education	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
673	Cooling	Water Cooled Chiller	Biz-Standard	Food Sales	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
674	Cooling	Water Cooled Chiller	Biz-Standard	Health	ROB	68%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%
675	Cooling	Water Cooled Chiller	Biz-Standard	Lodging	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
676	Cooling	Water Cooled Chiller	Biz-Standard	Office	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
677	Cooling	Water Cooled Chiller	Biz-Standard	Food Service	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
678	Cooling	Water Cooled Chiller	Biz-Standard	Retail	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
679	Cooling	Water Cooled Chiller	Biz-Standard	Warehouse	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
680	Cooling	Water Cooled Chiller	Biz-Standard	Assembly	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
681	Cooling	Water Cooled Chiller	Biz-Standard	Other	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
682	Cooling	Water Cooled Chiller	Biz-BSS	BSS	ROB	65%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%
683	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Education	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
684	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Sales	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
685	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Health	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
686	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Lodging	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
687	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Office	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
688	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Service	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
689	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Retail	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
690	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Warehouse	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
691	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Assembly	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
692	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Other	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
693	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	BSS	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
694	Cooling	Chiller Tune-up	Biz-Custom	Education	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
695	Cooling	Chiller Tune-up	Biz-Custom	Food Sales	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
696	Cooling	Chiller Tune-up	Biz-Custom	Health	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
697	Cooling	Chiller Tune-up	Biz-Custom	Lodging	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
698	Cooling	Chiller Tune-up	Biz-Custom	Office	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
699	Cooling	Chiller Tune-up	Biz-Custom	Food Service	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
700	Cooling	Chiller Tune-up	Biz-Custom	Retail	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
701	Cooling	Chiller Tune-up	Biz-Custom	Warehouse	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
702	Cooling	Chiller Tune-up	Biz-Custom	Assembly	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
703	Cooling	Chiller Tune-up	Biz-Custom	Other	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
704	Cooling	Chiller Tune-up	Biz-Custom	BSS	RET	69%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
705	Cooling	Advanced Rooftop Controls	Biz-Standard	Education	RET	68%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
706	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Sales	RET	68%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
707	Cooling	Advanced Rooftop Controls	Biz-Standard	Health	RET	68%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
708	Cooling	Advanced Rooftop Controls	Biz-Standard	Lodging	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
709	Cooling	Advanced Rooftop Controls	Biz-Standard	Office	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
710	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Service	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
711	Cooling	Advanced Rooftop Controls	Biz-Standard	Retail	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
712	Cooling	Advanced Rooftop Controls	Biz-Standard	Warehouse	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
713	Cooling	Advanced Rooftop Controls	Biz-Standard	Assembly	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
714	Cooling	Advanced Rooftop Controls	Biz-Standard	Other	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
715	Cooling	Advanced Rooftop Controls	Biz-BSS	BSS	RET	65%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
716	Cooling	HVAC Occupancy Controls	Biz-Custom	Education	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
717	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Sales	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
718	Cooling	HVAC Occupancy Controls	Biz-Custom	Health	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
719	Cooling	HVAC Occupancy Controls	Biz-Custom	Lodging	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
720	Cooling	HVAC Occupancy Controls	Biz-Custom	Office	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
721	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Service	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
722	Cooling	HVAC Occupancy Controls	Biz-Custom	Retail	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
723	Cooling	HVAC Occupancy Controls	Biz-Custom	Warehouse	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
724	Cooling	HVAC Occupancy Controls	Biz-Custom	Assembly	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
725	Cooling	HVAC Occupancy Controls	Biz-Custom	Other	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
726	Cooling	HVAC Occupancy Controls	Biz-Custom	BSS	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
727	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Education	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
728	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Sales	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
729	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Health	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
730	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Lodging	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
731	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Office	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
732	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Service	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
733	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Retail	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
734	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Warehouse	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
735	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Assembly	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
736	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Other	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
737	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	BSS	ROB	69%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%
738	Cooling	Smart Thermostat	Biz-Custom	Education	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
739	Cooling	Smart Thermostat	Biz-Custom	Food Sales	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
740	Cooling	Smart Thermostat	Biz-Custom	Health	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
741	Cooling	Smart Thermostat	Biz-Custom	Lodging	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
742	Cooling	Smart Thermostat	Biz-Custom	Office	ROB	69%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%	69%	69%	69%	69%
743	Cooling	Smart Thermostat	Biz-Custom	Food Service	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
744	Cooling	Smart Thermostat	Biz-Custom	Retail	ROB	92%	91%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%
745	Cooling	Smart Thermostat	Biz-Custom	Warehouse	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
746	Cooling	Smart Thermostat	Biz-Custom	Assembly	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
747	Cooling	Smart Thermostat	Biz-Custom	Other	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
748	Cooling	Smart Thermostat	Biz-Custom	BSS	ROB	74%	67%	69%	71%	73%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
749	Cooling	Secondary Windows	Biz-Custom	Education	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
750	Cooling	Secondary Windows	Biz-Custom	Food Sales	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
751	Cooling	Secondary Windows	Biz-Custom	Health	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
752	Cooling	Secondary Windows	Biz-Custom	Lodging	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
753	Cooling	Secondary Windows	Biz-Custom	Office	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
754	Cooling	Secondary Windows	Biz-Custom	Food Service	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
755	Cooling	Secondary Windows	Biz-Custom	Retail	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
756	Cooling	Secondary Windows	Biz-Custom	Warehouse	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
757	Cooling	Secondary Windows	Biz-Custom	Assembly	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
758	Cooling	Secondary Windows	Biz-Custom	Other	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
759	Cooling	Secondary Windows	Biz-Custom	BSS	RET	69%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
760	Cooling	Triple Pane Windows	Biz-Custom	Education	ROB	68%	4%	6%	8%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%
761	Cooling	Triple Pane Windows	Biz-Custom	Food Sales	ROB	68%	4%	6%	8%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%
762	Cooling	Triple Pane Windows	Biz-Custom	Health	ROB	68%	4%	6%	8%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%
763	Cooling	Triple Pane Windows	Biz-Custom	Lodging	ROB	69%	4%	6%	9%	11%	15%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%
764	Cooling	Triple Pane Windows	Biz-Custom	Office	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
765	Cooling	Triple Pane Windows	Biz-Custom	Food Service	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
766	Cooling	Triple Pane Windows	Biz-Custom	Retail	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
767	Cooling	Triple Pane Windows	Biz-Custom	Warehouse	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
768	Cooling	Triple Pane Windows	Biz-Custom	Assembly	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
769	Cooling	Triple Pane Windows	Biz-Custom	Other	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
770	Cooling	Triple Pane Windows	Biz-Custom	BSS	ROB	65%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%
771	Cooling	Energy Recovery Ventilator	Biz-Custom	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
772	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Sales	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
773	Cooling	Energy Recovery Ventilator	Biz-Custom	Health	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
774	Cooling	Energy Recovery Ventilator	Biz-Custom	Lodging	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
775	Cooling	Energy Recovery Ventilator	Biz-Custom	Office	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
776	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Service	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
777	Cooling	Energy Recovery Ventilator	Biz-Custom	Retail	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
778	Cooling	Energy Recovery Ventilator	Biz-Custom	Warehouse	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
779	Cooling	Energy Recovery Ventilator	Biz-Custom	Assembly	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
780	Cooling	Energy Recovery Ventilator	Biz-Custom	Other	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
781	Cooling	Energy Recovery Ventilator	Biz-Custom	BSS	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
782	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Education	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
783	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Sales	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
784	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Health	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
785	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Lodging	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
786	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Office	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
787	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Service	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
788	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Retail	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
789	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Warehouse	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
790	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Assembly	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
791	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Other	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
792	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-BSS	BSS	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
793	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Education	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
794	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Sales	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
795	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Health	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
796	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Lodging	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
797	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Office	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
798	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Service	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
799	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Retail	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
800	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Warehouse	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
801	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Assembly	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
802	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Other	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
803	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-BSS	BSS	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
804	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Education	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
805	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
806	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Health	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
807	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Lodging	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
808	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Office	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
809	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Service	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
810	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Retail	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
811	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
812	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Assembly	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
813	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Other	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
814	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-BSS	BSS	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
815	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Education	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
816	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
817	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Health	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
818	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Lodging	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
819	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Office	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
820	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Service	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
821	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Retail	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
822	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
823	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Assembly	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
824	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Other	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
825	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-BSS	BSS	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
826	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Education	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
827	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Sales	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
828	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Health	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
829	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Lodging	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
830	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Office	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
831	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Service	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
832	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Retail	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
833	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Warehouse	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
834	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Assembly	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
835	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Other	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
836	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-BSS	BSS	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
837	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Education	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
838	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Sales	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
839	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Health	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	67%	68%	69%	69%	69%	69%	69%	69%	69%
840	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Lodging	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
841	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Office	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
842	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Service	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
843	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Retail	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
844	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Warehouse	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
845	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Assembly	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
846	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Other	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
847	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	BSS	ROB	69%	19%	24%	30%	36%	41%	47%	52%	56%	60%	63%	65%	66%	68%	69%	69%	69%	69%	69%	69%	69%
848	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Education	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
849	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Sales	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
850	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Health	ROB	68%	19%	24%	30%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%
851	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Lodging	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
852	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Office	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
853	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Service	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
854	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Retail	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
855	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Warehouse	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
856	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Assembly	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
857	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Other	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
858	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	BSS	ROB	65%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	62%	63%	64%	65%	65%	65%	65%	65%	65%	65%
859	Hot Water	Faucet Aerator	Biz-Custom	Education	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
860	Hot Water	Faucet Aerator	Biz-Custom	Food Sales	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
861	Hot Water	Faucet Aerator	Biz-Custom	Health	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
862	Hot Water	Faucet Aerator	Biz-Custom	Lodging	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
863	Hot Water	Faucet Aerator	Biz-Custom	Office	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
864	Hot Water	Faucet Aerator	Biz-Custom	Food Service	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
865	Hot Water	Faucet Aerator	Biz-Custom	Retail	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
866	Hot Water	Faucet Aerator	Biz-Custom	Warehouse	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
867	Hot Water	Faucet Aerator	Biz-Custom	Assembly	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
868	Hot Water	Faucet Aerator	Biz-Custom	Other	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
869	Hot Water	Faucet Aerator	Biz-Custom	BSS	RET	88%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
870	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Education	ROB	67%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
871	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Sales	ROB	67%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
872	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Health	ROB	67%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	55%	59%	61%	64%	65%	66%	67%
873	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Lodging	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
874	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Office	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
875	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Service	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
876	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Retail	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
877	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Warehouse	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
878	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Assembly	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
879	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Other	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
880	Hot Water	Res-Sized Heat Pump Water Heater	Biz-BSS	BSS	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
881	Hot Water	Commercial-Sized HPWH	Biz-Standard	Education	ROB	66%	1%	3%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
882	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Sales	ROB	66%	1%	3%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
883	Hot Water	Commercial-Sized HPWH	Biz-Standard	Health	ROB	66%	1%	3%	6%	8%	11%	14%	19%	23%	29%	34%	40%	45%	50%	54%	58%	60%	63%	64%	65%	66%
884	Hot Water	Commercial-Sized HPWH	Biz-Standard	Lodging	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
885	Hot Water	Commercial-Sized HPWH	Biz-Standard	Office	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
886	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Service	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
887	Hot Water	Commercial-Sized HPWH	Biz-Standard	Retail	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
888	Hot Water	Commercial-Sized HPWH	Biz-Standard	Warehouse	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
889	Hot Water	Commercial-Sized HPWH	Biz-Standard	Assembly	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
890	Hot Water	Commercial-Sized HPWH	Biz-Standard	Other	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
891	Hot Water	Commercial-Sized HPWH	Biz-BSS	BSS	ROB	65%	1%	3%	6%	8%	11%	14%	18%	23%	28%	34%	39%	45%	49%	53%	57%	59%	61%	63%	64%	65%
892	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Education	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
893	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Sales	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
894	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Health	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
895	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Lodging	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
896	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Office	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
897	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Service	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
898	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Retail	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
899	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Warehouse	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
900	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Assembly	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
901	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Other	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
902	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	BSS	ROB	88%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%
903	Hot Water	Custom Hot Water	Biz-Custom	Education	RET	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
904	Hot Water	Custom Hot Water	Biz-Custom	Food Sales	RET	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
905	Hot Water	Custom Hot Water	Biz-Custom	Health	RET	66%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
906	Hot Water	Custom Hot Water	Biz-Custom	Lodging	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
907	Hot Water	Custom Hot Water	Biz-Custom	Office	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
908	Hot Water	Custom Hot Water	Biz-Custom	Food Service	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
909	Hot Water	Custom Hot Water	Biz-Custom	Retail	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
910	Hot Water	Custom Hot Water	Biz-Custom	Warehouse	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
911	Hot Water	Custom Hot Water	Biz-Custom	Assembly	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
912	Hot Water	Custom Hot Water	Biz-Custom	Other	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
913	Hot Water	Custom Hot Water	Biz-Custom	BSS	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
914	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Education	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
915	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Sales	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
916	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Health	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
917	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Lodging	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
918	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Office	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
919	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Service	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
920	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Retail	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
921	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Warehouse	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
922	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Assembly	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
923	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Other	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
924	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	BSS	RET	68%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
925	Misc	Miscellaneous Custom	Biz-Custom	Education	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
926	Misc	Miscellaneous Custom	Biz-Custom	Food Sales	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
927	Misc	Miscellaneous Custom	Biz-Custom	Health	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
928	Misc	Miscellaneous Custom	Biz-Custom	Lodging	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
929	Misc	Miscellaneous Custom	Biz-Custom	Office	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
930	Misc	Miscellaneous Custom	Biz-Custom	Food Service	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
931	Misc	Miscellaneous Custom	Biz-Custom	Retail	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
932	Misc	Miscellaneous Custom	Biz-Custom	Warehouse	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
933	Misc	Miscellaneous Custom	Biz-Custom	Assembly	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
934	Misc	Miscellaneous Custom	Biz-Custom	Other	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
935	Misc	Miscellaneous Custom	Biz-Custom	BSS	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
936	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Education	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
937	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Sales	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
938	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Health	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
939	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Lodging	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
940	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Office	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
941	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Service	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
942	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Retail	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
943	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Warehouse	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
944	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Assembly	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
945	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Other	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
946	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-BSS	BSS	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
947	Misc	High Efficiency Hand Dryers	Biz-Custom	Education	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
948	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Sales	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
949	Misc	High Efficiency Hand Dryers	Biz-Custom	Health	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
950	Misc	High Efficiency Hand Dryers	Biz-Custom	Lodging	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
951	Misc	High Efficiency Hand Dryers	Biz-Custom	Office	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
952	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Service	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
953	Misc	High Efficiency Hand Dryers	Biz-Custom	Retail	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
954	Misc	High Efficiency Hand Dryers	Biz-Custom	Warehouse	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
955	Misc	High Efficiency Hand Dryers	Biz-Custom	Assembly	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
956	Misc	High Efficiency Hand Dryers	Biz-Custom	Other	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
957	Misc	High Efficiency Hand Dryers	Biz-Custom	BSS	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
958	Misc	Ozone Commercial Laundry	Biz-Custom	Education	RET	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
959	Misc	Ozone Commercial Laundry	Biz-Custom	Food Sales	RET	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
960	Misc	Ozone Commercial Laundry	Biz-Custom	Health	RET	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
961	Misc	Ozone Commercial Laundry	Biz-Custom	Lodging	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
962	Misc	Ozone Commercial Laundry	Biz-Custom	Office	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
963	Misc	Ozone Commercial Laundry	Biz-Custom	Food Service	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
964	Misc	Ozone Commercial Laundry	Biz-Custom	Retail	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
965	Misc	Ozone Commercial Laundry	Biz-Custom	Warehouse	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
966	Misc	Ozone Commercial Laundry	Biz-Custom	Assembly	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
967	Misc	Ozone Commercial Laundry	Biz-Custom	Other	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
968	Misc	Ozone Commercial Laundry	Biz-Custom	BSS	RET	65%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
969	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Education	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
970	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Sales	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
971	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Health	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
972	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Lodging	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
973	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Office	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
974	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Service	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
975	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Retail	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
976	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Warehouse	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
977	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Assembly	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
978	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Other	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
979	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	BSS	ROB	76%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
980	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Education	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
981	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Sales	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
982	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Health	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
983	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Lodging	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
984	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Office	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
985	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Service	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
986	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Retail	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
987	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Warehouse	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
988	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Assembly	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
989	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Other	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
990	Misc	Pool Pump w/ Variable Frequency Drive	Biz-BSS	BSS	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
991	Misc	Pool Pump Timer	Biz-Custom	Education	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
992	Misc	Pool Pump Timer	Biz-Custom	Food Sales	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
993	Misc	Pool Pump Timer	Biz-Custom	Health	ROB	68%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
994	Misc	Pool Pump Timer	Biz-Custom	Lodging	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
995	Misc	Pool Pump Timer	Biz-Custom	Office	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
996	Misc	Pool Pump Timer	Biz-Custom	Food Service	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
997	Misc	Pool Pump Timer	Biz-Custom	Retail	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
998	Misc	Pool Pump Timer	Biz-Custom	Warehouse	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
999	Misc	Pool Pump Timer	Biz-Custom	Assembly	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1000	Misc	Pool Pump Timer	Biz-Custom	Other	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1001	Misc	Pool Pump Timer	Biz-Custom	BSS	ROB	68%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1002	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1003	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1004	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1005	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1006	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1007	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1008	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1009	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1010	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1011	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1012	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1013	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1014	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1015	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1016	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1017	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1018	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1019	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1020	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1021	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1022	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1023	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1024	Plug_Office	Energy Star Server	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1025	Plug_Office	Energy Star Server	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1026	Plug_Office	Energy Star Server	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1027	Plug_Office	Energy Star Server	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1028	Plug_Office	Energy Star Server	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1029	Plug_Office	Energy Star Server	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1030	Plug_Office	Energy Star Server	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1031	Plug_Office	Energy Star Server	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1032	Plug_Office	Energy Star Server	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1033	Plug_Office	Energy Star Server	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1034	Plug_Office	Energy Star Server	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1035	Plug_Office	Server Virtualization	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1036	Plug_Office	Server Virtualization	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1037	Plug_Office	Server Virtualization	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1038	Plug_Office	Server Virtualization	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1039	Plug_Office	Server Virtualization	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1040	Plug_Office	Server Virtualization	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1041	Plug_Office	Server Virtualization	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1042	Plug_Office	Server Virtualization	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1043	Plug_Office	Server Virtualization	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1044	Plug_Office	Server Virtualization	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1045	Plug_Office	Server Virtualization	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1046	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1047	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1048	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1049	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1050	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1051	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1052	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1053	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1054	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1055	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1056	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1057	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Education	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
1058	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Sales	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
1059	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Health	ROB	68%	1%	4%	6%	9%	11%	15%	19%	24%	30%	35%	41%	47%	52%	56%	60%	62%	65%	66%	68%	68%
1060	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Lodging	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1061	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Office	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1062	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Service	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1063	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Retail	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1064	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Warehouse	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1065	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Assembly	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1066	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Other	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1067	Plug_Office	High Efficiency CRAC unit	Biz-Custom	BSS	ROB	68%	1%	4%	6%	8%	11%	15%	19%	24%	29%	35%	41%	46%	51%	56%	59%	62%	64%	66%	67%	68%
1068	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1069	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1070	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1071	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1072	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1073	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1074	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1075	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1076	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1077	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1078	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1079	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Education	RET	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1080	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Sales	RET	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1081	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Health	RET	67%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1082	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Lodging	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1083	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Office	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1084	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Service	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1085	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Retail	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1086	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Warehouse	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1087	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Assembly	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1088	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Other	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1089	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	BSS	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1090	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1091	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1092	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1093	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1094	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1095	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1096	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1097	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1098	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1099	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1100	Refrigeration	Strip Curtains, Cooler	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1101	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1102	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1103	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1104	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1105	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1106	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1107	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1108	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1109	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1110	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1111	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1112	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1113	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1114	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1115	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1116	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1117	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1118	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1119	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1120	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1121	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1122	Refrigeration	Strip Curtains, Freezer	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1123	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1124	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1125	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1126	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1127	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1128	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1129	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1130	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1131	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1132	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1133	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1134	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1135	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1136	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1137	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1138	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1139	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1140	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1141	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1142	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1143	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1144	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1145	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1146	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1147	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1148	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1149	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1150	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1151	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1152	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1153	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1154	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1155	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1156	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1157	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1158	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1159	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1160	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1161	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1162	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1163	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1164	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1165	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1166	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1167	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1168	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1169	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1170	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1171	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1172	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1173	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1174	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1175	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1176	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1177	Refrigeration	Floating Head Pressure Controls	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1178	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1179	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1180	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1181	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1182	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1183	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1184	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1185	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1186	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1187	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1188	Refrigeration	Door Heater Controls for Cooler	Biz-BSS	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1189	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1190	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1191	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1192	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1193	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1194	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1195	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1196	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1197	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1198	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1199	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1200	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1201	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1202	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1203	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1204	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1205	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1206	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1207	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1208	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1209	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1210	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1211	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1212	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1213	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1214	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1215	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1216	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1217	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1218	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1219	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1220	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1221	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1222	Refrigeration	Night Covers for Coolers	Biz-Custom	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1223	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1224	Refrigeration	Night Covers for Coolers	Biz-Custom	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1225	Refrigeration	Night Covers for Coolers	Biz-Custom	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1226	Refrigeration	Night Covers for Coolers	Biz-Custom	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1227	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1228	Refrigeration	Night Covers for Coolers	Biz-Custom	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1229	Refrigeration	Night Covers for Coolers	Biz-Custom	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1230	Refrigeration	Night Covers for Coolers	Biz-Custom	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1231	Refrigeration	Night Covers for Coolers	Biz-Custom	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1232	Refrigeration	Night Covers for Coolers	Biz-Custom	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1233	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1234	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1235	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1236	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1237	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1238	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1239	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1240	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1241	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1242	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1243	Refrigeration	Door Heater Controls for Freezer	Biz-BSS	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1244	Refrigeration	Night Covers for Freezers	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1245	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1246	Refrigeration	Night Covers for Freezers	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1247	Refrigeration	Night Covers for Freezers	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1248	Refrigeration	Night Covers for Freezers	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1249	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1250	Refrigeration	Night Covers for Freezers	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1251	Refrigeration	Night Covers for Freezers	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1252	Refrigeration	Night Covers for Freezers	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1253	Refrigeration	Night Covers for Freezers	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1254	Refrigeration	Night Covers for Freezers	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1255	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1256	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1257	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1258	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1259	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1260	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1261	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1262	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1263	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1264	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1265	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1266	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1267	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1268	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1269	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1270	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1271	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1272	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1273	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1274	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1275	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1276	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1277	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1278	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1279	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1280	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1281	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1282	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1283	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1284	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1285	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1286	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1287	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1288	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1289	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1290	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1291	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1292	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1293	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1294	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1295	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1296	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1297	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1298	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-BSS	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1299	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1300	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1301	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1302	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1303	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1304	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1305	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1306	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1307	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1308	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1309	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-BSS	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1310	Refrigeration	Commercial Ice Maker	Biz-Custom	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1311	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1312	Refrigeration	Commercial Ice Maker	Biz-Custom	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1313	Refrigeration	Commercial Ice Maker	Biz-Custom	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1314	Refrigeration	Commercial Ice Maker	Biz-Custom	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1315	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1316	Refrigeration	Commercial Ice Maker	Biz-Custom	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1317	Refrigeration	Commercial Ice Maker	Biz-Custom	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1318	Refrigeration	Commercial Ice Maker	Biz-Custom	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1319	Refrigeration	Commercial Ice Maker	Biz-Custom	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1320	Refrigeration	Commercial Ice Maker	Biz-Custom	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1321	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Education	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1322	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Sales	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1323	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Health	ROB	69%	1%	4%	6%	9%	11%	15%	19%	24%	30%	36%	42%	47%	52%	57%	60%	63%	65%	67%	68%	69%
1324	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Lodging	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1325	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Office	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1326	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Service	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1327	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Retail	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1328	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Warehouse	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1329	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Assembly	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1330	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Other	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1331	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	BSS	ROB	64%	1%	3%	6%	8%	11%	14%	18%	22%	28%	33%	39%	44%	48%	52%	56%	58%	60%	62%	63%	64%
1332	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1333	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1334	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1335	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1336	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1337	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1338	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1339	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1340	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1341	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1342	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1343	Refrigeration	Refrigeration - Custom	Biz-Custom	Education	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1344	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Sales	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1345	Refrigeration	Refrigeration - Custom	Biz-Custom	Health	RET	65%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1346	Refrigeration	Refrigeration - Custom	Biz-Custom	Lodging	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1347	Refrigeration	Refrigeration - Custom	Biz-Custom	Office	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1348	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Service	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1349	Refrigeration	Refrigeration - Custom	Biz-Custom	Retail	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1350	Refrigeration	Refrigeration - Custom	Biz-Custom	Warehouse	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1351	Refrigeration	Refrigeration - Custom	Biz-Custom	Assembly	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1352	Refrigeration	Refrigeration - Custom	Biz-Custom	Other	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1353	Refrigeration	Refrigeration - Custom	Biz-Custom	BSS	RET	63%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1354	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Education	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1355	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Sales	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1356	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Health	RET	69%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1357	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Lodging	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1358	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Office	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1359	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Service	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1360	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Retail	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1361	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Warehouse	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1362	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Assembly	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1363	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Other	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1364	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	BSS	RET	64%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1365	Ventilation	Demand Controlled Ventilation	Biz-Standard	Education	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1366	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Sales	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1367	Ventilation	Demand Controlled Ventilation	Biz-Standard	Health	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1368	Ventilation	Demand Controlled Ventilation	Biz-Standard	Lodging	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1369	Ventilation	Demand Controlled Ventilation	Biz-Standard	Office	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1370	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Service	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1371	Ventilation	Demand Controlled Ventilation	Biz-Standard	Retail	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1372	Ventilation	Demand Controlled Ventilation	Biz-Standard	Warehouse	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1373	Ventilation	Demand Controlled Ventilation	Biz-Standard	Assembly	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1374	Ventilation	Demand Controlled Ventilation	Biz-Standard	Other	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1375	Ventilation	Demand Controlled Ventilation	Biz-BSS	BSS	RET	65%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1376	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Education	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1377	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Sales	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1378	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Health	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1379	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Lodging	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1380	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Office	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1381	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Service	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1382	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Retail	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1383	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Warehouse	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1384	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Assembly	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1385	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Other	RET	69%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1386	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-BSS	BSS	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1387	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Education	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1388	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Sales	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1389	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Health	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1390	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Lodging	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1391	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Office	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1392	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Service	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1393	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Retail	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1394	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Warehouse	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1395	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Assembly	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1396	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Other	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1397	Ventilation	High Volume Low Speed Fan, 20	Biz-BSS	BSS	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1398	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Education	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1399	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Sales	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1400	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Health	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1401	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Lodging	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1402	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Office	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1403	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Service	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1404	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Retail	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1405	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Warehouse	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1406	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Assembly	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1407	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Other	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1408	Ventilation	High Volume Low Speed Fan, 22	Biz-BSS	BSS	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1409	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Education	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1410	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Sales	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1411	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Health	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1412	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Lodging	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1413	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Office	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1414	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Service	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1415	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Retail	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1416	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Warehouse	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1417	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Assembly	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1418	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Other	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1419	Ventilation	High Volume Low Speed Fan, 24	Biz-BSS	BSS	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1420	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Education	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1421	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Sales	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1422	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Health	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1423	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Lodging	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1424	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Office	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1425	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Service	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1426	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Retail	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1427	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Warehouse	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1428	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Assembly	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1429	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Other	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1430	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-BSS	BSS	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1431	Ventilation	Cogged V-Belt	Biz-Custom	Education	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1432	Ventilation	Cogged V-Belt	Biz-Custom	Food Sales	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1433	Ventilation	Cogged V-Belt	Biz-Custom	Health	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1434	Ventilation	Cogged V-Belt	Biz-Custom	Lodging	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1435	Ventilation	Cogged V-Belt	Biz-Custom	Office	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1436	Ventilation	Cogged V-Belt	Biz-Custom	Food Service	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1437	Ventilation	Cogged V-Belt	Biz-Custom	Retail	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1438	Ventilation	Cogged V-Belt	Biz-Custom	Warehouse	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1439	Ventilation	Cogged V-Belt	Biz-Custom	Assembly	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1440	Ventilation	Cogged V-Belt	Biz-Custom	Other	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1441	Ventilation	Cogged V-Belt	Biz-Custom	BSS	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1442	Ventilation	Switch Reluctance Motors	Biz-Custom	Education	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1443	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Sales	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1444	Ventilation	Switch Reluctance Motors	Biz-Custom	Health	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1445	Ventilation	Switch Reluctance Motors	Biz-Custom	Lodging	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1446	Ventilation	Switch Reluctance Motors	Biz-Custom	Office	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1447	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Service	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1448	Ventilation	Switch Reluctance Motors	Biz-Custom	Retail	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1449	Ventilation	Switch Reluctance Motors	Biz-Custom	Warehouse	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1450	Ventilation	Switch Reluctance Motors	Biz-Custom	Assembly	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1451	Ventilation	Switch Reluctance Motors	Biz-Custom	Other	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1452	Ventilation	Switch Reluctance Motors	Biz-Custom	BSS	RET	69%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1453	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Education	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1454	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Sales	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1455	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Health	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1456	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Lodging	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1457	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Office	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1458	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Service	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1459	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Retail	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1460	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Warehouse	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1461	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Assembly	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1462	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Other	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1463	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	BSS	RET	69%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1464	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Education	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1465	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Sales	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1466	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Health	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1467	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Lodging	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1468	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Office	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1469	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Service	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1470	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Retail	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1471	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Warehouse	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1472	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Assembly	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1473	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Other	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1474	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	BSS	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1475	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Education	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1476	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Sales	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1477	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Health	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1478	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Lodging	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1479	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Office	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1480	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Service	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1481	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Retail	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1482	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Warehouse	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1483	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Assembly	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1484	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Other	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1485	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	BSS	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1486	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Education	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1487	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Sales	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1488	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Health	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1489	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Lodging	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1490	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Office	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1491	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Service	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1492	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Retail	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1493	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Warehouse	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1494	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Assembly	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1495	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Other	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1496	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	BSS	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1497	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Education	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1498	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Sales	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1499	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Health	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1500	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Lodging	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1501	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Office	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1502	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Service	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1503	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Retail	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1504	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Warehouse	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1505	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Assembly	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1506	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Other	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1507	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	BSS	RET	69%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1508	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Education	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1509	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Sales	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1510	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Health	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1511	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Lodging	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1512	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Office	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1513	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Service	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1514	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Retail	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1515	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Warehouse	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1516	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Assembly	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1517	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Other	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1518	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	BSS	RET	65%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1519	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Education	RET	67%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1520	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Sales	RET	67%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1521	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Health	RET	67%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1522	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Lodging	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1523	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Office	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1524	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Service	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1525	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Retail	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1526	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Warehouse	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1527	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Assembly	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1528	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Other	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1529	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	BSS	RET	65%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1530	WholeBldg	WholeBlg - Com RET	Biz-Custom	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1531	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Sales	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1532	WholeBldg	WholeBlg - Com RET	Biz-Custom	Health	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1533	WholeBldg	WholeBlg - Com RET	Biz-Custom	Lodging	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1534	WholeBldg	WholeBlg - Com RET	Biz-Custom	Office	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1535	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Service	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1536	WholeBldg	WholeBlg - Com RET	Biz-Custom	Retail	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1537	WholeBldg	WholeBlg - Com RET	Biz-Custom	Warehouse	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1538	WholeBldg	WholeBlg - Com RET	Biz-Custom	Assembly	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1539	WholeBldg	WholeBlg - Com RET	Biz-Custom	Other	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1540	WholeBldg	WholeBlg - Com RET	Biz-Custom	BSS	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1541	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1542	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Sales	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1543	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Health	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1544	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Lodging	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1545	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Office	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1546	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Service	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1547	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Retail	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1548	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Warehouse	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1549	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Assembly	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1550	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Other	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1551	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	BSS	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1552	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Education	NEW	68%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1553	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Sales	NEW	68%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1554	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Health	NEW	68%	56%	60%	62%	65%	66%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1555	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Lodging	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1556	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Office	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1557	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Service	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1558	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Retail	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1559	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Warehouse	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1560	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Assembly	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1561	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Other	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1562	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	BSS	NEW	68%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1563	WholeBldg	COM Competitions	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1564	WholeBldg	COM Competitions	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1565	WholeBldg	COM Competitions	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1566	WholeBldg	COM Competitions	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1567	WholeBldg	COM Competitions	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1568	WholeBldg	COM Competitions	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1569	WholeBldg	COM Competitions	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1570	WholeBldg	COM Competitions	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1571	WholeBldg	COM Competitions	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1572	WholeBldg	COM Competitions	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1573	WholeBldg	COM Competitions	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1574	WholeBldg	Business Energy Reports	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1575	WholeBldg	Business Energy Reports	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1576	WholeBldg	Business Energy Reports	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1577	WholeBldg	Business Energy Reports	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1578	WholeBldg	Business Energy Reports	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1579	WholeBldg	Business Energy Reports	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1580	WholeBldg	Business Energy Reports	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1581	WholeBldg	Business Energy Reports	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1582	WholeBldg	Business Energy Reports	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1583	WholeBldg	Business Energy Reports	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1584	WholeBldg	Business Energy Reports	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1585	WholeBldg	Building Benchmarking	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1586	WholeBldg	Building Benchmarking	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1587	WholeBldg	Building Benchmarking	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1588	WholeBldg	Building Benchmarking	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1589	WholeBldg	Building Benchmarking	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1590	WholeBldg	Building Benchmarking	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1591	WholeBldg	Building Benchmarking	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1592	WholeBldg	Building Benchmarking	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1593	WholeBldg	Building Benchmarking	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1594	WholeBldg	Building Benchmarking	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1595	WholeBldg	Building Benchmarking	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1596	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Education	RET	68%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1597	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Sales	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1598	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Health	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
1599	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Lodging	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
1600	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Office	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1601	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Service	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1602	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Retail	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1603	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Warehouse	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
