



4CSR 240-22.050

Appendix A

AmerenUE

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This appendix contains the measure, program-level, and other information from the Energy Efficiency Potential Model (EEPM) developed by ICF International for AmerenUE. It is divided into six sections.

The first section, Measure Screening, is divided into three groups of pages.

Pages 2.1 to 2.13 contain the basic measure information including the base and efficient technology names and descriptions, the HVAC system type or end-use application (lighting, cooling, etc.), the applicable sector and sub-sector, and the unit by which costs and savings are denominated.

Pages 2.14 to 2.26 contain the inputs to and final results of the measure level Total Resource Cost (TRC) test and Utility Cost Test (UCT). These inputs include the measure's lifetimes, incremental costs, annual energy (kWh) savings, and annual coincident peak power (kW) savings. This section also contains the market baseline and appropriate factors to determine how many units of each measure could technically be applied.

Pages 2.27 to 2.39 show the sources used for the measure names, lifetimes, savings, and costs. In addition, the RLW Measure ID is shown for the residential measures from an RLW Analytics report; the DEER Measure ID is shown for DEER measures; the KEMA Measure ID is shown for the industrial sector measures from a KEMA report.

The second section, Program Results, is divided into six groups of pages.

Pages 3.1 to 3.12 show the basic measure information as well as a column ("Include?") that indicates whether each measure is included in a program (1 indicates inclusion; 0 indicates exclusion).

Pages 3.13 to 3.60 show the annual and cumulative number of installations by measure and year.

Pages 3.61 to 3.84 show the cumulative amount of net energy savings (in kWh) by measure and year.

Pages 3.85 to 3.108 show the cumulative amount of net demand savings (in kW) by measure and year.

Pages 3.109 to 3.132 show the annual incentive costs (in \$) by measure and year.

Pages 3.133 to 3.156 show the annual non-incentive program costs (in \$) by measure and year.

The third section, Pages 4.1 to 4.18 shows the measure-specific normalized load shape (the percentage of energy savings per avoided cost period) based on the DOE-2 simulations and Itron load shapes.

The fourth section, Pages 5.1 to 5.2 shows the average annual avoided cost per avoided cost period for the BAU and CO2 Scenarios.

The fifth section, Pages 6.1 to 6.18 shows the measure-specific annual avoided cost stream for the BAU and CO2 Scenarios. These streams are the product of the measure-specific normalized load shape and the average annual avoided cost per avoided cost period.

The sixth section, Pages 7.1 to 7.9, shows the Residential and Non-Residential building prototype characteristics and inputs that were used in the DOE-2 simulations.

Measure ID	Base Technology	Efficient Technology	HVAC System and/or End-use	Load Shape (End Use, between Rows 982-1576 below)	Sector	Sub Sector	Unit Definition	Base Efficiency Definition	Efficient Efficiency Definition
1	Central AC (Refrigerant-Undercharged, Exi: Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	01_Gas Furnace / Central AC	Residential	Detached	Home	80% SEER, and 80% capacity	9.17 SEER, Full capacity
2	Central AC (Refrigerant-Undercharged, Exi: Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Elec Res / Central AC	01_Elec Res / Central AC	Residential	Detached	Home	80% SEER, and 80% capacity	8.35 SEER, Full capacity
3	Central AC (Refrigerant-Undercharged, Exi: Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Heat Pump / Central AC	01_Heat Pump / Central AC	Residential	Detached	Home	80% SEER, and 80% capacity	10.1 SEER, Full capacity
4	Central AC (Refrigerant-Undercharged, Exi: Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	01_Multifamily	Residential	Multifamily	Home	80% SEER, and 80% capacity	9.17 SEER, Full capacity
5	Central AC (Refrigerant-Overcharged, Exist Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	02_Gas Furnace / Central AC	Residential	Detached	Home	95% SEER, and 95% capacity	9.17 SEER, Full capacity
6	Central AC (Refrigerant-Overcharged, Exist Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Elec Res / Central AC	02_Elec Res / Central AC	Residential	Detached	Home	95% SEER, and 95% capacity	8.35 SEER, Full capacity
7	Central AC (Refrigerant-Overcharged, Exist Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Heat Pump / Central AC	02_Heat Pump / Central AC	Residential	Detached	Home	95% SEER, and 95% capacity	10.1 SEER, Full capacity
8	Central AC (Refrigerant-Overcharged, Exist Central AC (Correct charge, Existing)	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	02_Multifamily	Residential	Multifamily	Home	95% SEER, and 95% capacity	9.17 SEER, Full capacity
9	Low evaporator airflow A	Increase duct sizes or add new ducts	Gas Furnace / Central AC	Residential Cooling	Residential	Detached	Home	70% DSE	Std. Baseline DSE (Varies
10	Low evaporator airflow A	Increase duct sizes or add new ducts	Elec Res / Central AC	Residential Cooling	Residential	Detached	Home	70% DSE	Std. Baseline DSE (Varies
11	Low evaporator airflow A	Increase duct sizes or add new ducts	Heat Pump / Central AC	Residential Cooling	Residential	Detached	Home	70% DSE	Std. Baseline DSE (Varies
12	Low evaporator airflow A	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	Residential Cooling	Residential	Multifamily	Home	70% DSE	Std. Baseline DSE (Varies
13	Low evaporator airflow B	Increase blower speed	Gas Furnace / Central AC	Residential Cooling	Residential	Detached	Home	N/A	N/A
14	Low evaporator airflow B	Increase blower speed	Elec Res / Central AC	Residential Cooling	Residential	Detached	Home	N/A	N/A
15	Low evaporator airflow B	Increase blower speed	Heat Pump / Central AC	Residential Cooling	Residential	Detached	Home	N/A	N/A
16	Low evaporator airflow B	Increase blower speed	Gas Furnace / Central AC - MF	Residential Cooling	Residential	Multifamily	Home	N/A	N/A
17	Duct Leakage 15%	Duct Leakage 5%	Gas Furnace / Central AC	Residential Cooling	Residential	Detached	Home	25%	5%
18	Duct Leakage 15%	Duct Leakage 5%	Elec Res / Central AC	Residential Cooling	Residential	Detached	Home	25%	5%
19	Duct Leakage 15%	Duct Leakage 5%	Heat Pump / Central AC	Residential Cooling	Residential	Detached	Home	25%	5%
20	Duct Leakage 15%	Duct Leakage 5%	Gas Furnace / Central AC - MF	Residential Cooling	Residential	Multifamily	Home	10%	5%
21	Oversized AC units A	Size AC units to 100% of Manual J	Gas Furnace / Central AC	06_Gas Furnace / Central AC	Residential	Detached	Home	1.5 System Sizing	1 System Rating
22	Oversized AC units A	Size AC units to 100% of Manual J	Elec Res / Central AC	06_Elec Res / Central AC	Residential	Detached	Home	1.5 System Sizing	1 System Rating
23	Oversized AC units A	Size AC units to 100% of Manual J	Heat Pump / Central AC	06_Heat Pump / Central AC	Residential	Detached	Home	1.5 System Sizing	1 System Rating
24	Oversized AC units A	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	06_Multifamily	Residential	Multifamily	Home	1.5 System Sizing	1 System Rating
25	Undersized AC units B	Size AC units to 100% of Manual J	Gas Furnace / Central AC	07_Gas Furnace / Central AC	Residential	Detached	Home	0.85 System Sizing	1 System Rating
26	Undersized AC units B	Size AC units to 100% of Manual J	Elec Res / Central AC	07_Elec Res / Central AC	Residential	Detached	Home	0.85 System Sizing	1 System Rating
27	Undersized AC units B	Size AC units to 100% of Manual J	Heat Pump / Central AC	07_Heat Pump / Central AC	Residential	Detached	Home	0.85 System Sizing	1 System Rating
28	Undersized AC units B	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	07_Multifamily	Residential	Multifamily	Home	0.85 System Sizing	1 System Rating
29	Duct Insulation R-4	Duct Insulation R-8	Gas Furnace / Central AC	Residential Cooling	Residential	Detached	Home	R-4	R-8
30	Duct Insulation R-4	Duct Insulation R-8	Elec Res / Central AC	Residential Cooling	Residential	Detached	Home	R-4	R-8
31	Duct Insulation R-4	Duct Insulation R-8	Heat Pump / Central AC	Residential Cooling	Residential	Detached	Home	R-4	R-8
32	Duct Insulation R-4	Duct Insulation R-8	Gas Furnace / Central AC - MF	Residential Cooling	Residential	Multifamily	Home	R-4	R-8
33	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Exi: Gas Furnace / Central AC	09-11_Gas Furnace / Central AC	Residential	Detached	Home	Home	13 SEER	16 SEER
34	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Exi: Elec Res / Central AC	09-11_Elec Res / Central AC	Residential	Detached	Home	Home	13 SEER	16 SEER
35	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Exi: Heat Pump / Central AC	09-11_Heat Pump / Central AC	Residential	Detached	Home	Home	13 SEER	16 SEER, 9.0 HSPF
36	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Exi: Gas Furnace / Central AC - MF	09-11_Multifamily	Residential	Multifamily	Home	Home	13 SEER	16 SEER
37	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (14 SEER, Exi: Gas Furnace / Central AC	09-11_Gas Furnace / Central AC	Residential	Detached	Home	Home	13 SEER	14 SEER
38	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	Gas Furnace / Central AC	12_Gas Furnace / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)
39	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	Elec Res / Central AC	12_Elec Res / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)
40	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	Heat Pump / Central AC	12_Heat Pump / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)
41	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	12_Multifamily	Residential	Multifamily	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)
42	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	Gas Furnace / Central AC	13_Gas Furnace / Central AC	Residential	Detached	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)
43	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	Elec Res / Central AC	13_Elec Res / Central AC	Residential	Detached	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)
44	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	Heat Pump / Central AC	13_Heat Pump / Central AC	Residential	Detached	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)
45	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	13_Multifamily	Residential	Multifamily	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)
46	No Wall Insulation	R-11 Wall Insulation	Gas Furnace / Central AC	14_Gas Furnace / Central AC	Residential	Detached	Home	Wall R-1.01 (Air Gap)	Wall R-11
47	No Wall Insulation	R-11 Wall Insulation	Elec Res / Central AC	14_Elec Res / Central AC	Residential	Detached	Home	Wall R-1.01 (Air Gap)	Wall R-11
48	No Wall Insulation	R-11 Wall Insulation	Heat Pump / Central AC	14_Heat Pump / Central AC	Residential	Detached	Home	Wall R-1.01 (Air Gap)	Wall R-11
49	No Wall Insulation	R-11 Wall Insulation	Gas Furnace / Central AC - MF	14_Multifamily	Residential	Multifamily	Home	Wall R-1.01 (Air Gap)	Wall R-11
50	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	15_Gas Furnace / Central AC	Residential	Detached	Home	R-0	R-19
51	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	Elec Res / Central AC	15_Elec Res / Central AC	Residential	Detached	Home	R-0	R-19
52	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	15_Heat Pump / Central AC	Residential	Detached	Home	R-0	R-19
53	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	Gas Furnace / Central AC	16_Gas Furnace / Central AC	Residential	Detached	Home	0.8 ACH	0.35 ACH
54	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	Elec Res / Central AC	16_Elec Res / Central AC	Residential	Detached	Home	0.8 ACH	0.35 ACH
55	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	Heat Pump / Central AC	16_Heat Pump / Central AC	Residential	Detached	Home	0.8 ACH	0.35 ACH
56	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	16_Multifamily	Residential	Multifamily	Home	0.8 ACH	0.35 ACH
57	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	17_Gas Furnace / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.65/ SHGC 0.6
58	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	17_Elec Res / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.65/ SHGC 0.6
59	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	17_Heat Pump / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.65/ SHGC 0.6
60	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	17_Multifamily	Residential	Multifamily	Home	U-value 0.75/ SHGC 0.6	U-value 0.65/ SHGC 0.6
61	Single Pane Windows (Existing)	Low-E Windows (Existing)	Gas Furnace / Central AC	18_Gas Furnace / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.35/ SHGC 0.35
62	Single Pane Windows (Existing)	Low-E Windows (Existing)	Elec Res / Central AC	18_Elec Res / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.35/ SHGC 0.35
63	Single Pane Windows (Existing)	Low-E Windows (Existing)	Heat Pump / Central AC	18_Heat Pump / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.35/ SHGC 0.35
64	Single Pane Windows (Existing)	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	18_Multifamily	Residential	Multifamily	Home	U-value 0.75/ SHGC 0.6	U-value 0.35/ SHGC 0.35
65	Standard Windows (Existing)	Efficient Windows (Existing)	Gas Furnace / Central AC	19_Gas Furnace / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-Value: 0.30 / SHGC: 0.1
66	Standard Windows (Existing)	Efficient Windows (Existing)	Elec Res / Central AC	19_Elec Res / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-Value: 0.30 / SHGC: 0.1

Measure ID	Base Technology	Efficient Technology	HVAC System and/or End-use	Load Shape (End Use, between Rows 982-1576 below)	Sector	Sub Sector	Unit Definition	Base Efficiency Definition	Efficient Efficiency Definition
67	Standard Windows (Existing)	Efficient Windows (Existing)	Heat Pump / Central AC	19_Heat Pump / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-Value: 0.30 / SHGC: 0.3
68	Standard Windows (Existing)	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	20_Multifamily	Residential	Multifamily	Home	U-value 0.75/ SHGC 0.6	U-Value: 0.30 / SHGC: 0.3
69	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	20_Gas Furnace / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.75/ SHGC 0.35
70	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	20_Elec Res / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.75/ SHGC 0.35
71	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	20_Heat Pump / Central AC	Residential	Detached	Home	U-value 0.75/ SHGC 0.6	U-value 0.75/ SHGC 0.35
72	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	20_Multifamily	Residential	Multifamily	Home	U-value 0.75/ SHGC 0.6	U-value 0.75/ SHGC 0.35
73	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	21_Gas Furnace / Central AC	Residential	Detached	Home	Summer shading = 0.75	Summer shading = 0.4
74	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	Elec Res / Central AC	21_Elec Res / Central AC	Residential	Detached	Home	Summer shading = 0.75	Summer shading = 0.4
75	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	Heat Pump / Central AC	21_Heat Pump / Central AC	Residential	Detached	Home	Summer shading = 0.75	Summer shading = 0.4
76	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	21_Multifamily	Residential	Multifamily	Home	Summer shading = 0.75	Summer shading = 0.4
77	Incandescent lamp	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	Residential Lighting	Residential	Detached	1 compact lamp	60 watt incandescent	15 watt CFL
78	Incandescent lamp	Compact fluorescent lamp (CFL)	Elec Res / Central AC	Residential Lighting	Residential	Detached	1 compact lamp	60 watt incandescent	15 watt CFL
79	Incandescent lamp	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	Residential Lighting	Residential	Detached	1 compact lamp	60 watt incandescent	15 watt CFL
80	Incandescent lamp	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	60 watt incandescent	15 watt CFL
81	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	23_Gas Furnace / Central AC	Residential	Detached	Home	NAECA Standard	15% Over NAECA Standard
82	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	23_Elec Res / Central AC	Residential	Detached	Home	NAECA Standard	15% Over NAECA Standard
83	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	23_Heat Pump / Central AC	Residential	Detached	Home	NAECA Standard	15% Over NAECA Standard
84	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	23_Multifamily	Residential	Multifamily	Home	NAECA Standard	15% Over NAECA Standard
85	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	25_Gas Furnace / Central AC	Residential	Detached	Home	0.46 EF	0.58 EF
86	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	25_Elec Res / Central AC	Residential	Detached	Home	0.46 EF	0.58 EF
87	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	25_Heat Pump / Central AC	Residential	Detached	Home	0.46 EF	0.58 EF
88	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	25_Multifamily	Residential	Multifamily	Home	0.46 EF	0.58 EF
89	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	Gas Furnace / Central AC	26_Gas Furnace / Central AC	Residential	Detached	Home	1.26 MEF	1.72 MEF
90	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	Elec Res / Central AC	26_Elec Res / Central AC	Residential	Detached	Home	1.26 MEF	1.72 MEF
91	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	Heat Pump / Central AC	26_Heat Pump / Central AC	Residential	Detached	Home	1.26 MEF	1.72 MEF
92	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	Gas Furnace / Central AC - MF	26_Multifamily	Residential	Multifamily	Home	1.26 MEF	1.72 MEF
93	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	Gas Furnace / Central AC	27_Gas Furnace / Central AC	Residential	Detached	Home	Manual Thermostat	Programmable Thermostat
94	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	Elec Res / Central AC	27_Elec Res / Central AC	Residential	Detached	Home	Manual Thermostat	Programmable Thermostat
95	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	Heat Pump / Central AC	27_Heat Pump / Central AC	Residential	Detached	Home	Manual Thermostat	Programmable Thermostat
96	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	27_Multifamily	Residential	Multifamily	Home	Manual Thermostat	Programmable Thermostat
97	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	Gas Furnace / Central AC	Residential Electric Hot Water	Residential	Detached	Home	100% Faucet Use	20% reduction in Hot water
98	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	Elec Res / Central AC	Residential Electric Hot Water	Residential	Detached	Home	100% Faucet Use	20% reduction in Hot water
99	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	Heat Pump / Central AC	Residential Electric Hot Water	Residential	Detached	Home	100% Faucet Use	20% reduction in Hot water
100	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	Home	100% Faucet Use	20% reduction in Hot water
101	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	Residential Electric Hot Water	Residential	Detached	Home	100% Hot water Shower Usage	20% reduction in Hot water
102	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	Elec Res / Central AC	Residential Electric Hot Water	Residential	Detached	Home	100% Hot water Shower Usage	20% reduction in Hot water
103	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	Residential Electric Hot Water	Residential	Detached	Home	100% Hot water Shower Usage	20% reduction in Hot water
104	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	Home	100% Hot water Shower Usage	20% reduction in Hot water
105	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	Residential Electric Hot Water	Residential	Detached	Home	R-0	R-3 around DHW storage
106	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	Residential Electric Hot Water	Residential	Detached	Home	R-0	R-3 around DHW storage
107	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	Residential Electric Hot Water	Residential	Detached	Home	R-0	R-3 around DHW storage
108	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	Home	R-0	R-3 around DHW storage
109	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	Gas Furnace / Central AC	Residential Electric Hot Water	Residential	Detached	Home	R-0	R-4
110	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	Elec Res / Central AC	Residential Electric Hot Water	Residential	Detached	Home	R-0	R-4
111	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	Heat Pump / Central AC	Residential Electric Hot Water	Residential	Detached	Home	R-0	R-4
112	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	Home	R-0	R-4
113	Std. Doors R-2 (Existing)	Doors R-4 (Existing)	Gas Furnace / Central AC	33_Gas Furnace / Central AC	Residential	Detached	Home	R-4	R-8
114	Std. Doors R-2 (New)	Doors R-4 (Existing)	Elec Res / Central AC	33_Elec Res / Central AC	Residential	Detached	Home	R-4	R-8
115	Std. Doors R-2 (New)	Doors R-4 (Existing)	Heat Pump / Central AC	33_Heat Pump / Central AC	Residential	Detached	Home	R-4	R-8
116	Std. Doors R-2 (New)	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	33_Multifamily	Residential	Multifamily	Home	R-4	R-8
117	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	Gas Furnace / Central AC	34_Gas Furnace / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)
118	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	Elec Res / Central AC	34_Elec Res / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)
119	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	Heat Pump / Central AC	34_Heat Pump / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)
120	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	34_Multifamily	Residential	Multifamily	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)
121	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	Gas Furnace / Central AC	35_Gas Furnace / Central AC	Residential	Detached	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)
122	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	Elec Res / Central AC	35_Elec Res / Central AC	Residential	Detached	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)
123	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	Heat Pump / Central AC	35_Heat Pump / Central AC	Residential	Detached	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)
124	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	35_Multifamily	Residential	Multifamily	Home	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)
125	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex	Gas Furnace / Central AC	36_Gas Furnace / Central AC	Residential	Detached	Home	9.8 EER	10.8 EER
126	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex	Elec Res / Central AC	36_Elec Res / Central AC	Residential	Detached	Home	9.8 EER	10.8 EER
127	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex	Elec Res / Central AC	36_Elec Res / Central AC	Residential	Multifamily	Home	9.8 EER	10.8 EER
128	Electric Strip Heat	Ground Source Heat Pump	Heat Pump / Central AC	37_Heat Pump / Central AC	Residential	Detached	Home	1 COP	20SEER/ 13.5 HSPF
129	Electric Strip Heat	Ground Source Heat Pump	Heat Pump / Central AC	37_Heat Pump / Central AC	Residential	Multifamily	Home	1 COP	20SEER/ 13.5 HSPF
130	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	38_Gas Furnace / Central AC	Residential	Detached	Home	9.8 EER	75 CFM/Watt
131	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan	Elec Res / Central AC	38_Elec Res / Central AC	Residential	Detached	Home	9.8 EER	75 CFM/Watt
132	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan	Elec Res / Central AC	38_Elec Res / Central AC	Residential	Multifamily	Home	9.8 EER	75 CFM/Watt