1604	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Assembly	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1605	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Other	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1606	WholeBldg	Strategic Energy Management	Biz-Custom SEM	BSS	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1607	WholeBldg	BEIMS	Biz-Custom	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1608	WholeBldg	BEIMS	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1609	WholeBldg	BEIMS	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1610	WholeBldg	BEIMS	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1611	WholeBldg	BEIMS	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1612	WholeBldg	BEIMS	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1613	WholeBldg	BEIMS	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1614	WholeBldg	BEIMS	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1615	WholeBldg	BEIMS	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1616	WholeBldg	BEIMS	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1617	WholeBldg	BEIMS	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1618	WholeBldg	Building Operator Certification	Biz-Custom	Education	RET	68%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1619	WholeBldg	Building Operator Certification	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1620	WholeBldg	Building Operator Certification	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1621	WholeBldg	Building Operator Certification	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1622	WholeBldg	Building Operator Certification	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1623	WholeBldg	Building Operator Certification	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1624	WholeBldg	Building Operator Certification	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1625	WholeBldg	Building Operator Certification	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1626	WholeBldg	Building Operator Certification	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1627	WholeBldg	Building Operator Certification	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1628	WholeBldg	Building Operator Certification	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1629	Cooking	Advanced Cooking	Biz-Custom	Education	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1630	Cooking	Advanced Cooking	Biz-Custom	Food Sales	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1631	Cooking	Advanced Cooking	Biz-Custom	Health	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1632	Cooking	Advanced Cooking	Biz-Custom	Lodging	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1633	Cooking	Advanced Cooking	Biz-Custom	Office	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1634	Cooking	Advanced Cooking	Biz-Custom	Food Service	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1635	Cooking	Advanced Cooking	Biz-Custom	Retail	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1636	Cooking	Advanced Cooking	Biz-Custom	Warehouse	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1637	Cooking	Advanced Cooking	Biz-Custom	Assembly	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1638	Cooking	Advanced Cooking	Biz-Custom	Other	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1639	Cooking	Advanced Cooking	Biz-Custom	BSS	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1640	Lighting_Int	Advanced Lighting	Biz-Custom	Education	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1641	Lighting_Int	Advanced Lighting	Biz-Custom	Food Sales	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1642	Lighting_Int	Advanced Lighting	Biz-Custom	Health	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1643	Lighting_Int	Advanced Lighting	Biz-Custom	Lodging	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1644	Lighting_Int	Advanced Lighting	Biz-Custom	Office	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1645	Lighting_Int	Advanced Lighting	Biz-Custom	Food Service	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1646	Lighting_Int	Advanced Lighting	Biz-Custom	Retail	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1647	Lighting_Int	Advanced Lighting	Biz-Custom	Warehouse	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1648	Lighting_Int	Advanced Lighting	Biz-Custom	Assembly	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1649	Lighting_Int	Advanced Lighting	Biz-Custom	Other	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1650	Lighting_Int	Advanced Lighting	Biz-Custom	BSS	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1651	Plug_Office	Advanced IT	Biz-Custom	Education	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1652	Plug_Office	Advanced IT	Biz-Custom	Food Sales	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1653	Plug_Office	Advanced IT	Biz-Custom	Health	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1654	Plug_Office	Advanced IT	Biz-Custom	Lodging	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1655	Plug_Office	Advanced IT	Biz-Custom	Office	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1656	Plug_Office	Advanced IT	Biz-Custom	Food Service	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1657	Plug_Office	Advanced IT	Biz-Custom	Retail	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1658	Plug_Office	Advanced IT	Biz-Custom	Warehouse	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1659	Plug_Office	Advanced IT	Biz-Custom	Assembly	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1660	Plug_Office	Advanced IT	Biz-Custom	Other	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1661	Plug_Office	Advanced IT	Biz-Custom	BSS	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1662	Refrigeration	Advanced Refrigeration	Biz-Custom	Education	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1663	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Sales	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1664	Refrigeration	Advanced Refrigeration	Biz-Custom	Health	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1665	Refrigeration	Advanced Refrigeration	Biz-Custom	Lodging	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1666	Refrigeration	Advanced Refrigeration	Biz-Custom	Office	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1667	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Service	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1668	Refrigeration	Advanced Refrigeration	Biz-Custom	Retail	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1669	Refrigeration	Advanced Refrigeration	Biz-Custom	Warehouse	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1670	Refrigeration	Advanced Refrigeration	Biz-Custom	Assembly	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1671	Refrigeration	Advanced Refrigeration	Biz-Custom	Other	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1672	Refrigeration	Advanced Refrigeration	Biz-Custom	BSS	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1673	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Education	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1674	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Sales	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1675	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Health	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1676	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Lodging	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1677	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Office	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1678	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Service	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1679	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Retail	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1680	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Warehouse	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1681	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Assembly	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1682	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Other	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1683	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	BSS	RET	68%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1684	Water_WW	Water Supply & Wastewater treatment pumps and process efficiency	Biz-Custom	Industrial	RET	67%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1685	Compressed Air	Efficient Air Compressor Equipment	Biz-Custom	Industrial	ROB	67%	14%	19%	23%	29%	35%	40%	46%	50%	55%	58%	61%	63%	65%	66%	67%	67%	67%	67%	67%	67%
1686	Compressed Air	Efficient Air Compressor Controls	Biz-Custom	Industrial	RET	68%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1687	HVAC	Efficient HVAC Equipment	Biz-Custom	Industrial	ROB	68%	35%	41%	47%	52%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1688	HVAC	Efficient HVAC O&M	Biz-Custom	Industrial	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1689	Lighting_Int	Efficient Lighting Equipment	Biz-Standard	Industrial	RET	72%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1690	Lighting_Int	Efficient Lighting O&M	Biz-Custom	Industrial	RET	68%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1691	Motors	Efficient MachDr Equipment	Biz-Custom	Industrial	ROB	67%	6%	8%	11%	14%	19%	23%	29%	35%	40%	46%	50%	55%	58%	61%	63%	65%	66%	67%	67%	67%
1692	Motors	Efficient MachDr O&M	Biz-Custom	Industrial	RET	68%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
1693	Process Heat	Efficient ProcHeat Equipment	Biz-Custom	Industrial	ROB	67%	35%	40%	46%	50%	55%	58%	61%	63%	65%	66%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%
1694	Process Heat	Efficient ProcHeat O&M	Biz-Custom	Industrial	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1695	Process Refrig	Efficient ProcRefrig Equipment	Biz-Custom	Industrial	ROB	65%	34%	39%	44%	49%	53%	57%	59%	61%	63%	64%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
1696	Process Refrig	Efficient ProcRefrig O&M	Biz-Custom	Industrial	RET	69%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1697	Process Other	Efficient Other Facility Process Equipment	Biz-Custom	Industrial	ROB	67%	35%	40%	46%	50%	55%	58%	61%	63%	65%	66%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%
1698	Process Other	Efficient Other Facility Process O&M	Biz-Custom	Industrial	RET	68%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1699	WholeBldg	Power Distribution (Transformers)	Biz-Custom	Industrial	RET	67%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
1700	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Industrial	RET	68%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Education	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
2	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Sales	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
3	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Food Service	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
4	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Health	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
5	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Lodging	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
6	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Retail	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
7	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Office	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
8	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Warehouse	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
9	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Assembly	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
10	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	Other	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
11	Cooking	Commercial Combination Oven (Electric)	Biz-Custom	BSS	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
12	Cooking	Commercial Electric Convection Oven	Biz-Custom	Education	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
13	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Sales	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
14	Cooking	Commercial Electric Convection Oven	Biz-Custom	Food Service	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
15	Cooking	Commercial Electric Convection Oven	Biz-Custom	Health	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
16	Cooking	Commercial Electric Convection Oven	Biz-Custom	Lodging	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
17	Cooking	Commercial Electric Convection Oven	Biz-Custom	Retail	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
18	Cooking	Commercial Electric Convection Oven	Biz-Custom	Office	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
19	Cooking	Commercial Electric Convection Oven	Biz-Custom	Warehouse	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
20	Cooking	Commercial Electric Convection Oven	Biz-Custom	Assembly	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
21	Cooking	Commercial Electric Convection Oven	Biz-Custom	Other	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
22	Cooking	Commercial Electric Convection Oven	Biz-Custom	BSS	ROB	62%	10%	14%	17%	22%	27%	32%	38%	43%	47%	51%	54%	57%	59%	60%	61%	62%	62%	62%	62%	62%
23	Cooking	Commercial Electric Griddle	Biz-Custom	Education	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
24	Cooking	Commercial Electric Griddle	Biz-Custom	Food Sales	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
25	Cooking	Commercial Electric Griddle	Biz-Custom	Food Service	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
26	Cooking	Commercial Electric Griddle	Biz-Custom	Health	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
27	Cooking	Commercial Electric Griddle	Biz-Custom	Lodging	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
28	Cooking	Commercial Electric Griddle	Biz-Custom	Retail	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
29	Cooking	Commercial Electric Griddle	Biz-Custom	Office	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
30	Cooking	Commercial Electric Griddle	Biz-Custom	Warehouse	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
31	Cooking	Commercial Electric Griddle	Biz-Custom	Assembly	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
32	Cooking	Commercial Electric Griddle	Biz-Custom	Other	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
33	Cooking	Commercial Electric Griddle	Biz-Custom	BSS	ROB	36%	1%	2%	3%	4%	6%	8%	10%	13%	16%	19%	22%	25%	27%	29%	31%	33%	34%	35%	35%	36%
34	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Education	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
35	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Sales	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
36	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Food Service	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
37	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Health	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
38	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Lodging	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
39	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Retail	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
40	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Office	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
41	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Warehouse	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
42	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Assembly	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
43	Cooking	Commercial Electric Steam Cooker	Biz-Standard	Other	ROB	58%	7%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%
44	Cooking	Commercial Electric Steam Cooker	Biz-BSS	BSS	ROB	58%	10%	13%	16%	20%	25%	30%	35%	40%	44%	47%	50%	53%	55%	56%	57%	58%	58%	58%	58%	58%
45	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Education	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
46	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
47	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
48	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Health	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
49	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
50	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Retail	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
51	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Office	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
52	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
53	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
54	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	Other	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
55	Cooking	Dishwasher Low Temp Door (Energy Star)	Biz-Custom	BSS	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
56	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Education	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
57	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Sales	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
58	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Food Service	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
59	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Health	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
60	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Lodging	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
61	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Retail	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
62	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Office	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
63	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Warehouse	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
64	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Assembly	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
65	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	Other	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
66	Cooking	Dishwasher High Temp Door (Energy Star)	Biz-Custom	BSS	ROB	66%	14%	18%	23%	29%	34%	40%	45%	50%	54%	57%	60%	62%	64%	65%	66%	66%	66%	66%	66%	66%
67	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Education	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
68	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Sales	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
69	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Food Service	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
70	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Health	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
71	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Lodging	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
72	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Retail	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
73	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Office	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
74	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Warehouse	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
75	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Assembly	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
76	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	Other	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
77	Cooking	Energy Efficienct Electric Fryer	Biz-Custom	BSS	ROB	41%	2%	4%	5%	7%	9%	11%	14%	18%	21%	25%	28%	31%	33%	35%	37%	38%	39%	40%	41%	41%
78	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Education	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
79	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Sales	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
80	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Food Service	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
81	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Health	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
82	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Lodging	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
83	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Retail	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
84	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Office	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
85	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Warehouse	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
86	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Assembly	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
87	Cooking	Insulated Holding Cabinets (Full Size)	Biz-Standard	Other	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
88	Cooking	Insulated Holding Cabinets (Full Size)	Biz-BSS	BSS	ROB	14%	8%	9%	10%	11%	12%	13%	13%	13%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
89	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Education	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
90	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Sales	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
91	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Food Service	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
92	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Health	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
93	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Lodging	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
94	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Retail	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
95	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Office	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
96	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Warehouse	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
97	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Assembly	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
98	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-Standard	Other	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
99	Cooking	Insulated Holding Cabinets (3/4 Size)	Biz-BSS	BSS	ROB	31%	1%	2%	3%	4%	5%	7%	9%	11%	13%	16%	19%	21%	23%	25%	27%	28%	29%	30%	31%	31%
100	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Education	ROB	25%	1%	1%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
101	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Sales	ROB	25%	1%	1%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
102	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Food Service	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
103	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Health	ROB	25%	1%	1%	2%	3%	4%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%
104	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Lodging	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
105	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Retail	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
106	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Office	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
107	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Warehouse	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
108	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Assembly	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
109	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-Standard	Other	ROB	26%	1%	1%	2%	3%	4%	6%	7%	9%	11%	13%	15%	17%	19%	21%	22%	23%	24%	25%	25%	26%
110	Cooking	Insulated Holding Cabinets (1/2 Size)	Biz-BSS	BSS	ROB	27%	1%	1%	2%	3%	4%	6%	7%	9%	12%	14%	16%	18%	20%	22%	23%	24%	25%	26%	26%	27%
111	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
112	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
113	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
114	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
115	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
116	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
117	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
118	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
119	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
120	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
121	Lighting_Ext	Ext LED Replacing 100W MH (24/7)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
122	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
123	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
124	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
125	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
126	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
127	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
128	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
129	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
130	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
131	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
132	Lighting_Ext	Ext LED Replacing 175W MH (24/7)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
133	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
134	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
135	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
136	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
137	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
138	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
139	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
140	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
141	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
142	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
143	Lighting_Ext	Ext LED Replacing 250W MH (24/7)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
144	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
145	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
146	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
147	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
148	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
149	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
150	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
151	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
152	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
153	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
154	Lighting_Ext	Ext LED Replacing 400W MH (24/7)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
155	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
156	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
157	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
158	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
159	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
160	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
161	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
162	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
163	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
164	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
165	Lighting_Ext	Ext LED Replacing 1000W MH (24/7)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
166	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
167	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
168	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
169	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
170	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
171	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
172	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
173	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
174	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
175	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
176	Lighting_Ext	Ext LED Replacing 100W MH (D2D)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
177	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
178	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
179	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
180	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
181	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
182	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
183	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
184	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
185	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
186	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
187	Lighting_Ext	Ext LED Replacing 175W MH (D2D)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
188	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
189	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
190	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
191	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
192	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
193	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
194	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
195	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
196	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
197	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
198	Lighting_Ext	Ext LED Replacing 250W MH (D2D)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
199	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
200	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
201	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
202	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
203	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
204	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
205	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
206	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
207	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
208	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
209	Lighting_Ext	Ext LED Replacing 400W MH (D2D)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
210	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Education	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
211	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Sales	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
212	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Health	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
213	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Lodging	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
214	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Office	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
215	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Food Service	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
216	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Retail	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
217	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Warehouse	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
218	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Assembly	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
219	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-Standard	Other	RET	78%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
220	Lighting_Ext	Ext LED Replacing 1000W MH (D2D)	Biz-BSS	BSS	RET	72%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
221	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Education	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
222	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Sales	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
223	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Health	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
224	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Lodging	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
225	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Office	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
226	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Food Service	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
227	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Retail	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
228	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Warehouse	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
229	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Assembly	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
230	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-Standard	Other	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
231	Lighting_Int	LED <=11 Watt Lamp Replacing Interior Halogen A 28-52 Watt Lamp	Biz-BSS	BSS	RET	56%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
232	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Education	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
233	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Sales	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
234	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Health	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
235	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Lodging	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
236	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Office	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
237	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Food Service	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
238	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Retail	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
239	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Warehouse	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
240	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Assembly	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
241	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-Standard	Other	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
242	Lighting_Int	LED 7-20 Watt Lamp Replacing Interior Halogen 53-70 Watt Lamp	Biz-BSS	BSS	RET	56%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
243	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Education	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
244	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Sales	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
245	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Health	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
246	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Lodging	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
247	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Office	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
248	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Food Service	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
249	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Retail	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
250	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Warehouse	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
251	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Assembly	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
252	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-Standard	Other	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
253	Lighting_Int	LED <=14 Watt Lamp Replacing Interior Halogen BR/R 45-65 Watt Lamp	Biz-BSS	BSS	RET	56%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
254	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Education	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
255	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Sales	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
256	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Health	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
257	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Lodging	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
258	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Office	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
259	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Food Service	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
260	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Retail	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
261	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Warehouse	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
262	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Assembly	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
263	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-Standard	Other	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
264	Lighting_Int	LED <=13 Watt Lamp Replacing Interior Halogen MR-16 35-50 Watt Lamp	Biz-BSS	BSS	RET	56%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
265	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Education	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
266	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Sales	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
267	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Health	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
268	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Lodging	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
269	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Office	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
270	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Food Service	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
271	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Retail	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
272	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Warehouse	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
273	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Assembly	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
274	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-Standard	Other	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
275	Lighting_Int	LED <=20 Watt Lamp Replacing Interior Halogen PAR 48-90 Watt Lamp	Biz-BSS	bss	RET	56%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
276	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Education	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
277	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
278	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Health	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
279	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
280	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Office	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
281	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
282	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Retail	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
283	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
284	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
285	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-Standard	Other	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
286	Lighting_Int	LED <=80 Watt Lamp or Fixture Replacing Interior HID 100-175 Watt Lamp or Fixture	Biz-BSS	BSS	RET	54%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
287	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Education	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
288	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
289	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Health	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
290	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
291	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Office	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
292	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
293	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Retail	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
294	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
295	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
296	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-Standard	Other	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
297	Lighting_Int	LED 62 - 130 Watt Lamp or Fixture Replacing Interior HID 176-300 Watt Lamp or Fixture	Biz-BSS	BSS	RET	54%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
298	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Education	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
299	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Sales	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
300	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Health	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
301	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Lodging	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
302	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Office	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
303	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Food Service	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
304	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Retail	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
305	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Warehouse	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
306	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Assembly	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
307	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-Standard	Other	RET	64%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
308	Lighting_Int	LED 85 - 225 Watt Lamp or Fixture Replacing Interior HID 301-500 Watt Lamp or Fixture	Biz-BSS	BSS	RET	54%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
309	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Education	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
310	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Sales	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
311	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Health	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
312	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Lodging	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
313	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Office	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
314	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Food Service	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
315	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Retail	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
316	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Warehouse	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
317	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Assembly	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
318	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-Standard	Other	RET	96%	28%	23%	18%	13%	10%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
319	Lighting_Int	LED or Electroluminescent Replacing Interior Incandescent/CFL Exit Sign	Biz-BSS	BSS	RET	94%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
320	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
321	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
322	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
323	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
324	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
325	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
326	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
327	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
328	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
329	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
330	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
331	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
332	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
333	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
334	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
335	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
336	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
337	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
338	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
339	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
340	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
341	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
342	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
343	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
344	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
345	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
346	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
347	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
348	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
349	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
350	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
351	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
352	Lighting_Int	LED Replacing Interior T5 Fluorescent (Type C)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
353	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
354	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
355	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
356	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
357	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
358	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
359	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
360	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
361	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
362	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
363	Lighting_Int	LED Replacing Interior T8 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
364	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
365	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
366	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
367	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
368	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
369	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
370	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
371	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
372	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
373	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
374	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
375	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
376	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
377	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
378	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
379	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
380	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
381	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
382	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
383	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
384	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
385	Lighting_Int	LED Replacting Interior T8 Fluorescent (Type C)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
386	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
387	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
388	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
389	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
390	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
391	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
392	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
393	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
394	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
395	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
396	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type A / Hybrid)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
397	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
398	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
399	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
400	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
401	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
402	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
403	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
404	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
405	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
406	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
407	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type B, Kits, and Fixtures)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
408	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Education	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
409	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Sales	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
410	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Health	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
411	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Lodging	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
412	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Office	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
413	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Food Service	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
414	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Retail	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
415	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Warehouse	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
416	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Assembly	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
417	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-Standard	Other	RET	71%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
418	Lighting_Int	LED Replacing Interior T12 Fluorescent (Type C)	Biz-BSS	BSS	RET	64%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
419	Lighting_Int	LED Specialty Lamp	Biz-Standard	Education	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
420	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Sales	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
421	Lighting_Int	LED Specialty Lamp	Biz-Standard	Health	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
422	Lighting_Int	LED Specialty Lamp	Biz-Standard	Lodging	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
423	Lighting_Int	LED Specialty Lamp	Biz-Standard	Office	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
424	Lighting_Int	LED Specialty Lamp	Biz-Standard	Food Service	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
425	Lighting_Int	LED Specialty Lamp	Biz-Standard	Retail	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
426	Lighting_Int	LED Specialty Lamp	Biz-Standard	Warehouse	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
427	Lighting_Int	LED Specialty Lamp	Biz-Standard	Assembly	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
428	Lighting_Int	LED Specialty Lamp	Biz-Standard	Other	RET	65%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
429	Lighting_Int	LED Specialty Lamp	Biz-BSS	BSS	RET	56%	32%	25%	19%	14%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
430	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Education	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
431	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Sales	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
432	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Health	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
433	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Lodging	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
434	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Office	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
435	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Food Service	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
436	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Retail	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
437	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Warehouse	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
438	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Assembly	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
439	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	Other	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
440	Lighting_Int	LED Lighting Redesign/Custom	Biz-Custom	BSS	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
441	Lighting_Int	Lighting Power Density	Biz-Custom	Education	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
442	Lighting_Int	Lighting Power Density	Biz-Custom	Food Sales	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
443	Lighting_Int	Lighting Power Density	Biz-Custom	Health	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
444	Lighting_Int	Lighting Power Density	Biz-Custom	Lodging	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
445	Lighting_Int	Lighting Power Density	Biz-Custom	Office	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
446	Lighting_Int	Lighting Power Density	Biz-Custom	Food Service	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
447	Lighting_Int	Lighting Power Density	Biz-Custom	Retail	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
448	Lighting_Int	Lighting Power Density	Biz-Custom	Warehouse	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
449	Lighting_Int	Lighting Power Density	Biz-Custom	Assembly	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
450	Lighting_Int	Lighting Power Density	Biz-Custom	Other	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
451	Lighting_Int	Lighting Power Density	Biz-Custom	BSS	RET	36%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
452	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Education	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
453	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Sales	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
454	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Health	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
455	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Lodging	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
456	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Office	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
457	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Food Service	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
458	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Retail	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
459	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Warehouse	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
460	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Assembly	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
461	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	Other	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
462	Lighting_Int	Fixture Mounted Occupancy Sensor Controlling > 60 Watts	Biz-Standard	BSS	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
463	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Education	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
464	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Sales	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
465	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Health	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
466	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Lodging	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
467	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Office	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
468	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Food Service	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
469	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Retail	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
470	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Warehouse	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
471	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Assembly	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
472	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	Other	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
473	Lighting_Int	Remote Mounted Occupancy Sensor Controlling > 150 Watts	Biz-Standard	BSS	RET	67%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
474	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Education	RET	30%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
475	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Sales	RET	30%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
476	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Health	RET	30%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
477	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Lodging	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
478	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Office	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
479	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Food Service	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
480	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Retail	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
481	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Warehouse	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
482	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Assembly	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
483	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	Other	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
484	Lighting_Int	High End TRIM with Network Lighting Controls	Biz-Standard	BSS	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
485	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Education	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
486	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Sales	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
487	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Health	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
488	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Lodging	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
489	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Office	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
490	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Food Service	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
491	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Retail	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
492	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Warehouse	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
493	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Assembly	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
494	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	Other	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
495	Lighting_Int	High End TRIM with Network Lighting Controls installed with Luminaire Level Lighting Control LED Fixture	Biz-Standard	BSS	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
496	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Education	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
497	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Sales	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
498	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Health	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
499	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Lodging	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
500	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Office	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
501	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Food Service	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
502	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Retail	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
503	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Warehouse	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
504	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Assembly	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
505	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	Other	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
506	Lighting_Int	NLC, LLLC Additional Control Strategy (Daylighting,dimming,personal level control)	Biz-Standard	BSS	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
507	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Education	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
508	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Sales	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
509	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Health	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
510	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Lodging	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
511	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Office	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
512	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Food Service	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
513	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Retail	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
514	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Warehouse	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
515	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Assembly	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
516	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	Other	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
517	Lighting_Int	Luminaire-Level Lighting Controls	Biz-Standard	BSS	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
518	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Education	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
519	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Sales	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
520	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Health	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
521	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Lodging	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
522	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Office	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
523	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Food Service	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
524	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Retail	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
525	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Warehouse	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
526	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Assembly	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
527	Compressed Air	Efficient Air Compressors (VSD)	Biz-Standard	Other	ROB	33%	7%	9%	12%	14%	17%	20%	22%	25%	27%	29%	30%	31%	32%	32%	33%	33%	33%	33%	33%	33%
528	Compressed Air	Efficient Air Compressors (VSD)	Biz-BSS	BSS	ROB	16%	15%	15%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
529	Compressed Air	Efficient Air Nozzles	Biz-Standard	Education	RET	37%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
530	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Sales	RET	37%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
531	Compressed Air	Efficient Air Nozzles	Biz-Standard	Health	RET	37%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
532	Compressed Air	Efficient Air Nozzles	Biz-Standard	Lodging	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
533	Compressed Air	Efficient Air Nozzles	Biz-Standard	Office	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
534	Compressed Air	Efficient Air Nozzles	Biz-Standard	Food Service	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
535	Compressed Air	Efficient Air Nozzles	Biz-Standard	Retail	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
536	Compressed Air	Efficient Air Nozzles	Biz-Standard	Warehouse	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
537	Compressed Air	Efficient Air Nozzles	Biz-Standard	Assembly	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
538	Compressed Air	Efficient Air Nozzles	Biz-Standard	Other	RET	38%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
539	Compressed Air	Efficient Air Nozzles	Biz-BSS	BSS	RET	29%	36%	28%	21%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
540	Compressed Air	AODD Pump Controls	Biz-Custom	Education	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
541	Compressed Air	AODD Pump Controls	Biz-Custom	Food Sales	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
542	Compressed Air	AODD Pump Controls	Biz-Custom	Health	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
543	Compressed Air	AODD Pump Controls	Biz-Custom	Lodging	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
544	Compressed Air	AODD Pump Controls	Biz-Custom	Office	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
545	Compressed Air	AODD Pump Controls	Biz-Custom	Food Service	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
546	Compressed Air	AODD Pump Controls	Biz-Custom	Retail	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
547	Compressed Air	AODD Pump Controls	Biz-Custom	Warehouse	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
548	Compressed Air	AODD Pump Controls	Biz-Custom	Assembly	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
549	Compressed Air	AODD Pump Controls	Biz-Custom	Other	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
550	Compressed Air	AODD Pump Controls	Biz-Custom	BSS	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
551	Compressed Air	No Loss Condensate Drain	Biz-Standard	Education	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
552	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Sales	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
553	Compressed Air	No Loss Condensate Drain	Biz-Standard	Health	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
554	Compressed Air	No Loss Condensate Drain	Biz-Standard	Lodging	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
555	Compressed Air	No Loss Condensate Drain	Biz-Standard	Office	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
556	Compressed Air	No Loss Condensate Drain	Biz-Standard	Food Service	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
557	Compressed Air	No Loss Condensate Drain	Biz-Standard	Retail	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
558	Compressed Air	No Loss Condensate Drain	Biz-Standard	Warehouse	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
559	Compressed Air	No Loss Condensate Drain	Biz-Standard	Assembly	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
560	Compressed Air	No Loss Condensate Drain	Biz-Standard	Other	RET	29%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
561	Compressed Air	No Loss Condensate Drain	Biz-BSS	BSS	RET	30%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
562	Compressed Air	Compressed Air - Custom	Biz-Custom	Education	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
563	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Sales	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
564	Compressed Air	Compressed Air - Custom	Biz-Custom	Health	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
565	Compressed Air	Compressed Air - Custom	Biz-Custom	Lodging	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
566	Compressed Air	Compressed Air - Custom	Biz-Custom	Office	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
567	Compressed Air	Compressed Air - Custom	Biz-Custom	Food Service	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
568	Compressed Air	Compressed Air - Custom	Biz-Custom	Retail	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
569	Compressed Air	Compressed Air - Custom	Biz-Custom	Warehouse	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
570	Compressed Air	Compressed Air - Custom	Biz-Custom	Assembly	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
571	Compressed Air	Compressed Air - Custom	Biz-Custom	Other	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
572	Compressed Air	Compressed Air - Custom	Biz-Custom	BSS	RET	36%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
573	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Education	RET	29%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
574	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Sales	RET	29%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
575	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Health	RET	29%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
576	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Lodging	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
577	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Office	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
578	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Food Service	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
579	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Retail	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
580	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Warehouse	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
581	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Assembly	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
582	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	Other	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
583	Compressed Air	Retro-commissioning_Compressed Air Optimization	Biz-Custom RCx	BSS	RET	31%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
584	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Education	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
585	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Sales	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
586	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Health	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
587	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Lodging	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
588	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Office	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
589	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Food Service	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
590	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Retail	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
591	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Warehouse	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
592	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Assembly	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
593	Compressed Air	Compressed Air Leak Repair	Biz-Custom	Other	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
594	Compressed Air	Compressed Air Leak Repair	Biz-Custom	BSS	RET	60%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
595	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Education	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
596	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Sales	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
597	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Health	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
598	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Lodging	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
599	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Office	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
600	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Food Service	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
601	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Retail	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
602	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Warehouse	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
603	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Assembly	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
604	Cooling	Air Conditioner - (<65kBTUh)	Biz-Standard	Other	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
605	Cooling	Air Conditioner - (<65kBTUh)	Biz-BSS	BSS	ROB	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
606	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Education	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
607	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Sales	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
608	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Health	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
609	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Lodging	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
610	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Office	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
611	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Food Service	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
612	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Retail	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
613	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Warehouse	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
614	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Assembly	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
615	Cooling	Air Conditioner - (65-135kBTUh)	Biz-Standard	Other	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
616	Cooling	Air Conditioner - (65-135kBTUh)	Biz-BSS	BSS	ROB	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
617	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Education	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
618	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Sales	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
619	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Health	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
620	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Lodging	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
621	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Office	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
622	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Food Service	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
623	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Retail	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
624	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Warehouse	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
625	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Assembly	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
626	Cooling	Air Conditioner - (135-240kBTUh)	Biz-Standard	Other	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
627	Cooling	Air Conditioner - (135-240kBTUh)	Biz-BSS	BSS	ROB	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
628	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Education	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
629	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Sales	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
630	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Health	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
631	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Lodging	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
632	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Office	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
633	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Food Service	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
634	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Retail	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
635	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Warehouse	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
636	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Assembly	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
637	Cooling	Air Conditioner - (240-760kBTUh)	Biz-Standard	Other	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
638	Cooling	Air Conditioner - (240-760kBTUh)	Biz-BSS	BSS	ROB	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
639	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Education	ROB	32%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%
640	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Sales	ROB	32%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%
641	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Health	ROB	32%	5%	7%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%
642	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Lodging	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
643	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Office	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
644	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Food Service	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
645	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Retail	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
646	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Warehouse	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
647	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Assembly	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
648	Cooling	Air Conditioner - (760kBTUh+)	Biz-Standard	Other	ROB	28%	6%	8%	10%	12%	15%	17%	19%	21%	23%	24%	26%	26%	27%	28%	28%	28%	28%	28%	28%	28%
649	Cooling	Air Conditioner - (760kBTUh+)	Biz-BSS	BSS	ROB	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
650	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Education	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
651	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Sales	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
652	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Health	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
653	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Lodging	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
654	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Office	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
655	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Food Service	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
656	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Retail	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
657	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Warehouse	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
658	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Assembly	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
659	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	Other	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
660	Cooling	Cooling Tower Water Side Economizer	Biz-Custom	BSS	RET	28%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
661	Cooling	Air Cooled Chiller	Biz-Standard	Education	ROB	27%	6%	7%	9%	12%	14%	16%	18%	20%	22%	23%	24%	25%	26%	26%	27%	27%	27%	27%	27%	27%
662	Cooling	Air Cooled Chiller	Biz-Standard	Food Sales	ROB	27%	6%	7%	9%	12%	14%	16%	18%	20%	22%	23%	24%	25%	26%	26%	27%	27%	27%	27%	27%	27%
663	Cooling	Air Cooled Chiller	Biz-Standard	Health	ROB	27%	6%	7%	9%	12%	14%	16%	18%	20%	22%	23%	24%	25%	26%	26%	27%	27%	27%	27%	27%	27%
664	Cooling	Air Cooled Chiller	Biz-Standard	Lodging	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%
665	Cooling	Air Cooled Chiller	Biz-Standard	Office	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%
666	Cooling	Air Cooled Chiller	Biz-Standard	Food Service	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%
667	Cooling	Air Cooled Chiller	Biz-Standard	Retail	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
668	Cooling	Air Cooled Chiller	Biz-Standard	Warehouse	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%
669	Cooling	Air Cooled Chiller	Biz-Standard	Assembly	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%
670	Cooling	Air Cooled Chiller	Biz-Standard	Other	ROB	25%	5%	7%	9%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	25%	25%	25%	25%	25%	25%
671	Cooling	Air Cooled Chiller	Biz-BSS	BSS	ROB	27%	12%	14%	16%	19%	21%	22%	24%	25%	26%	26%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
672	Cooling	Water Cooled Chiller	Biz-Standard	Education	ROB	23%	5%	7%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	23%	23%	23%	23%	23%	23%	23%	23%
673	Cooling	Water Cooled Chiller	Biz-Standard	Food Sales	ROB	23%	5%	7%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	23%	23%	23%	23%	23%	23%	23%	23%
674	Cooling	Water Cooled Chiller	Biz-Standard	Health	ROB	23%	5%	7%	8%	10%	12%	14%	16%	18%	19%	20%	21%	22%	23%	23%	23%	23%	23%	23%	23%	23%
675	Cooling	Water Cooled Chiller	Biz-Standard	Lodging	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
676	Cooling	Water Cooled Chiller	Biz-Standard	Office	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
677	Cooling	Water Cooled Chiller	Biz-Standard	Food Service	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
678	Cooling	Water Cooled Chiller	Biz-Standard	Retail	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
679	Cooling	Water Cooled Chiller	Biz-Standard	Warehouse	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
680	Cooling	Water Cooled Chiller	Biz-Standard	Assembly	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
681	Cooling	Water Cooled Chiller	Biz-Standard	Other	ROB	22%	6%	8%	9%	11%	13%	15%	16%	18%	19%	20%	21%	21%	21%	22%	22%	22%	22%	22%	22%	22%
682	Cooling	Water Cooled Chiller	Biz-BSS	BSS	ROB	24%	11%	13%	15%	17%	19%	20%	21%	22%	23%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
683	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Education	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
684	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Sales	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
685	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Health	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
686	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Lodging	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
687	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Office	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
688	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Food Service	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
689	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Retail	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
690	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Warehouse	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
691	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Assembly	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
692	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	Other	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
693	Cooling	Comprehensive Rooftop Unit Quality Maintenance (AC Tune-up)	Biz-Custom	BSS	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
694	Cooling	Chiller Tune-up	Biz-Custom	Education	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
695	Cooling	Chiller Tune-up	Biz-Custom	Food Sales	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
696	Cooling	Chiller Tune-up	Biz-Custom	Health	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
697	Cooling	Chiller Tune-up	Biz-Custom	Lodging	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
698	Cooling	Chiller Tune-up	Biz-Custom	Office	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
699	Cooling	Chiller Tune-up	Biz-Custom	Food Service	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
700	Cooling	Chiller Tune-up	Biz-Custom	Retail	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
701	Cooling	Chiller Tune-up	Biz-Custom	Warehouse	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
702	Cooling	Chiller Tune-up	Biz-Custom	Assembly	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
703	Cooling	Chiller Tune-up	Biz-Custom	Other	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
704	Cooling	Chiller Tune-up	Biz-Custom	BSS	RET	60%	26%	21%	17%	13%	10%	8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
705	Cooling	Advanced Rooftop Controls	Biz-Standard	Education	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
706	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Sales	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
707	Cooling	Advanced Rooftop Controls	Biz-Standard	Health	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
708	Cooling	Advanced Rooftop Controls	Biz-Standard	Lodging	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
709	Cooling	Advanced Rooftop Controls	Biz-Standard	Office	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
710	Cooling	Advanced Rooftop Controls	Biz-Standard	Food Service	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
711	Cooling	Advanced Rooftop Controls	Biz-Standard	Retail	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
712	Cooling	Advanced Rooftop Controls	Biz-Standard	Warehouse	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
713	Cooling	Advanced Rooftop Controls	Biz-Standard	Assembly	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
714	Cooling	Advanced Rooftop Controls	Biz-Standard	Other	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
715	Cooling	Advanced Rooftop Controls	Biz-BSS	BSS	RET	36%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
716	Cooling	HVAC Occupancy Controls	Biz-Custom	Education	ROB	30%	13%	16%	18%	21%	23%	25%	26%	27%	28%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
717	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Sales	ROB	30%	13%	16%	18%	21%	23%	25%	26%	27%	28%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
718	Cooling	HVAC Occupancy Controls	Biz-Custom	Health	ROB	30%	13%	16%	18%	21%	23%	25%	26%	27%	28%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
719	Cooling	HVAC Occupancy Controls	Biz-Custom	Lodging	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
720	Cooling	HVAC Occupancy Controls	Biz-Custom	Office	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
721	Cooling	HVAC Occupancy Controls	Biz-Custom	Food Service	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
722	Cooling	HVAC Occupancy Controls	Biz-Custom	Retail	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
723	Cooling	HVAC Occupancy Controls	Biz-Custom	Warehouse	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
724	Cooling	HVAC Occupancy Controls	Biz-Custom	Assembly	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
725	Cooling	HVAC Occupancy Controls	Biz-Custom	Other	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
726	Cooling	HVAC Occupancy Controls	Biz-Custom	BSS	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
727	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Education	ROB	34%	23%	25%	27%	29%	31%	32%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
728	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Sales	ROB	34%	23%	25%	27%	29%	31%	32%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
729	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Health	ROB	34%	23%	25%	27%	29%	31%	32%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
730	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Lodging	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
731	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Office	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
732	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Food Service	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
733	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Retail	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
734	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Warehouse	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
735	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Assembly	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
736	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	Other	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
737	Cooling	PTAC - 7,000 to 15,000 Btuh - lodging	Biz-Custom	BSS	ROB	34%	23%	26%	28%	30%	31%	32%	33%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
738	Cooling	Smart Thermostat	Biz-Custom	Education	ROB	71%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
739	Cooling	Smart Thermostat	Biz-Custom	Food Sales	ROB	71%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
740	Cooling	Smart Thermostat	Biz-Custom	Health	ROB	71%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
741	Cooling	Smart Thermostat	Biz-Custom	Lodging	ROB	71%	62%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
742	Cooling	Smart Thermostat	Biz-Custom	Office	ROB	50%	38%	41%	44%	46%	47%	48%	49%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
743	Cooling	Smart Thermostat	Biz-Custom	Food Service	ROB	71%	62%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
744	Cooling	Smart Thermostat	Biz-Custom	Retail	ROB	91%	88%	90%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%
745	Cooling	Smart Thermostat	Biz-Custom	Warehouse	ROB	71%	62%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
746	Cooling	Smart Thermostat	Biz-Custom	Assembly	ROB	71%	62%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
747	Cooling	Smart Thermostat	Biz-Custom	Other	ROB	71%	62%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
748	Cooling	Smart Thermostat	Biz-Custom	BSS	ROB	71%	62%	65%	67%	69%	70%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%	71%
749	Cooling	Secondary Windows	Biz-Custom	Education	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
750	Cooling	Secondary Windows	Biz-Custom	Food Sales	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
751	Cooling	Secondary Windows	Biz-Custom	Health	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
752	Cooling	Secondary Windows	Biz-Custom	Lodging	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
753	Cooling	Secondary Windows	Biz-Custom	Office	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
754	Cooling	Secondary Windows	Biz-Custom	Food Service	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
755	Cooling	Secondary Windows	Biz-Custom	Retail	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
756	Cooling	Secondary Windows	Biz-Custom	Warehouse	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
757	Cooling	Secondary Windows	Biz-Custom	Assembly	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
758	Cooling	Secondary Windows	Biz-Custom	Other	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
759	Cooling	Secondary Windows	Biz-Custom	BSS	RET	34%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
760	Cooling	Triple Pane Windows	Biz-Custom	Education	ROB	14%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	12%	12%	13%	13%	14%	14%	14%	14%	14%	14%
761	Cooling	Triple Pane Windows	Biz-Custom	Food Sales	ROB	14%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	12%	12%	13%	13%	14%	14%	14%	14%	14%	14%
762	Cooling	Triple Pane Windows	Biz-Custom	Health	ROB	14%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	12%	12%	13%	13%	14%	14%	14%	14%	14%	14%
763	Cooling	Triple Pane Windows	Biz-Custom	Lodging	ROB	14%	2%	2%	3%	4%	5%	6%	7%	8%	10%	11%	12%	12%	13%	13%	14%	14%	14%	14%	14%	14%
764	Cooling	Triple Pane Windows	Biz-Custom	Office	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
765	Cooling	Triple Pane Windows	Biz-Custom	Food Service	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
766	Cooling	Triple Pane Windows	Biz-Custom	Retail	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
767	Cooling	Triple Pane Windows	Biz-Custom	Warehouse	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
768	Cooling	Triple Pane Windows	Biz-Custom	Assembly	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
769	Cooling	Triple Pane Windows	Biz-Custom	Other	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
770	Cooling	Triple Pane Windows	Biz-Custom	BSS	ROB	13%	2%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	11%	12%	12%	12%	13%	13%	13%	13%	13%
771	Cooling	Energy Recovery Ventilator	Biz-Custom	Education	RET	33%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
772	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Sales	RET	33%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
773	Cooling	Energy Recovery Ventilator	Biz-Custom	Health	RET	33%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
774	Cooling	Energy Recovery Ventilator	Biz-Custom	Lodging	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
775	Cooling	Energy Recovery Ventilator	Biz-Custom	Office	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
776	Cooling	Energy Recovery Ventilator	Biz-Custom	Food Service	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
777	Cooling	Energy Recovery Ventilator	Biz-Custom	Retail	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
778	Cooling	Energy Recovery Ventilator	Biz-Custom	Warehouse	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
779	Cooling	Energy Recovery Ventilator	Biz-Custom	Assembly	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
780	Cooling	Energy Recovery Ventilator	Biz-Custom	Other	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
781	Cooling	Energy Recovery Ventilator	Biz-Custom	BSS	RET	28%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
782	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Education	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
783	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Sales	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
784	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Health	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
785	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Lodging	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
786	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Office	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
787	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Food Service	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
788	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Retail	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
789	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Warehouse	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
790	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Assembly	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
791	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-Standard	Other	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
792	Heating	Heat Pump - 16 SEER (<5 Tons)	Biz-BSS	BSS	ROB	32%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
793	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Education	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
794	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Sales	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
795	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Health	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
796	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Lodging	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
797	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Office	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
798	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Food Service	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
799	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Retail	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
800	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Warehouse	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
801	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Assembly	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
802	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-Standard	Other	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
803	Heating	Heat Pump - 15.0 IEER COP 3.6 (65,000-134,000 Btu/hr)	Biz-BSS	BSS	ROB	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
804	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Education	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
805	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
806	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Health	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
807	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Lodging	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
808	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Office	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
809	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Food Service	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
810	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Retail	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
811	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
812	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Assembly	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
813	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-Standard	Other	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
814	Heating	Heat Pump - 14.5 IEER COP 3.5 (135,000-239,000 Btu/hr)	Biz-BSS	BSS	ROB	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
815	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Education	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
816	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Sales	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
817	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Health	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
818	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Lodging	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
819	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Office	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
820	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Food Service	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
821	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Retail	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
822	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Warehouse	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
823	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Assembly	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
824	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-Standard	Other	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
825	Heating	Heat Pump - 12 IEER 3.4 COP (>239,000 Btu/hr)	Biz-BSS	BSS	ROB	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
826	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Education	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
827	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Sales	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
828	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Health	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
829	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Lodging	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
830	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Office	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
831	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Food Service	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
832	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Retail	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
833	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Warehouse	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
834	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Assembly	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
835	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-Standard	Other	ROB	32%	9%	11%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%
836	Heating	Geothermal HP - 20 EER < 135kbtu	Biz-BSS	BSS	ROB	32%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
837	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Education	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
838	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Sales	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
839	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Health	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
840	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Lodging	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
841	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Office	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
842	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Food Service	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
843	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Retail	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
844	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Warehouse	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
845	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Assembly	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
846	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	Other	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
847	Heating	PTHP - 7,000 to 15,000 Btuh	Biz-Custom	BSS	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
848	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Education	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
849	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Sales	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
850	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Health	ROB	32%	14%	17%	19%	22%	24%	26%	28%	29%	30%	31%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
851	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Lodging	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
852	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Office	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
853	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Food Service	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
854	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Retail	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
855	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Warehouse	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
856	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Assembly	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
857	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	Other	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
858	Heating	Variable Refrigerant Flow Heat Pump	Biz-Custom	BSS	ROB	31%	14%	16%	19%	21%	24%	26%	27%	29%	30%	30%	31%	31%	31%	31%	31%	31%	31%	31%	31%	31%
859	Hot Water	Faucet Aerator	Biz-Custom	Education	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
860	Hot Water	Faucet Aerator	Biz-Custom	Food Sales	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
861	Hot Water	Faucet Aerator	Biz-Custom	Health	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
862	Hot Water	Faucet Aerator	Biz-Custom	Lodging	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
863	Hot Water	Faucet Aerator	Biz-Custom	Office	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
864	Hot Water	Faucet Aerator	Biz-Custom	Food Service	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
865	Hot Water	Faucet Aerator	Biz-Custom	Retail	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
866	Hot Water	Faucet Aerator	Biz-Custom	Warehouse	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
867	Hot Water	Faucet Aerator	Biz-Custom	Assembly	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
868	Hot Water	Faucet Aerator	Biz-Custom	Other	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
869	Hot Water	Faucet Aerator	Biz-Custom	BSS	RET	88%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
870	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Education	ROB	27%	1%	1%	2%	3%	5%	6%	8%	10%	12%	14%	16%	19%	21%	22%	24%	25%	26%	26%	27%	27%
871	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Sales	ROB	27%	1%	1%	2%	3%	5%	6%	8%	10%	12%	14%	16%	19%	21%	22%	24%	25%	26%	26%	27%	27%
872	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Health	ROB	27%	1%	1%	2%	3%	5%	6%	8%	10%	12%	14%	16%	19%	21%	22%	24%	25%	26%	26%	27%	27%
873	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Lodging	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
874	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Office	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
875	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Food Service	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
876	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Retail	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
877	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Warehouse	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
878	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Assembly	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
879	Hot Water	Res-Sized Heat Pump Water Heater	Biz-Standard	Other	ROB	28%	1%	1%	2%	4%	5%	6%	8%	10%	12%	15%	17%	19%	21%	23%	25%	26%	27%	27%	28%	28%
880	Hot Water	Res-Sized Heat Pump Water Heater	Biz-BSS	BSS	ROB	29%	1%	2%	3%	4%	5%	6%	8%	10%	13%	15%	18%	20%	22%	24%	25%	27%	27%	28%	29%	29%
881	Hot Water	Commercial-Sized HPWH	Biz-Standard	Education	ROB	15%	0%	1%	1%	2%	3%	3%	4%	5%	7%	8%	9%	11%	12%	13%	13%	14%	15%	15%	15%	15%
882	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Sales	ROB	15%	0%	1%	1%	2%	3%	3%	4%	5%	7%	8%	9%	11%	12%	13%	13%	14%	15%	15%	15%	15%
883	Hot Water	Commercial-Sized HPWH	Biz-Standard	Health	ROB	15%	0%	1%	1%	2%	3%	3%	4%	5%	7%	8%	9%	11%	12%	13%	13%	14%	15%	15%	15%	15%
884	Hot Water	Commercial-Sized HPWH	Biz-Standard	Lodging	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%
885	Hot Water	Commercial-Sized HPWH	Biz-Standard	Office	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%
886	Hot Water	Commercial-Sized HPWH	Biz-Standard	Food Service	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%
887	Hot Water	Commercial-Sized HPWH	Biz-Standard	Retail	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%
888	Hot Water	Commercial-Sized HPWH	Biz-Standard	Warehouse	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%
889	Hot Water	Commercial-Sized HPWH	Biz-Standard	Assembly	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
890	Hot Water	Commercial-Sized HPWH	Biz-Standard	Other	ROB	14%	0%	1%	1%	2%	2%	3%	4%	5%	6%	7%	9%	10%	11%	12%	12%	13%	13%	14%	14%	14%
891	Hot Water	Commercial-Sized HPWH	Biz-BSS	BSS	ROB	4%	2%	2%	3%	3%	3%	3%	3%	3%	3%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
892	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Education	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
893	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Sales	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
894	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Health	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
895	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Lodging	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
896	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Office	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
897	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Food Service	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
898	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Retail	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
899	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Warehouse	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
900	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Assembly	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
901	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	Other	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
902	Hot Water	Low Flow Pre-Rinse Sprayers	Biz-Custom	BSS	ROB	88%	31%	38%	46%	53%	60%	67%	72%	77%	80%	83%	85%	87%	88%	88%	88%	88%	88%	88%	88%	88%
903	Hot Water	Custom Hot Water	Biz-Custom	Education	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
904	Hot Water	Custom Hot Water	Biz-Custom	Food Sales	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
905	Hot Water	Custom Hot Water	Biz-Custom	Health	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
906	Hot Water	Custom Hot Water	Biz-Custom	Lodging	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
907	Hot Water	Custom Hot Water	Biz-Custom	Office	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
908	Hot Water	Custom Hot Water	Biz-Custom	Food Service	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
909	Hot Water	Custom Hot Water	Biz-Custom	Retail	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
910	Hot Water	Custom Hot Water	Biz-Custom	Warehouse	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
911	Hot Water	Custom Hot Water	Biz-Custom	Assembly	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
912	Hot Water	Custom Hot Water	Biz-Custom	Other	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
913	Hot Water	Custom Hot Water	Biz-Custom	BSS	RET	26%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
914	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Education	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
915	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Sales	RET	43%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
916	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Health	RET	43%	23%	20%	16%	13%	10%	8%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
917	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Lodging	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
918	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Office	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
919	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Food Service	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
920	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Retail	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
921	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Warehouse	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
922	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Assembly	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
923	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	Other	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
924	Misc	Vending Machine Controller - Non-Refrigerated	Biz-Custom	BSS	RET	44%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
925	Misc	Miscellaneous Custom	Biz-Custom	Education	RET	23%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
926	Misc	Miscellaneous Custom	Biz-Custom	Food Sales	RET	23%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
927	Misc	Miscellaneous Custom	Biz-Custom	Health	RET	23%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
928	Misc	Miscellaneous Custom	Biz-Custom	Lodging	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
929	Misc	Miscellaneous Custom	Biz-Custom	Office	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
930	Misc	Miscellaneous Custom	Biz-Custom	Food Service	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
931	Misc	Miscellaneous Custom	Biz-Custom	Retail	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
932	Misc	Miscellaneous Custom	Biz-Custom	Warehouse	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
933	Misc	Miscellaneous Custom	Biz-Custom	Assembly	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
934	Misc	Miscellaneous Custom	Biz-Custom	Other	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
935	Misc	Miscellaneous Custom	Biz-Custom	BSS	RET	24%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
936	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Education	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
937	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Sales	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
938	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Health	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
939	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Lodging	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
940	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Office	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
941	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Food Service	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
942	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Retail	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
943	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Warehouse	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
944	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Assembly	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
945	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-Standard	Other	ROB	45%	34%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
946	Misc	Kitchen Exhaust Hood Demand Ventilation Control System	Biz-BSS	BSS	ROB	45%	37%	39%	41%	42%	43%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
947	Misc	High Efficiency Hand Dryers	Biz-Custom	Education	RET	28%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
948	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Sales	RET	30%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
949	Misc	High Efficiency Hand Dryers	Biz-Custom	Health	RET	28%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
950	Misc	High Efficiency Hand Dryers	Biz-Custom	Lodging	RET	26%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
951	Misc	High Efficiency Hand Dryers	Biz-Custom	Office	RET	26%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
952	Misc	High Efficiency Hand Dryers	Biz-Custom	Food Service	RET	29%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
953	Misc	High Efficiency Hand Dryers	Biz-Custom	Retail	RET	29%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
954	Misc	High Efficiency Hand Dryers	Biz-Custom	Warehouse	RET	26%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
955	Misc	High Efficiency Hand Dryers	Biz-Custom	Assembly	RET	26%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
956	Misc	High Efficiency Hand Dryers	Biz-Custom	Other	RET	26%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
957	Misc	High Efficiency Hand Dryers	Biz-Custom	BSS	RET	26%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
958	Misc	Ozone Commercial Laundry	Biz-Custom	Education	RET	14%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
959	Misc	Ozone Commercial Laundry	Biz-Custom	Food Sales	RET	14%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
960	Misc	Ozone Commercial Laundry	Biz-Custom	Health	RET	14%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
961	Misc	Ozone Commercial Laundry	Biz-Custom	Lodging	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
962	Misc	Ozone Commercial Laundry	Biz-Custom	Office	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
963	Misc	Ozone Commercial Laundry	Biz-Custom	Food Service	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
964	Misc	Ozone Commercial Laundry	Biz-Custom	Retail	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
965	Misc	Ozone Commercial Laundry	Biz-Custom	Warehouse	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
966	Misc	Ozone Commercial Laundry	Biz-Custom	Assembly	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
967	Misc	Ozone Commercial Laundry	Biz-Custom	Other	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
968	Misc	Ozone Commercial Laundry	Biz-Custom	BSS	RET	13%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
969	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Education	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
970	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Sales	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
971	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Health	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
972	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Lodging	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
973	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Office	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
974	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Food Service	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
975	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Retail	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
976	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Warehouse	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
977	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Assembly	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
978	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	Other	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
979	Misc	ENERGY STAR Uninterrupted Power Supply	Biz-Custom	BSS	ROB	76%	72%	74%	75%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%
980	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Education	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
981	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Sales	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
982	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Health	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
983	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Lodging	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
984	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Office	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
985	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Food Service	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
986	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Retail	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
987	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Warehouse	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
988	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Assembly	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
989	Misc	Pool Pump w/ Variable Frequency Drive	Biz-Standard	Other	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
990	Misc	Pool Pump w/ Variable Frequency Drive	Biz-BSS	BSS	ROB	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%
991	Misc	Pool Pump Timer	Biz-Custom	Education	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
992	Misc	Pool Pump Timer	Biz-Custom	Food Sales	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
993	Misc	Pool Pump Timer	Biz-Custom	Health	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
994	Misc	Pool Pump Timer	Biz-Custom	Lodging	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
995	Misc	Pool Pump Timer	Biz-Custom	Office	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
996	Misc	Pool Pump Timer	Biz-Custom	Food Service	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
997	Misc	Pool Pump Timer	Biz-Custom	Retail	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
998	Misc	Pool Pump Timer	Biz-Custom	Warehouse	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
999	Misc	Pool Pump Timer	Biz-Custom	Assembly	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
1000	Misc	Pool Pump Timer	Biz-Custom	Other	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
1001	Misc	Pool Pump Timer	Biz-Custom	BSS	ROB	46%	35%	38%	40%	42%	44%	45%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%	46%
1002	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1003	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1004	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1005	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1006	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1007	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1008	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1009	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1010	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1011	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1012	Plug_Office	Smart Power Strip – Commercial Use	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1013	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1014	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1015	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1016	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1017	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1018	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1019	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1020	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1021	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1022	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1023	Plug_Office	Plug Load Occupancy Sensor	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1024	Plug_Office	Energy Star Server	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1025	Plug_Office	Energy Star Server	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1026	Plug_Office	Energy Star Server	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1027	Plug_Office	Energy Star Server	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1028	Plug_Office	Energy Star Server	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1029	Plug_Office	Energy Star Server	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1030	Plug_Office	Energy Star Server	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1031	Plug_Office	Energy Star Server	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1032	Plug_Office	Energy Star Server	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1033	Plug_Office	Energy Star Server	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1034	Plug_Office	Energy Star Server	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1035	Plug_Office	Server Virtualization	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1036	Plug_Office	Server Virtualization	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1037	Plug_Office	Server Virtualization	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1038	Plug_Office	Server Virtualization	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1039	Plug_Office	Server Virtualization	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1040	Plug_Office	Server Virtualization	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1041	Plug_Office	Server Virtualization	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1042	Plug_Office	Server Virtualization	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1043	Plug_Office	Server Virtualization	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1044	Plug_Office	Server Virtualization	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1045	Plug_Office	Server Virtualization	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1046	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1047	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1048	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1049	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1050	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1051	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1052	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1053	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1054	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1055	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1056	Plug_Office	Electrically Commutated Plug Fans in data centers	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1057	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Education	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1058	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Sales	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1059	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Health	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1060	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Lodging	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1061	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Office	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1062	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Food Service	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1063	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Retail	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1064	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Warehouse	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1065	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Assembly	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1066	Plug_Office	High Efficiency CRAC unit	Biz-Custom	Other	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1067	Plug_Office	High Efficiency CRAC unit	Biz-Custom	BSS	ROB	52%	1%	3%	5%	6%	9%	11%	15%	18%	23%	27%	31%	36%	39%	43%	45%	47%	49%	50%	51%	52%
1068	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1069	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1070	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1071	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1072	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1073	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1074	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1075	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1076	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1077	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1078	Plug_Office	Computer Room Air Conditioner Economizer	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1079	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Education	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1080	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Sales	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1081	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Health	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1082	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Lodging	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1083	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Office	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1084	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Food Service	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1085	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Retail	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1086	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Warehouse	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1087	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Assembly	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1088	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	Other	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1089	Plug_Office	Data Center Hot/Cold Aisle Configuration	Biz-Custom	BSS	RET	52%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1090	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1091	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1092	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1093	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1094	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1095	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1096	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1097	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1098	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1099	Refrigeration	Strip Curtains, Cooler	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1100	Refrigeration	Strip Curtains, Cooler	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1101	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1102	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1103	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1104	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1105	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1106	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1107	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1108	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1109	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1110	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1111	Refrigeration	Automated Door Closer for Refrigerator	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1112	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1113	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1114	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1115	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1116	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1117	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1118	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1119	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1120	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1121	Refrigeration	Strip Curtains, Freezer	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1122	Refrigeration	Strip Curtains, Freezer	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1123	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1124	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1125	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1126	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1127	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1128	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1129	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1130	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1131	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1132	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1133	Refrigeration	Automated Door Closer for Freezer	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1134	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1135	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1136	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1137	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1138	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1139	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1140	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1141	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1142	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1143	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1144	Refrigeration	Electronically Commutated (EC) Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1145	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Education	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1146	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1147	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Health	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1148	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1149	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Office	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1150	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1151	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Retail	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1152	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1153	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1154	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	Other	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1155	Refrigeration	Q-Sync Motor for Walk-In Evaporator Fan Motor	Biz-Custom	BSS	RET	68%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1156	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1157	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1158	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1159	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1160	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1161	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1162	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1163	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1164	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1165	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1166	Refrigeration	Evaporator Fan Motor Controls	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1167	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Education	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1168	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Sales	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1169	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Health	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1170	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Lodging	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1171	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Office	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1172	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Food Service	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1173	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Retail	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1174	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Warehouse	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1175	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Assembly	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1176	Refrigeration	Floating Head Pressure Controls	Biz-Custom	Other	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1177	Refrigeration	Floating Head Pressure Controls	Biz-Custom	BSS	RET	43%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1178	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1179	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1180	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1181	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1182	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1183	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1184	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1185	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1186	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1187	Refrigeration	Door Heater Controls for Cooler	Biz-Standard	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1188	Refrigeration	Door Heater Controls for Cooler	Biz-BSS	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1189	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Education	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1190	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Sales	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1191	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Health	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1192	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Lodging	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1193	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Office	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1194	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Food Service	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1195	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Retail	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1196	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Warehouse	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1197	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Assembly	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1198	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	Other	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1199	Refrigeration	Zero Energy Doors for Refrigerated Cases	Biz-Custom	BSS	RET	42%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1200	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1201	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1202	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1203	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1204	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1205	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1206	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1207	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1208	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1209	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1210	Refrigeration	Display Case Door Retrofit, Medium Temp	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1211	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1212	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1213	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1214	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1215	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1216	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1217	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1218	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1219	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1220	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1221	Refrigeration	Aerofoils for Open Display Cases	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1222	Refrigeration	Night Covers for Coolers	Biz-Custom	Education	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1223	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Sales	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1224	Refrigeration	Night Covers for Coolers	Biz-Custom	Health	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1225	Refrigeration	Night Covers for Coolers	Biz-Custom	Lodging	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1226	Refrigeration	Night Covers for Coolers	Biz-Custom	Office	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1227	Refrigeration	Night Covers for Coolers	Biz-Custom	Food Service	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1228	Refrigeration	Night Covers for Coolers	Biz-Custom	Retail	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1229	Refrigeration	Night Covers for Coolers	Biz-Custom	Warehouse	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1230	Refrigeration	Night Covers for Coolers	Biz-Custom	Assembly	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1231	Refrigeration	Night Covers for Coolers	Biz-Custom	Other	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1232	Refrigeration	Night Covers for Coolers	Biz-Custom	BSS	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1233	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Education	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1234	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Sales	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1235	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Health	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1236	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Lodging	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1237	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Office	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1238	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Food Service	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1239	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Retail	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1240	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Warehouse	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1241	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Assembly	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1242	Refrigeration	Door Heater Controls for Freezer	Biz-Standard	Other	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1243	Refrigeration	Door Heater Controls for Freezer	Biz-BSS	BSS	ROB	30%	1%	2%	3%	4%	5%	7%	8%	11%	13%	16%	18%	21%	23%	25%	26%	27%	28%	29%	30%	30%
1244	Refrigeration	Night Covers for Freezers	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1245	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1246	Refrigeration	Night Covers for Freezers	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1247	Refrigeration	Night Covers for Freezers	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1248	Refrigeration	Night Covers for Freezers	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1249	Refrigeration	Night Covers for Freezers	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1250	Refrigeration	Night Covers for Freezers	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1251	Refrigeration	Night Covers for Freezers	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1252	Refrigeration	Night Covers for Freezers	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1253	Refrigeration	Night Covers for Freezers	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1254	Refrigeration	Night Covers for Freezers	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1255	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1256	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1257	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1258	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1259	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1260	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1261	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1262	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1263	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1264	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1265	Refrigeration	Electronically Commutated (EC) Reach-In Evaporator Fan Motor	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1266	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Education	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1267	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Sales	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1268	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Health	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1269	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Lodging	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1270	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Office	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1271	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Food Service	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1272	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Retail	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1273	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Warehouse	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1274	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Assembly	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1275	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	Other	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1276	Refrigeration	Q-Sync Motor for Reach-In Evaporator Fan Motor	Biz-Custom	BSS	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1277	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Education	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1278	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Sales	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1279	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Health	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1280	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Lodging	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1281	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Office	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1282	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Food Service	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1283	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Retail	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1284	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Warehouse	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1285	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Assembly	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1286	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	Other	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1287	Refrigeration	LED Refrigerated Display Case Lighting Average 6W/LF	Biz-Custom	BSS	ROB	44%	1%	2%	4%	5%	7%	10%	12%	16%	19%	23%	27%	30%	33%	36%	38%	40%	42%	43%	43%	44%
1288	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Education	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1289	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Sales	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1290	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Health	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1291	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Lodging	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1292	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Office	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1293	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Food Service	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1294	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Retail	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1295	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Warehouse	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1296	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Assembly	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1297	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-Standard	Other	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1298	Refrigeration	Solid/Glass ENERGY STAR Refrigerator	Biz-BSS	BSS	ROB	50%	1%	3%	4%	6%	8%	11%	14%	18%	22%	26%	30%	34%	38%	41%	44%	46%	47%	48%	49%	50%
1299	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Education	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1300	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Sales	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1301	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Health	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1302	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Lodging	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1303	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Office	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1304	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Food Service	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1305	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Retail	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1306	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Warehouse	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1307	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Assembly	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1308	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-Standard	Other	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1309	Refrigeration	Solid/Glass ENERGY STAR Freezer	Biz-BSS	BSS	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1310	Refrigeration	Commercial Ice Maker	Biz-Custom	Education	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1311	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Sales	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1312	Refrigeration	Commercial Ice Maker	Biz-Custom	Health	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1313	Refrigeration	Commercial Ice Maker	Biz-Custom	Lodging	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1314	Refrigeration	Commercial Ice Maker	Biz-Custom	Office	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1315	Refrigeration	Commercial Ice Maker	Biz-Custom	Food Service	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1316	Refrigeration	Commercial Ice Maker	Biz-Custom	Retail	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1317	Refrigeration	Commercial Ice Maker	Biz-Custom	Warehouse	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1318	Refrigeration	Commercial Ice Maker	Biz-Custom	Assembly	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1319	Refrigeration	Commercial Ice Maker	Biz-Custom	Other	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1320	Refrigeration	Commercial Ice Maker	Biz-Custom	BSS	ROB	60%	1%	3%	5%	7%	10%	13%	17%	21%	26%	31%	36%	41%	45%	49%	52%	55%	57%	58%	59%	60%
1321	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Education	ROB	38%	1%	2%	3%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	37%	38%
1322	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Sales	ROB	38%	1%	2%	3%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	37%	38%
1323	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Health	ROB	38%	1%	2%	3%	5%	6%	8%	11%	13%	16%	20%	23%	26%	29%	31%	33%	35%	36%	37%	37%	38%
1324	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Lodging	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1325	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Office	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1326	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Food Service	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1327	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Retail	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1328	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Warehouse	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1329	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Assembly	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1330	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	Other	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1331	Refrigeration	ESTAR Refrigerated Vending Machine	Biz-Custom	BSS	ROB	39%	1%	2%	3%	5%	6%	8%	11%	14%	17%	20%	23%	26%	29%	32%	34%	35%	36%	37%	38%	39%
1332	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1333	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1334	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1335	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1336	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1337	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1338	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1339	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1340	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1341	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1342	Refrigeration	Refrigerated Vending Machine Controls	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1343	Refrigeration	Refrigeration - Custom	Biz-Custom	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1344	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1345	Refrigeration	Refrigeration - Custom	Biz-Custom	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1346	Refrigeration	Refrigeration - Custom	Biz-Custom	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1347	Refrigeration	Refrigeration - Custom	Biz-Custom	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1348	Refrigeration	Refrigeration - Custom	Biz-Custom	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1349	Refrigeration	Refrigeration - Custom	Biz-Custom	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1350	Refrigeration	Refrigeration - Custom	Biz-Custom	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1351	Refrigeration	Refrigeration - Custom	Biz-Custom	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1352	Refrigeration	Refrigeration - Custom	Biz-Custom	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1353	Refrigeration	Refrigeration - Custom	Biz-Custom	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1354	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Education	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1355	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Sales	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1356	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Health	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1357	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Lodging	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1358	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Office	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1359	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Food Service	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1360	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Retail	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1361	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Warehouse	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1362	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Assembly	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1363	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	Other	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1364	Refrigeration	Retro-commissioning_Refrigerator Optimization	Biz-Custom RCx	BSS	RET	44%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1365	Ventilation	Demand Controlled Ventilation	Biz-Standard	Education	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1366	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Sales	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1367	Ventilation	Demand Controlled Ventilation	Biz-Standard	Health	RET	32%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1368	Ventilation	Demand Controlled Ventilation	Biz-Standard	Lodging	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1369	Ventilation	Demand Controlled Ventilation	Biz-Standard	Office	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1370	Ventilation	Demand Controlled Ventilation	Biz-Standard	Food Service	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1371	Ventilation	Demand Controlled Ventilation	Biz-Standard	Retail	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1372	Ventilation	Demand Controlled Ventilation	Biz-Standard	Warehouse	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1373	Ventilation	Demand Controlled Ventilation	Biz-Standard	Assembly	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1374	Ventilation	Demand Controlled Ventilation	Biz-Standard	Other	RET	29%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1375	Ventilation	Demand Controlled Ventilation	Biz-BSS	BSS	RET	11%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1376	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Education	RET	38%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1377	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Sales	RET	47%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1378	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Health	RET	38%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1379	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Lodging	RET	38%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1380	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Office	RET	39%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1381	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Food Service	RET	47%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1382	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Retail	RET	37%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1383	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Warehouse	RET	38%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1384	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Assembly	RET	38%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1385	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-Standard	Other	RET	30%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1386	Ventilation	Pump and Fan Variable Frequency Drive Controls (Fans)	Biz-BSS	BSS	RET	22%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1387	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Education	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1388	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Sales	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1389	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Health	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1390	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Lodging	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1391	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Office	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1392	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Food Service	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1393	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Retail	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1394	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Warehouse	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1395	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Assembly	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1396	Ventilation	High Volume Low Speed Fan, 20	Biz-Standard	Other	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1397	Ventilation	High Volume Low Speed Fan, 20	Biz-BSS	BSS	RET	36%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1398	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Education	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1399	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Sales	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1400	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Health	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1401	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Lodging	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1402	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Office	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1403	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Food Service	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1404	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Retail	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1405	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Warehouse	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1406	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Assembly	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1407	Ventilation	High Volume Low Speed Fan, 22	Biz-Standard	Other	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1408	Ventilation	High Volume Low Speed Fan, 22	Biz-BSS	BSS	RET	20%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1409	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Education	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1410	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Sales	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1411	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Health	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1412	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Lodging	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1413	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Office	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1414	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Food Service	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1415	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Retail	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1416	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Warehouse	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1417	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Assembly	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1418	Ventilation	High Volume Low Speed Fan, 24	Biz-Standard	Other	RET	36%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1419	Ventilation	High Volume Low Speed Fan, 24	Biz-BSS	BSS	RET	20%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1420	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Education	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1421	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Sales	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1422	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Health	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1423	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Lodging	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1424	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Office	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1425	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Food Service	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1426	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Retail	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1427	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Warehouse	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1428	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Assembly	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1429	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-Standard	Other	RET	44%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1430	Ventilation	Pump and Fan Variable Frequency Drive Controls (Pumps)	Biz-BSS	BSS	RET	30%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1431	Ventilation	Cogged V-Belt	Biz-Custom	Education	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1432	Ventilation	Cogged V-Belt	Biz-Custom	Food Sales	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1433	Ventilation	Cogged V-Belt	Biz-Custom	Health	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1434	Ventilation	Cogged V-Belt	Biz-Custom	Lodging	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1435	Ventilation	Cogged V-Belt	Biz-Custom	Office	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1436	Ventilation	Cogged V-Belt	Biz-Custom	Food Service	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1437	Ventilation	Cogged V-Belt	Biz-Custom	Retail	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1438	Ventilation	Cogged V-Belt	Biz-Custom	Warehouse	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1439	Ventilation	Cogged V-Belt	Biz-Custom	Assembly	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1440	Ventilation	Cogged V-Belt	Biz-Custom	Other	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1441	Ventilation	Cogged V-Belt	Biz-Custom	BSS	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1442	Ventilation	Switch Reluctance Motors	Biz-Custom	Education	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1443	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Sales	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1444	Ventilation	Switch Reluctance Motors	Biz-Custom	Health	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1445	Ventilation	Switch Reluctance Motors	Biz-Custom	Lodging	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1446	Ventilation	Switch Reluctance Motors	Biz-Custom	Office	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1447	Ventilation	Switch Reluctance Motors	Biz-Custom	Food Service	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1448	Ventilation	Switch Reluctance Motors	Biz-Custom	Retail	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1449	Ventilation	Switch Reluctance Motors	Biz-Custom	Warehouse	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1450	Ventilation	Switch Reluctance Motors	Biz-Custom	Assembly	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1451	Ventilation	Switch Reluctance Motors	Biz-Custom	Other	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1452	Ventilation	Switch Reluctance Motors	Biz-Custom	BSS	RET	36%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1453	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Education	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1454	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Sales	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1455	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Health	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1456	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Lodging	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1457	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Office	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1458	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Food Service	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1459	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Retail	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1460	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Warehouse	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1461	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Assembly	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1462	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	Other	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1463	WholeBldg_HVAC	Retro-commissioning_Bld Optimization	Biz-Custom RCx	BSS	RET	44%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1464	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Education	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1465	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Sales	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1466	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Health	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1467	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Lodging	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1468	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Office	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1469	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Food Service	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1470	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Retail	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1471	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Warehouse	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1472	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Assembly	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1473	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	Other	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1474	WholeBldg_HVAC	HVAC - Energy Management System	Biz-Custom	BSS	RET	44%	15%	15%	14%	13%	11%	9%	7%	6%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1475	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Education	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1476	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Sales	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1477	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Health	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1478	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Lodging	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1479	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Office	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1480	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Food Service	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1481	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Retail	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1482	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Warehouse	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1483	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Assembly	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1484	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	Other	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1485	WholeBldg_HVAC	Guest room energy management system	Biz-Custom	BSS	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1486	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Education	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1487	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Sales	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1488	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Health	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1489	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Lodging	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1490	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Office	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1491	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Food Service	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1492	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Retail	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1493	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Warehouse	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1494	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Assembly	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1495	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	Other	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1496	WholeBldg_HVAC	High Efficiency Dedicated Outdoor Air System (DOAS)	Biz-Custom	BSS	RET	44%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1497	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Education	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1498	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Sales	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1499	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Health	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1500	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Lodging	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1501	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Office	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1502	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Food Service	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1503	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Retail	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1504	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Warehouse	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1505	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Assembly	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1506	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	Other	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1507	WholeBldg_HVAC	Commercial Weatherstripping	Biz-Custom	BSS	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1508	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Education	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1509	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Sales	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1510	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Health	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1511	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Lodging	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1512	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Office	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1513	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Food Service	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1514	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Retail	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1515	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Warehouse	RET	43%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1516	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Assembly	RET	44%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1517	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	Other	RET	43%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1518	WholeBldg_HVAC	Commercial Cool Roofs	Biz-Custom	BSS	RET	43%	6%	7%	9%	10%	10%	10%	10%	9%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%
1519	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Education	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1520	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Sales	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1521	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Health	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1522	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Lodging	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1523	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Office	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1524	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Food Service	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1525	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Retail	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1526	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Warehouse	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1527	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Assembly	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1528	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	Other	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1529	WholeBldg	Power Distribution Equipment Upgrades (Transformers)	Biz-Custom	BSS	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1530	WholeBldg	WholeBlg - Com RET	Biz-Custom	Education	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1531	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Sales	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1532	WholeBldg	WholeBlg - Com RET	Biz-Custom	Health	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1533	WholeBldg	WholeBlg - Com RET	Biz-Custom	Lodging	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1534	WholeBldg	WholeBlg - Com RET	Biz-Custom	Office	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1535	WholeBldg	WholeBlg - Com RET	Biz-Custom	Food Service	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1536	WholeBldg	WholeBlg - Com RET	Biz-Custom	Retail	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1537	WholeBldg	WholeBlg - Com RET	Biz-Custom	Warehouse	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1538	WholeBldg	WholeBlg - Com RET	Biz-Custom	Assembly	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1539	WholeBldg	WholeBlg - Com RET	Biz-Custom	Other	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1540	WholeBldg	WholeBlg - Com RET	Biz-Custom	BSS	RET	36%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1541	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Education	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1542	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Sales	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1543	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Health	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1544	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Lodging	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1545	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Office	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1546	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Food Service	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1547	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Retail	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1548	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Warehouse	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1549	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Assembly	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1550	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	Other	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1551	WholeBldg	WholeBlg - Custom (Other)	Biz-Custom	BSS	RET	36%	12%	13%	13%	12%	11%	10%	8%	6%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1552	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Education	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1553	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Sales	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1554	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Health	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1555	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Lodging	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1556	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Office	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1557	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Food Service	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1558	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Retail	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1559	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Warehouse	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1560	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Assembly	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1561	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	Other	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1562	WholeBldg_NC	WholeBlg - Com NC	Biz-Custom	BSS	NEW	68%	51%	56%	59%	62%	64%	66%	67%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
1563	WholeBldg	COM Competitions	Biz-Custom	Education	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1564	WholeBldg	COM Competitions	Biz-Custom	Food Sales	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1565	WholeBldg	COM Competitions	Biz-Custom	Health	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1566	WholeBldg	COM Competitions	Biz-Custom	Lodging	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1567	WholeBldg	COM Competitions	Biz-Custom	Office	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1568	WholeBldg	COM Competitions	Biz-Custom	Food Service	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1569	WholeBldg	COM Competitions	Biz-Custom	Retail	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1570	WholeBldg	COM Competitions	Biz-Custom	Warehouse	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1571	WholeBldg	COM Competitions	Biz-Custom	Assembly	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1572	WholeBldg	COM Competitions	Biz-Custom	Other	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1573	WholeBldg	COM Competitions	Biz-Custom	BSS	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1574	WholeBldg	Business Energy Reports	Biz-Custom	Education	RET	30%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1575	WholeBldg	Business Energy Reports	Biz-Custom	Food Sales	RET	30%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1576	WholeBldg	Business Energy Reports	Biz-Custom	Health	RET	30%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1577	WholeBldg	Business Energy Reports	Biz-Custom	Lodging	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1578	WholeBldg	Business Energy Reports	Biz-Custom	Office	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1579	WholeBldg	Business Energy Reports	Biz-Custom	Food Service	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1580	WholeBldg	Business Energy Reports	Biz-Custom	Retail	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1581	WholeBldg	Business Energy Reports	Biz-Custom	Warehouse	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1582	WholeBldg	Business Energy Reports	Biz-Custom	Assembly	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1583	WholeBldg	Business Energy Reports	Biz-Custom	Other	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1584	WholeBldg	Business Energy Reports	Biz-Custom	BSS	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1585	WholeBldg	Building Benchmarking	Biz-Custom	Education	RET	30%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1586	WholeBldg	Building Benchmarking	Biz-Custom	Food Sales	RET	30%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1587	WholeBldg	Building Benchmarking	Biz-Custom	Health	RET	30%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1588	WholeBldg	Building Benchmarking	Biz-Custom	Lodging	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1589	WholeBldg	Building Benchmarking	Biz-Custom	Office	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1590	WholeBldg	Building Benchmarking	Biz-Custom	Food Service	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1591	WholeBldg	Building Benchmarking	Biz-Custom	Retail	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1592	WholeBldg	Building Benchmarking	Biz-Custom	Warehouse	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1593	WholeBldg	Building Benchmarking	Biz-Custom	Assembly	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1594	WholeBldg	Building Benchmarking	Biz-Custom	Other	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1595	WholeBldg	Building Benchmarking	Biz-Custom	BSS	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1596	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Education	RET	38%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1597	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Sales	RET	30%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1598	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Health	RET	30%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1599	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Lodging	RET	32%	4%	4%	4%	5%	7%	8%	9%	9%	9%	9%	8%	7%	5%	4%	3%	3%	2%	1%	0%	0%
1600	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Office	RET	32%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1601	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Food Service	RET	32%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1602	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Retail	RET	32%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1603	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Warehouse	RET	32%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1604	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Assembly	RET	32%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1605	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Other	RET	32%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1606	WholeBldg	Strategic Energy Management	Biz-Custom SEM	BSS	RET	32%	3%	4%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%	0%
1607	WholeBldg	BEIMS	Biz-Custom	Education	RET	38%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1608	WholeBldg	BEIMS	Biz-Custom	Food Sales	RET	28%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1609	WholeBldg	BEIMS	Biz-Custom	Health	RET	28%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1610	WholeBldg	BEIMS	Biz-Custom	Lodging	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1611	WholeBldg	BEIMS	Biz-Custom	Office	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1612	WholeBldg	BEIMS	Biz-Custom	Food Service	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1613	WholeBldg	BEIMS	Biz-Custom	Retail	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1614	WholeBldg	BEIMS	Biz-Custom	Warehouse	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1615	WholeBldg	BEIMS	Biz-Custom	Assembly	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1616	WholeBldg	BEIMS	Biz-Custom	Other	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1617	WholeBldg	BEIMS	Biz-Custom	BSS	RET	29%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1618	WholeBldg	Building Operator Certification	Biz-Custom	Education	RET	38%	4%	5%	6%	7%	8%	9%	9%	9%	9%	8%	7%	6%	5%	4%	3%	2%	1%	0%	0%	0%
1619	WholeBldg	Building Operator Certification	Biz-Custom	Food Sales	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1620	WholeBldg	Building Operator Certification	Biz-Custom	Health	RET	31%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1621	WholeBldg	Building Operator Certification	Biz-Custom	Lodging	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1622	WholeBldg	Building Operator Certification	Biz-Custom	Office	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1623	WholeBldg	Building Operator Certification	Biz-Custom	Food Service	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1624	WholeBldg	Building Operator Certification	Biz-Custom	Retail	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1625	WholeBldg	Building Operator Certification	Biz-Custom	Warehouse	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1626	WholeBldg	Building Operator Certification	Biz-Custom	Assembly	RET	32%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1627	WholeBldg	Building Operator Certification	Biz-Custom	Other	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1628	WholeBldg	Building Operator Certification	Biz-Custom	BSS	RET	33%	2%	3%	3%	4%	4%	5%	6%	7%	8%	9%	9%	8%	7%	6%	5%	4%	3%	2%	2%	1%
1629	Cooking	Advanced Cooking	Biz-Custom	Education	RET	13%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%