Measure ID	Base Technology	Efficient Technology	HVAC System and/or End-use	Load Shape (End Use, between Rows 982-1576 below)	Sector	Sub Sector	Unit Definition	Base Efficiency Definition	Efficient Efficiency Definition
133	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	39_Gas Furnace / Central AC	Residential	Detached	Home	200 kWh	115 kWh
134	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	39_Elec Res / Central AC	Residential	Detached	Home	200 kWh	115 kWh
135	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	39_Heat Pump / Central AC	Residential	Detached	Home	200 kWh	115 kWh
136	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	39_Multifamily	Residential	Multifamily	Home	200 kWh	115 kWh
137	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	40_Gas Furnace / Central AC	Residential	Detached	Home	Base	Energy Star
138	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	40_Elec Res / Central AC	Residential	Detached	Home	Base	Energy Star
139	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	40_Heat Pump / Central AC	Residential	Detached	Home	Base	Energy Star
140	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	40_Multifamily	Residential	Multifamily	Home	Base	Energy Star
141	Standard Home (Existing)	Home Performance with ENERGY STAR (E Gas Furnace / Central AC	41_Gas Furnace / Central AC	Residential	Detached	Home	Baseline	Energy Star	Energy Star
142	Standard Home (Existing)	Home Performance with ENERGY STAR (E Elec Res / Central AC	41_Elec Res / Central AC	Residential	Detached	Home	Baseline	Energy Star	Energy Star
143	Standard Home (Existing)	Home Performance with ENERGY STAR (E Heat Pump / Central AC	41_Heat Pump / Central AC	Residential	Detached	Home	Baseline	Energy Star	Energy Star
144	Standard Home (Existing)	Home Performance with ENERGY STAR (E Gas Furnace / Central AC - MF	41_Multifamily	Residential	Multifamily	Home	Baseline	Energy Star	Energy Star
145	Standard Home (New)	ENERGY STAR Home (New)	Gas Furnace / Central AC	42_Gas Furnace / Central AC	Residential	Detached	Home	Baseline	Energy Star
146	Standard Home (New)	ENERGY STAR Home (New)	Heat Pump / Central AC	42_Heat Pump / Central AC	Residential	Detached	Home	Baseline	Energy Star
147	Standard Home (New)	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	42_Multifamily	Residential	Multifamily	Home	Baseline	Energy Star
148	Existing Home (82 AFUE, 13 SEER)	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	43_Heat Pump / Central AC	Residential	Detached	Home	13 SEER Baseline	8.2/8.5 HSPF
149	Old refrigerator	Refrigerator recycling	Gas Furnace / Central AC	Residential Refrigerator	Residential	Detached	1 refrigerator	UEC = 2148 kWh	Refrigerator recycled
150	Old refrigerator	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	Residential Refrigerator	Residential	Detached	1 refrigerator	UEC = 2148 kWh	18 cubic feet
151	Electric water heater, EF=0.88	Heat pump water heater, EF=2.9	Elec Res / Central AC	Residential Electric Hot Water	Residential	Detached	1 water heater	EF=0.88	EF=2.9
152	Electric water heater, EF=0.88	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	1 water heater	EF=0.88	EF=2.9
153	Electric water heater, EF=0.88	High Efficiency Water Heater - Gas, EF = 0	Gas Furnace / Central AC	Residential Electric Hot Water	Residential	Detached	1 water heater	EF=0.88 (Electric)	EF=0.63 (Gas)
154	Electric water heater, EF=0.88	High Efficiency Water Heater - Gas, EF = 0	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	1 water heater	EF=0.88 (Electric)	EF=0.63 (Gas)
155	Gas Water Heater EF=0.594	Point of Use Water Heat	Gas Furnace / Central AC	Residential Electric Hot Water	Residential	Detached	1 water heater	EF=0.594 (Gas)	Point of Use
156	Gas Water Heater EF=0.594	Point of Use Water Heat	Gas Furnace / Central AC - MF	Residential Electric Hot Water	Residential	Multifamily	1 water heater	EF=0.594 (Gas)	Point of Use
157	No night ventilation	Whole House Fan	Gas Furnace / Central AC	Residential Cooling	Residential	Detached	1 unit	No night ventilation	Whole House Fan
158	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	Gas Furnace / Central AC	12_Gas Furnace / Central AC	Residential	Detached	Home	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)
159	No Wall Insulation	R-11 Wall Insulation	Gas Furnace / Central AC	14_Gas Furnace / Central AC	Residential	Detached	Home	Wall R-1.01 (Air Gap)	Wall R-11
160	Incandescent lamp	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	Residential Lighting	Residential	Detached	1 compact lamp	60 watt incandescent	15 watt CFL
161	Incandescent lamp	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	40W, < 800 lumens	13W, < 800 lumens
162	Incandescent lamp	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	60W, > 800 lumens	15W, > 800 lumens
163	Incandescent lamp	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	75W, > 1100 lumens	18W, > 1100 lumens
164	Incandescent lamp	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	100W, > 1600 lumens	23W, > 1600 lumens
165	Incandescent lamp	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	40W, < 800 lumens	13W, < 800 lumens
166	Incandescent lamp	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	60W, > 800 lumens	15W, > 800 lumens
167	Incandescent lamp	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	75W, > 1100 lumens	18W, > 1100 lumens
168	Incandescent lamp	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 compact lamp	100W, > 1600 lumens	23W, > 1600 lumens
169	2' 4" T12 34 watt lamps with magnetic ballas	2' 4" T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	4 ft. 2 lamp fixture	2' 4" T12 34 watt lamps	2' 4" T8 32 watt lamps
170	2' 4" T12 34 watt lamps with magnetic ballas	2' 4" Super T8 28 watt lamps with electronic	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	4 ft. 2 lamp fixture	2' 4" T12 34 watt lamps	2' 4" Super T8 28 watt lamp
171	2' 4" T12 34 watt lamps with magnetic ballas	1' 4" T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	4 ft. 2 lamp fixture	2' 4" T12 34 watt lamps	1' 4" T8 32 watt lamps
172	2' 4" T12 34 watt lamps with magnetic ballas	2' 4" T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	4 ft. 2 lamp fixture	2' 4" T12 34 watt lamps	2' 4" T8 32 watt lamps
173	2' 4" T12 34 watt lamps with magnetic ballas	2' 4" T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	4 ft. 2 lamp fixture	2' 4" T12 34 watt lamps	2' 4" T8 32 watt lamps
174	2' 4" T8 32 watt lamps with electronic ballast	2' 4" Super T8 28 watt lamps with electronic	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	4 ft. 2 lamp fixture	2' 4" T8 32 watt lamps	2' 4" Super T8 28 watt lamp
175	2' 8" T12 60 watt lamps with magnetic ballas	2' 8" T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	8 ft. 2 lamp fixture	2' 8" T12 60 watt lamps	2' 8" T8 59 watt lamps
176	2' 8" T12 60 watt lamps with magnetic ballas	2' 8" Super T8 59 watt lamps with electronic	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	8 ft. 2 lamp fixture	2' 8" T12 60 watt lamps	2' 8" Super T8 59 watt lamp
177	2' 8" T12 60 watt lamps with magnetic ballas	1' 8" T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	8 ft. 2 lamp fixture	2' 8" T12 60 watt lamps	1' 8" T8 59 watt lamps
178	2' 8" T12 60 watt lamps with magnetic ballas	2' 8" T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	8 ft. 2 lamp fixture	2' 8" T12 60 watt lamps	2' 8" T8 59 watt lamps
179	2' 8" T12 60 watt lamps with magnetic ballas	2' 8" T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	8 ft. 2 lamp fixture	2' 8" T12 60 watt lamps	2' 8" T8 59 watt lamps
180	2' 8" T8 59 watt lamps with electronic ballast	2' 8" Super T8 59 watt lamps with electronic	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	8 ft. 2 lamp fixture	2' 8" T8 59 watt lamps	2' 8" Super T8 59 watt lamp
181	No occupancy sensor	Occupancy sensor - Assume control 3 2-lar	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 wall box		
182	No timeclock	Timeclock - Controlling 4 - 70W (95W w/ball	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 timeclock		
183	No photocell	Photocell - Assume in conjunction with time	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 photocell		
184	Incandescent Exit Sign	LED Exit Sign (new)	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 sign		
185	Incandescent Exit Sign	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 sign		
186	Incandescent Exit Sign	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 sign		
187	Incandescent Exit Sign	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	Residential Lighting	Residential	Multifamily	1 sign		
188	Boiler-No Reset	Boiler-Reset	Chiller & Boiler	Boiler-Reset Education Chiller & Boi	Commercial	Education	1 building	Constant hot water temperature	Hot Water Loop temperat
189	Boiler-No Reset	Boiler-Reset	Chiller & Boiler	Boiler-Reset Health Inpatient Chiller	Commercial	Health Inpatient	1 building	Constant hot water temperature	Hot Water Loop temperat
190	Boiler-No Reset	Boiler-Reset	Chiller & Boiler	Boiler-Reset Lodging Chiller & Boile	Commercial	Lodging	1 building	Constant hot water temperature	Hot Water Loop temperat
191	Boiler-No Reset	Boiler-Reset	Chiller & Boiler	Boiler-Reset Retail Chiller & Boiler	Commercial	Retail	1 building	Constant hot water temperature	Hot Water Loop temperat
192	Boiler-No Reset	Boiler-Reset	Chiller & Boiler	Boiler-Reset Office - Large Chiller & Commercial	Office - Large		1 building	Constant hot water temperature	Hot Water Loop temperat
193	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Education Pkg AC & G	Commercial	Education	1 building	Constant hot water temperature	Hot Water Loop temperat
194	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Food Sales Pkg AC & (	Commercial	Food Sales	1 building	Constant hot water temperature	Hot Water Loop temperat
195	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Food Service Pkg AC & Commercial	Food Service		1 building	Constant hot water temperature	Hot Water Loop temperat
196	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Health Inpatient Pkg AC	Commercial	Health Inpatient	1 building	Constant hot water temperature	Hot Water Loop temperat
197	Boiler-No Reset	Boiler-Reset	PTAC w Elec Heat	Boiler-Reset Lodging PTAC w Elec	Commercial	Lodging	1 building	Constant hot water temperature	Hot Water Loop temperat
198	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Retail Pkg AC & Gas F	Commercial	Retail	1 building	Constant hot water temperature	Hot Water Loop temperat
199	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Office - Small Pkg AC & Commercial	Office - Small		1 building	Constant hot water temperature	Hot Water Loop temperat