Measure #	End-Use	Measure Name	Program	Building Type	Replacement Type	Ultimate Adoption Rate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
1630	Cooking	Advanced Cooking	Biz-Custom	Food Sales	RET	13%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1631	Cooking	Advanced Cooking	Biz-Custom	Health	RET	13%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1632	Cooking	Advanced Cooking	Biz-Custom	Lodging	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1633	Cooking	Advanced Cooking	Biz-Custom	Office	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1634	Cooking	Advanced Cooking	Biz-Custom	Food Service	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1635	Cooking	Advanced Cooking	Biz-Custom	Retail	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1636	Cooking	Advanced Cooking	Biz-Custom	Warehouse	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1637	Cooking	Advanced Cooking	Biz-Custom	Assembly	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1638	Cooking	Advanced Cooking	Biz-Custom	Other	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1639	Cooking	Advanced Cooking	Biz-Custom	BSS	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1640	Lighting_Int	Advanced Lighting	Biz-Custom	Education	RET	17%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1641	Lighting_Int	Advanced Lighting	Biz-Custom	Food Sales	RET	17%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1642	Lighting_Int	Advanced Lighting	Biz-Custom	Health	RET	17%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1643	Lighting_Int	Advanced Lighting	Biz-Custom	Lodging	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1644	Lighting_Int	Advanced Lighting	Biz-Custom	Office	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1645	Lighting_Int	Advanced Lighting	Biz-Custom	Food Service	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1646	Lighting_Int	Advanced Lighting	Biz-Custom	Retail	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1647	Lighting_Int	Advanced Lighting	Biz-Custom	Warehouse	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1648	Lighting_Int	Advanced Lighting	Biz-Custom	Assembly	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1649	Lighting_Int	Advanced Lighting	Biz-Custom	Other	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1650	Lighting_Int	Advanced Lighting	Biz-Custom	BSS	RET	19%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1651	Plug_Office	Advanced IT	Biz-Custom	Education	RET	30%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1652	Plug_Office	Advanced IT	Biz-Custom	Food Sales	RET	30%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1653	Plug_Office	Advanced IT	Biz-Custom	Health	RET	30%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1654	Plug_Office	Advanced IT	Biz-Custom	Lodging	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1655	Plug_Office	Advanced IT	Biz-Custom	Office	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1656	Plug_Office	Advanced IT	Biz-Custom	Food Service	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1657	Plug_Office	Advanced IT	Biz-Custom	Retail	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1658	Plug_Office	Advanced IT	Biz-Custom	Warehouse	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1659	Plug_Office	Advanced IT	Biz-Custom	Assembly	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1660	Plug_Office	Advanced IT	Biz-Custom	Other	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1661	Plug_Office	Advanced IT	Biz-Custom	BSS	RET	33%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1662	Refrigeration	Advanced Refrigeration	Biz-Custom	Education	RET	13%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1663	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Sales	RET	13%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1664	Refrigeration	Advanced Refrigeration	Biz-Custom	Health	RET	13%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1665	Refrigeration	Advanced Refrigeration	Biz-Custom	Lodging	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1666	Refrigeration	Advanced Refrigeration	Biz-Custom	Office	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1667	Refrigeration	Advanced Refrigeration	Biz-Custom	Food Service	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1668	Refrigeration	Advanced Refrigeration	Biz-Custom	Retail	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1669	Refrigeration	Advanced Refrigeration	Biz-Custom	Warehouse	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1670	Refrigeration	Advanced Refrigeration	Biz-Custom	Assembly	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1671	Refrigeration	Advanced Refrigeration	Biz-Custom	Other	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1672	Refrigeration	Advanced Refrigeration	Biz-Custom	BSS	RET	14%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1673	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Education	RET	28%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1674	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Sales	RET	28%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1675	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Health	RET	28%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1676	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Lodging	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1677	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Office	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1678	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Food Service	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1679	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Retail	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1680	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Warehouse	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1681	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Assembly	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1682	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	Other	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1683	WholeBldg_HVAC	Advanced HVAC	Biz-Custom	BSS	RET	29%	1%	2%	2%	3%	2%	2%	3%	3%	4%	4%	5%	5%	5%	6%	6%	6%	6%	5%	5%	5%
1684	Water_WW	Water Supply & Wastewater treatment pumps and process efficiency	Biz-Custom	Industrial	RET	40%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1685	Compressed Air	Efficient Air Compressor Equipment	Biz-Custom	Industrial	ROB	40%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%	40%	40%	40%	40%	40%	40%	40%
1686	Compressed Air	Efficient Air Compressor Controls	Biz-Custom	Industrial	RET	40%	10%	11%	12%	12%	11%	10%	9%	7%	6%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1687	HVAC	Efficient HVAC Equipment	Biz-Custom	Industrial	ROB	40%	27%	30%	33%	35%	36%	38%	39%	39%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
1688	HVAC	Efficient HVAC O&M	Biz-Custom	Industrial	RET	40%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1689	Lighting_Int	Efficient Lighting Equipment	Biz-Standard	Industrial	RET	72%	18%	17%	15%	13%	11%	9%	7%	5%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1690	Lighting_Int	Efficient Lighting O&M	Biz-Custom	Industrial	RET	40%	8%	9%	10%	11%	11%	10%	9%	8%	7%	5%	4%	3%	2%	2%	0%	0%	0%	0%	0%	0%
1691	Motors	Efficient MachDr Equipment	Biz-Custom	Industrial	ROB	40%	7%	9%	11%	14%	17%	21%	24%	27%	30%	33%	35%	36%	38%	39%	39%	40%	40%	40%	40%	40%
1692	Motors	Efficient MachDr O&M	Biz-Custom	Industrial	RET	40%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1693	Process Heat	Efficient ProcHeat Equipment	Biz-Custom	Industrial	ROB	40%	27%	30%	33%	35%	36%	38%	39%	39%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
1694	Process Heat	Efficient ProcHeat O&M	Biz-Custom	Industrial	RET	40%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1695	Process Refrig	Efficient ProcRefrig Equipment	Biz-Custom	Industrial	ROB	40%	27%	30%	33%	35%	36%	38%	39%	39%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
1696	Process Refrig	Efficient ProcRefrig O&M	Biz-Custom	Industrial	RET	40%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1697	Process Other	Efficient Other Facility Process Equipment	Biz-Custom	Industrial	ROB	40%	27%	30%	33%	35%	36%	38%	39%	39%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
1698	Process Other	Efficient Other Facility Process O&M	Biz-Custom	Industrial	RET	40%	20%	18%	16%	13%	10%	8%	6%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1699	WholeBldg	Power Distribution (Transformers)	Biz-Custom	Industrial	RET	40%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%
1700	WholeBldg	Strategic Energy Management	Biz-Custom SEM	Industrial	RET	30%	5%	6%	7%	8%	9%	10%	10%	9%	8%	7%	6%	5%	4%	3%	2%	2%	0%	0%	0%	0%

APPENDIX E. DEMAND RESPONSE DETAILS

DR Program Option	Assumption	Value	Source
DLC Thermostat (Current Residential DR / Peak Time Savings Program)	# of Control Units per Participant	1.24	Devices/customer (66,600/53,800)
	# of Current Enrolled Devices - Res	66,600 devices; 53,800 enrolled accounts	Call with Ameren on 11/6
	Participant Annual Incentive - Res MAP	$45/participant-year	Based on WTP research
	Participant Annual Incentive - Res RAP	$25/partcipant-year	Ameren MO program
	Participant Annual Incentive - C&I MAP	$97/participant-year	Assume same MAP/RAP ratio as residential
	Participant Annual Incentive - C&I RAP	$54/participant-year	Puget Sound Energy 2023, Xcel Energy 2022, Entergy AR program, PEPCO program
	Annual Number of Control Hours	80	Ameren MO program. Max of 20 events per year, 4 hours each. https://www.ameren.com/-/media/rates/files/missouri/uec_dr_res_residential_demand_response_settlement.ashx?utm_source=chatgpt.com
	Per Participant Load Reduction - Summer - Res	0.76 kW	Ameren MO Evaluation 2024. Average of test and staggered summer events. Takes into account opt out participants.
	Per Participant Load Reduction - Winter - Res	1.14 kW	Ameren MO Evaluation 2024. Average of winter events.
	Per Participant Load Reduction - Summer - C&I	1.949 kW	CenterPoint IN 2021, Xcel Energy 2022, Puget Sound Energy 2023, Pacificorp 2019
	Per Participant Load Reduction - Winter - C&I	2.542 kW	Puget Sound Energy 2023, Pacificorp 2019
	Control Equipment Useful Life	11 years	Illinois TRM v13
	Utility Per Unit Equipment/ Labor Cost	0	Equipment costs included in EE program.
	Participant Share of Equipment/Labor Cost - Res	$0	Equipment costs included in EE program.
	Participant Share of Equipment/Labor Cost - C&I	$0	Equipment costs included in EE program.
	One Time Incentive - Res	$50/new participant	Ameren MO program
	One Time Incentive - C&I	$50/new participant	Assumes sames as residential
	Admin cost per customer	$100/participant	Average of Ameren MO admin/delivery spending per participant in 2024 and expected spending in 2025 in submittal tool
	Participation Rate MAP Res	22%	Ameren MO WTP Research 2025
	Participation Rate RAP Res	17%	Ameren MO WTP Research 2025
	Participation Rate MAP C&I	25%	Puget Sound Energy 2023
	Participation Rate RAP C&I	14%	Ameren MO WTP Research 2025
	Saturation Res	91.5% with Central AC; 49.4% with electric space heating; 92% with internet access; 26.7% already have smart thermostat	2025 Ameren MO Baseline Study; RECS data, West North Central region.
	Saturation C&I	62.9% with Central AC; 33.2% with Electric Space Heating	CBECS data, West North Central region.
DLC Water Heater Switch	# of Control Units per Participant	1	
	Participant Annual Incentive - Res	$30/participant-year	Puget Sound Energy 2023, BPA 2021, Xcel Energy 2022, Pacificorp 2023, SCE program, Florida Power Light program, AES IN program
	Participant Annual Incentive - C&I	$30/participant-year	Pacificorp 2023
	Annual Number of Control Hours	80	Assumes same as existing DLC Thermostat program. Max of 20 events per year, 4 hours each.
	Per Participant Load Reduction - Summer - Res	0.39 kW	NREL 2022, BPA 2021, Puget Sound Energy 2023, CenterPoint IN 2023, Xcel Energy 2022, Pacificorp 2023
	Per Participant Load Reduction - Winter - Res	0.59 kW	NREL 2022, BPA 2021, Puget Sound Energy 2023, AES IN 2023, Xcel Energy 2022, Pacificorp 2023
	Per Participant Load Reduction - Summer - C&I	1.5	Pacificorp 2019
	Per Participant Load Reduction - Winter - C&I	1.5	Pacificorp 2019
	Control Equipment Useful Life	10 years	Freeman, Sullivan & Co Cost Effectiveness of CECONY Demand Response Programs 2013; PA Act 129 Order 2013
	Utility Per Unit Equipment/ Labor Cost	$330	Puget Sound Energy 2023, BPA 2021, Pacificorp 2023
	Participant Share of Equipment/Labor Cost	$0	
	One Time Incentive Towards Cost of Equipment	$0	
	O&M/Vendor Service Fees per Customer Res	$15/participant	Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	O&M/Vendor Service Fees per Customer C&I	$15/participant	Assume same as residential
	Participation Rate MAP Res	12%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Participation Rate RAP Res	7%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Participation Rate MAP C&I	12%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Participation Rate RAP C&I	7%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Saturation Res	45.60%	2025 Ameren MO Baseline Study
	Saturation C&I	42.69%	CBECS data, West North Central region.