Measure ID	Base Technology	Efficient Technology	HVAC System and/or End-use	Load Shape (End Use, between Rows 982-1576 below)	Sector	Sub Sector	Unit Definition	Base Efficiency Definition	Efficient Efficiency Definition
267	Economizer - No Maintenance	Economizer Lim	PTAC w Elec Heat	Economizer Lim Lodging PTAC w E Commercial	Lodging		tons served	DB limit = 55, Max OSA = 60%	DB limit = 68, Max OSA =
268	Economizer - No Maintenance	Economizer Lim	Pkg AC & Gas Furn	Economizer Lim Retail Pkg AC & G Commercial	Retail		tons served	DB limit = 55, Max OSA = 60%	DB limit = 68, Max OSA =
269	Economizer - No Maintenance	Economizer Lim	Pkg AC & Gas Furn	Economizer Lim Office - Small Pkg Commercial	Office - Small		tons served	DB limit = 55, Max OSA = 60%	DB limit = 68, Max OSA =
270	Economizer - No Maintenance	Economizer Lim	Pkg AC & Gas Furn	Economizer Lim Warehouse Pkg AC Commercial	Warehouse		tons served	DB limit = 55, Max OSA = 60%	DB limit = 68, Max OSA =
271	No Economizer	No Econ	Chiller & Boiler	No Econ Education Chiller & Boiler Commercial	Education		tons served	No Economizer	DB limit = 68, Max OSA =
272	No Economizer	No Econ	Chiller & Boiler	No Econ Health Inpatient Chiller & B Commercial	Health Inpatient		tons served	No Economizer	DB limit = 68, Max OSA =
273	No Economizer	No Econ	Chiller & Boiler	No Econ Lodging Chiller & Boiler Commercial	Lodging		tons served	No Economizer	DB limit = 68, Max OSA =
274	No Economizer	No Econ	Chiller & Boiler	No Econ Retail Chiller & Boiler Commercial	Retail		tons served	No Economizer	DB limit = 68, Max OSA =
275	No Economizer	No Econ	Chiller & Boiler	No Econ Office - Large Chiller & Boi Commercial	Office - Large		tons served	No Economizer	DB limit = 68, Max OSA =
276	Floor Insulation based on vintage	Floor Insulation	Chiller & Boiler	Floor Insulation Education Chiller & Commercial	Education		1000 sq ft	Vintage	Current Standard
277	Floor Insulation based on vintage	Floor Insulation	Chiller & Boiler	Floor Insulation Health Inpatient Chi Commercial	Health Inpatient		1000 sq ft	Vintage	Current Standard
278	Floor Insulation based on vintage	Floor Insulation	Chiller & Boiler	Floor Insulation Lodging Chiller & B Commercial	Lodging		1000 sq ft	Vintage	Current Standard
279	Floor Insulation based on vintage	Floor Insulation	Chiller & Boiler	Floor Insulation Retail Chiller & Boile Commercial	Retail		1000 sq ft	Vintage	Current Standard
280	Floor Insulation based on vintage	Floor Insulation	Chiller & Boiler	Floor Insulation Office - Large Chille Commercial	Office - Large		1000 sq ft	Vintage	Current Standard
281	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Education Pkg AC & Commercial	Education		1000 sq ft	Vintage	Current Standard
282	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Food Sales Pkg AC Commercial	Food Sales		1000 sq ft	Vintage	Current Standard
283	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Food Service Pkg A Commercial	Food Service		1000 sq ft	Vintage	Current Standard
284	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Health Inpatient Pkg Commercial	Health Inpatient		1000 sq ft	Vintage	Current Standard
285	Floor Insulation based on vintage	Floor Insulation	PTAC w Elec Heat	Floor Insulation Lodging PTAC w El Commercial	Lodging		1000 sq ft	Vintage	Current Standard
286	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Retail Pkg AC & Ga Commercial	Retail		1000 sq ft	Vintage	Current Standard
287	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Office - Small Pkg A Commercial	Office - Small		1000 sq ft	Vintage	Current Standard
288	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Warehouse Pkg AC Commercial	Warehouse		1000 sq ft	Vintage	Current Standard
289	Non-Optimized OA	Optimized OA	Chiller & Boiler	Optimized OA Education Chiller & B Commercial	Education		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
290	Non-Optimized OA	Optimized OA	Chiller & Boiler	Optimized OA Health Inpatient Chille Commercial	Health Inpatient		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
291	Non-Optimized OA	Optimized OA	Chiller & Boiler	Optimized OA Lodging Chiller & Boil Commercial	Lodging		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
292	Non-Optimized OA	Optimized OA	Chiller & Boiler	Optimized OA Retail Chiller & Boiler Commercial	Retail		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
293	Non-Optimized OA	Optimized OA	Chiller & Boiler	Optimized OA Office - Large Chiller Commercial	Office - Large		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
294	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Education Pkg AC & Commercial	Education		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
295	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Food Sales Pkg AC & Commercial	Food Sales		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
296	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Food Service Pkg AC Commercial	Food Service		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
297	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Health Inpatient Pkg Commercial	Health Inpatient		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
298	Non-Optimized OA	Optimized OA	PTAC w Elec Heat	Optimized OA Lodging PTAC w Elec Commercial	Lodging		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
299	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Retail Pkg AC & Gas Commercial	Retail		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
300	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Office - Small Pkg AC Commercial	Office - Small		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
301	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Warehouse Pkg AC & Commercial	Warehouse		1000 sq ft	Base ventilation rate 25% higher t standard ventilation rate	
302	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Education Commercial	Education		tons served	AC EER = 8.3	AC EER = 10.8
303	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Food Sale Commercial	Food Sales		tons served	AC EER = 8.3	AC EER = 10.8
304	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Food Serv Commercial	Food Service		tons served	AC EER = 8.3	AC EER = 10.8
305	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Health Inp Commercial	Health Inpatient		tons served	AC EER = 8.3	AC EER = 10.8
306	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		PTAC w Elec Heat	Hotel, Non-Residential Cooling Commercial	Lodging		tons served	AC EER = 8.3	AC EER = 10.8
307	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Retail Pkg Commercial	Retail		tons served	AC EER = 8.3	AC EER = 10.8
308	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Office - Sn Commercial	Office - Small		tons served	AC EER = 8.3	AC EER = 10.8
309	Base efficiency packaged unitary system A/ Packaged Unit Efficiency		Pkg AC & Gas Furn	Packaged Unit Efficiency Warehouse Commercial	Warehouse		tons served	AC EER = 8.3	AC EER = 10.8
310	No AHU schedule	Scheduled AHU	Chiller & Boiler	Scheduled AHU Education Chiller & Commercial	Education		1 building	Supply fan runs continuously	Supply fan operation matc
311	No AHU schedule	Scheduled AHU	Chiller & Boiler	Scheduled AHU Health Inpatient Ch Commercial	Health Inpatient		1 building	Supply fan runs continuously	Supply fan operation matc
312	No AHU schedule	Scheduled AHU	Chiller & Boiler	Scheduled AHU Lodging Chiller & E Commercial	Lodging		1 building	Supply fan runs continuously	Supply fan operation matc
313	No AHU schedule	Scheduled AHU	Chiller & Boiler	Scheduled AHU Retail Chiller & Boi Commercial	Retail		1 building	Supply fan runs continuously	Supply fan operation matc
314	No AHU schedule	Scheduled AHU	Chiller & Boiler	Scheduled AHU Office - Large Chill Commercial	Office - Large		1 building	Supply fan runs continuously	Supply fan operation matc
315	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Education Pkg AC Commercial	Education		1 building	Supply fan runs continuously	Supply fan operation matc
316	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Food Sales Pkg AC Commercial	Food Sales		1 building	Supply fan runs continuously	Supply fan operation matc
317	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Food Service Pkg Commercial	Food Service		1 building	Supply fan runs continuously	Supply fan operation matc
318	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Health Inpatient Pk Commercial	Health Inpatient		1 building	Supply fan runs continuously	Supply fan operation matc
319	No AHU schedule	Scheduled AHU	PTAC w Elec Heat	Scheduled AHU Lodging PTAC w E Commercial	Lodging		1 building	Supply fan runs continuously	Supply fan operation matc
320	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Retail Pkg AC & G Commercial	Retail		1 building	Supply fan runs continuously	Supply fan operation matc
321	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Office, Small, Non-Residential Interi Commercial	Office - Small		1 building	Supply fan runs continuously	Supply fan operation matc
322	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Warehouse Pkg AC Commercial	Warehouse		1 building	Supply fan runs continuously	Supply fan operation matc
323	Constant air volume	VAV	Chiller & Boiler	VAV Education Chiller & Boiler Commercial	Education		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
324	Constant air volume	VAV	Chiller & Boiler	VAV Health Inpatient Chiller & Boile Commercial	Health Inpatient		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
325	Constant air volume	VAV	Chiller & Boiler	VAV Lodging Chiller & Boiler Commercial	Lodging		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
326	Constant air volume	VAV	Chiller & Boiler	VAV Retail Chiller & Boiler Commercial	Retail		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
327	Constant air volume	VAV	Chiller & Boiler	VAV Office - Large Chiller & Boiler Commercial	Office - Large		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
328	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Education Pkg AC & Gas Furn Commercial	Education		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
329	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Food Sales Pkg AC & Gas Furn Commercial	Food Sales		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
330	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Food Service Pkg AC & Gas Fi Commercial	Food Service		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
331	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Health Inpatient Pkg AC & Gas Commercial	Health Inpatient		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
332	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Retail Pkg AC & Gas Furn Commercial	Retail		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
333	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Office - Small Pkg AC & Gas F Commercial	Office - Small		1000 sq ft	Constant Volume air flow	damper controlled VAV wi

Measure ID	Base Technology	Efficient Technology	HVAC System and/or End-use	Load Shape (End Use, between Rows 982-1576 below)	Sector	Sub Sector	Unit Definition	Base Efficiency Definition	Efficient Efficiency Definition
602	Motor - base case	Premium Efficiency Motor	Motors	Service, Non-Residential Electric Mi Commercial	All		1 motor	20 HP, Closed Drip Proof: 2820 H20 HP, Closed Drip Proof:	
603	Motor - base case	Premium Efficiency Motor	Motors	Service, Non-Residential Electric Mi Commercial	All		1 motor	25 HP, Closed Drip Proof: 2820 H25 HP, Closed Drip Proof:	
604	Motor - base case	Premium Efficiency Motor	Motors	Service, Non-Residential Electric Mi Commercial	All		1 motor	50 HP, Closed Drip Proof: 2820 H50 HP, Closed Drip Proof:	
605	Motor - base case	Premium Efficiency Motor	Motors	Service, Non-Residential Electric Mi Commercial	All		1 motor	100 HP, Closed Drip Proof: 2820 100 HP, Closed Drip Proo	
606	Motor - base case	Premium Efficiency Motor	Motors	Service, Non-Residential Electric Mi Commercial	All		1 motor	150 HP, Closed Drip Proof: 2820 150 HP, Closed Drip Proo	
607	Motor - base case	Premium Efficiency Motor	Motors	Service, Non-Residential Electric Mi Commercial	All		1 motor	200 HP, Closed Drip Proof: 2215 200 HP, Closed Drip Proo	
608	Copy Machine - No idle-off control	High Efficiency Copier	Office equipment	Office, Large, Non-Residential Office Commercial	All		1 copier	No idle-off control	20 copies/minute, copy on
609	Base desktop power supply	80 Plus desktop power supply	Office equipment	Office, Large, Non-Residential Office Commercial	All		1 unit	1 unit	1 unit
610	Base server power supply	80 Plus server power supply	Office equipment	Office, Large, Non-Residential Office Commercial	All		1 unit	1 unit	1 unit
611	Normal Fryer, Base use = 2.8 kW/hour	High Efficiency Electric Fryer, Efficient use : Cooking		Service, Non-Residential Electric Cc Commercial	All		1 fryer	45-65 lbs cap; Normal Fryer	45-65 lbs cap; Base use =
612	Normal Holding Cabinet, Base use = 1.35 k	Hot Food Holding Cabinet, Efficient use = 0	Cooking	Service, Non-Residential Electric Cc Commercial	All		1 cabinet	Normal Holding Cabinet	Base use = 1.35 kW/hour;
613	Connected Steamer, Base use = 1.0 kW/ho	Connectionless Steamer, Efficient use = 0.5	Cooking	Service, Non-Residential Electric Cc Commercial	All		1 steamer	Connected Steamer	Base use = 1.0 kW/hour; I
614	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	Hot water	Service, Non-Residential Electric Mi Commercial	Education		1000 sq ft	1000 sq ft	1000 sq ft
615	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	Hot water	Service, Non-Residential Electric Mi Commercial	Food Sales		1000 sq ft	1000 sq ft	1000 sq ft
616	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	Hot water	Service, Non-Residential Electric Mi Commercial	Office - Large		1000 sq ft	1000 sq ft	1000 sq ft
617	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	Hot water	Service, Non-Residential Electric Mi Commercial	Retail		1000 sq ft	1000 sq ft	1000 sq ft
618	Electric water heater with EF of 0.98 (basec	Tankless electric hot water system	Hot water	Service, Non-Residential Electric Mi Commercial	Office - Large		1000 sq ft	1000 sq ft	1000 sq ft
619	Electric water heater with EF of 0.98 (basec	Tankless electric hot water system	Hot water	Service, Non-Residential Electric Mi Commercial	Office - Small		1000 sq ft	1000 sq ft	1000 sq ft
620	Electric water heater with EF of 0.98 (basec	Tankless electric hot water system	Hot water	Service, Non-Residential Electric Mi Commercial	Warehouse		1000 sq ft	1000 sq ft	1000 sq ft
621	DHW R-6 tank insulation	DHW R-12 tank insulation	Hot water	Service, Non-Residential Electric Mi Commercial	Food Sales		1000 sq ft	1000 sq ft	1000 sq ft
622	Pre-rinse spray valve	Energy Efficient pre-rinse spray valve	Hot water	Service, Non-Residential Electric Mi Commercial	All		1 unit	2.0+ GPM	1.6 GPM
623	Standard air-cooled multiplex, lights on all h	Turn off fixture lights when store closed, bel	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		fixture linear feet	fixture linear feet	fixture linear feet
624	Standard air-cooled multiplex system, SCT	Floating SCT controlled to 70°F	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
625	Standard evap-cooled multiplex system, SC	Floating SCT controlled to 70°F	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
626	Standard air-cooled multiplex system, SST	Floating SST control on LT and MT suction	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
627	Standard air-cooled multiplex system, SCT	Ambient following SCT setpoint, 70°F minin	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
628	Standard evap-cooled multiplex system, SC	Wetbulb following SCT setpoint, 70°F minin	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
629	Standard air-cooled multiplex system, SCT	Ambient following SCT setpoint, 70°F minin	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
630	Standard evap-cooled multiplex system, SC	Wetbulb following SCT setpoint, 70°F minin	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
631	Evaporator fan runs continuously, psc or sp	Cycle fan off with thermostat; duty cycle occ	Refrigeration - controls	Grocery, Non-Residential Refrigerat Commercial	Food Sales		1 motor	1 motor	1 motor
632	Standard air-cooled multiplex system, no h	Adds an 85°F holdback valve, active only w	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		1000 sq ft	1000 sq ft	1000 sq ft
633	Open cases with no night cover	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		display fixture lengt	display fixture length	display fixture length
634	Multiplex air cooled condenser of vintage-d	Upgrade from 53 Btu/Watt @ 10°F TD to 85	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
635	Utilizes a shaded-pole motor	Substitute high efficiency motors for standa	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		fixture linear feet	fixture linear feet	fixture linear feet
636	Multiplex evaporative condenser of vintage-	Reduce design SCT by ~5°F and improve e	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
637	Multiplex air cooled condenser of vintage-d	Replace multiplex air-cooled condenser wit	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
638	Utilizes a shaded-pole motor	Substitute high efficiency motors for standa	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		1 motor	1 motor	1 motor
639	Standard air-cooled multiplex system, no s	Addition of LT and MT subcoolers to an air-	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
640	Standard air-cooled multiplex system, no s	Addition of a LT subcooler to an air-cooled	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
641	No door closer	Install automatic door closer on walk-in cool	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		Per cooler	Per cooler	Per cooler
642	No door closer	Install automatic door closer on walk-in free	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		Per freezer	Per freezer	Per freezer
643	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
644	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
645	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
646	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
647	Open cases with no night cover	Replace open MT case with new case with	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		fixture linear feet	fixture linear feet	fixture linear feet
648	Open cases with no night cover	Retrofit glass doors on open MT cases; add	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		fixture linear feet	fixture linear feet	fixture linear feet
649	Standard air-cooled multiplex, with door anc	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	Grocery, Non-Residential Refrigerat Commercial	Food Sales		Per door	Per door	Per door
650	Standard air-cooled multiplex, SST setpoint	Air-cooled multiplex system w/extensive ref	Refrigeration - maintenance	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
651	Standard evap-cooled multiplex, SST setpo	Extensive refrigeration equipment maintena	Refrigeration - maintenance	Grocery, Non-Residential Refrigerat Commercial	Food Sales		tons served	tons served	tons served
652	No AHU schedule	Scheduled AHU	Pkg AC & Gas Furn	Scheduled AHU Warehouse Pkg A Industrial	Industrial		1 building	Supply fan runs continuously	Supply fan operation matc
653	Boiler-No Reset	Boiler-Reset	Pkg AC & Gas Furn	Boiler-Reset Warehouse Pkg AC & Industrial	Industrial		1 building	Constant hot water temperature	Hot Water Loop temperatr
654	Chiller-No Reset	Chiller-Reset	Pkg AC & Gas Furn	Chiller-Reset Warehouse Pkg AC & Industrial	Industrial		1 building	Constant chilled water temperatur	Chilled Water Loop tempe
655	Coils not cleaned	Cleaned Coil	Pkg AC & Gas Furn	Cleaned Coil Warehouse Pkg AC & Industrial	Industrial		tons served	Cooling equipment efficiency is de	Standard equipment effici
656	Economizer - No Maintenance	Economizer Lim	Pkg AC & Gas Furn	Economizer Lim Warehouse Pkg AC Industrial	Industrial		tons served	DB limit = 55, Max OSA = 60%	DB limit = 68, Max OSA =
657	Non-Optimized OA	Optimized OA	Pkg AC & Gas Furn	Optimized OA Warehouse Pkg AC & Industrial	Industrial		1000 sq ft	Base ventilation rate 25% higher t	standard ventilation rate
658	Constant air volume	VAV	Pkg AC & Gas Furn	VAV Warehouse Pkg AC & Gas Fur Industrial	Industrial		1000 sq ft	Constant Volume air flow	damper controlled VAV wi
659	Ceiling Insulation based on vintage	Ceiling Insulation	Pkg AC & Gas Furn	Ceiling Insulation Warehouse Pkg A Industrial	Industrial		1000 sq ft	Vintage	Current Standard
660	Non-Light Colored Roof	Cool Roof	Pkg AC & Gas Furn	Cool Roof Warehouse Pkg AC & Ga Industrial	Industrial		1000 sq ft	Roof absorptivity = 0.80	Roof absorptivity = 0.45
661	Floor Insulation based on vintage	Floor Insulation	Pkg AC & Gas Furn	Floor Insulation Warehouse Pkg AC Industrial	Industrial		1000 sq ft	Vintage	Current Standard
662	Base efficiency packaged unitary system A/	Packaged Unit Efficiency	Pkg AC & Gas Furn	Packaged Unit Efficiency Warehouse Industrial	Industrial		tons served	AC EER = 8.3	AC EER = 10.8
663	Incandescent lamp	Integral CFL, screw-in	Lighting - interior	Warehouse, NonRefrig., Non-Reside Industrial	Industrial		1 compact lamp	40W, < 800 lumens	13W, < 800 lumens
664	Incandescent lamp	Integral CFL, screw-in	Lighting - interior	Warehouse, NonRefrig., Non-Reside Industrial	Industrial		1 compact lamp	60W, > 800 lumens	15W, > 800 lumens
665	Incandescent lamp	Integral CFL, screw-in	Lighting - interior	Warehouse, NonRefrig., Non-Reside Industrial	Industrial		1 compact lamp	75W, > 1100 lumens	18W, > 1100 lumens
666	Incandescent lamp	Integral CFL, screw-in	Lighting - interior	Warehouse, NonRefrig., Non-Reside Industrial	Industrial		1 compact lamp	100W, > 1600 lumens	23W, > 1600 lumens
667	Incandescent lamp	Modular CFL, pin based	Lighting - interior	Warehouse, NonRefrig., Non-Reside Industrial	Industrial		1 compact lamp	40W, < 800 lumens	13W, < 800 lumens
668	Incandescent lamp	Modular CFL, pin based	Lighting - interior	Warehouse, NonRefrig., Non-Reside Industrial	Industrial		1 compact lamp	60W, > 800 lumens	15W, > 800 lumens

Measure ID	Base Technology	Efficient Technology	HVAC System and/or End-use	Load Shape (End Use, between Rows 982-1576 below)	Sector	Sub Sector	Unit Definition	Base Efficiency Definition	Efficient Efficiency Definition
803	Base case	Fans - Motor practices-1 (6-100 HP)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	2.40%
804	Base case	Fans - Replace 100+ HP motor	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	3.10%
805	Base case	Fans - ASD (100+ hp)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	6.41%
806	Base case	Fans - Motor practices-1 (100+ HP)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	1.50%
807	Base case	Optimize drying process	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	20.00%
808	Base case	Pumps - O&M	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	10.00%
809	Base case	Pumps - Controls	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	30.00%
810	Base case	Pumps - System Optimization	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	33.00%
811	Base case	Pumps - Sizing	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	20.00%
812	Base case	Pumps - Replace 1-5 HP motor	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	5.70%
813	Base case	Pumps - ASD (1-5 hp)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	6.41%
814	Base case	Pumps - Motor practices-1 (1-5 HP)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	4.80%
815	Base case	Pumps - Replace 6-100 HP motor	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	3.50%
816	Base case	Pumps - ASD (6-100 hp)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	6.41%
817	Base case	Pumps - Motor practices-1 (6-100 HP)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	2.40%
818	Base case	Pumps - Replace 100+ HP motor	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	3.10%
819	Base case	Pumps - ASD (100+ hp)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	6.41%
820	Base case	Pumps - Motor practices-1 (100+ HP)	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 kWh	(Savings % in Column K)	1.50%
821	Base case	Efficient refrigeration - operations	Refrigeration	Warehouse, NonRefrig., Non-Reside	Industrial	SIC20	1 kWh	(Savings % in Column K)	12.00%
822	Base case	Optimization refrigeration	Refrigeration	Warehouse, NonRefrig., Non-Reside	Industrial	SIC20	1 kWh	(Savings % in Column K)	26.00%
823	Base case	Bakery - process	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC20	1 kWh	(Savings % in Column K)	37.00%
824	Base case	Bakery - process (mixing)	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC20	1 kWh	(Savings % in Column K)	10.00%
825	Base case	Clean room - controls	HVAC	Warehouse, NonRefrig., Non-Reside	Industrial	SIC28	1 kWh	(Savings % in Column K)	10.00%
826	Base case	Clean room - new designs	HVAC	Warehouse, NonRefrig., Non-Reside	Industrial	SIC28	1 kWh	(Savings % in Column K)	30.00%
827	Base case	Process controls (batch + site)	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC28	1 kWh	(Savings % in Column K)	8.00%
828	Base case	O&M - extruders / injection molding	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC30	1 kWh	(Savings % in Column K)	10.00%
829	Base case	Extruders / injection molding - multipump	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC30	1 kWh	(Savings % in Column K)	30.00%
830	Base case	Direct drive extruders	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC30	1 kWh	(Savings % in Column K)	50.00%
831	Base case	Injection molding - impulse cooling	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC30	1 kWh	(Savings % in Column K)	21.00%
832	Base case	Injection molding - direct drive	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC30	1 kWh	(Savings % in Column K)	20.00%
833	Base case	Efficient grinding	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC32	1 kWh	(Savings % in Column K)	21.00%
834	Base case	Process controls	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC32	1 kWh	(Savings % in Column K)	2.00%
835	Base case	Top-heating (glass)	Process Heating	Warehouse, NonRefrig., Non-Reside	Industrial	SIC32	1 kWh	(Savings % in Column K)	4.00%
836	Base case	Process controls	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC33	1 kWh	(Savings % in Column K)	5.00%
837	Base case	Efficient electric melting	Process Heating	Warehouse, NonRefrig., Non-Reside	Industrial	SIC33	1 kWh	(Savings % in Column K)	10.00%
838	Base case	Near net shape casting	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC33	1 kWh	(Savings % in Column K)	12.00%
839	Base case	Optimization process (M&T)	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC34	1 kWh	(Savings % in Column K)	10.00%
840	Base case	Scheduling	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC34	1 kWh	(Savings % in Column K)	5.47%
841	Base case	Efficient curing ovens	Process Heating	Warehouse, NonRefrig., Non-Reside	Industrial	SIC34	1 kWh	(Savings % in Column K)	20.00%
842	Base case	Machinery	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC34	1 kWh	(Savings % in Column K)	7.00%
843	Base case	Optimization process (M&T)	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC35	1 kWh	(Savings % in Column K)	10.00%
844	Base case	Scheduling	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC35	1 kWh	(Savings % in Column K)	5.47%
845	Base case	Efficient curing ovens	Process Heating	Warehouse, NonRefrig., Non-Reside	Industrial	SIC35	1 kWh	(Savings % in Column K)	20.00%
846	Base case	Machinery	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC35	1 kWh	(Savings % in Column K)	7.00%
847	Base case	Optimization process (M&T)	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC37	1 kWh	(Savings % in Column K)	10.00%
848	Base case	Scheduling	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC37	1 kWh	(Savings % in Column K)	5.47%
849	Base case	Efficient curing ovens	Process Heating	Warehouse, NonRefrig., Non-Reside	Industrial	SIC37	1 kWh	(Savings % in Column K)	20.00%
850	Base case	Machinery	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC37	1 kWh	(Savings % in Column K)	10.80%
851	Base case	Scheduling	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC36	1 kWh	(Savings % in Column K)	5.00%
852	Base case	Efficient curing ovens	Process Heating	Warehouse, NonRefrig., Non-Reside	Industrial	SIC36	1 kWh	(Savings % in Column K)	20.00%
853	Base case	Machinery	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC36	1 kWh	(Savings % in Column K)	3.50%
854	Base case	Efficient processes (welding, etc.)	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC36	1 kWh	(Savings % in Column K)	25.00%
855	Base case	Scheduling	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC39/21/31	1 kWh	(Savings % in Column K)	5.00%
856	Base case	Efficient machinery	Machine Drive	Warehouse, NonRefrig., Non-Reside	Industrial	SIC39/21/31	1 kWh	(Savings % in Column K)	3.50%
857	Base case	Process controls	Process	Warehouse, NonRefrig., Non-Reside	Industrial	SIC39/21/31	1 kWh	(Savings % in Column K)	4.00%
858	No direct load control - AC	Direct load control - air conditioner	All systems	Residential Cooling	Residential	Detached	1 building	Base case - 100%	Savings - 50%
859	No direct load control - hot water	Direct load control - hot water heater	All systems	Residential Electric Hot Water	Residential	Detached	1 building	Base case - 100%	Savings - 100%
860	Any pricing - no CPP events	Critical peak pricing - CPP events	All systems	Residential Electric Total	Residential	Detached	1 building	Base case - 100%	Savings - 12.95%
861	Any pricing - no CPP events or smart therm	Critical peak pricing - CPP events with sma	All systems	Residential Electric Total	Residential	Detached	1 building	Base case - 100%	Savings - 23.44%
862	Any pricing - no CPP events	Critical peak pricing - CPP events	All systems	Office, Small, Non-Residential Cooli	Commercial	All	1 building	Base case - 100%	Savings - 4.93%
863	Any pricing - no CPP events or smart therm	Critical peak pricing - CPP events with sma	All systems	Office, Small, Non-Residential Cooli	Commercial	All	1 building	Base case - 100%	Savings - 9.57%
864	No Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	Warehouse, NonRefrig., Non-Reside	Industrial	All	1 building	Base case - 100%	Savings - 100%
865	No Commercial Demand Credit	Commercial Demand Credit	All systems	Office, Large, Non-Residential Cooli	Commercial	All	1 building	Base case - 100%	Savings - 50%

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg, # of Homes)	Relevance (eg, % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
1	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	10															
2	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	10															
3	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	10															
4	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	10															
5	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	10															
6	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	10															
7	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	10															
8	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	10															
9	Low evaporator airflow A	Increase duct sizes or add new ducts	18															
10	Low evaporator airflow A	Increase duct sizes or add new ducts	18															
11	Low evaporator airflow A	Increase duct sizes or add new ducts	18															
12	Low evaporator airflow A	Increase duct sizes or add new ducts	18															
13	Low evaporator airflow B	Increase blower speed	18															
14	Low evaporator airflow B	Increase blower speed	18															
15	Low evaporator airflow B	Increase blower speed	18															
16	Low evaporator airflow B	Increase blower speed	18															
17	Duct Leakage 15%	Duct Leakage 5%	18															
18	Duct Leakage 15%	Duct Leakage 5%	18															
19	Duct Leakage 15%	Duct Leakage 5%	18															
20	Duct Leakage 15%	Duct Leakage 5%	18															
21	Oversized AC units A	Size AC units to 100% of Manual J	15															
22	Oversized AC units A	Size AC units to 100% of Manual J	15															
23	Oversized AC units A	Size AC units to 100% of Manual J	15															
24	Oversized AC units A	Size AC units to 100% of Manual J	15															
25	Undersized AC units B	Size AC units to 100% of Manual J	15															
26	Undersized AC units B	Size AC units to 100% of Manual J	15															
27	Undersized AC units B	Size AC units to 100% of Manual J	15															
28	Undersized AC units B	Size AC units to 100% of Manual J	15															
29	Duct Insulation R-4	Duct Insulation R-8	20															
30	Duct Insulation R-4	Duct Insulation R-8	20															
31	Duct Insulation R-4	Duct Insulation R-8	20															
32	Duct Insulation R-4	Duct Insulation R-8	20															
33	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	18															
34	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	18															
35	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	18															
36	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	18															
37	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (14 SEER, Existing)	18															
38	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	20															
39	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	20															
40	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	20															
41	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	20															
42	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	20															
43	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	20															
44	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	20															
45	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	20															
46	No Wall Insulation	R-11 Wall Insulation	20															
47	No Wall Insulation	R-11 Wall Insulation	20															
48	No Wall Insulation	R-11 Wall Insulation	20															
49	No Wall Insulation	R-11 Wall Insulation	20															
50	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	20															
51	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	20															
52	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	20															
53	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	20															
54	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	20															
55	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	20															
56	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	20															
57	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	20															
58	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	20															
59	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	20															
60	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	20															
61	Single Pane Windows (Existing)	Low-E Windows (Existing)	20															
62	Single Pane Windows (Existing)	Low-E Windows (Existing)	20															
63	Single Pane Windows (Existing)	Low-E Windows (Existing)	20															
64	Single Pane Windows (Existing)	Low-E Windows (Existing)	20															
65	Standard Windows (Existing)	Efficient Windows (Existing)	20															
66	Standard Windows (Existing)	Efficient Windows (Existing)	20															

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67	Standard Windows (Existing)	Efficient Windows (Existing)																
68	Standard Windows (Existing)	Efficient Windows (Existing)																
69	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)																
70	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)																
71	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)																
72	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)																
73	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)																
74	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)																
75	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)																
76	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)																
77	Incandescent lamp	Compact fluorescent lamp (CFL)																
78	Incandescent lamp	Compact fluorescent lamp (CFL)																
79	Incandescent lamp	Compact fluorescent lamp (CFL)																
80	Incandescent lamp	Compact fluorescent lamp (CFL)																
81	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)																
82	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)																
83	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)																
84	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)																
85	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)																
86	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)																
87	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)																
88	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)																
89	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006																
90	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006																
91	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006																
92	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006																
93	Manual Thermostat (Existing)	Programmable Thermostat (Existing)																
94	Manual Thermostat (Existing)	Programmable Thermostat (Existing)																
95	Manual Thermostat (Existing)	Programmable Thermostat (Existing)																
96	Manual Thermostat (Existing)	Programmable Thermostat (Existing)																
97	No Faucet Aerators (Existing)	Faucet Aerators (Existing)																
98	No Faucet Aerators (Existing)	Faucet Aerators (Existing)																
99	No Faucet Aerators (Existing)	Faucet Aerators (Existing)																
100	No Faucet Aerators (Existing)	Faucet Aerators (Existing)																
101	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)																
102	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)																
103	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)																
104	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)																
105	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)																
106	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)																
107	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)																
108	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)																
109	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)																
110	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)																
111	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)																
112	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)																
113	Std. Doors R-2 (Existing)	Doors R-4 (Existing)																
114	Std. Doors R-2 (New)	Doors R-4 (Existing)																
115	Std. Doors R-2 (New)	Doors R-4 (Existing)																
116	Std. Doors R-2 (New)	Doors R-4 (Existing)																
117	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)																
118	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)																
119	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)																
120	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)																
121	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)																
122	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)																
123	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)																
124	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)																
125	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex																
126	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex																
127	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex																
128	Electric Strip Heat	Ground Source Heat Pump																
129	Electric Strip Heat	Ground Source Heat Pump																
130	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan																
131	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan																
132	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan																

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133	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	12															
134	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	12															
135	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	12															
136	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	12															
137	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	11															
138	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	11															
139	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	11															
140	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	11															
141	Standard Home (Existing)	Home Performance with ENERGY STAR (E	18															
142	Standard Home (Existing)	Home Performance with ENERGY STAR (E	18															
143	Standard Home (Existing)	Home Performance with ENERGY STAR (E	18															
144	Standard Home (Existing)	Home Performance with ENERGY STAR (E	18															
145	Standard Home (New)	ENERGY STAR Home (New)	18															
146	Standard Home (New)	ENERGY STAR Home (New)	18															
147	Standard Home (New)	ENERGY STAR Home (New)	18															
148	Existing Home (82 AFUE, 13 SEER)	Existing Home (8.2/8.5 HSPF, 14 SEER)	15															
149	Old refrigerator	Refrigerator recycling	5															
150	Old refrigerator	Standard Refrigerator (Existing) - NAECA	18															
151	Electric water heater, EF=0.88	Heat pump water heater, EF=2.9	10															
152	Electric water heater, EF=0.88	Heat pump water heater, EF=2.9	10															
153	Electric water heater, EF=0.88	High Efficiency Water Heater - Gas, EF = 0	13															
154	Electric water heater, EF=0.88	High Efficiency Water Heater - Gas, EF = 0	13															
155	Gas Water Heater EF=0.594	Point of Use Water Heat	20															
156	Gas Water Heater EF=0.594	Point of Use Water Heat	20															
157	No night ventilation	Whole House Fan	15															
158	Existing Insulation R-13	Existing Insulation R=30	20															
159	Roof Wall Insulation	Rat 1 wall insulation	20															
160	Roof Wall Insulation	Roof Wall Insulation	9.1															
161	Incandescent lamp	Integral CFL, screw-in	2															
162	Incandescent lamp	Integral CFL, screw-in	2															
163	Incandescent lamp	Integral CFL, screw-in	2															
164	Incandescent lamp	Integral CFL, screw-in	2															
165	Incandescent lamp	Modular CFL, pin based	12															
166	Incandescent lamp	Modular CFL, pin based	12															
167	Incandescent lamp	Modular CFL, pin based	12															
168	Incandescent lamp	Modular CFL, pin based	12															
169	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	11															
170	2 4' T12 34 watt lamps with magnetic ballas	2 4' Super T8 28 watt lamps with electronic	11															
171	2 4' T12 34 watt lamps with magnetic ballas	1 4' T8 32 watt lamps with electronic ballast	11															
172	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	11															
173	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	11															
174	2 4' T8 32 watt lamps with electronic ballast	2 4' Super T8 28 watt lamps with electronic	11															
175	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	11															
176	2 8' T12 60 watt lamps with magnetic ballas	2 8' Super T8 59 watt lamps with electronic	11															
177	2 8' T12 60 watt lamps with magnetic ballas	1 8' T8 59 watt lamps with electronic ballast	11															
178	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	11															
179	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	11															
180	2 8' T8 59 watt lamps with electronic ballast	2 8' Super T8 59 watt lamps with electronic	11															
181	No occupancy sensor	Occupancy sensor - Assume control 3 2-lan	8															
182	No timedclock	Timedclock - Controlling 4 - 70W (95W w/ball	8															
183	No photocell	Photocell - Assume in conjunction with time	8															
184	Incandescent Exit Sign	LED Exit Sign (new)	16															
185	Incandescent Exit Sign	LED Exit Sign (retrofit kit)	16															
186	Incandescent Exit Sign	Electroluminescent Exit Sign (New)	16															
187	Incandescent Exit Sign	Electroluminescent Exit Sign Retrofit Kit	16															
188	Boiler-No Reset	Boiler-Reset	10															
189	Boiler-No Reset	Boiler-Reset	10															
190	Boiler-No Reset	Boiler-Reset	10															
191	Boiler-No Reset	Boiler-Reset	10															
192	Boiler-No Reset	Boiler-Reset	10															
193	Boiler-No Reset	Boiler-Reset	10															
194	Boiler-No Reset	Boiler-Reset	10															
195	Boiler-No Reset	Boiler-Reset	10															
196	Boiler-No Reset	Boiler-Reset	10															
197	Boiler-No Reset	Boiler-Reset	10															
198	Boiler-No Reset	Boiler-Reset	10															
199	Boiler-No Reset	Boiler-Reset	10															