DR Program Option	Assumption	Value	Source
DLC Grid Enabled Water Heater	# of Control Units per Participant	1	
	Participant Annual Incentive - Res	$30/participant-year	Puget Sound Energy 2023, BPA 2021, Xcel Energy 2022, Pacificorp 2023, SCE program, Florida Power Light program, AES IN program
	Participant Annual Incentive - C&I	$30/participant-year	Pacificorp 2023
	Annual Number of Control Hours	80	Assumes same peak hours as existing DLC Thermostat program. Max of 20 events per year, 4 hours each.
	Per Participant Load Reduction - Summer - Res	0.43 kW	NREL 2022, BPA 2021, Puget Sound Energy 2023, Xcel Energy 2022, Pacificorp 2023
	Per Participant Load Reduction - Winter - Res	0.63 kW	NREL 2022, BPA 2021, Puget Sound Energy 2023, Xcel Energy 2022, Pacificorp 2023
	Per Participant Load Reduction - Summer - C&I	1.5	Pacificorp 2019
	Per Participant Load Reduction - Winter - C&I	1.5	Pacificorp 2019
	Control Equipment Useful Life	10 years	Freeman, Sullivan & Co Cost Effectiveness of CECONY Demand Response Programs 2013; PA Act 129 Order 2013
	Utility Per Unit Equipment/ Labor Cost	$50	Cost of control module. Puget Sound Energy 2023, BPA 2021, Pacificorp 2023
	Participant Share of Equipment/Labor Cost	$250	Assuming utility pays rebate for program participation. Costs for 50-gallon electric grid enabled water heaters range from $500-$800. Assumed $650 for mid-range WH.
	One Time Incentive Towards Cost of Equipment	$400	Xcel Energy 2022
	O&M/Vendor Service Fees per Customer Res	$15/participant	Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	O&M/Vendor Service Fees per Customer C&I	$15/participant	Assume same as residential
	Participation Rate MAP Res	12%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Participation Rate RAP Res	7%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Participation Rate MAP C&I	12%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Participation Rate RAP C&I	7%	Ameren MO WTP Research 2025 (split between 2 WH programs)
	Saturation Res	45.6% with electric storage WH; 92% with internet access	2025 Ameren MO Baseline Study; RECS data, West North Central region.
	Saturation C&I	42.69%	CBECS data, West North Central region.
DLC Room AC	# of Control Units per Participant	1.6	2025 Ameren MO Baseline Study
	Existing Participants	0	
	Participant Annual Incentive	$29 for summer only	Average of: Pacificorp 2023, Puget Sound Energy 2022, ComEd program, SCE program (used Central AC incentive)
	Annual Number of Control Hours	60 hours	Assumes 15 events, 4 hours each (summer only)
	Per Participant Load Reduction - Summer - Res	0.213 kW	Pacificorp 2019
	Control Equipment Useful Life	10 years	Freeman, Sullivan & Co Cost Effectiveness of CECONY Demand Response Programs 2013; PA Act 129 Order 2013
	Utility Per Unit Equipment/ Labor Cost - Res	$230/new participant	Average of studies: Puget Sound Energy 2022, BPA 2021, Pacificorp 2023 (assumed same as Central AC)
	Participant Share of Equipment/Labor Cost	$0	N/A
	One Time Incentive Towards Cost of Equipment	$0	N/A
	O&M/Vendor Service Fees per Customer Res	$17/participant-year	Average of studies: Puget Sound Energy 2022, BPA 2021, Pacificorp 2023 (assumed same as Central AC)
	Participation Rate MAP Res	21%	Xcel Energy 2022 (based on Central AC)
	Participation Rate RAP Res	10%	Pacificorp 2021
	Saturation Res	21.70%	2025 Ameren MO Baseline Study
DLC Swimming Pool Pump	# of Control Units per Participant	1	
	Participant Annual Incentive	$12/participant-year	Duke Energy Florida program, Florida Power & Light program
	Annual Number of Control Hours	60 hours	Assumes 15 events, 4 hours each (summer only)
	Per Participant Load Reduction - Summer - Res	0.52 kW	EPRI 2017, Connected Pool Pump Market Assessment 2020
	Control Equipment Useful Life	10 years	Freeman, Sullivan & Co Cost Effectiveness of CECONY Demand Response Programs 2013; PA Act 129 Order 2013
	Utility Per Unit Equipment/ Labor Cost - Res	$141	Pacificorp 2023
	Participant Share of Equipment/Labor Cost	$0	
	One Time Incentive Towards Cost of Equipment	$0	
	O&M/Vendor Service Fees per Customer Res	$17/participant-year	Assume same as room AC
	Participation Rate MAP Res	12%	Assumes same participation rate as WH switch program
	Participation Rate RAP Res	7%	Assumes same participation rate as WH switch program
	Saturation Res	2.80%	2025 Ameren MO Baseline Study

DR Program Option	Assumption	Value	Source
DLC Lighting	# of Control Units per Participant	1	
	Participant Annual Incentive	$200/kW	SCE and PG&E programs
	Annual Number of Control Hours	80	Assumes same peak hours as existing DLC Thermostat program. Max of 20 events per year, 4 hours each.
	Per Participant Load Reduction - Summer - C&I	7.05% of total load	47% lighting savings (California Energy Commission 2019) * 15% lighting load of total load (US DOE/CBECS)
	Per Participant Load Reduction - Winter - C&I	7.05% of total load	47% lighting savings (California Energy Commission 2019) * 15% lighting load of total load (US DOE/CBECS)
	Control Equipment Useful Life	10 years	Freeman, Sullivan & Co Cost Effectiveness of CECONY Demand Response Programs 2013; PA Act 129 Order 2013
	Utility Per Unit Equipment/ Labor Cost	$0	Assumes the participant already has networked lighting controls or is installing them for another purpose. If not, cost would be around $20,000/kW and extremely not cost-effective.
	Participant Share of Equipment/Labor Cost	$0	Assumes the participant already has networked lighting controls or is installing them for another purpose. If not, cost would be around $20,000/kW and extremely not cost-effective.
	One Time Incentive Towards Cost of Equipment	$0	Assumes the participant already has networked lighting controls or is installing them for another purpose. If not, cost would be around $20,000/kW and extremely not cost-effective.
	O&M/Vendor Service Fees per Customer C&I	$484	Used variable costs from California Demand Response Potential Study 2017.
	Participation Rate MAP C&I	28%	Assume same participation rate as Load Curtailment. No participation rates found for DLC Lighting programs.
	Participation Rate RAP C&I	19%	Assume same participation rate as Load Curtailment. No participation rates found for DLC Lighting programs.
	Saturation C&I	Around 1% currently, reaching 33% by end of the study	California Energy Commission 2019. Saturation of networked lighting controls.
DLC Agricultural Irrigation	Participant Annual Incentive	$47/kW-year	SCE program, Pacificorp 2021, BPA 2021. Assumes program runs during summer only (3 months/year).
	Annual Number of Control Hours	60	Based on Idaho Power program. Max of 60 hours for the summer season.
	Per Participant Load Reduction - Summer - C&I	80%	Pacificorp 2023, BPA 2021
	Control Equipment Useful Life	10 years	Freeman, Sullivan & Co Cost Effectiveness of CECONY Demand Response Programs 2013; PA Act 129 Order 2013
	Utility Per Unit Equipment/ Labor Cost	$3.50/kW pledged	Pacificorp 2023, BPA 2021
	Participant Share of Equipment/Labor Cost	$0	
	One Time Incentive Towards Cost of Equipment	$0	
	Admin costs	$60/kW-year	Pacificorp 2019
	O&M/Vendor Service Fees per Customer C&I	$1/kW pledged	BPA 2021
	Participation Rate MAP C&I	50%	BPA 2021
	Participation Rate RAP C&I	33%	Pacificorp 2023
	Number of Irrigated Farms	797	USDA 2023 number of irrigated farms. Used EIA 861 data to apply percentage of Ameren customers to irrigated farms.
EV Time of Use Rate	Participant Annual Incentive	$0	No incentive for rate program
	Annual Number of Control Hours	1043	Assume 4 hrs/week day, year round
	Per Participant Load Reduction - Summer - Res	0.39 kW	SCE 2022, Xcel Energy 2022, ConEdison 2019, SDG&E 2021
	Per Participant Load Reduction - Winter - Res	0.325 kW	Xcel Energy 2022, SDG&E 2021
	Per Participant Load Reduction - Summer - C&I	0.02 kW	Xcel Energy 2022
	Per Participant Load Reduction - Winter - C&I	0.03 kW	Xcel Energy 2022
	Control Equipment Useful Life	10 years	US DOE, Costs Associated with Non-Residential EV Supply Equipment, 2015
	Utility Per Unit Equipment/ Labor Cost	$0	No cost to join rate
	Participant Share of Equipment/Labor Cost	$0	No cost to join rate
	One Time Incentive Towards Cost of Equipment	$0	No cost to join rate
	O&M/Vendor Service Fees per Customer Res	$10/participant-year	Puget Sound Energy 2023, Pacificorp 2023, BPA 2021
	O&M/Vendor Service Fees per Customer C&I	$10/participant-year	Puget Sound Energy 2023, Pacificorp 2023, BPA 2021
	Participation Rate MAP Res	28%	Pacificorp 2019
	Participation Rate RAP Res	20%	Xcel Energy 2022
	Participation Rate MAP C&I	28%	Assumed same as residential
	Participation Rate RAP C&I	20%	Assumed same as residential
	Saturation	100% of EVs	All EVs are eligible to participate

DR Program Option	Assumption	Value	Source
DLC EV	Participant Annual Incentive	$50/participant-year	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Annual Number of Control Hours	80	Assume same as thermostat program
	Per Participant Load Reduction - Summer - Res	2 kW	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Per Participant Load Reduction - Winter - Res	2 kW	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Control Equipment Useful Life	10 years	US DOE, Costs Associated with Non-Residential EV Supply Equipment, 2015
	Utility Per Unit Equipment/ Labor Cost	$0	Assumes level 2 charger controls EV- BYOD program
	Participant Share of Equipment/Labor Cost	$0	Assumes BYOD
	One Time Incentive Towards Cost of Equipment	$39/new participant	Eversource 2021, Delaware Electric Cooperative Beat the Peak program, AES Managed Charging program, Puget Sound 2023, BPA 2021, Pacificorp 2023
	O&M/Vendor Service Fees per Customer Res	$193/participant-year	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Implementation Costs	$110,000	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Admin costs	$80,000	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Evaluation costs	$7,000	DR4 - MEEIA 4 2025-2027_AMOSubTool
	SaaS fee per new EV enrollment	$1797/new participant	DR4 - MEEIA 4 2025-2027_AMOSubTool
	Participation Rate MAP Res	Keep as a pilot program with 150 participants max	Based on discussions with Ameren MO
	Participation Rate RAP Res	Keep as a pilot program with 150 participants max	Based on discussions with Ameren MO
	Saturation	100% of EVs	All EVs are eligible to participate
Time of Use Rate	Participant Annual Incentive	$0	N/A
	# of Participants as of July 2025 - Evening/Morning Savers	928,650	resCustCountsByRateClass_8_15_25 (file from Ameren)
	# of Participants as of July 2025 - Overnight Savers	3,393	resCustCountsByRateClass_8_15_25 (file from Ameren)
	# of Participants as of July 2025 - Smart Savers	2,196	resCustCountsByRateClass_8_15_25 (file from Ameren)
	# of Participants as of July 2025 - Ultimate Savers	1,692	resCustCountsByRateClass_8_15_25 (file from Ameren)
	Annual Number of On-Peak Hours - Evening/Morning Savers	4380	12 hours/day, every day of year https://www.ameren.com/bill/rates/options?utm_medium=vanity&utm_source=tv_radio&utm_campaign=amril_ptbm_rateoptions&utm_content=20240901_powertobeme_myrates_aw_various_x_x
	Annual Number of On-Peak Hours - Overnight Savers	5840	16 hours/day, every day of year https://www.ameren.com/bill/rates/options?utm_medium=vanity&utm_source=tv_radio&utm_campaign=amril_ptbm_rateoptions&utm_content=20240901_powertobeme_myrates_aw_various_x_x
	Annual Number of On-Peak Hours - Smart Savers	1043	4 hours/day, every weekday of year https://www.ameren.com/bill/rates/options?utm_medium=vanity&utm_source=tv_radio&utm_campaign=amril_ptbm_rateoptions&utm_content=20240901_powertobeme_myrates_aw_various_x_x
	Annual Number of On-Peak - Ultimate Savers	1043	4 hours/day, every weekday of year https://www.ameren.com/bill/rates/options?utm_medium=vanity&utm_source=tv_radio&utm_campaign=amril_ptbm_rateoptions&utm_content=20240901_powertobeme_myrates_aw_various_x_x
	Per Participant Load Reduction - Summer - Res - Evening/Morning Savers	0.30%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Summer - Res - Overnight Savers	6.80%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Summer - Res - Smart Savers	11.80%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Summer - Res - Ultimate Savers	12.90%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Winter - Res - Evening/Morning Savers	0.20%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Winter - Res - Overnight Savers	3.50%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Winter - Res - Smart Savers	9.00%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Winter - Res - Ultimate Savers	9.30%	Steven Wills August 2022 testimony (table 4) - confirmed July 2025 that this was still appropriate to use
	Per Participant Load Reduction - Summer - C&I	2.00%	Pacificorp 2023
	Per Participant Load Reduction - Winter - C&I	1.00%	Pacificorp 2023
	Control Equipment Useful Life	20 years	Useful life of smart meter. https://docs.cpuc.ca.gov/published/FINAL_DECISION/58362-07.htm#:~:text=The%20AMI%20system's%20useful%20life%20does%20not,is%20a%20reasonable%20forecast%20for%20the%20purposes
	Utility Per Unit Equipment/ Labor Cost	$0	No cost to join rate
	Participant Share of Equipment/Labor Cost	$0	No cost to join rate

DR Program Option	Assumption	Value	Source
	One Time Incentive Towards Cost of Equipment	$0	No cost to join rate
	O&M/Vendor Service Fees per Customer Res	$0	N/A, utility runs rate programs
	O&M/Vendor Service Fees per Customer C&I	$0	N/A, utility runs rate programs
	Participation Rate MAP Res - Evening/Morning Savers	64.3%	Assumes 90% of all Ameren customers would be on one of the four rates. Preference would on to Overnight, Smart, and Ultimate Savers, and remainder would go on Evening/Morning Savers.
	Participation Rate MAP Res - Overnight Savers	15.3%	Ameren MO WTP Research 2025
	Participation Rate MAP Res - Smart Savers	3.5%	Ameren MO WTP Research 2025
	Participation Rate MAP Res - Ultimate Savers	6.9%	Ameren MO WTP Research 2025
	Participation Rate RAP Res - Evening/Morning Savers	64.3%	Assumes 90% of all Ameren customers would be on one of the four rates. Preference would on to Overnight, Smart, and Ultimate Savers, and remainder would go on Evening/Morning Savers.
	Participation Rate RAP Res - Overnight Savers	15.3%	Ameren MO WTP Research 2025
	Participation Rate RAP Res - Smart Savers	3.5%	Ameren MO WTP Research 2025
	Participation Rate RAP Res - Ultimate Savers	6.9%	Ameren MO WTP Research 2025
	Participation Rate MAP C&I	24.5%	Average of top 10 performing opt-in TOU programs in EIA 861
	Participation Rate RAP C&I	16.0%	Ameren MO WTP Research 2025
	Saturation Res	100%	All customers with a smart meter are eligible
	Saturation C&I	100%	All customers with a smart meter are eligible
Critical Peak Pricing Rate	Participant Annual Incentive	$0	N/A
	Annual Number of Control Hours	80	Assumes same peak hours as existing DLC Thermostat program. Max of 20 events per year, 4 hours each.
	Per Participant Load Reduction - Summer - Res	12.80%	Average of studies: Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	Per Participant Load Reduction - Winter - Res	7.70%	Average of studies: Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	Per Participant Load Reduction - Summer - C&I	7.90%	Average of studies: Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	Per Participant Load Reduction - Winter - C&I	6.00%	Average of studies: Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	Control Equipment Useful Life	20 years	Useful life of smart meter. https://docs.cpuc.ca.gov/published/FINAL_DECISION/58362-07.htm#:~:text=The%20AMI%20system's%20useful%20life%20does%20not,is%20a%20reasonable%20forecast%20for%20the%20purposes
	Utility Per Unit Equipment/ Labor Cost	$0	No cost to join rate
	Participant Share of Equipment/Labor Cost	$0	No cost to join rate
	One Time Incentive Towards Cost of Equipment	$0	No cost to join rate
	O&M/Vendor Service Fees per Customer Res	$0	N/A, utility runs rate programs
	O&M/Vendor Service Fees per Customer C&I	$0	N/A, utility runs rate programs
	Participation Rate MAP Res	20%	OGE program's participation (Brattle Group 2020)
	Participation Rate RAP Res	15%	Pacificorp 2023, Puget Sound Energy 2023, BPA 2021
	Participation Rate MAP C&I	18%	Puget Sound Energy 2023, BPA 2021
	Participation Rate RAP C&I	15%	Pacificorp 2023
	Saturation Res	100%	All customers with a smart meter are eligible
	Saturation C&I	100%	All customers with a smart meter are eligible
Peak Time Rebate	Participant Annual Incentive	$1/kWh saved	ComEd program, Ameren IL program, Delmarva Power program
	Annual Number of Control Hours	80	Assumes same peak hours as existing DLC Thermostat program. Max of 20 events per year, 4 hours each.
	Per Participant Load Reduction - Summer - Res	14%	Pacificorp 2023, PGE 2018 Pilot Study
	Per Participant Load Reduction - Winter - Res	8%	Pacificorp 2023, PGE 2018 Pilot Study
	Control Equipment Useful Life	20 years	Useful life of smart meter. https://docs.cpuc.ca.gov/published/FINAL_DECISION/58362-07.htm#:~:text=The%20AMI%20system's%20useful%20life%20does%20not,is%20a%20reasonable%20forecast%20for%20the%20purposes
	Utility Per Unit Equipment/ Labor Cost	$0	No cost to join rate
	Participant Share of Equipment/Labor Cost	$0	No cost to join rate
	One Time Incentive Towards Cost of Equipment	$0	No cost to join rate
	O&M/Vendor Service Fees per Customer Res	$0	N/A, utility runs rate programs
	Participation Rate MAP Res	20%	Duke Energy DR Study 2020
	Participation Rate RAP Res	13%	Duke Energy DR Study 2020, Pacificorp 2023
	Saturation Res	100%	All customers with a smart meter are eligible

DR Program Option	Assumption	Value	Source
Battery Storage	# of Control Units per Participant	1	
	Participant Annual Incentive - Res	$400/participant	Massachusetts Energy Storage Demand Reduction Evaluation 2024, Xcel Energy 2022, Pacificorp 2023
	Participant Annual Incentive - C&I	$1500/participant	Based on incentive per kW for residential programs, for 11.25 kW C&I battery
	Annual Number of Control Hours	80	Assumes same peak hours as existing DLC Thermostat program. Max of 20 events per year, 4 hours each.
	Per Participant Load Reduction - Summer - Res	3 kW	Assumes utility could use 60% of 5kW residential battery
	Per Participant Load Reduction - Winter - Res	3 kW	Assumes utility could use 60% of 5kW residential battery
	Per Participant Load Reduction - Summer - C&I	11.25 kW	2017 SGIP Advanced Energy Storage Impact Evaluation. Peak demand reduction of 45% of rebated capacity for a 25 kW battery - Figure 4-36 of study.
	Per Participant Load Reduction - Winter - C&I	11.25 kW	2017 SGIP Advanced Energy Storage Impact Evaluation. Peak demand reduction of 45% of rebated capacity for a 25 kW battery - Figure 4-36 of study.
	Control Equipment Useful Life	10 years	Tesla Powerwall warranty
	Utility Per Unit Equipment/ Labor Cost	$0	Assumes a BYOD program
	Participant Share of Equipment/Labor Cost - Res	$0	Assumes a BYOD program
	Participant Share of Equipment/Labor Cost - C&I	$0	Assumes a BYOD program
	One Time Incentive Towards Cost of Equipment	$0	Assumes a BYOD program
	O&M/Vendor Service Fees per Customer Res	$77/kW starting in 2027; decreases to $58/kW in 2045	NREL 2024 cost forecast: https://atb.nrel.gov/electricity/2024/residential_battery_storage
	O&M/Vendor Service Fees per Customer C&I	$43/kW starting in 2027; decreases to $33/kW in 2045	NREL 2024 cost forecast: https://atb.nrel.gov/electricity/2024/residential_battery_storage
	Participation Rate MAP Res	60%	Pacificorp 2023
	Participation Rate RAP Res	50%	Xcel Energy 2022
	Participation Rate MAP C&I	60%	Assumes same as residential
	Participation Rate RAP C&I	50%	Assumes same as residential
	Saturation Res	9.7% of customers with solar	2025 Ameren MO Baseline Study
	Saturation C&I	8% of customers with solar	LBL Tracking The Sun Report 2024
Capacity Bidding (Current Business DR Program)	# of Current Enrolled Customers	214	Ameren data response
	Participant Annual Incentive	$48/kW per participant for year-round participation ($16/kW in Summer and Winter, $8/kW in Fall and Spring)	Ameren Missouri SOW for PY2025/26
	Annual Number of Control Hours	2 - 64	Ameren Missouri 2025 SOW: If no MISO events are called, there will be (2) 1-hour tests. MISO can call up to 16 4-hour tests.
	Per Participant Load Reduction Dispatched - Summer - C&I	25%	Average of studies: Statewide California Capacity Bidding Evaluation 2021, Pacificorp 2019; assumes day-ahead notification
	Per Participant Load Reduction Dispatched - Winter - C&I	25%	Average of studies: Statewide California Capacity Bidding Evaluation 2021, Pacificorp 2019; assumes day-ahead notification
	Nominated capacity compared to dispatched	73%	Enel X 2024 invoice
	Control Equipment Useful Life	20 years	Useful life of smart meter. https://docs.cpuc.ca.gov/published/FINAL_DECISION/58362-07.htm#:~:text=The%20AMI%20system's%20useful%20life%20does%20not,is%20a%20reasonable%20forecast%20for%20the%20purposes
	Utility Per Unit Equipment/ Labor Cost	$0	No equipment cost
	Participant Share of Equipment/Labor Cost	$0	No equipment cost
	One Time Incentive Towards Cost of Equipment	$0	No equipment cost
	Admin costs	268/MW per year ($5,067/MW per se	Ameren Missouri SOW for PY2025/26
	O&M/Vendor Service Fees per Customer C&I	0	
	Participation Rate MAP C&I	28%	Ameren MO WTP Research 2025
	Participation Rate RAP C&I	21.5%	Ameren MO WTP Research 2025
	Saturation C&I	100% of C&I customers	All C&I customers are eligible to participate. https://www.ameren.com/-/media/rates/missouri/non-residential/electric-rates/energy-efficiency/uec-e-sheet-no-197-dr-bus-business-demand-response.ashx

DR Program Option	Assumption	Value	Source
Interruptible Rate	Participant Annual Incentive	$8/kW-month	Xcel Colorado program, PG&E program, BPA 2018, LADWP program, AES IN program, Entergy Louisiana program, Alliant Energy program, Unisource Arizona program
	Annual Number of Control Hours	64	Assumes same as Business DR program. 16 events per year, 4 hours per event.
	Per Participant Load Reduction - Summer - C&I	23%	Average of studies: Pacificorp 2023, Puget Sound Energy 2023, BPA 2021, PGE 2016
	Per Participant Load Reduction - Winter - C&I	23%	Average of studies: Pacificorp 2023, Puget Sound Energy 2023, BPA 2021, PGE 2016
	Control Equipment Useful Life	20 years	Useful life of smart meter. https://docs.cpuc.ca.gov/published/FINAL_DECISION/58362-07.htm#:~:text=The%20AMI%20system's%20useful%20life%20does%20not,is%20a%20reasonable%20forecast%20for%20the%20purposes
	Utility Per Unit Equipment/ Labor Cost	$10 per new kW pledged	BPA 2021, Puget Sound Energy 2023
	Participant Share of Equipment/Labor Cost	$0	No equipment cost
	One Time Incentive Towards Cost of Equipment	$0	No equipment cost
	Admin costs	$20/kW	BPA 2019, Snohomish County PUD
	O&M/Vendor Service Fees per Customer C&I	0	
	Participation Rate MAP C&I	28%	Pacificorp 2023, Xcel Energy 2022, BPA 2021, PG&E 2016
	Participation Rate RAP C&I	19%	Pacificorp 2023, Xcel Energy 2022, BPA 2021, PG&E 2016
	Saturation C&I	100% of LGS, SPS, and LPS customers	All large C&I customers are eligible to participate.
Thermal Electric Storage Cooling Rate	# of Control Units per Participant	1	
	Existing Participants	0	
	Participant Annual Incentive	$500	Assumes utlity pays incentive of 5% of equipment cost annually (Xcel Energy current program)
	Annual Number of Control Hours	372	Assumes 4 hours per day, 3 months of year during cooling season
	Per Participant Load Reduction - Summer - C&I	20%	Austin Energy current program - must be able to shift between 20%-50% of facility demand.
	Per Participant Load Reduction - Winter - C&I	N/A	
	Control Equipment Useful Life	20 years	Pacificorp 2019
	Utility Per Unit Equipment/ Labor Cost	N/A	Assumes participant owns equipment.
	Participant Share of Equipment/Labor Cost	$9,000	Assumes $10,000 equipment cost (Pacificorp 2019) for addition of thermal storage tank, piping modifications, and addition of automated controls. Costs range greatly depending on system type, size, and material used. $10,000 is likely on the lower end.
	One Time Incentive Towards Cost of Equipment	$1,000	Assumes utility pays for 10% of equipment cost (Xcel Energy current program)
	O&M/Vendor Service Fees per Customer C&I	$0	Pacificorp 2019
	Participation Rate MAP C&I	2.30%	Assumes double RAP participation rate.
	Participation Rate RAP C&I	1.15%	Pacificorp 2019. This type of program is only applicable for niche customer segments.
	Saturation C&I	1.31%	CBECS data, West North Central region. Percentage of buildings with chillers.