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200	Boiler-No Reset	Boiler-Reset	10															
201	Ceiling Insulation based on vintage	Ceiling Insulation	20															
202	Ceiling Insulation based on vintage	Ceiling Insulation	20															
203	Ceiling Insulation based on vintage	Ceiling Insulation	20															
204	Ceiling Insulation based on vintage	Ceiling Insulation	20															
205	Ceiling Insulation based on vintage	Ceiling Insulation	20															
206	Ceiling Insulation based on vintage	Ceiling Insulation	20															
207	Ceiling Insulation based on vintage	Ceiling Insulation	20															
208	Ceiling Insulation based on vintage	Ceiling Insulation	20															
209	Ceiling Insulation based on vintage	Ceiling Insulation	20															
210	Ceiling Insulation based on vintage	Ceiling Insulation	20															
211	Ceiling Insulation based on vintage	Ceiling Insulation	20															
212	Ceiling Insulation based on vintage	Ceiling Insulation	20															
213	Ceiling Insulation based on vintage	Ceiling Insulation	20															
214	Water cooled centrifugal chiller	Chiller Efficiency	20															
215	Water cooled centrifugal chiller	Chiller Efficiency	20															
216	Water cooled centrifugal chiller	Chiller Efficiency	20															
217	Water cooled centrifugal chiller	Chiller Efficiency	20															
218	Water cooled centrifugal chiller	Chiller Efficiency	20															
219	Chiller-No Reset	Chiller-Reset	10															
220	Chiller-No Reset	Chiller-Reset	10															
221	Chiller-No Reset	Chiller-Reset	10															
222	Chiller-No Reset	Chiller-Reset	10															
223	Chiller-No Reset	Chiller-Reset	10															
224	Chiller-No Reset	Chiller-Reset	10															
225	Chiller-No Reset	Chiller-Reset	10															
226	Chiller-No Reset	Chiller-Reset	10															
227	Chiller-No Reset	Chiller-Reset	10															
228	Chiller-No Reset	Chiller-Reset	10															
229	Chiller-No Reset	Chiller-Reset	10															
230	Chiller-No Reset	Chiller-Reset	10															
231	Chiller-No Reset	Chiller-Reset	10															
232	Coils not cleaned	Cleaned Coil	3															
233	Coils not cleaned	Cleaned Coil	3															
234	Coils not cleaned	Cleaned Coil	3															
235	Coils not cleaned	Cleaned Coil	3															
236	Coils not cleaned	Cleaned Coil	3															
237	Coils not cleaned	Cleaned Coil	3															
238	Coils not cleaned	Cleaned Coil	3															
239	Coils not cleaned	Cleaned Coil	3															
240	Coils not cleaned	Cleaned Coil	3															
241	Coils not cleaned	Cleaned Coil	3															
242	Coils not cleaned	Cleaned Coil	3															
243	Coils not cleaned	Cleaned Coil	3															
244	Coils not cleaned	Cleaned Coil	3															
245	Non-Light Colored Roof	Cool Roof	15															
246	Non-Light Colored Roof	Cool Roof	15															
247	Non-Light Colored Roof	Cool Roof	15															
248	Non-Light Colored Roof	Cool Roof	15															
249	Non-Light Colored Roof	Cool Roof	15															
250	Non-Light Colored Roof	Cool Roof	15															
251	Non-Light Colored Roof	Cool Roof	15															
252	Non-Light Colored Roof	Cool Roof	15															
253	Non-Light Colored Roof	Cool Roof	15															
254	Non-Light Colored Roof	Cool Roof	15															
255	Non-Light Colored Roof	Cool Roof	15															
256	Non-Light Colored Roof	Cool Roof	15															
257	Non-Light Colored Roof	Cool Roof	15															
258	Economizer - No Maintenance	Economizer Lim	3															
259	Economizer - No Maintenance	Economizer Lim	3															
260	Economizer - No Maintenance	Economizer Lim	3															
261	Economizer - No Maintenance	Economizer Lim	3															
262	Economizer - No Maintenance	Economizer Lim	3															
263	Economizer - No Maintenance	Economizer Lim	3															
264	Economizer - No Maintenance	Economizer Lim	3															
265	Economizer - No Maintenance	Economizer Lim	3															
266	Economizer - No Maintenance	Economizer Lim	3															

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267	Economizer - No Maintenance	Economizer Lim	3															
268	Economizer - No Maintenance	Economizer Lim	3															
269	Economizer - No Maintenance	Economizer Lim	3															
270	Economizer - No Maintenance	Economizer Lim	3															
271	No Economizer	No Econ	15															
272	No Economizer	No Econ	15															
273	No Economizer	No Econ	15															
274	No Economizer	No Econ	15															
275	No Economizer	No Econ	15															
276	Floor Insulation based on vintage	Floor Insulation	20															
277	Floor Insulation based on vintage	Floor Insulation	20															
278	Floor Insulation based on vintage	Floor Insulation	20															
279	Floor Insulation based on vintage	Floor Insulation	20															
280	Floor Insulation based on vintage	Floor Insulation	20															
281	Floor Insulation based on vintage	Floor Insulation	20															
282	Floor Insulation based on vintage	Floor Insulation	20															
283	Floor Insulation based on vintage	Floor Insulation	20															
284	Floor Insulation based on vintage	Floor Insulation	20															
285	Floor Insulation based on vintage	Floor Insulation	20															
286	Floor Insulation based on vintage	Floor Insulation	20															
287	Floor Insulation based on vintage	Floor Insulation	20															
288	Floor Insulation based on vintage	Floor Insulation	20															
289	Non-Optimized OA	Optimized OA	10															
290	Non-Optimized OA	Optimized OA	10															
291	Non-Optimized OA	Optimized OA	10															
292	Non-Optimized OA	Optimized OA	10															
293	Non-Optimized OA	Optimized OA	10															
294	Non-Optimized OA	Optimized OA	10															
295	Non-Optimized OA	Optimized OA	10															
296	Non-Optimized OA	Optimized OA	10															
297	Non-Optimized OA	Optimized OA	10															
298	Non-Optimized OA	Optimized OA	10															
299	Non-Optimized OA	Optimized OA	10															
300	Non-Optimized OA	Optimized OA	10															
301	Non-Optimized OA	Optimized OA	10															
302	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
303	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
304	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
305	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
306	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
307	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
308	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
309	Base efficiency packaged unitary system	A ₁ Packaged Unit Efficiency	15															
310	No AHU schedule	Scheduled AHU	10															
311	No AHU schedule	Scheduled AHU	10															
312	No AHU schedule	Scheduled AHU	10															
313	No AHU schedule	Scheduled AHU	10															
314	No AHU schedule	Scheduled AHU	10															
315	No AHU schedule	Scheduled AHU	10															
316	No AHU schedule	Scheduled AHU	10															
317	No AHU schedule	Scheduled AHU	10															
318	No AHU schedule	Scheduled AHU	10															
319	No AHU schedule	Scheduled AHU	10															
320	No AHU schedule	Scheduled AHU	10															
321	No AHU schedule	Scheduled AHU	10															
322	No AHU schedule	Scheduled AHU	10															
323	Constant air volume	VAV	10															
324	Constant air volume	VAV	10															
325	Constant air volume	VAV	10															
326	Constant air volume	VAV	10															
327	Constant air volume	VAV	10															
328	Constant air volume	VAV	10															
329	Constant air volume	VAV	10															
330	Constant air volume	VAV	10															
331	Constant air volume	VAV	10															
332	Constant air volume	VAV	10															
333	Constant air volume	VAV	10															

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg, # of Homes)	Relevance (eg, % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
334	Constant air volume	VAV	10															
335	Chilled Water, Single Speed Pump	Variable CW Pump	10															
336	Chilled Water, Single Speed Pump	Variable CW Pump	10															
337	Chilled Water, Single Speed Pump	Variable CW Pump	10															
338	Chilled Water, Single Speed Pump	Variable CW Pump	10															
339	Chilled Water, Single Speed Pump	Variable CW Pump	10															
340	Hot Water, Single Speed Pump	Variable HW Pump	10															
341	Hot Water, Single Speed Pump	Variable HW Pump	10															
342	Hot Water, Single Speed Pump	Variable HW Pump	10															
343	Hot Water, Single Speed Pump	Variable HW Pump	10															
344	Hot Water, Single Speed Pump	Variable HW Pump	10															
345	New Construction Building	New Construction Building - with upgrades	30															
346	Incandescent lamp	Integral CFL, screw-in	3															
347	Incandescent lamp	Integral CFL, screw-in	3															
348	Incandescent lamp	Integral CFL, screw-in	3															
349	Incandescent lamp	Integral CFL, screw-in	3															
350	Incandescent lamp	Modular CFL, pin based	12															
351	Incandescent lamp	Modular CFL, pin based	12															
352	Incandescent lamp	Modular CFL, pin based	12															
353	Incandescent lamp	Modular CFL, pin based	12															
354	Incandescent lamp	Integral CFL, screw-in	1															
355	Incandescent lamp	Integral CFL, screw-in	1															
356	Incandescent lamp	Integral CFL, screw-in	1															
357	Incandescent lamp	Integral CFL, screw-in	1															
358	Incandescent lamp	Modular CFL, pin based	12															
359	Incandescent lamp	Modular CFL, pin based	12															
360	Incandescent lamp	Modular CFL, pin based	12															
361	Incandescent lamp	Modular CFL, pin based	12															
362	Incandescent lamp	Integral CFL, screw-in	2															
363	Incandescent lamp	Integral CFL, screw-in	2															
364	Incandescent lamp	Integral CFL, screw-in	2															
365	Incandescent lamp	Integral CFL, screw-in	2															
366	Incandescent lamp	Modular CFL, pin based	12															
367	Incandescent lamp	Modular CFL, pin based	12															
368	Incandescent lamp	Modular CFL, pin based	12															
369	Incandescent lamp	Modular CFL, pin based	12															
370	Incandescent lamp	Integral CFL, screw-in	1															
371	Incandescent lamp	Integral CFL, screw-in	1															
372	Incandescent lamp	Integral CFL, screw-in	1															
373	Incandescent lamp	Integral CFL, screw-in	1															
374	Incandescent lamp	Modular CFL, pin based	12															
375	Incandescent lamp	Modular CFL, pin based	12															
376	Incandescent lamp	Modular CFL, pin based	12															
377	Incandescent lamp	Modular CFL, pin based	12															
378	Incandescent lamp	Integral CFL, screw-in	1															
379	Incandescent lamp	Integral CFL, screw-in	1															
380	Incandescent lamp	Integral CFL, screw-in	1															
381	Incandescent lamp	Integral CFL, screw-in	1															
382	Incandescent lamp	Modular CFL, pin based	12															
383	Incandescent lamp	Modular CFL, pin based	12															
384	Incandescent lamp	Modular CFL, pin based	12															
385	Incandescent lamp	Modular CFL, pin based	12															
386	Incandescent lamp	Integral CFL, screw-in	3															
387	Incandescent lamp	Integral CFL, screw-in	3															
388	Incandescent lamp	Integral CFL, screw-in	3															
389	Incandescent lamp	Integral CFL, screw-in	3															
390	Incandescent lamp	Modular CFL, pin based	12															
391	Incandescent lamp	Modular CFL, pin based	12															
392	Incandescent lamp	Modular CFL, pin based	12															
393	Incandescent lamp	Modular CFL, pin based	12															
394	Incandescent lamp	Integral CFL, screw-in	3															
395	Incandescent lamp	Integral CFL, screw-in	3															
396	Incandescent lamp	Integral CFL, screw-in	3															
397	Incandescent lamp	Integral CFL, screw-in	3															
398	Incandescent lamp	Modular CFL, pin based	12															
399	Incandescent lamp	Modular CFL, pin based	12															
400	Incandescent lamp	Modular CFL, pin based	12															

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg, # of Homes)	Relevance (eg, % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
401	Incandescent lamp	Modular CFL, pin based	12															
402	Incandescent lamp	Integral CFL, screw-in	2															
403	Incandescent lamp	Integral CFL, screw-in	2															
404	Incandescent lamp	Integral CFL, screw-in	2															
405	Incandescent lamp	Integral CFL, screw-in	2															
406	Incandescent lamp	Modular CFL, pin based	12															
407	Incandescent lamp	Modular CFL, pin based	12															
408	Incandescent lamp	Modular CFL, pin based	12															
409	Incandescent lamp	Modular CFL, pin based	12															
410	Incandescent lamp	Integral CFL, screw-in	3															
411	Incandescent lamp	Integral CFL, screw-in	3															
412	Incandescent lamp	Integral CFL, screw-in	3															
413	Incandescent lamp	Integral CFL, screw-in	3															
414	Incandescent lamp	Modular CFL, pin based	12															
415	Incandescent lamp	Modular CFL, pin based	12															
416	Incandescent lamp	Modular CFL, pin based	12															
417	Incandescent lamp	Modular CFL, pin based	12															
418	Incandescent lamp	Integral CFL, screw-in	2															
419	Incandescent lamp	Integral CFL, screw-in	2															
420	Incandescent lamp	Integral CFL, screw-in	2															
421	Incandescent lamp	Integral CFL, screw-in	2															
422	Incandescent lamp	Modular CFL, pin based	12															
423	Incandescent lamp	Modular CFL, pin based	12															
424	Incandescent lamp	Modular CFL, pin based	12															
425	Incandescent lamp	Modular CFL, pin based	12															
426	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
427	2'4" T12 34 watt lamps with magnetic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
428	2'4" T12 34 watt lamps with magnetic ballast	1'4" T8 32 watt lamps with electronic ballast	11															
429	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
430	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
431	2'4" T8 32 watt lamps with electronic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
432	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
433	2'8" T12 60 watt lamps with magnetic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
434	2'8" T12 60 watt lamps with magnetic ballast	1'8" T8 59 watt lamps with electronic ballast	11															
435	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
436	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
437	2'8" T8 59 watt lamps with electronic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
438	150W Incandescent	50W Metal Halide	16															
439	100W Mercury Vapor	75W Metal Halide	16															
440	175W Mercury Vapor	100W Metal Halide	16															
441	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
442	2'4" T12 34 watt lamps with magnetic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
443	2'4" T12 34 watt lamps with magnetic ballast	1'4" T8 32 watt lamps with electronic ballast	11															
444	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
445	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
446	2'4" T8 32 watt lamps with electronic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
447	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
448	2'8" T12 60 watt lamps with magnetic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
449	2'8" T12 60 watt lamps with magnetic ballast	1'8" T8 59 watt lamps with electronic ballast	11															
450	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
451	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
452	2'8" T8 59 watt lamps with electronic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
453	150W Incandescent	50W Metal Halide	16															
454	100W Mercury Vapor	75W Metal Halide	16															
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456	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
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459	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
460	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
461	2'4" T8 32 watt lamps with electronic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
462	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
463	2'8" T12 60 watt lamps with magnetic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
464	2'8" T12 60 watt lamps with magnetic ballast	1'8" T8 59 watt lamps with electronic ballast	11															
465	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
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467	2'8" T8 59 watt lamps with electronic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg. # of Homes)	Relevance (eg. % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
468	150W Incandescent	50W Metal Halide	16															
469	100W Mercury Vapor	75W Metal Halide	16															
470	175W Mercury Vapor	100W Metal Halide	16															
471	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
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473	2'4" T12 34 watt lamps with magnetic ballast	1'4" T8 32 watt lamps with electronic ballast	11															
474	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
475	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
476	2'4" T8 32 watt lamps with electronic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
477	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
478	2'8" T12 60 watt lamps with magnetic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
479	2'8" T12 60 watt lamps with magnetic ballast	1'8" T8 59 watt lamps with electronic ballast	11															
480	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
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482	2'8" T8 59 watt lamps with electronic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
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486	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
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488	2'4" T12 34 watt lamps with magnetic ballast	1'4" T8 32 watt lamps with electronic ballast	11															
489	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
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524	2'8" T12 60 watt lamps with magnetic ballast	1'8" T8 59 watt lamps with electronic ballast	11															
525	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
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527	2'8" T8 59 watt lamps with electronic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
528	150W Incandescent	50W Metal Halide	16															
529	100W Mercury Vapor	75W Metal Halide	16															
530	175W Mercury Vapor	100W Metal Halide	16															
531	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
532	2'4" T12 34 watt lamps with magnetic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
533	2'4" T12 34 watt lamps with magnetic ballast	1'4" T8 32 watt lamps with electronic ballast	11															
534	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															

The image consists of a single, uniform black rectangle covering the entire area. There are no discernible features, text, or patterns.