DR Program Option	Assumption	Value	Source
Golf Cart Charging Rate	Participant Annual Incentive	$0	No incentive for rate program
	Annual Number of Control Hours	1043	Assume 4 hrs/week day, year round
	Per Participant Load Reduction - Summer - C&I	0.75 kW per cart; 42.75 kW per golf course	Demand Response and Load Management Strategies for Electric Forklifts and Non-Road EV Fleets, Richard Cromie Program Manager, Southern California Edison Co.
	Per Participant Load Reduction - Winter - C&I	0.75 kW per cart; 42.75 kW per golf course	Demand Response and Load Management Strategies for Electric Forklifts and Non-Road EV Fleets, Richard Cromie Program Manager, Southern California Edison Co.
	Control Equipment Useful Life	20 years	Useful life of smart meter. https://docs.cpuc.ca.gov/published/FINAL_DECISION/58362-07.htm#:~:text=The%20AMI%20system's%20useful%20life%20does%20not,is%20a%20reasonable%20forecast%20for%20the%20purposes
	Utility Per Unit Equipment/ Labor Cost	$9,000	Assumes a separate sub-meter would need to be installed for the golf cart charging area. Eaton Pow-R-Command Golf Car Off-Peak Charging.
	Participant Share of Equipment/Labor Cost	$0	N/A
	One Time Incentive Towards Cost of Equipment	$0	N/A
	O&M/Vendor Service Fees per Customer C&I	$0	N/A
	Participation Rate MAP C&I	24.5%	Assume same participation rate as TOU. Average of top 10 performing opt-in TOU programs in EIA 861
	Participation Rate RAP C&I	16.0%	Assume same participation rate as TOU. Average of next 10 top-performing opt-in TOU programs in EIA 861
	Number of golf courses in Ameren MO territory	153	golflink.com, EIA data on residential customers
General Program Costs (unless otherwise noted)	Implementation	$150,000 per program	GDS Assumption.
	Admin	$75,000/year	GDS Assumption. Can be split between similar programs.
	Marketing	$50/new participant	GDS Assumption. Includes outreach, education, and digital tools.
	Evaluation	$50,000 per program, evaluated every 2 years	GDS Assumption

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APPENDIX F. DISTRIBUTED ENERGY RESOURCES DETAILS

Measure ID	Measure Name	Measure Life (Full EUL)	Annual Reported Energy Savings (per measure, kWh at meter)	Gross Verified Demand Savings (kW at meter)	Incremental Measure Cost (per measure)	Incremental Annual O&M Cost (per measure)	TRC Benefits	TRC Costs (no pgrm admin)	Net TRC Costs	TRC Ratio (no Admin)
NR_CHP_01	CHP_Fuel_Cell_175kW	20	1,157,415	176	2,444,691	58,131	$1,244,350	$3,716,621	$3,774,492	0.33
NR_CHP_02	CHP_Fuel_Cell_500kW	20	3,306,900	502	3,042,000	134,093	$2,372,437	$5,976,007	$6,141,352	0.40
NR_CHP_03	CHP_Fuel_Cell_1125kW	20	7,440,525	1,130	5,325,750	296,683	$3,284,635	$6,491,517	$6,863,543	0.51
NR_CHP_04	CHP_Fuel_Cell_Biogas_800kW	20	5,291,040	804	4,348,800	318,654	$3,640,380	$11,321,060	$11,585,612	0.32
NR_CHP_05	CHP_Gas_Turbine_2500kW	20	17,082,000	2,491	7,595,792	216,848	$7,810,748	$12,340,498	$13,194,598	0.63
NR_CHP_06	CHP_Gas_Turbine_3000kW	20	20,498,400	2,990	8,730,474	259,364	$9,251,926	$14,405,442	$15,430,362	0.64
NR_CHP_07	CHP_Gas_Turbine_3500kW	20	23,914,800	3,488	9,736,997	301,595	$10,686,443	$16,336,001	$17,531,741	0.65
NR_CHP_08	CHP_Micro_Turbine_25kW	20	91,980	14	81,768	1,167	$53,923	$107,299	$111,898	0.50
NR_CHP_09	CHP_Micro_Turbine_100kW	20	367,920	56	299,718	4,628	$204,582	$400,990	$419,386	0.51
NR_CHP_10	CHP_Micro_Turbine_200kW	20	735,840	112	526,491	9,153	$388,469	$726,766	$763,558	0.53
NR_CHP_11	CHP_Reciprocating_Engine_125kW	20	394,200	60	324,398	9,363	$260,459	$529,275	$548,985	0.49
NR_CHP_12	CHP_Reciprocating_Engine_350kW	20	1,103,760	168	883,628	24,999	$715,683	$1,430,611	$1,485,799	0.50
NR_CHP_13	CHP_Reciprocating_Engine_1250kW	20	3,942,000	599	2,803,134	73,923	$2,482,153	$4,420,586	$4,617,686	0.56
NR_CHP_14	CHP_Reciprocating_Engine_3000kW	20	9,460,800	1,437	5,081,681	156,372	$5,546,990	$8,503,155	$8,976,195	0.65
NR_CHP_15	CHP_Reciprocating_Engine_4500kW	20	14,191,200	2,156	7,003,156	207,504	$8,197,067	$11,543,411	$12,252,971	0.71
NR_CHP_16	CHP_Reciprocating_Engine_Biogas_1250kW	20	3,942,000	599	3,478,134	73,923	$2,684,653	$5,095,586	$5,292,686	0.53
NR_CHP_17	CHP_Steam_Turbine_1500kW	20	5,847,300	888	6,750,000	263,129	$2,106,225	$12,507,341	$12,799,706	0.17
NR_CHP_18	CHP_Steam_Turbine_3500kW	20	13,643,700	2,073	15,750,000	613,967	$4,914,526	$29,183,796	$29,865,981	0.17
NR_CHP_19	CHP_Steam_Turbine_5000kW	20	19,491,000	2,961	22,500,000	877,095	$7,020,751	$41,691,138	$42,665,688	0.17
NR_CHP_20	CHP_Gas_Turbine_5000kW	20	34,164,000	4,983	11,987,611	426,582	$14,886,461	$21,321,367	$23,029,567	0.70
NR_CHP_21	CHP_Gas_Turbine_10000kW	20	68,328,000	9,966	16,374,416	824,708	$28,674,826	$34,419,308	$37,835,708	0.83
NR_CHP_22	CHP_Gas_Turbine_15000kW	20	102,492,000	14,948	23,298,740	956,064	$43,798,522	$44,217,757	$49,342,357	0.99
NR_CHP_23	CHP_Gas_Turbine_30000kW	20	204,984,000	29,897	39,020,176	1,899,251	$89,283,443	$80,576,445	$90,825,645	1.11
NR_PV_01	Solar PV rooftop - 3kW	20	4,126	1	8,901	45	4,157	8,883	9,089	0.55
NR_PV_02	Solar PV rooftop - 5kW	20	6,877	2	14,835	75	6,929	14,805	15,148	0.55
NR_PV_03	Solar PV rooftop - 7kW	20	9,627	3	20,769	105	9,701	20,726	21,208	0.55
NR_PV_04	Solar PV rooftop - 10kW RESIDENTIAL	20	13,753	4	29,670	150	13,858	29,609	30,297	0.55
NR_PV_05	Solar PV rooftop - 10kW COMMERCIAL	20	13,753	4	21,647	180	13,319	22,554	23,242	0.52
NR_PV_06	Solar PV rooftop - 25kW	20	34,383	10	50,821	450	33,299	53,321	55,041	0.77
NR_PV_07	Solar PV rooftop - 50kW	20	68,766	20	97,299	900	66,597	102,605	106,043	0.77
NR_PV_08	Solar PV ground fixed - 100kW	20	137,532	41	188,901	1,062	133,194	189,951	196,828	0.77
NR_PV_09	Solar PV ground fixed - 250kW	20	343,830	102	444,515	2,654	332,985	449,089	466,281	0.77
NR_PV_10	Solar PV ground fixed - 500kW	20	687,660	204	842,790	5,308	665,971	855,188	889,571	0.77
NR_PV_11	Solar PV ground fixed - 1000kW	20	1,375,320	409	1,656,519	10,617	1,331,942	1,683,357	1,752,123	0.77
NR_PV_12	Solar PV ground fixed - 2000kW	20	2,750,640	818	3,224,227	21,233	2,663,884	3,284,144	3,421,676	0.77
NR_PV_13	Solar PV ground tracking - 100kW	20	181,084	53	255,462	1,213	178,281	253,880	262,934	0.70
NR_PV_14	Solar PV ground tracking - 250kW	20	452,710	132	468,776	3,033	445,703	476,762	499,397	0.78
NR_PV_15	Solar PV ground tracking - 500kW	20	905,419	264	1,139,754	6,067	891,406	1,141,513	1,186,784	0.78
NR_PV_16	Solar PV ground tracking - 1000kW	20	1,810,838	528	2,240,207	12,133	1,782,811	2,246,486	2,337,028	0.97

Measure ID	Measure Name	Measure Life (Full EUL)	Annual Reported Energy Savings (per measure, kWh at meter)	Gross Verified Demand Savings (kW at meter)	Incremental Measure Cost (per measure)	Incremental Annual O&M Cost (per measure)	TRC Benefits	TRC Costs (no pgrm admin)	Net TRC Costs	TRC Ratio (no Admin)
NR_PV_17	Solar PV ground tracking - 2000kW	20	3,621,676	1,057	3,418,314	24,267	3,565,623	3,505,523	3,686,607	0.97
NR_PV_18	Solar PV rooftop - 3kW, Storage - 12 kWh, 4 kW	20	4,126	1	19,701	444	4,233	23,861	24,068	0.45
NR_PV_19	Solar PV rooftop - 5kW, Storage - 12 kWh, 4 kW	20	6,877	2	25,635	474	7,056	29,649	29,992	0.45
NR_PV_20	Solar PV rooftop - 7kW, Storage - 12 kWh, 4 kW	20	9,627	3	31,569	504	9,878	35,436	35,917	0.47
NR_PV_21	Solar PV rooftop - 10kW RESIDENTIAL, Storage - 12 kWh, 4 kW	20	13,753	4	40,470	549	14,111	44,117	44,804	0.49
NR_PV_22	Solar PV rooftop - 10kW COMMERCIAL, Storage - 12 kWh, 4 kW	20	13,753	4	32,447	579	14,111	37,244	37,931	0.64
NR_PV_23	Solar PV rooftop - 25kW, Storage - 18 kWh, 6 kW	20	34,383	11	67,021	1,049	35,278	74,940	76,659	0.64
NR_PV_24	Solar PV rooftop - 50kW, Storage - 36 kWh, 12 kW	20	68,766	21	129,699	2,097	70,555	145,940	149,378	0.64
NR_PV_25	Solar PV ground fixed - 100kW, Storage - 48 kWh, 12 kW	20	137,532	43	232,101	2,658	141,111	246,389	253,266	0.65
NR_PV_26	Solar PV ground fixed - 250kW, Storage - 120 kWh, 30 kW	20	343,830	107	552,515	6,644	352,776	590,813	608,005	0.65
NR_PV_27	Solar PV ground fixed - 500kW, Storage - 200 kWh, 50 kW	20	687,660	214	1,022,790	11,958	705,553	1,089,083	1,123,466	0.65
NR_PV_28	Solar PV ground fixed - 1000kW, Storage - 420 kWh, 105 kW	20	1,375,320	428	2,034,519	24,582	1,411,106	2,177,107	2,245,873	0.65
NR_PV_29	Solar PV ground fixed - 2000kW, Storage - 700 kWh, 175 kW	20	2,750,640	857	3,854,227	44,508	2,822,212	4,096,555	4,234,087	0.66
NR_PV_30	Solar PV ground tracking - 100kW, Storage - 48 kWh, 12 kW	20	181,084	56	298,662	2,809	185,796	308,809	317,863	0.68
NR_PV_31	Solar PV ground tracking - 250kW, Storage - 120 kWh, 30 kW	20	452,710	141	576,776	7,023	464,489	617,936	640,571	0.68
NR_PV_32	Solar PV ground tracking - 500kW, Storage - 200 kWh, 50 kW	20	905,419	282	1,319,754	12,717	928,978	1,368,675	1,413,946	0.68
NR_PV_33	Solar PV ground tracking - 1000kW, Storage - 420 kWh, 105 kW	20	1,810,838	564	2,618,207	26,098	1,857,956	2,727,002	2,817,543	0.68
NR_PV_34	Solar PV ground tracking - 2000kW, Storage - 700 kWh, 175 kW	20	3,621,676	1,128	4,048,314	47,542	3,715,912	4,313,534	4,494,618	0.69
NR_PV_35	Solar PV rooftop - 15kW RESIDENTIAL	20	19,892	6	44,506	225	20,044	44,414	45,408	0.45
NR_PV_36	Solar PV rooftop - 15kW COMMERCIAL	20	19,892	6	31,556	270	19,265	32,981	33,976	0.58
NR_PV_37	Solar PV rooftop - 20kW RESIDENTIAL	20	26,523	8	59,341	300	26,725	59,219	60,545	0.45
NR_PV_38	Solar PV rooftop - 20kW COMMERCIAL	20	26,523	8	41,261	360	25,686	43,219	44,545	0.59

Measure ID	Measure Name	Measure Life (Full EUL)	Annual Reported Energy Savings (per measure, kWh at meter)	Gross Verified Demand Savings (kW at meter)	Incremental Measure Cost (per measure)	Incremental Annual O&M Cost (per measure)	TRC Benefits	TRC Costs (no pgrm admin)	Net TRC Costs	TRC Ratio (no Admin)
NR_PV_39	Solar PV rooftop - 15kW RESIDENTIAL, Storage - 15 kWh, 5 kW	20	19,892	6	58,006	724	20,044	62,380	63,375	0.32
NR_PV_40	Solar PV rooftop - 15kW COMMERCIAL, Storage - 15 kWh, 5 kW	20	19,892	6	45,056	769	19,265	51,241	52,236	0.38
NR_PV_41	Solar PV rooftop - 20kW RESIDENTIAL, Storage - 15 kWh, 5 kW	20	26,523	8	72,841	799	26,725	76,848	78,175	0.35
NR_PV_42	Solar PV rooftop - 20kW COMMERCIAL, Storage - 15 kWh, 5 kW	20	26,523	8	54,761	859	25,686	61,258	62,585	0.42

APPENDIX G. BENCHMARKING

APPENDICES

GDS gathered information from nine publicly available potential studies conducted in the Midwest or reflecting similarities to the Midwest to compare to Ameren Missouri's results. The jurisdictions were selected based on the availability of potential studies completed (approximately) since the prior Ameren Missouri potential study. These studies and their outcomes can be used to compare Ameren's current potential study results to those conducted elsewhere. This appendix provides summary information from ten studies, providing key metrics and a discussion of nuances that can drive differences between the studies and the interpretation of results.

All nine comparison studies were completed between 2022 and 2025. They share common elements – modeling technical, economic, and forms of achievable potentials. Most utilize forms of the TRC test for cost-effectiveness, with two using the UCT, one using the SCT. Achievable potential definitions and boundaries differ but typically have realistic achievable estimates constraining a maximum achievable estimate with annual budget limitations or assumptions about market adoption of measures that pass the economic potential screening. Each study provides a different range of detail and information.

Across the nine comparison studies, achievable potential varied as a percent of baseline load. Factors include underlying modeling assumptions or unique conditions not present in one study or another. Factors that may shape differences between the studies, but were not readily apparent with consistent available information in the reports, include:

- Avoided cost and other major modeling assumptions
- Demographic and firmographic differences between utilities
- Differences in utility climate and weather sensitive loads
- The assumptions used to account for current equipment saturation
- Differences in adoption curves or willingness-to-pay modeling
- Cumulative savings being relative to a year preceding the study period or at the end of the study period
- The inclusion of achievable potential scenarios that deliberately reflect spending or savings requirements likely to be exhibited in filed program plans

All of these factors can lead to varying outcomes that are not fully explained in each report in a way that makes them directly comparable to Ameren's potential study. However, as a body of recent potential studies from the middle portion of the U.S., they do provide context and perspective useful for making comparisons to Ameren's study. A key consideration for Ameren Missouri's results is that the "less than RAP" scenario limited the measures to those currently in the approved MEEIA plan, while the RAP scenario included realistic savings opportunities beyond the approved MEEIA plan. The effect reduces achievable savings by approximately 0.5 percent of baseline sales per year. We expect that cost effective savings opportunities may be captured in the comparison studies that were not included in the Ameren Missouri study, though the specific differences are an unknown.

Summary Descriptions of Comparison Potential Studies

In developing the data to support Table G-1, GDS researched the details of each of the example potential studies to help provide context to the underlying modeling and considerations for developing achievable potential. Below, each study is described in a mini-case study format, with information related to how achievable potential was defined and scenarios that that were used to test the sensitivity of multiple achievable potential perspectives.

For Ameren Missouri, the following table summarizes the savings from the current potential study. The MAP case represents maximum achievable potential assuming very high incentives. The RAP case represents a "high" achievable potential that reflects typical incentives and potential savings without policy-driven budget restrictions. The "less that RAP" scenario (<RAP) reflects achievable potential that is responsive to restrictions in spending and limiting measures to those already in the approved MEEIA plan. These two scenarios are approximately similar to the presentation of scenario results in the comparison studies. Additionally, while the Ameren MO study analyzed 20 years of savings potential, the

sum of annual incremental savings share (as a percent of energy sales) reflects the total in the first six years of the study. This is most similar to the data available across the other nine studies.

TABLE G-1: AMEREN MISSOURI 2026-2032 ENERGY EFFICIENCY POTENTIAL COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Savings Share of Sales	C&I Savings Share of Sales
2027-2032		MAP: 7.1% RAP: 4.4% <RAP: 1.4%	MAP: 4.8% RAP: 3.2% <RAP: 1.3%	MAP: 9.1% RAP: 5.5% <RAP: 1.4%

In general, Ameren Missouri's realistic potential savings are similar to others in the RAP scenario, though lower, on an annual average basis, than the comparison studies. The comparison studies do not often specifically address changes in the treatment of the lighting market, particularly for C&I lighting. However, residential lighting savings have largely exited program portfolios, with C&I lighting being allowed on a limited basis. Based on GDS's experience we believe that most or all the comparison potential studies have a reduced volume of commercial lighting savings compared to the past due to market transformation and policy decisions. The one exception to this is the Evergy 2023 potential study, in which C&I lighting provides a substantial share of savings and residential lighting a limited share of savings. The primary drivers of differences between realistic potential are either policy-driven, often focusing on limiting spending or requiring spending, or the specific mix of demographic and firmographic factors.

Two of the comparison studies present savings levels with important distinctions. AES Indiana's recent study includes the traditional MAP and RAP forms of achievable potential. No program portfolio scenarios were developed. AES Indiana will develop its own program portfolio savings in 2026, presumably with savings equal to or less than the RAP results presented in their study. In Michigan, this statewide study analyzed a program achievable scenario that assumed incentives would reflect 50 percent of measure incremental cost. The study results informed whether or not the State's mandated electricity savings of 1.5 percent of sales per year was achievable. Individual utilities will develop and file their own plans. The other studies have program achievable scenarios that are aligned with program portfolios, spending limits, or other policies that shape portfolios, making their scenario results meaningful for what may actually occur once programs are designed and implemented.

The outcomes of each study exhibit meaningful differences in outcomes. The underlying context of the studies' approaches or policy environment are substantial drivers of the varying results. Below we summarize each study and provide scenario outcomes based on the available modeled scenarios, focusing on scenarios that reflect program portfolio designs driven by policy rather than theoretical potential.

Ameren Illinois Potential Study (2024)

The 2024 Illinois Baseline and Potential Study included a potential analysis for Ameren Illinois. This study focused primarily on traditional energy efficiency but also included electrification elements. Illinois policy limits the claimable savings for electrification, limiting the contribution in the potential study. The study results spanned a 20-year timeframe (2026 to 2045), though the primary focus was on the 2026-2029 four-year period corresponding to program plan filings. The study included a range of potentials – from traditional technical, economic, maximum achievable, and realistic achievable potentials, as well as four scenarios that reflected policy-driven spending limitations that reduced savings below the realistic achievable potential. For purposes of this summary, the results focus on two scenarios - the realistic achievable potential (RAP) and the stipulation maximum achievable potential (STIP). The STIP scenario reflected

maximum savings achievable within budget constraints and reflected the stipulations of the approved program portfolios active at the time.

As part of the baseline study, surveys were conducted to estimate customers' willingness to participate (WTP). The WTP results were used to inform maximum adoption rates and curves that were applied to end-use technologies and sectors. For benefit-cost testing, the study included a metric associated with the social cost of carbon incorporated into the traditional TRC test.

As many of the other studies in this benchmarking comparison provided for savings that are less than the traditional 10 or 20-year timeframe, the summaries below reflect the cumulative potential as a share of program eligible energy sales from 2026-2029. Through 2045, the cumulative potential was far higher, with the modeled STIP scenario reaching 29.9 percent for the residential sector and 13.4 percent for the C&I sector in 2045. A portion of large C&I loads were not included due to provisions akin to opt-outs.

Table G-2. Ameren Illinois 2026-2029 Energy Efficiency Potential Comparison Metrics

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Savings Share of Sales	C&I Savings Share of Sales
2026-2029	TRC w/GHG	RAP: 8% STIP: 2%	RAP: 8.5% STIP: 1.5%	RAP: 7.6% STIP: 3.9%

Arkansas Energy Efficiency Potential Study (2024)

The Arkansas Public Service Commission filed its 2027-2032 potential study in 2025. Cumulative economic potential was estimated at 14 percent of the 2032 baseline load forecast. Using current budgeting as the reference case for the RAP scenario, a cumulative saving of seven percent was estimated as achievable across the six-year forecast period. Additional scenarios also tested the effect of lower and higher budgets. Savings are described as being net of free riders, with net-to-gross ratios developed by evaluation teams across the utilities. Additionally, in Arkansas some customers have the option to operate their own self-direct program. Achievable savings were treated as net of self-direct customers, removing their underlying load from the analysis for all technical, economic, and achievable estimates of potential savings.

The market scope included all investor-owned utilities (IOUs) in Arkansas. Load forecasts were considered confidential by the utilities and not published. The relative share of sector sales varied across the four electric IOUs. The study did not present a statewide detail on the relative loads, though the study did present individual utilities' relative shares of sector-level customer types and use-loads. The study found, across the six-year horizon, that technical potential is 17% sales, with 14% being economic potential. To model achievable potential, the study incorporates Arkansas energy efficiency policy requiring that "all major end-uses" be covered, and that achievable potential include savings of "all achievable within a reasonable time period and maximizing net benefits to customers and utility system."

The potential study included a section related to demand response. The demand response realistic achievable potential (RAP) was estimated at 250 MW, split roughly evenly between the residential and nonresidential sectors.

Table G-3 summarizes key achievable potential metrics by sector resulting from the Arkansas Energy Efficiency Potential Study for energy efficiency. Sector-level details were not provided for the low and high incentive scenarios.

TABLE G-3. ARKANSAS ENERGY EFFICIENCY POTENTIAL STUDY KEY COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales and B/C	Residential Ach Potential B/C	C&I Ach Potential B/C
2027-2032	TRC	MAP: 11% RAP: 7% RAP TRC 2027: 1.5	RAP-level TRC: Res MR: 1.9 Res IE: 0.68	RAP-level TRC: 1.5

Focus on Energy Wisconsin Energy Efficiency Potential Study (2025)

Wisconsin has a state-wide energy efficiency program that includes all IOUs, most municipal utilities, and many cooperative utilities. In late 2025, the Public Service Commission of Wisconsin published its 2025 Focus on Energy Quad V Planning Study. As part of the overall quadrennial planning process, this study describes the potential for demand side energy programs. Reflecting new policies, the study presents all savings in billions of BTU (BBTU), blending potential across electricity and natural gas savings, along with electrification and solar PV potential. The study analyzed energy efficiency savings potential for the 2027-2030 time period, reflecting the next quadrennial plan period. As policies favor overall lifecycle impacts, the study does not include annual or cumulative savings impacts, focusing on overall lifecycle impacts of the total set of measures in each scenario. The savings impacts represent those that would occur in the 2027-2030 time for the life of the measures implemented in that timeframe.

The study developed several scenarios, including an "optimized" reference scenario that aligns with the current program portfolio. Additional scenarios allow for inspecting alternative program priorities relative to reference portfolio. These alternatives emphasize emissions impacts, focusing on electrification, targeting summer peaks load impacts, or emphasizing cost-effectiveness to derive portfolio savings within spending or other policy parameters. The study includes an analysis of technical and economic potential, but does not present a maximum potential scenario.

The report document blends many factors together, limiting its value for purposes of developing comparable metrics. However, an online dashboard allows for extracting greater details, which serves as the basis for the comparison metrics. Savings are only presented as net savings. Wisconsin uses a modified TRC test that incorporates values for avoided carbon and criteria air pollutant emissions within the cost-effectiveness testing.

Table G-4 summarizes key achievable metrics by sector for the Focus on Energy "Baseline" scenario, reflecting the reference case. This scenario aligns with current program designs as much as possible. The other scenarios exhibit electricity savings approximately plus or minus ten percent. The results do not include the impact of electrification measures. The saving percentage reflects the four year cumulative impact of energy efficiency.

TABLE G-4. FOCUS ON ENERGY WISCONSIN BASELINE SCENARIO COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Ach Potential Savings Share of Sales	C&I Ach Potential Savings Share of Sales
2027-2030*	Modified TRC	4-yr Reference Savings: 2.7%	4-yr Reference Savings: 2.9%	4-yr Reference Savings: 2.7%

*The savings percentages are based on a reported baseline annual sales of 56,138 GWh. Residential sales represent approximately 31% of total electricity sales.

ComEd Energy Efficiency Potential Study (2024)

The 2024 Illinois Baseline and Potential Study included a potential analysis for ComEd, in Illinois. This study focused primarily on traditional energy efficiency but also included electrification elements. Illinois policy limits the claimable savings for electrification, limiting the contribution in the potential study. The study results spanned a 20-year timeframe (2026 to 2045), though the primary focus was on the 2026-2029 four-year period corresponding to program plan filings. The study included a range of potentials – from traditional technical, economic, maximum achievable, and realistic achievable potentials, as well as four scenarios that reflected policy-driven spending limitations that reduced savings below the realistic achievable potential. For purposes of this summary, the results focus on two scenarios - the realistic achievable potential (RAP) and the stipulation maximum achievable potential (STIP). The STIP scenario reflected maximum savings achievable within budget constraints and reflected the stipulations of the approved program portfolios active at the time.

As part of the baseline study, surveys were conducted to estimate customers' willingness to participate (WTP). The WTP results were used to inform maximum adoption rates and curves that were applied to end-use technologies and sectors. For benefit-cost testing, the study included a metric associated with the social cost of carbon incorporated into the traditional TRC test.

As many of the other studies in this benchmarking comparison provided for savings that are less than the traditional 10 or 20-year timeframe, the summaries below reflect the cumulative potential as a share of program eligible energy sales from 2026-2029. Through 2045, the cumulative potential was far higher, with the modeled STIP scenario reaching 29.9 percent for the residential sector and 13.4 percent for the C&I sector in 2045. A portion of large C&I loads were not included due to provisions akin to opt-outs.

TABLE G-5. COMED 2026-2029 ENERGY EFFICIENCY POTENTIAL COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Ach Potential Savings Share of Sales	C&I Ach Potential Savings Share of Sales
2026-2029	TRC w/ GHG	RAP: 8% STIP: 4%	RAP: 7.6% STIP: 3.1%	RAP: 8.1% STIP: 6.0%

Michigan Electric Energy Waste Reduction, Demand Response, and Efficient Electrification Potential Study (2025)

In 2025, the Michigan Public Service Commission published its statewide potential study. In Michigan, Energy Waste Reduction (EWR) is equivalent to traditional energy efficiency. For EWR programs, the study presents incremental annual economic potential, maximum achievable potential, and two forms of program achievable potential (75% and 50%). Across the maximum achievable and program achievable scenarios, the distinction is the level of incentives relative to incremental cost. The maximum achievable assumes 100% of incremental cost incentives, while the two program achievable scenarios assume 75% and 50% incentives. The study found relatively little difference in the results across the three scenarios, in terms of incremental annual savings. The results indicate that Michigan's target of 1.5% of annual electricity sales each year is achievable. The report does not detail the 75% scenario due to its similarity between the maximum and program (50%) scenarios. Modeling for 2026-2029 indicates a program ramp-up period, with the longer term annual incremental savings leveling out and marginally higher than the 2029 incremental annual savings rates. Details on sector splits are not presented.