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg, # of Homes)	Relevance (eg, % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
602	Motor - base case	Premium Efficiency Motor	15															
603	Motor - base case	Premium Efficiency Motor	15															
604	Motor - base case	Premium Efficiency Motor	15															
605	Motor - base case	Premium Efficiency Motor	15															
606	Motor - base case	Premium Efficiency Motor	15															
607	Motor - base case	Premium Efficiency Motor	15															
608	Copy Machine - No idle-off control	High Efficiency Copier	6															
609	Base desktop power supply	80 Plus desktop power supply	4															
610	Base server power supply	80 Plus server power supply	4															
611	Normal Fryer, Base use = 2.8 kW/hour	High Efficiency Electric Fryer, Efficient use = 0.5	12															
612	Normal Holding Cabinet, Base use = 1.35 kW/hour	Hot Food Holding Cabinet, Efficient use = 0.5	12															
613	Connected Steamer, Base use = 1.0 kW/hour	Connectionless Steamer, Efficient use = 0.5	12															
614	Domestic hot water circulation pump runs continuously	Domestic hot water circulation pump controlled	15															
615	Domestic hot water circulation pump runs continuously	Domestic hot water circulation pump controlled	15															
616	Domestic hot water circulation pump runs continuously	Domestic hot water circulation pump controlled	15															
617	Domestic hot water circulation pump runs continuously	Domestic hot water circulation pump controlled	15															
618	Electric water heater with EF of 0.98 (base)	Tankless electric hot water system	20															
619	Electric water heater with EF of 0.98 (base)	Tankless electric hot water system	20															
620	Electric water heater with EF of 0.98 (base)	Tankless electric hot water system	20															
621	DHWR-6 tank insulation	DHWR-12 tank insulation	10															
622	Pre-rinse spray valve	Energy Efficient pre-rinse spray valve	5															
623	Standard air-cooled multiplex system, lights on all the time	Turn off fixture lights when store closed, better	16															
624	Standard air-cooled multiplex system, SCT	Floating SCT controlled to 70°F	16															
625	Standard evaporator-cooled multiplex system, SCT	Floating SCT controlled to 70°F	16															
626	Standard air-cooled multiplex system, SST	Floating SST control on LT and MT suction	16															
627	Standard air-cooled multiplex system, SCT	Ambient following SCT setpoint, 70°F minimum	16															
628	Standard evaporator-cooled multiplex system, SC	Wetbulb following SCT setpoint, 70°F minimum	16															
629	Standard air-cooled multiplex system, SCT	Ambient following SCT setpoint, 70°F minimum	16															
630	Standard evaporator-cooled multiplex system, SC	Wetbulb following SCT setpoint, 70°F minimum	16															
631	Evaporator fan runs continuously, psc or sp	Cycle fan off with thermostat; duty cycle occurs	16															
632	Standard air-cooled multiplex system, no holdback	Adds an 85°F holdback valve, active only when	16															
633	Open cases with no night cover	Cover open MT cases between 1-5 a.m.	5															
634	Multiplex air cooled condenser of vintage-date	Upgrade from 53 Btu/Watt @ 10°F TD to 85	15															
635	Utilizes a shaded-pole motor	Substitute high efficiency motors for standard	15															
636	Multiplex evaporative condenser of vintage-date	Reduce design SCT by ~5°F and improve efficiency	15															
637	Multiplex air cooled condenser of vintage-date	Replace multiplex air-cooled condenser with	15															
638	Utilizes a shaded-pole motor	Substitute high efficiency motors for standard	15															
639	Standard air-cooled multiplex system, no subcoolers	Addition of LT and MT subcoolers to an air-	10															
640	Standard air-cooled multiplex system, no subcoolers	Addition of a LT subcooler to an air-cooled	10															
641	No door closer	Install automatic door closer on walk-in cool	8															
642	No door closer	Install automatic door closer on walk-in free	8															
643	Single-compressor system, air-cooled condenser	Replace single-compressor system with sub-	10															
644	Single-compressor system, air-cooled condenser	Replace single-compressor system with sub-	10															
645	Single-compressor system, air-cooled condenser	Replace single-compressor system with sub-	10															
646	Single-compressor system, air-cooled condenser	Replace single-compressor system with sub-	10															
647	Open cases with no night cover	Replace open MT case with new case with	12															
648	Open cases with no night cover	Retrofit glass doors on open MT cases; add	12															
649	Standard air-cooled multiplex, with door and	Eliminate anti-sweat heaters from doors	16															
650	Standard air-cooled multiplex, SST setpoint	Air-cooled multiplex system w/extensive refi	4															
651	Standard evaporator-cooled multiplex, SST setpoint	Extensive refrigeration equipment maintenance	4															
652	No AHU schedule	Scheduled AHU	10															
653	Boiler-No Reset	Boiler-Reset	10															
654	Chiller-No Reset	Chiller-Reset	10															
655	Coils not cleaned	Cleaned Coil	3															
656	Economizer - No Maintenance	Economizer Limit	3															
657	Non-Optimized OA	Optimized OA	10															
658	Constant air volume	VAV	10															
659	Ceiling Insulation based on vintage	Ceiling Insulation	20															
660	Non-Light Colored Roof	Cool Roof	15															
661	Floor Insulation based on vintage	Floor Insulation	20															
662	Base efficiency packaged unitary system	Air Packaged Unit Efficiency	15															
663	Incandescent lamp	Integral CFL, screw-in	3															
664	Incandescent lamp	Integral CFL, screw-in	3															
665	Incandescent lamp	Integral CFL, screw-in	3															
666	Incandescent lamp	Integral CFL, screw-in	3															
667	Incandescent lamp	Modular CFL, pin based	12															
668	Incandescent lamp	Modular CFL, pin based	12															

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669	Incandescent lamp	Modular CFL, pin based	12															
670	Incandescent lamp	Modular CFL, pin based	12															
671	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
672	2'4" T12 34 watt lamps with magnetic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
673	2'4" T12 34 watt lamps with magnetic ballast	1'4" T8 32 watt lamps with electronic ballast	11															
674	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
675	2'4" T12 34 watt lamps with magnetic ballast	2'4" T8 32 watt lamps with electronic ballast	11															
676	2'4" T8 32 watt lamps with electronic ballast	2'4" Super T8 28 watt lamps with electronic ballast	11															
677	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
678	2'8" T12 60 watt lamps with magnetic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
679	2'8" T12 60 watt lamps with magnetic ballast	1'8" T8 59 watt lamps with electronic ballast	11															
680	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
681	2'8" T12 60 watt lamps with magnetic ballast	2'8" T8 59 watt lamps with electronic ballast	11															
682	2'8" T8 59 watt lamps with electronic ballast	2'8" Super T8 59 watt lamps with electronic ballast	11															
683	150W Incandescent	50W Metal Halide	16															
684	100W Mercury Vapor	75W Metal Halide	16															
685	175W Mercury Vapor	100W Metal Halide	16															
686	No occupancy sensor	Occupancy sensor - Assume control 3 2-lan	8															
687	No timed clock	Timed clock - Controlling 4 - 70W (95W w/ball)	8															
688	No photocell	Photocell - Assume in conjunction with time	8															
689	400W Mercury Vapor	200W HPS	16															
690	400W Mercury Vapor	180W LPS	16															
691	250W Metal Halide	175W PS Metal Halide	16															
692	500W Incandescent	175W PS Metal Halide	16															
693	400W Mercury Vapor	250W PS Metal Halide	16															
694	Incandescent Exit Sign	LED Exit Sign (new)	16															
695	Incandescent Exit Sign	LED Exit Sign (retrofit kit)	16															
696	Incandescent Exit Sign	Electroluminescent Exit Sign (New)	16															
697	Incandescent Exit Sign	Electroluminescent Exit Sign Retrofit Kit	16															
698	Motor - base case	Premium Efficiency Motor	15															
699	Motor - base case	Premium Efficiency Motor	15															
700	Motor - base case	Premium Efficiency Motor	15															
701	Motor - base case	Premium Efficiency Motor	15															
702	Motor - base case	Premium Efficiency Motor	15															
703	Motor - base case	Premium Efficiency Motor	15															
704	Motor - base case	Premium Efficiency Motor	15															
705	Motor - base case	Premium Efficiency Motor	15															
706	Motor - base case	Premium Efficiency Motor	15															
707	Motor - base case	Premium Efficiency Motor	15															
708	Motor - base case	Premium Efficiency Motor	15															
709	Motor - base case	Premium Efficiency Motor	15															
710	Motor - base case	Premium Efficiency Motor	15															
711	Motor - base case	Premium Efficiency Motor	15															
712	Motor - base case	Premium Efficiency Motor	15															
713	Motor - base case	Premium Efficiency Motor	15															
714	Motor - base case	Premium Efficiency Motor	15															
715	Motor - base case	Premium Efficiency Motor	15															
716	Motor - base case	Premium Efficiency Motor	15															
717	Motor - base case	Premium Efficiency Motor	15															
718	Motor - base case	Premium Efficiency Motor	15															
719	Motor - base case	Premium Efficiency Motor	15															
720	Motor - base case	Premium Efficiency Motor	15															
721	Motor - base case	Premium Efficiency Motor	15															
722	Motor - base case	Premium Efficiency Motor	15															
723	Motor - base case	Premium Efficiency Motor	15															
724	Motor - base case	Premium Efficiency Motor	15															
725	Motor - base case	Premium Efficiency Motor	15															
726	Motor - base case	Premium Efficiency Motor	15															
727	Motor - base case	Premium Efficiency Motor	15															
728	Motor - base case	Premium Efficiency Motor	15															
729	Motor - base case	Premium Efficiency Motor	15															
730	Motor - base case	Premium Efficiency Motor	15															
731	Motor - base case	Premium Efficiency Motor	15															
732	Motor - base case	Premium Efficiency Motor	15															
733	Motor - base case	Premium Efficiency Motor	15															
734	Motor - base case	Premium Efficiency Motor	15															
735	Motor - base case	Premium Efficiency Motor	15															

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg, # of Homes)	Relevance (eg, % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
736	Motor - base case	Premium Efficiency Motor	15															
737	Motor - base case	Premium Efficiency Motor	15															
738	Motor - base case	Premium Efficiency Motor	15															
739	Motor - base case	Premium Efficiency Motor	15															
740	Motor - base case	Premium Efficiency Motor	15															
741	Motor - base case	Premium Efficiency Motor	15															
742	Motor - base case	Premium Efficiency Motor	15															
743	Motor - base case	Premium Efficiency Motor	15															
744	Motor - base case	Premium Efficiency Motor	15															
745	Motor - base case	Premium Efficiency Motor	15															
746	Motor - base case	Premium Efficiency Motor	15															
747	Motor - base case	Premium Efficiency Motor	15															
748	Motor - base case	Premium Efficiency Motor	15															
749	Motor - base case	Premium Efficiency Motor	15															
750	Motor - base case	Premium Efficiency Motor	15															
751	Motor - base case	Premium Efficiency Motor	15															
752	Motor - base case	Premium Efficiency Motor	15															
753	Motor - base case	Premium Efficiency Motor	15															
754	Motor - base case	Premium Efficiency Motor	15															
755	Motor - base case	Premium Efficiency Motor	15															
756	Motor - base case	Premium Efficiency Motor	15															
757	Motor - base case	Premium Efficiency Motor	15															
758	Motor - base case	Premium Efficiency Motor	15															
759	Motor - base case	Premium Efficiency Motor	15															
760	Motor - base case	Premium Efficiency Motor	15															
761	Motor - base case	Premium Efficiency Motor	15															
762	Motor - base case	Premium Efficiency Motor	15															
763	Motor - base case	Premium Efficiency Motor	15															
764	Motor - base case	Premium Efficiency Motor	15															
765	Motor - base case	Premium Efficiency Motor	15															
766	Motor - base case	Premium Efficiency Motor	15															
767	Motor - base case	Premium Efficiency Motor	15															
768	Motor - base case	Premium Efficiency Motor	15															
769	Motor - base case	Premium Efficiency Motor	15															
770	Motor - base case	Premium Efficiency Motor	15															
771	Motor - base case	Premium Efficiency Motor	15															
772	Motor - base case	Premium Efficiency Motor	15															
773	Motor - base case	Premium Efficiency Motor	15															
774	Motor - base case	Premium Efficiency Motor	15															
775	Motor - base case	Premium Efficiency Motor	15															
776	Motor - base case	Premium Efficiency Motor	15															
777	Motor - base case	Premium Efficiency Motor	15															
778	Base case	Compressed Air-Q&M	10															
779	Base case	Compressed Air - Controls	10															
780	Base case	Compressed Air - System Optimization	10															
781	Base case	Compressed Air- Sizing	10															
782	Base case	Comp Air - Replace 1-5 HP motor	15															
783	Base case	Comp Air - ASD (1-5 hp)	15															
784	Base case	Comp Air - Motor practices-1 (1-5 HP)	15															
785	Base case	Comp Air - Replace 6-100 HP motor	10															
786	Base case	Comp Air - ASD (6-100 hp)	10															
787	Base case	Comp Air - Motor practices-1 (6-100 HP)	10															
788	Base case	Comp Air - Replace 100+ HP motor	6															
789	Base case	Comp Air - ASD (100+ hp)	6															
790	Base case	Comp Air - Motor practices-1 (100+ HP)	6															
791	Base case	Power recovery	10															
792	Base case	Refinery Controls	10															
793	Base case	Energy Star Transformers	25															
794	Base case	Fans - Q&M	10															
795	Base case	Fans - Controls	10															
796	Base case	Fans - System Optimization	10															
797	Base case	Fans- Improve components	10															
798	Base case	Fans - Replace 1-5 HP motor	15															
799	Base case	Fans - ASD (1-5 hp)	15															
800	Base case	Fans - Motor practices-1 (1-5 HP)	15															
801	Base case	Fans - Replace 6-100 HP motor	10															
802	Base case	Fans - ASD (6-100 hp)	10															

Measure ID	Base Technology	Efficient Technology	Efficient Equipment Life	Total Incremental Cost	Annual kWh Savings	Coincident Peak Savings	Utility Avoided Costs	PEB (TRC) Test	UCT	Total Sector Units (eg, # of Homes)	Relevance (eg, % of Homes with CAC)	# Technology Units per Sector Unit	Technical Applicability (%)	Not Yet Adopted (%)	Annual Replacement Eligibility (%)	Total Applicable Technology Units	Electric Savings %	Gas Savings %
803	Base case	Fans - Motor practices-1 (6-100 HP)	10															
804	Base case	Fans - Replace 100+ HP motor	6															
805	Base case	Fans - ASD (100+ hp)	6															
806	Base case	Fans - Motor practices-1 (100+ HP)	6															
807	Base case	Optimize drying process	10															
808	Base case	Pumps - O&M	10															
809	Base case	Pumps - Controls	10															
810	Base case	Pumps - System Optimization	10															
811	Base case	Pumps - Sizing	10															
812	Base case	Pumps - Replace 1-5 HP motor	15															
813	Base case	Pumps - ASD (1-5 hp)	15															
814	Base case	Pumps - Motor practices-1 (1-5 HP)	15															
815	Base case	Pumps - Replace 6-100 HP motor	10															
816	Base case	Pumps - ASD (6-100 hp)	10															
817	Base case	Pumps - Motor practices-1 (6-100 HP)	10															
818	Base case	Pumps - Replace 100+ HP motor	6															
819	Base case	Pumps - ASD (100+ hp)	6															
820	Base case	Pumps - Motor practices-1 (100+ HP)	6															
821	Base case	Efficient refrigeration - operations	10															
822	Base case	Optimization refrigeration	15															
823	Base case	Bakery - process	15															
824	Base case	Bakery - process (mixing)	10															
825	Base case	Clean room - controls	10															
826	Base case	Clean room - new designs	10															
827	Base case	Process controls (batch + site)	10															
828	Base case	O&M - extruders / injection molding	12															
829	Base case	Extruders / injection molding - multipump	12															
830	Base case	Direct drive extruders	12															
831	Base case	Injection molding - impulse cooling	12															
832	Base case	Injection molding - direct drive	12															
833	Base case	Efficient grinding	15															
834	Base case	Process controls	10															
835	Base case	Top-heating (glass)	8															
836	Base case	Process controls	10															
837	Base case	Efficient electric melting	20															
838	Base case	Near net shape casting	15															
839	Base case	Optimization process (M&T)	10															
840	Base case	Scheduling	10															
841	Base case	Efficient curing ovens	15															
842	Base case	Machinery	10															
843	Base case	Optimization process (M&T)	10															
844	Base case	Scheduling	10															
845	Base case	Efficient curing ovens	15															
846	Base case	Machinery	10															
847	Base case	Optimization process (M&T)	10															
848	Base case	Scheduling	10															
849	Base case	Efficient curing ovens	15															
850	Base case	Machinery	10															
851	Base case	Scheduling	10															
852	Base case	Efficient curing ovens	15															
853	Base case	Machinery	10															
854	Base case	Efficient processes (welding, etc.)	15															
855	Base case	Scheduling	10															
856	Base case	Efficient machinery	10															
857	Base case	Process controls	15															
858	No direct load control - AC	Direct load control - air conditioner	10															
859	No direct load control - hot water	Direct load control - hot water heater	10															
860	Any pricing - no CPP events	Critical peak pricing - CPP events	10															
861	Any pricing - no CPP events or smart them	Critical peak pricing - CPP events with smai	10															
862	Any pricing - no CPP events	Critical peak pricing - CPP events	10															
863	Any pricing - no CPP events or smart them	Critical peak pricing - CPP events with smai	10															
864	No Industrial Interruptible Tariff	Industrial Interruptible Tariff	1															
865	No Commercial Demand Credit	Commercial Demand Credit	1															

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
1	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		1 D03-408	
2	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		1 D03-408	
3	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		1 D03-408	
4	Central AC (Refrigerant-Undercharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		1 D03-408	
5	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		2 D03-409	
6	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		2 D03-409	
7	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		2 D03-409	
8	Central AC (Refrigerant-Overcharged, Existing)	Central AC (Correct charge, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		2 D03-409	
9	Low evaporator airflow A	Increase duct sizes or add new ducts	RLW	DEER	DOE-2 (ICF)	RLW		3	
10	Low evaporator airflow A	Increase duct sizes or add new ducts	RLW	DEER	DOE-2 (ICF)	RLW		3	
11	Low evaporator airflow A	Increase duct sizes or add new ducts	RLW	DEER	DOE-2 (ICF)	RLW		3	
12	Low evaporator airflow A	Increase duct sizes or add new ducts	RLW	DEER	DOE-2 (ICF)	RLW		3	
13	Low evaporator airflow B	Increase blower speed	RLW	DEER	DOE-2 (ICF)	RLW		4	
14	Low evaporator airflow B	Increase blower speed	RLW	DEER	DOE-2 (ICF)	RLW		4	
15	Low evaporator airflow B	Increase blower speed	RLW	DEER	DOE-2 (ICF)	RLW		4	
16	Low evaporator airflow B	Increase blower speed	RLW	DEER	DOE-2 (ICF)	RLW		4	
17	Duct Leakage 15%	Duct Leakage 5%	RLW	DEER	DOE-2 (ICF)	DEER		5 D03-458	
18	Duct Leakage 15%	Duct Leakage 5%	RLW	DEER	DOE-2 (ICF)	DEER		5 D03-458	
19	Duct Leakage 15%	Duct Leakage 5%	RLW	DEER	DOE-2 (ICF)	DEER		5 D03-458	
20	Duct Leakage 15%	Duct Leakage 5%	RLW	DEER	DOE-2 (ICF)	DEER		5 D03-458	
21	Oversized AC units A	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		6	
22	Oversized AC units A	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		6	
23	Oversized AC units A	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		6	
24	Oversized AC units A	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		6	
25	Undersized AC units B	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		7	
26	Undersized AC units B	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		7	
27	Undersized AC units B	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		7	
28	Undersized AC units B	Size AC units to 100% of Manual J	RLW	DEER	DOE-2 (ICF)	RLW		7	
29	Duct Insulation R-4	Duct Insulation R-8	RLW	DEER	DOE-2 (ICF)	RLW		8	
30	Duct Insulation R-4	Duct Insulation R-8	RLW	DEER	DOE-2 (ICF)	RLW		8	
31	Duct Insulation R-4	Duct Insulation R-8	RLW	DEER	DOE-2 (ICF)	RLW		8	
32	Duct Insulation R-4	Duct Insulation R-8	RLW	DEER	DOE-2 (ICF)	RLW		8	
33	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		9 D03-463	
34	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		10 D03-463	
35	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		11 D03-466	
36	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (16 SEER, Existing)	RLW	DEER	DOE-2 (ICF)	DEER		9 D03-463	
37	Central AC (13 SEER, Existing)	ENERGY STAR Central AC (14 SEER, Existing)	ICF	DEER	DOE-2 (ICF)	ICF			
38	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		12 D03-422	
39	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		12 D03-422	
40	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		12 D03-422	
41	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		12 D03-422	
42	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		13 D03-422	
43	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		13 D03-422	
44	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		13 D03-422	
45	Ceiling Insulation (R-11)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER		13 D03-422	
46	No Wall Insulation	R-11 Wall Insulation	RLW	DEER	DOE-2 (ICF)	DEER		14 D03-438	
47	No Wall Insulation	R-11 Wall Insulation	RLW	DEER	DOE-2 (ICF)	DEER		14 D03-438	
48	No Wall Insulation	R-11 Wall Insulation	RLW	DEER	DOE-2 (ICF)	DEER		14 D03-438	
49	No Wall Insulation	R-11 Wall Insulation	RLW	DEER	DOE-2 (ICF)	DEER		14 D03-438	
50	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	ICF	DEER	DOE-2 (ICF)	DEER		15 D03-426	
51	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	ICF	DEER	DOE-2 (ICF)	DEER		15 D03-426	
52	Standard Basement Insulation (Existing)	Efficient Basement Insulation (Existing)	ICF	DEER	DOE-2 (ICF)	DEER		15 D03-426	
53	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	RLW	DEER	DOE-2 (ICF)	RLW		16	
54	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	RLW	DEER	DOE-2 (ICF)	RLW		16	
55	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	RLW	DEER	DOE-2 (ICF)	RLW		16	
56	Infiltration = 0.8 ACH (Existing Home)	Infiltration = 0.35 ACH	RLW	DEER	DOE-2 (ICF)	RLW		16	
57	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		17 D03-446	
58	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		17 D03-446	
59	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		17 D03-446	
60	Single Pane Windows (Existing)	Single Pane Win. w/ Storm Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		17 D03-446	
61	Single Pane Windows (Existing)	Low-E Windows (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		18 D03-448	
62	Single Pane Windows (Existing)	Low-E Windows (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		18 D03-448	
63	Single Pane Windows (Existing)	Low-E Windows (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		18 D03-448	
64	Single Pane Windows (Existing)	Low-E Windows (Existing)	RLW	DEER	DOE-2 (ICF)	DEER		18 D03-448	
65	Standard Windows (Existing)	Efficient Windows (Existing)	ICF	DEER	DOE-2 (ICF)	DEER		19 D03-449	
66	Standard Windows (Existing)	Efficient Windows (Existing)	ICF	DEER	DOE-2 (ICF)	DEER		19 D03-449	

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
67	Standard Windows (Existing)	Efficient Windows (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	19	D03-449	
68	Standard Windows (Existing)	Efficient Windows (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	19	D03-449	
69	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	20	D03-442	
70	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	20	D03-442	
71	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	20	D03-442	
72	Standard Windows (Existing)	Solar Shading on E & W Win. (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	20	D03-442	
73	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	RLW	DEER	DOE-2 (ICF)	RLW	21		
74	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	RLW	DEER	DOE-2 (ICF)	RLW	21		
75	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	RLW	DEER	DOE-2 (ICF)	RLW	21		
76	Standard Win., No Shading (Existing)	Planting Trees on E & W (Existing)	RLW	DEER	DOE-2 (ICF)	RLW	21		
77	Incandescent lamp	Compact fluorescent lamp (CFL)	ICF	DEER	ICF	DEER	22	D03-804	
78	Incandescent lamp	Compact fluorescent lamp (CFL)	ICF	DEER	ICF	DEER	22	D03-804	
79	Incandescent lamp	Compact fluorescent lamp (CFL)	ICF	DEER	ICF	DEER	22	D03-804	
80	Incandescent lamp	Compact fluorescent lamp (CFL)	ICF	DEER	ICF	DEER	22	D03-804	
81	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	23	D03-961	
82	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	23	D03-961	
83	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	23	D03-961	
84	Standard Refrigerator (Existing) - NAECA	ENERGY STAR Refrigerator (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	23	D03-961	
85	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	ICF	DEER	DOE-2 (ICF)	EPA	25		
86	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	ICF	DEER	DOE-2 (ICF)	EPA	25		
87	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	ICF	DEER	DOE-2 (ICF)	EPA	25		
88	Standard Dishwasher (Existing)	ENERGY STAR Dishwasher (Existing)	ICF	DEER	DOE-2 (ICF)	EPA	25		
89	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	ICF	DEER	DOE-2 (ICF)	EPA	26		
90	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	ICF	DEER	DOE-2 (ICF)	EPA	26		
91	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	ICF	DEER	DOE-2 (ICF)	EPA	26		
92	Standard Clotheswasher (Post-2006) (Exist	ENERGY STAR Clotheswasher (Post-2006	ICF	DEER	DOE-2 (ICF)	EPA	26		
93	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	27	D03-401	
94	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	27	D03-401	
95	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	27	D03-401	
96	Manual Thermostat (Existing)	Programmable Thermostat (Existing)	ICF	DEER	DOE-2 (ICF)	DEER	27	D03-401	
97	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	28	D03-934	
98	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	28	D03-934	
99	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	28	D03-934	
100	No Faucet Aerators (Existing)	Faucet Aerators (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	28	D03-934	
101	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	29	D03-937	
102	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	29	D03-937	
103	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	29	D03-937	
104	No Low Flow Shower Heads (Existing)	Low Flow Shower Heads (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	29	D03-937	
105	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	30	D03-936	
106	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	30	D03-936	
107	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	30	D03-936	
108	No Hot Water Pipe Insulation (Existing)	Hot Water Pipe Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	DEER	30	D03-936	
109	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	ICF	31		
110	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	ICF	31		
111	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	ICF	31		
112	No Hot Water Insulation (Existing)	Hot Water Insulation (Existing)	RLW	DEER	DOE-2 (ICF)	ICF	31		
113	Std. Doors R-2 (Existing)	Doors R-4 (Existing)	ICF	DEER	DOE-2 (ICF)	ICF			
114	Std. Doors R-2 (New)	Doors R-4 (Existing)	ICF	DEER	DOE-2 (ICF)	ICF			
115	Std. Doors R-2 (New)	Doors R-4 (Existing)	ICF	DEER	DOE-2 (ICF)	ICF			
116	Std. Doors R-2 (New)	Doors R-4 (Existing)	ICF	DEER	DOE-2 (ICF)	ICF			
117	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
118	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
119	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
120	Ceiling Insulation (R-7)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
121	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
122	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
123	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
124	Ceiling Insulation (R-11)	Ceiling Insulation (R-38)	ICF	DEER	DOE-2 (ICF)	DEER		D03-422	
125	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex	ICF	DEER	DOE-2 (ICF)	EPA			
126	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex	ICF	DEER	DOE-2 (ICF)	EPA			
127	Window AC (9.8 EER, Existing)	ENERGY STAR Window AC (10.8 EER, Ex	ICF	DEER	DOE-2 (ICF)	EPA			
128	Electric Strip Heat	Ground Source Heat Pump	ICF	DEER	DOE-2 (ICF)	ICF			
129	Electric Strip Heat	Ground Source Heat Pump	ICF	DEER	DOE-2 (ICF)	ICF			
130	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan	ICF	DEER	DOE-2 (ICF)	EPA			
131	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan	ICF	DEER	DOE-2 (ICF)	EPA			
132	Window AC (9.8 EER, Existing)	ENERGY STAR Ceiling Fan	ICF	DEER	DOE-2 (ICF)	EPA			