In the summary below, we include the sum of 2026-2029 incremental annual percent of overall statewide electricity load reduction potential for the maximum and program achievable (50% incentive) scenarios. The maximum is an estimate based on a review of figure data (no tabular data was presented for the maximum). The sector level detail summarizes cost effectiveness results under Michigan's UCT cost effectiveness test. The program achievable (PA 50%) reflects lower

incentive spending, leading to higher benefit-cost ratios than the maximum achievable scenario (MAP). The residential sector is separated into a general "residential" segment and income-eligible segment (IE).

TABLE G-6. MICHIGAN ENERGY EFFICIENCY POTENTIAL STUDY COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Ach Potential UCT B/C	C&I UCT Ach Potential B/C
2026-2029	UCT	MAP: 8.9% PA 50%: 8.7%	Res MAP: 2.5 IE MAP: 2.0 Res PA 50%: 4.9 IE PA 50%: 2.0	MAP: 2.7 PA 50%: 5.0

AES Indiana Market Potential Study 2025

Conducted by GDS Associates, the AES Indiana Market Potential Study covers the 2027-2045 timeframe, covering an assessment of market potential for the residential and C&I sectors. The study presented the traditional outcomes of technical, economic, and maximum achievable potential. Two realistic achievable potential (RAP) scenarios were developed. A RAP scenario was designed in which incentives were "closely calibrated to historical levels but is not constrained by any previously determined spending levels." An Enhanced RAP scenario is similar to the RAP, thought with incentives adjusted based on a maximum incentive determined to cover a "sector-specific lifetime cost per MWh" saved or 100 percent of the measure cost (whichever was less), and with an incentive floor of 10 percent of measure incremental cost. The Enhanced RAP scenario took into account cost effectiveness under the UCT benefit-cost test and increased savings above the RAP scenario.

Although the study did an analysis of 19 years of energy efficiency potential, the focus was on the first six years of the study (2027-2032). For the residential sector, RAP scenario annual savings relative to baseline energy sales ranged from 1.4 percent to 1.6 percent per year. For the C&I sector the RAP savings ranged from 1.1 to 1.6 percent per year. The Enhanced RAP scenario resulted in savings that were approximately 10 percent higher.

The summary table, below, provides information on the MAP and RAP scenario savings across the six-year time period.

TABLE G-7. AES INDIANA MARKET POTENTIAL STUDY COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Ach Potential Savings Share of Sales	C&I Ach Potential Savings Share of Sales
2027-2032	UCT	MAP: 10.9% RAP: 8.6%	MAP: 11.7% RAP: 9.3%	MAP: 9.8% RAP: 7.9%

Evergy 2023 DSM Potential Study

In 2023, Evergy published its 2023 DSM Market Potential Study, estimating DSM potential from 2024 through 2033, reflecting Evergy's Missouri service territories. This study considered both energy efficiency and demand response, with energy efficiency savings reflecting net savings. Separate analyses were performed for the Evergy Metro and Evergy West territories. Through 2033, the study identified realistic achievable potential savings able to provide approximately 3.4 percent of the combined territories' energy sales via cumulative efficiency savings. Through the time period this came to approximately 0.3 percent per year, consistent across each year's RAP savings.

Additional scenarios were developed. This includes a maximum achievable potential (MAP) scenario, described as maximum savings under "ideal market, implementation, and customer preference conditions." Additional RAP scenarios included RAP Plus and RAP Minus. RAP Plus assumed a 10 percent increase in participation from RAP levels. RAP Minus assumed a 15 percent decrease in participation from RAP. The scenarios incorporated an analysis of time-of-use (TOU) rates and impacts TOU retentions. The implication of the TOU rate effects (opting out and learning curves) on the potential was unclear. The summary results available in the report did not provide sector level details related to the relative share of energy sales impacted by energy efficiency programs. RAP Minus exhibited a consistent 25% lower savings level per year compared to the RAP scenario. RAP Plus exhibited approximately one-third greater savings that RAP through 2029, with MAP indicating approximately 65 to 70 percent greater annual savings that RAP.

Demand response savings potential scenarios were developed along similar logics as the energy efficiency potentials. The MAP and RAP scenarios exhibited the same outcome by 2029 – approximately nine percent of summer peak loads at the generator. Savings impacts plateaued as a percentage of the baseline peak forecast in 2029 and remained through 2033 (details beyond 2033 were not included in the report).

In the summary table below, we provide the cumulative savings for energy efficiency across the 2024-2029 time period. The MAP and RAP savings percentages represent the total energy efficiency portfolio as sector-level breakouts were not included. For demand response, the cumulative value represents the MAP and RAP potential in 2029.

TABLE G-8. EVERGY 2023 DSM POTENTIAL STUDY COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales*
2024-2029 Energy Efficiency	TRC	MAP: 3.2% RAP: 2.0%
2024-2029 Demand Response	TRC	MAP: 9% RAP: 9%

*Cumulative savings

Iowa Assessment of Potential (2022)

The Iowa Utility Association completed its most recent potential study in 2022, analyzing the 2024-2028 program period. Covering both electric and gas utilities, a major factor in the achievable potential analysis is spending caps imposed by state law. For electric utilities (Alliant Energy and MidAmerican Energy), spending is capped at 1.5 percent of annual revenues. Three scenarios were analyzed – a Reference Case that reflected current utility portfolios, a New Case that added new measures to the Reference Case, and a High Case that includes greater spending along with new or expanded programs and also ignores the budget caps. Demand response was separately analyzed with the same scenario structure.

For energy efficiency, the New Case indicated statewide electricity savings approximately ten percent higher than the Reference Case. For demand response, the New Case exhibited approximately four percent high savings than the Reference Case. The High Case savings across energy efficiency and demand response were substantially higher. The New Case and High Case savings results are summarized below.

Iowa's benefit-cost structure differs from other states. While Iowa uses a specific form of the societal test to analyze measures and serve as the basis for selecting measures, programs, or portfolios, the RIM test also plays a meaningful role. State law allows for *any* customer to opt-out of programs if an approved program portfolio (including both efficiency and demand response) does not have at least 1.0 benefit-cost ratio under the RIM test. As such, the utilities design their program portfolios to achieve a RIM benefit-cost ratio greater than 1.0.

In the summary table below, the High, New, and Reference scenarios indicate the cumulative achievable potentials as a share of baseline loads at the statewide level (Alliant Energy and MidAmerican Energy) for the 2024-2028 time periods. Both energy efficiency and demand response are included.

TABLE G-9. IOWA ENERGY EFFICIENCY POTENTIAL COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Ach Potential Savings Share of Sales	C&I Ach Potential Savings Share of Sales
2024-2028 Energy Efficiency	SCT	High: 2.8% New: 1.8% Ref: 1.7%	High: 2.2% New: 1.4% Ref: 1.25%	High: 3.0% New: 2.0% Ref: 1.9%
2024-2028 Demand Response	SCT	High: 12.1% New: 10.3% Ref: 9.9%	High: 7.6% New: 6.0% Ref: 5.6%	High: 15.3% New: 13.3% Ref: 12.8%

Pennsylvania Energy Efficiency Potential Study (2024)

Pennsylvania completed its most recent potential study in 2024, spanning a 5-year forecast of potential savings from 2026 through 2030. As a statewide study, it reflects the potential energy efficiency savings from the four investor-owned electric utilities subject to Act 129, each of which operate their own programs. Pennsylvania's study is somewhat different from other studies in this comparison in that it uses 2010 as a baseline year – substantially preceding the forecast period but aligning with PA Act 129 requirements. Using the TRC and with no option for opt-out electricity customers, the study found an overall achievable cumulative potential of 2.1 percent relative to the 2010 baseline year for "traditional" energy efficiency. The study also investigated combined heat and power, and solar PV as separate categories. The study presents savings at the gross-level.

The Pennsylvania potential study only presents details for the program achievable potential, a change from prior studies. Furthermore, the study does not present the relative share of sector savings as a percent of sector baseline energy sales.

TABLE G-10. PENNSYLVANIA STATEWIDE ENERGY EFFICIENCY POTENTIAL COMPARISON METRICS

Forecast Period	Benefit-Cost Model	Overall Ach Potential Savings Share of Sales	Residential Ach Potential Savings Share of Sales	C&I Ach Potential Savings Share of Sales
2026-2030	TRC	PA: 2.1%	Not reported	Not reported

APPENDIX H. REGULATORY COMPLIANCE CHECKLIST

4 CSR 240-22.050 Demand Side Resource Analysis	IRP Rule	Section of MPS
(1)	The utility shall identify a set of potential demand-side resources from which demand side candidate resource options will be identified for the purposes of developing the alternative resource plans required by 4 CSR 240-22.060(3). A potential demand-side resource consists of a demand-side program designed to deliver one (1) or more energy efficiency and energy management measures or a demand-side rate. The utility shall select the set of potential demand-side resources and describe and document its selection—	1.1
(A)	To provide broad coverage of—	
1.	Appropriate market segments within each major class;	1.1, 4.1.2.1
2.	All significant decision-makers, including at least those who choose building design features and thermal integrity levels, equipment and appliance efficiency levels, and utilization levels of the energy-using capital stock; and	1.1, 4.1.3.1
3.	All major end uses, including at least the end uses which are to be considered in the utility's load analysis as listed in 4 CSR 240-22.030(3)(A)1.;	1.1, 4.1.2.1
(B)	To fulfill the goal of achieving all cost-effective demand-side savings, the utility shall design highly effective potential demand-side programs consistent with subsection (1)(A) that broadly cover the full spectrum of cost-effective end-use measures for all customer market segments;	4.1.8
(C)	To include demand-side rates for all customer market segments;	5.1.2, 5.3.1
(D)	To consider and assess multiple designs for demand-side programs and demand-side rates, selecting the optimal designs for implementation, and modifying them as necessary to enhance their performance; and	To be Addressed in IRP
(E)	To include the effects of improved technologies expected over the planning horizon to—	
1.	Reduce or manage energy use; or	4.1.3.2, 4.5.1
2.	Improve the delivery of demand-side programs or demand-side rates.	4.5.1, 5.3.1
(2)	The utility shall conduct, describe, and document market research studies, customer surveys, pilot demand-side programs, pilot demand-side rates, test marketing programs, and other activities as necessary to estimate the maximum achievable potential, technical potential, and realistic achievable potential of potential demand-side resource options for the utility and to develop the information necessary to design and implement cost-effective demand-side programs and demand-side rates. These research activities shall be designed to provide a solid foundation of information applicable to the utility about how and by whom energy-related decisions are made and about the most appropriate and cost-effective methods of influencing these decisions in favor of greater long-run energy efficiency and energy management impacts. The utility may compile existing data or adopt data developed by other entities, including government agencies and other utilities, as long as the utility verifies the applicability of the adopted data to its service territory. The utility shall provide copies of completed market research studies, pilot programs, pilot rates, test marketing programs, and other studies as required by this rule and descriptions of those studies that are planned or in progress and the scheduled completion dates.	2
(3)	The utility shall develop potential demand-side programs that are designed to deliver an appropriate selection of end-use measures to each market segment. The utility shall describe and document its potential demand-side program planning and design process which shall include at least the following activities and elements:	To be Addressed in IRP
(A)	Review demand-side programs that have been implemented by other utilities with similar characteristics and identify programs that would be applicable for the utility;	4.1.3.1, 5.1.2
(B)	Identify, describe, and document market segments that are numerous and diverse enough to provide relatively complete coverage of the major classes and decision-makers identified in subsection (1)(A) and that are specifically defined to reflect the primary market imperfections that are common to the members of the market segment;	1.1, 4.1.2.1
(C)	Identify a comprehensive list of end-use measures and demand-side programs considered by the utility and develop menus of end-use measures for each demand-side program. The demand-side programs shall be appropriate to the shared characteristics of each market segment. The end-use measures shall reflect technological changes in end-uses that may be reasonably anticipated to occur during the planning horizon;	4.1.3.1, 4.1.3.2, 4.1.3.4, 4.1.8
(D)	Assess how advancements in metering and distribution technologies that may be reasonably anticipated to occur during the planning horizon affect the ability to implement or deliver potential demand-side programs;	4.1.5
(E)	Design a marketing plan and delivery process to present the menu of end-use measures to the members of each market segment and to persuade decision-makers to implement as many of these measures as may be appropriate to their situation. When appropriate, consider multiple approaches such as rebates, financing, and direct installations for the same menu of end-use measures;	4.1.3.1
(F)	Evaluate, describe, and document the feasibility, cost-reduction potential, and potential benefits of statewide marketing and outreach programs, joint programs with natural gas utilities, upstream market transformation programs, and other activities. In the event that statewide marketing and outreach programs are preferred, the utilities shall develop joint programs in consultation with the stakeholder group;	1.4
(G)	Estimate the characteristics needed for the twenty (20)-year planning horizon to assess the cost effectiveness of each potential demand-side program, including:	1.2
1.	An assessment of the demand and energy reduction impacts of each stand-alone end-use measure contained in each potential demand-side program;	4.1.3.3, 5.1.5, 6.1.3
2.	An assessment of how the interactions between end-use measures, when bundled with other end-use measures in the potential demand-side program, would affect the stand-alone end-use measure impact estimates;	4.1.5.1, 5.4.1
3.	An estimate of the incremental and cumulative number of program participants and end-use measure installations due to the potential demand-side program;	4.1, Appendices C-F
4.	For each year of the planning horizon, an estimate of the incremental and cumulative demand reduction and energy savings due to the potential demand-side program; and	4.1, Appendices C-F
5.	For each year of the planning horizon, an estimate of the costs, including:	4.1, Appendices C-F
A.	The incremental cost of each stand-alone end-use measure;	4.1.3.3, 5.1.5, 6.1.2, 6.1.3
B.	The cost of incentives paid by the utility to customers or utility financing to encourage participation in the potential demand-side program. The utility shall consider multiple levels of incentives paid by the utility for each end-use measure within a potential demand-side program, with corresponding adjustments to the maximum achievable potential and the realistic achievable potential of that potential demand-side program;	4.1.7, 4.1.7.2, 5.1.5, 6.2.1
C.	The cost of incentives to customers to participate in the potential demand-side program paid by the entities other than the utility;	6.1.3
D.	The cost to the customer and to the utility of technology to implement a potential demand–side program;	4.1.7.2
E.	The utility's cost to administer the potential demand-side program; and	4.1.7.2
F.	Other costs identified by the utility;	4.1.7.2
(H)	A tabulation of the incremental and cumulative number of participants, load impacts, utility costs, and program participant costs in each year of the planning horizon for each potential demand-side program; and	4.1, Appendices C-E

4 CSR 240-22.050 Demand Side Resource Analysis	IRP Rule	Section of MPS
(I)	The utility shall describe and document how it performed the assessments and developed the estimates pursuant to subsection (3)(G) and shall provide documentation of its sources and quality of information.	4.1, 5.1, 6.1
(4)	The utility shall develop potential demand-side rates designed for each market segment to reduce the net consumption of electricity or modify the timing of its use. The utility shall describe and document its demand-side rate planning and design process and shall include at least the following activities and elements:	5.4.1
(A)	Review demand-side rates that have been implemented by other utilities and identify whether similar demand-side rates would be applicable for the utility taking into account factors such as similarity in electric prices and customer makeup;	5.4.1
(B)	Identify demand-side rates applicable to the major classes and decision-makers identified in subsection (1)(A). When appropriate, consider multiple demand-side rate designs for the same major classes;	5.4.1
(C)	Assess how technological advancements that may be reasonably anticipated to occur during the planning horizon, including advanced metering and distribution systems, affect the ability to implement demand-side rates;	6.3.2 (& Appendix F)
(D)	Estimate the input data and other characteristics needed for the twenty (20)-year planning horizon to assess the cost effectiveness of each potential demand-side rate, including:	5.4.1
1.	An assessment of the demand and energy reduction impacts of each potential demand-side rate;	5.4.1
2.	An assessment of how the interactions between multiple potential demand-side rates, if offered simultaneously, would affect the impact estimates;	5.4.1
3.	An assessment of how the interactions between potential demand-side rates and potential demand-side programs would affect the impact estimates of the potential demand side programs and potential demand-side rates;	5.4.1
4.	For each year of the planning horizon, an estimate of the incremental and cumulative demand reduction and energy savings due to the potential demand-side rate; and	5.4.2
5.	For each year of the planning horizon, an estimate of the costs of each potential demand-side rate, including:	5.4.2
A.	The cost of incentives to customers to participate in the potential demand side rate paid by the utility. The utility shall consider multiple levels of incentives to achieve customer participation in each potential demand-side rate, with corresponding adjustments to the maximum achievable potential and the realistic achievable potentials of that potential demand-side rate;	5.4.2
B.	The cost to the customer and to the utility of technology to implement the potential demand-side rate;	5.4.2
C.	The utility's cost to administer the potential demand-side rate; and	5.4.2
D.	Other costs identified by the utility;	5.4.2
(E)	A tabulation of the incremental and cumulative number of participants, load impacts, utility costs, and program participant costs in each year of the planning horizon for each potential demand-side program;	5.2, 5.3
(F)	Evaluate how each demand-side rate would be considered by the utility's Regional Transmission Organization (RTO) in resource adequacy determinations, eligibility to participate as a demand response resource in RTO markets for energy, capacity, and ancillary services; and	5.1.1
(G)	The utility shall describe and document how it performed the assessments and developed the estimates pursuant to subsection (4)(D) and shall document its sources and quality of information.	5.41.1
(5)	The utility shall describe and document its evaluation of the cost effectiveness of each potential demand-side program developed pursuant to section (3) and each potential demand-side rate developed pursuant to section (4). All costs and benefits shall be expressed in nominal dollars.	4.1.6 5.1.3, 6.1
(A)	In each year of the planning horizon, the benefits of each potential demand-side program and each potential demand-side rate shall be calculated as the cumulative demand reduction multiplied by the avoided demand cost plus the cumulative energy savings multiplied by the avoided energy cost. These calculations shall be performed both with and without the avoided probable environmental costs. The utility shall describe and document the methods, data, and assumptions it used to develop the avoided costs.	4.1.6 5.1.3
1.	The utility avoided demand cost shall include the capacity cost of generation, transmission, and distribution facilities, adjusted to reflect reliability reserve margins and capacity losses on the transmission and distribution systems, or the corresponding market-based equivalents of those costs. The utility shall describe and document how it developed its avoided demand cost, and the capacity cost chosen shall be consistent throughout the triennial compliance filing.	4.1.6
2.	The utility avoided energy cost shall include the fuel costs, emission allowance costs, and other variable operation and maintenance costs of generation facilities, adjusted to reflect energy losses on the transmission and distribution systems, or the corresponding market-based equivalents of those costs. The utility shall describe and document how it developed its avoided energy cost, and the energy costs shall be consistent throughout the triennial compliance filing.	4.1.6
3.	The avoided probable environmental costs include the effects of the probable environmental costs calculated pursuant to 4 CSR 240-22.040(2)(B) on the utility avoided demand cost and the utility avoided energy cost. The utility shall describe and document how it developed its avoided probable environmental cost.	4.1.6
(B)	The total resource cost test shall be used to evaluate the cost effectiveness of the potential demand-side programs and potential demand-side rates. In each year of the planning horizon—	4.1.3.1, 4.1.6
1.	The costs of each potential demand side program shall be calculated as the sum of all incremental costs of end-use measures that are implemented due to the program (including both utility and participant contributions) plus utility costs to administer, deliver, and evaluate each potential demand side program;	4.1.6
2.	The costs of each potential demand side rate shall be calculated as the sum of all incremental costs that are due to the rate (including both utility and participant contributions) plus utility costs to administer, deliver, and evaluate each potential demand side rate; and	5.1.5
3.	For purposes of this test, the costs of potential demand-side programs and potential demand-side rates shall not include lost revenues or utility incentive payments to customers.	4.1.6
(C)	The utility cost test shall also be performed for purposes of comparison. In each year of the planning horizon—	4.1.6
1.	The costs of each potential demand side program and potential demand-side rate shall be calculated as the sum of all utility incentive payments plus utility costs to administer, deliver, and evaluate each potential demand-side program or potential demand-side rate;	4.1.6
2.	For purposes of this test, the costs of potential demand-side programs and potential demand-side rates shall not include lost revenues; and	4.1.6
3.	The costs shall include, but separately identify, the costs of any rate of return or incentive included in the utility's recovery of demand-side program costs.	To be Addressed in IRP
(D)	The present value of program benefits minus the present value of program costs over the planning horizon must be positive or the ratio of annualized benefits to annualized costs must be greater than one (1) for a potential demand-side program or potential demand-side rate to pass the utility cost test or the total resource cost test. The utility may relax this criterion for programs that are judged to have potential benefits that are not captured by the estimated load impacts or avoided costs, including programs required to comply with legal mandates.	4.1.6 5.1.3
(E)	The utility shall provide results of the total resource cost test and the utility cost test for each potential demand-side program evaluated pursuant to subsection (5)(B) and for each potential demand–side rate evaluated pursuant to subsection (5)(C) of this rule, including a tabulation of the benefits (avoided costs), demand-side resource costs, and net benefits or costs.	4.1.6, 4.4.2 5.2.4 6.2.1, 6.2.2
(F)	If the utility calculates values for other tests to assist in the design of demand-side programs or demand-side rates, the utility shall describe and document the tests and provide the results of those tests.	4.1.6, 6.2.1, 6.2.2
(G)	The utility shall describe and document how it performed the cost effectiveness assessments pursuant to section (5) and shall describe and document its methods and its sources and quality of information.	4.1.6
(6)	Potential demand-side programs and potential demand-side rates that pass the total resource cost test including probable environmental costs shall be considered as demand side candidate resource options and must be included in at least one (1) alternative resource plan developed pursuant to 4 CSR 240-22.060(3).	To be Addressed in IRP

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(A)	The utility may bundle demand-side candidate resource options into portfolios, as long as the requirements pursuant to section (1) are met and as long as multiple demand side candidate resource options and portfolios advance for consideration in the integrated resource analysis in 4 CSR 240-22.060. The utility shall describe and document how its demand-side candidate resource options and portfolios satisfy these requirements.	To be Addressed in IRP
(B)	For each demand-side candidate resource option or portfolio, the utility shall describe and document the time-differentiated load impact estimates over the planning horizon at the level of detail required by the supply system simulation model that is used in the integrated resource analysis, including a tabulation of the estimated annual change in energy usage and in diversified demand for each year in the planning horizon due to the implementation of the candidate demand-side resource option or portfolio.	4.1.3.3, 6.1
(C)	The utility shall describe and document its assessment of the potential uncertainty associated with the load impact estimates of the demand-side candidate resource options or portfolios. The utility shall estimate—	4.5.1
1.	The impact of the uncertainty concerning the customer participation levels by estimating and comparing the maximum achievable potential and realistic achievable potential of each demand-side candidate resource option or portfolio; and	4.5.1, 5.4, 6.1.4
2.	The impact of uncertainty concerning the cost effectiveness by identifying uncertain factors affecting which end-use resources are cost effective. The utility shall identify how the menu of cost-effective end-use measures changes with these uncertain factors and shall estimate how these changes affect the load impact estimates associated with the demand side candidate resource options.	4.5.1, 5.4, 6.2.3
(7)	For each demand-side candidate resource option identified in section (6), the utility shall describe and document the general principles it will use to develop evaluation plans pursuant to 4 CSR 240-22.070(8). The utility shall verify that the evaluation costs in subsections (5)(B) and (5)(C) are appropriate and commensurate with these evaluation plans and principles.	To be Addressed in IRP
(8)	Demand-side resources and load-building programs shall be separately designed and administered, and all costs shall be separately classified to permit a clear distinction between demand-side resource costs and the costs of load-building programs. The costs of demand-side resource development that also serve other functions shall be allocated between the functions served.	To be Addressed in IRP
Special Contemorary Issues (EO-2023-0099)		
1A	Explore the feasibility, impacts, and potential mitigation of a potentially more pronounced urban heat island over the greater St. Louis urban area over a twenty-year IRP cycle.	4.1.3.2
1B	Model for low, medium, and high participation scenarios of commercial and industrial customers electing to participate in demand response activities based on the introduction of third-party ARCs within its footprint and provide an analysis of that impact ARCs would have on its IRP.	5.1.2
1C	Account for and explicitly identify cost reductions, tax credits (including all available tax credits for renewable and storage assets), additional funding sources, and other potential benefits from the Inflation Reduction Act and incorporate those changes into its IRP modeling as appropriate.	6.1.3
1D	Update its analysis and planning activities regarding actions necessary for system-wide voltage optimization analysis of its distribution system.	To be Addressed in IRP
1E	Analyze the impact resulting from satisfaction of the clean energy goals of large customers in general, and St. Louis' municipal clean energy goals in particular.	To be Addressed in IRP
1F	Study and/or model various technologies and programs designed to reduce demand on the customer side of the meter, including but not limited to:	5.1.1
1F(1)	Residential demand response programs, pairing increased rebates for web-enabled or "smart" thermostats with demand response program participation;	4.1.2
1F(2)	Increased rebates for residential electric vehicle charging units paired with customer agreements to participate in a program allowing the Company's use of electricity from a customer's connected electric vehicle at times of high demand;	4.1.2
1F(3)	New rebates for residential battery storage units paired with customer agreements to participate in a program allowing the Company's use of batteries at times of high demand;	4.1.2
1F(4)	A program offering free installation of utility-owned battery storage units in exchange for customer agreements to allow the Company to use batteries at times of high demand.	4.1.2
1G	Study and/or model the potential for utility-scale battery storage to meet current and future demand, including:	To be Addressed in IRP
1G(1)	Consideration of the range of potential price reductions in these technologies over the coming two decades;	To be Addressed in IRP
1G(2)	Consideration of pumped hydro, stacked blocks, liquid air, above-ground and underground compressed air, and flow battery technologies in addition to lithium-ion battery technologies;	To be Addressed in IRP
1G(3)	Pairing mid-scale deployments of battery storage technologies with current and future utility-scale solar generation sites; and	To be Addressed in IRP
1G(4)	Offering free installation of utility-owned battery storage systems to large commercial and industrial customers in exchange for the Company's use of systems at times of high peak demand.	4.1.2
1H	Model stand-alone or hybrid battery storage resources.	To be Addressed in IRP