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
133	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
134	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
135	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
136	Base De-humidifier (Existing)	ENERGY STAR De-humidifier (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
137	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
138	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
139	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
140	Standard Freezer (Existing)	ENERGY STAR Freezer (Existing)	ICF	DEER	DOE-2 (ICF)	EPA			
141	Standard Home (Existing)	Home Performance with ENERGY STAR (E	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
142	Standard Home (Existing)	Home Performance with ENERGY STAR (E	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
143	Standard Home (Existing)	Home Performance with ENERGY STAR (E	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
144	Standard Home (Existing)	Home Performance with ENERGY STAR (E	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
145	Standard Home (New)	ENERGY STAR Home (New)	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
146	Standard Home (New)	ENERGY STAR Home (New)	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
147	Standard Home (New)	ENERGY STAR Home (New)	ICF	DEER	DOE-2 (ICF)	DEER		Multiple	
148	Existing Home (82 AFUE, 13 SEER)	Existing Home (8.2/8.5 HSPF 14 SEER)	ICF	DEER	DOE-2 (ICF)	DEER		D03-415	
149	Old refrigerator	Refrigerator recycling	ICF	DEER	DEER	DEER		D03-964	
150	Old refrigerator	Standard Refrigerator (Existing) - NAECA	ICF	DEER	DEER	DEER		D03-964	
151	Electric water heater, EF=0.88	Heat pump water heater, EF=2.9	DEER	DEER	DEER	DEER		D03-935	
152	Electric water heater, EF=0.88	Heat pump water heater, EF=2.9	DEER	DEER	DEER	DEER		D03-935	
153	Electric water heater, EF=0.88	High Efficiency Water Heater - Gas, EF = 0.	DEER	DEER	DEER	DEER		D03-938	
154	Electric water heater, EF=0.88	High Efficiency Water Heater - Gas, EF = 0.	DEER	DEER	DEER	DEER		D03-938	
155	Gas Water Heater EF=0.594	Point of Use Water Heat	DEER	DEER	DEER	DEER		D03-909	
156	Gas Water Heater EF=0.594	Point of Use Water Heat	DEER	DEER	DEER	DEER		D03-909	
157	No night ventilation	Whole House Fan	DEER	DEER	DEER	DEER		D03-441	
158	Ceiling Insulation (R-7)	Ceiling Insulation (R-30)	RLW	DEER	DOE-2 (ICF)	DEER			
159	No Wall Insulation	R-11 Wall Insulation	RLW	DEER	DOE-2 (ICF)	DEER			
160	Incandescent lamp	Compact fluorescent lamp (CFL)	ICF	DEER	ICF	DEER			
161	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
162	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
163	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
164	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
165	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
166	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
167	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
168	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
169	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	DEER	DEER	DEER	DEER		D03-853	
170	2 4' T12 34 watt lamps with magnetic ballas	2 4' Super T8 28 watt lamps with electronic	DEER	DEER	DEER	DEER		D03-852	
171	2 4' T12 34 watt lamps with magnetic ballas	1 4' T8 32 watt lamps with electronic ballast	DEER	DEER	DEER	DEER		D03-853	
172	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	DEER	DEER	DEER	DEER		D03-853	
173	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	DEER	DEER	DEER	DEER		D03-853	
174	2 4' T8 32 watt lamps with electronic ballast	2 4' Super T8 28 watt lamps with electronic	DEER	DEER	DEER	DEER		D03-852	
175	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	DEER	DEER	DEER	DEER			
176	2 8' T12 60 watt lamps with magnetic ballas	2 8' Super T8 59 watt lamps with electronic	DEER	DEER	DEER	DEER			
177	2 8' T12 60 watt lamps with magnetic ballas	1 8' T8 59 watt lamps with electronic ballast	DEER	DEER	DEER	DEER			
178	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	DEER	DEER	DEER	DEER			
179	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	DEER	DEER	DEER	DEER			
180	2 8' T8 59 watt lamps with electronic ballast	2 8' Super T8 59 watt lamps with electronic	DEER	DEER	DEER	DEER			
181	No occupancy sensor	Occupancy sensor - Assume control 3 2-lar	DEER	DEER	DEER	DEER		D03-856	
182	No timeclock	Timeclock - Controlling 4 - 70W (95W w/ball	DEER	DEER	DEER	DEER		D03-858	
183	No photocell	Photocell - Assume in conjunction with time	DEER	DEER	DEER	DEER		D03-859	
184	Incandescent Exit Sign	LED Exit Sign (new)	DEER	DEER	DEER	DEER		D03-860	
185	Incandescent Exit Sign	LED Exit Sign (retrofit kit)	DEER	DEER	DEER	DEER		D03-861	
186	Incandescent Exit Sign	Electroluminescent Exit Sign (New)	DEER	DEER	DEER	DEER		D03-862	
187	Incandescent Exit Sign	Electroluminescent Exit Sign Retrofit Kit	DEER	DEER	DEER	DEER		D03-863	
188	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
189	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
190	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
191	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
192	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
193	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
194	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
195	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
196	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
197	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
198	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
199	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
334	Constant air volume	VAV	DEER	DEER	DOE-2 (ICF)	DEER		D03-050	
335	Chilled Water, Single Speed Pump	Variable CW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-047	
336	Chilled Water, Single Speed Pump	Variable CW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-047	
337	Chilled Water, Single Speed Pump	Variable CW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-047	
338	Chilled Water, Single Speed Pump	Variable CW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-047	
339	Chilled Water, Single Speed Pump	Variable CW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-047	
340	Hot Water, Single Speed Pump	Variable HW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-049	
341	Hot Water, Single Speed Pump	Variable HW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-049	
342	Hot Water, Single Speed Pump	Variable HW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-049	
343	Hot Water, Single Speed Pump	Variable HW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-049	
344	Hot Water, Single Speed Pump	Variable HW Pump	DEER	DEER	DOE-2 (ICF)	DEER		D03-049	
345	New Construction Building	New Construction Building - with upgrades	DEER	DEER	DOE-2 (ICF)	DEER		Multiple	
346	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
347	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
348	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
349	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
350	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
351	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
352	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
353	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
354	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
355	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
356	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
357	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
358	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
359	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
360	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
361	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
362	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
363	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
364	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
365	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
366	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
367	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
368	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
369	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
370	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
371	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
372	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
373	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
374	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
375	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
376	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
377	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
378	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
379	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
380	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
381	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
382	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
383	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
384	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
385	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
386	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
387	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
388	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
389	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
390	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
391	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
392	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
393	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
394	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
395	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
396	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
397	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
398	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
399	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	
400	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
535	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
536	2 4' T8 32 watt lamps with electronic ballast	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
537	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
538	2 8' T12 60 watt lamps with magnetic ballas	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
539	2 8' T12 60 watt lamps with magnetic ballas	1 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
540	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
541	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
542	2 8' T8 59 watt lamps with electronic ballast	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
543	150W Incandescent	50W Metal Halide	DEER	DEER	DEER	DEER		D03-844	
544	100W Mercury Vapor	75W Metal Halide	DEER	DEER	DEER	DEER		D03-845	
545	175W Mercury Vapor	100W Metal Halide	DEER	DEER	DEER	DEER		D03-846	
546	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
547	2 4' T12 34 watt lamps with magnetic ballas	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
548	2 4' T12 34 watt lamps with magnetic ballas	1 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
549	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
550	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
551	2 4' T8 32 watt lamps with electronic ballast	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
552	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
553	2 8' T12 60 watt lamps with magnetic ballas	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
554	2 8' T12 60 watt lamps with magnetic ballas	1 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
555	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
556	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
557	2 8' T8 59 watt lamps with electronic ballast	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
558	150W Incandescent	50W Metal Halide	DEER	DEER	DEER	DEER		D03-844	
559	100W Mercury Vapor	75W Metal Halide	DEER	DEER	DEER	DEER		D03-845	
560	175W Mercury Vapor	100W Metal Halide	DEER	DEER	DEER	DEER		D03-846	
561	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
562	2 4' T12 34 watt lamps with magnetic ballas	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
563	2 4' T12 34 watt lamps with magnetic ballas	1 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
564	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
565	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
566	2 4' T8 32 watt lamps with electronic ballast	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
567	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
568	2 8' T12 60 watt lamps with magnetic ballas	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
569	2 8' T12 60 watt lamps with magnetic ballas	1 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
570	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
571	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
572	2 8' T8 59 watt lamps with electronic ballast	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
573	150W Incandescent	50W Metal Halide	DEER	DEER	DEER	DEER		D03-844	
574	100W Mercury Vapor	75W Metal Halide	DEER	DEER	DEER	DEER		D03-845	
575	175W Mercury Vapor	100W Metal Halide	DEER	DEER	DEER	DEER		D03-846	
576	No occupancy sensor	Occupancy sensor - Assume control 3 2-lar	DEER	DEER	DEER	DEER		D03-856	
577	No timeclock	Timeclock - Controlling 4 - 70W (95W w/ball	DEER	DEER	DEER	DEER		D03-858	
578	No photocell	Photocell - Assume in conjunction with time	DEER	DEER	DEER	DEER		D03-859	
579	400W Mercury Vapor	200W HPS	DEER	DEER	DEER	DEER		D03-850	
580	400W Mercury Vapor	180W LPS	DEER	DEER	DEER	DEER		D03-851	
581	250W Metal Halide	175W PS Metal Halide	DEER	DEER	DEER	DEER		D03-847	
582	500W Incandescent	175W PS Metal Halide	DEER	DEER	DEER	DEER		D03-848	
583	400W Mercury Vapor	250W PS Metal Halide	DEER	DEER	DEER	DEER		D03-849	
584	Incandescent Exit Sign	LED Exit Sign (new)	DEER	DEER	DEER	DEER		D03-860	
585	Incandescent Exit Sign	LED Exit Sign (retrofit kit)	DEER	DEER	DEER	DEER		D03-861	
586	Incandescent Exit Sign	Electroluminescent Exit Sign (New)	DEER	DEER	DEER	DEER		D03-862	
587	Incandescent Exit Sign	Electroluminescent Exit Sign Retrofit Kit	DEER	DEER	DEER	DEER		D03-863	
588	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-914	
589	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-915	
590	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-916	
591	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-917	
592	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-918	
593	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-919	
594	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-920	
595	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-921	
596	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-922	
597	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-923	
598	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-924	
599	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-925	
600	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-926	
601	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-927	

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
602	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-928	
603	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-929	
604	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-930	
605	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-931	
606	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-932	
607	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-933	
608	Copy Machine - No idle-off control	High Efficiency Copier	DEER	DEER	DEER	DEER		D03-901	
609	Base desktop power supply	80 Plus desktop power supply	80Plus	80Plus	80Plus	80Plus			
610	Base server power supply	80 Plus server power supply	80Plus	80Plus	80Plus	80Plus			
611	Normal Fryer, Base use = 2.8 kW/hour	High Efficiency Electric Fryer, Efficient use :	DEER	DEER	DEER	DEER		D03-906	
612	Normal Holding Cabinet, Base use = 1.35 k	Hot Food Holding Cabinet, Efficient use = 0	DEER	DEER	DEER	DEER		D03-907	
613	Connected Steamer, Base use = 1.0 kW/ho	Connectionless Steamer, Efficient use = 0.5	DEER	DEER	DEER	DEER		D03-908	
614	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	DEER	DEER	DEER	DEER		D03-910	
615	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	DEER	DEER	DEER	DEER		D03-910	
616	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	DEER	DEER	DEER	DEER		D03-910	
617	Domestic hot water circulation pump runs c	Domestic hot water circulation pump contro	DEER	DEER	DEER	DEER		D03-910	
618	Electric water heater with EF of 0.98 (basec	Tankless electric hot water system	DEER	DEER	DEER	DEER		D03-094	
619	Electric water heater with EF of 0.98 (basec	Tankless electric hot water system	DEER	DEER	DEER	DEER		D03-094	
620	Electric water heater with EF of 0.98 (basec	Tankless electric hot water system	DEER	DEER	DEER	DEER		D03-094	
621	DHW R-6 tank insulation	DHW R-12 tank insulation	DEER	DEER	DEER	DEER		D03-014	
622	Pre-rinse spray valve	Energy Efficient pre-rinse spray valve	PG&E	PG&E	PG&E	PG&E			
623	Standard air-cooled multiplex, lights on all h	Turn off fixture lights when store closed, bel	DEER	DEER	DEER	DEER		D03-227	
624	Standard air-cooled multiplex system, SCT	Floating SCT controlled to 70°F	DEER	DEER	DEER	DEER		D03-221	
625	Standard evap-cooled multiplex system, SC	Floating SCT controlled to 70°F	DEER	DEER	DEER	DEER		D03-222	
626	Standard air-cooled multiplex system, SST	Floating SST control on LT and MT suction	DEER	DEER	DEER	DEER		D03-220	
627	Standard air-cooled multiplex system, SCT	Ambient following SCT setpoint, 70°F minin	DEER	DEER	DEER	DEER		D03-225	
628	Standard evap-cooled multiplex system, SC	Wetbulb following SCT setpoint, 70°F minin	DEER	DEER	DEER	DEER		D03-226	
629	Standard air-cooled multiplex system, SCT	Ambient following SCT setpoint, 70°F minin	DEER	DEER	DEER	DEER		D03-223	
630	Standard evap-cooled multiplex system, SC	Wetbulb following SCT setpoint, 70°F minin	DEER	DEER	DEER	DEER		D03-224	
631	Evaporator fan runs continuously, psc or sp	Cycle fan off with thermostat; duty cycle occ	DEER	DEER	DEER	DEER		D03-210	
632	Standard air-cooled multiplex system, no h	Adds an 85°F holdback valve, active only w	DEER	DEER	DEER	DEER		D03-204	
633	Open cases with no night cover	Cover open MT cases between 1-5 a.m.	DEER	DEER	DEER	DEER		D03-205	
634	Multiplex air cooled condenser of vintage-d	Upgrade from 53 Btu/Watt @ 10°F TD to 85	DEER	DEER	DEER	DEER		D03-212	
635	Utilizes a shaded-pole motor	Substitute high efficiency motors for standa	DEER	DEER	DEER	DEER		D03-203	
636	Multiplex evaporative condenser of vintage-	Reduce design SCT by ~5°F and improve e	DEER	DEER	DEER	DEER		D03-213	
637	Multiplex air cooled condenser of vintage-d	Replace multiplex air-cooled condenser with	DEER	DEER	DEER	DEER		D03-211	
638	Utilizes a shaded-pole motor	Substitute high efficiency motors for standa	DEER	DEER	DEER	DEER		D03-202	
639	Standard air-cooled multiplex system, no su	Addition of LT and MT subcoolers to an air-	DEER	DEER	DEER	DEER		D03-219	
640	Standard air-cooled multiplex system, no su	Addition of a LT subcooler to an air-cooled	DEER	DEER	DEER	DEER		D03-218	
641	No door closer	Install automatic door closer on walk-in cool	DEER	DEER	DEER	DEER		D03-208	
642	No door closer	Install automatic door closer on walk-in free	DEER	DEER	DEER	DEER		D03-209	
643	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	DEER	DEER	DEER	DEER		D03-214	
644	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	DEER	DEER	DEER	DEER		D03-215	
645	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	DEER	DEER	DEER	DEER		D03-216	
646	Single-compressor system, air-cooled cond	Replace single-compressor system with sut	DEER	DEER	DEER	DEER		D03-217	
647	Open cases with no night cover	Replace open MT case with new case with	DEER	DEER	DEER	DEER		D03-207	
648	Open cases with no night cover	Retrofit glass doors on open MT cases; add	DEER	DEER	DEER	DEER		D03-206	
649	Standard air-cooled multiplex, with door anc	Eliminate anti-sweat heaters from doors	DEER	DEER	DEER	DEER		D03-228	
650	Standard air-cooled multiplex, SST setpoint	Air-cooled multiplex system w/extensive ref	DEER	DEER	DEER	DEER		D03-201	
651	Standard evap-cooled multiplex, SST setpo	Extensive refrigeration equipment maintena	DEER	DEER	DEER	DEER		D03-301	
652	No AHU schedule	Scheduled AHU	DEER	DEER	DOE-2 (ICF)	DEER		D03-071	
653	Boiler-No Reset	Boiler-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-045	
654	Chiller-No Reset	Chiller-Reset	DEER	DEER	DOE-2 (ICF)	DEER		D03-044	
655	Coils not cleaned	Cleaned Coil	DEER	DEER	DOE-2 (ICF)	DEER		D03-061	
656	Economizer - No Maintenance	Economizer Lim	DEER	DEER	DOE-2 (ICF)	DEER		D03-060	
657	Non-Optimized OA	Optimized OA	DEER	DEER	DOE-2 (ICF)	DEER		D03-055	
658	Constant air volume	VAV	DEER	DEER	DOE-2 (ICF)	DEER		D03-050	
659	Ceiling Insulation based on vintage	Ceiling Insulation	DEER	DEER	DOE-2 (ICF)	DEER		D03-013	
660	Non-Light Colored Roof	Cool Roof	DEER	DEER	DOE-2 (ICF)	DEER		D03-016	
661	Floor Insulation based on vintage	Floor Insulation	DEER	DEER	DOE-2 (ICF)	DEER		D03-123	
662	Base efficiency packaged unitary system A/	Packaged Unit Efficiency	DEER	DEER	DOE-2 (ICF)	DEER		D03-103	
663	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-801	
664	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-804	
665	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-807	
666	Incandescent lamp	Integral CFL, screw-in	DEER	DEER	DEER	DEER		D03-810	
667	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-819	
668	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-822	

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
669	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-825	
670	Incandescent lamp	Modular CFL, pin based	DEER	DEER	DEER	DEER		D03-828	
671	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
672	2 4' T12 34 watt lamps with magnetic ballas	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
673	2 4' T12 34 watt lamps with magnetic ballas	1 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
674	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
675	2 4' T12 34 watt lamps with magnetic ballas	2 4' T8 32 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM		D03-853	
676	2 4' T8 32 watt lamps with electronic ballast	2 4' Super T8 28 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM		D03-852	
677	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
678	2 8' T12 60 watt lamps with magnetic ballas	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
679	2 8' T12 60 watt lamps with magnetic ballas	1 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
680	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
681	2 8' T12 60 watt lamps with magnetic ballas	2 8' T8 59 watt lamps with electronic ballast	EEPM	DEER	EEPM/DEER	EEPM			
682	2 8' T8 59 watt lamps with electronic ballast	2 8' Super T8 59 watt lamps with electronic	EEPM	DEER	EEPM/DEER	EEPM			
683	150W Incandescent	50W Metal Halide	DEER	DEER	DEER	DEER		D03-844	
684	100W Mercury Vapor	75W Metal Halide	DEER	DEER	DEER	DEER		D03-845	
685	175W Mercury Vapor	100W Metal Halide	DEER	DEER	DEER	DEER		D03-846	
686	No occupancy sensor	Occupancy sensor - Assume control 3 2-lar	DEER	DEER	DEER	DEER		D03-856	
687	No timeclock	Timeclock - Controlling 4 - 70W (95W w/ball	DEER	DEER	DEER	DEER		D03-858	
688	No photocell	Photocell - Assume in conjunction with time	DEER	DEER	DEER	DEER		D03-859	
689	400W Mercury Vapor	200W HPS	DEER	DEER	DEER	DEER		D03-850	
690	400W Mercury Vapor	180W LPS	DEER	DEER	DEER	DEER		D03-851	
691	250W Metal Halide	175W PS Metal Halide	DEER	DEER	DEER	DEER		D03-847	
692	500W Incandescent	175W PS Metal Halide	DEER	DEER	DEER	DEER		D03-848	
693	400W Mercury Vapor	250W PS Metal Halide	DEER	DEER	DEER	DEER		D03-849	
694	Incandescent Exit Sign	LED Exit Sign (new)	DEER	DEER	DEER	DEER		D03-860	
695	Incandescent Exit Sign	LED Exit Sign (retrofit kit)	DEER	DEER	DEER	DEER		D03-861	
696	Incandescent Exit Sign	Electroluminescent Exit Sign (New)	DEER	DEER	DEER	DEER		D03-862	
697	Incandescent Exit Sign	Electroluminescent Exit Sign Retrofit Kit	DEER	DEER	DEER	DEER		D03-863	
698	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-914	
699	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-915	
700	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-916	
701	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-917	
702	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-918	
703	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-919	
704	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-920	
705	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-921	
706	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-922	
707	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-923	
708	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-924	
709	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-925	
710	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-926	
711	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-927	
712	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-928	
713	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-929	
714	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-930	
715	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-931	
716	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-932	
717	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-933	
718	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-914	
719	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-915	
720	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-916	
721	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-917	
722	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-918	
723	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-919	
724	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-920	
725	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-921	
726	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-922	
727	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-923	
728	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-924	
729	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-925	
730	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-926	
731	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-927	
732	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-928	
733	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-929	
734	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-930	
735	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-931	

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
736	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-932	
737	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-933	
738	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-914	
739	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-915	
740	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-916	
741	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-917	
742	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-918	
743	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-919	
744	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-920	
745	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-921	
746	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-922	
747	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-923	
748	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-924	
749	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-925	
750	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-926	
751	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-927	
752	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-928	
753	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-929	
754	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-930	
755	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-931	
756	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-932	
757	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-933	
758	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-914	
759	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-915	
760	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-916	
761	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-917	
762	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-918	
763	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-919	
764	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-920	
765	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-921	
766	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-922	
767	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-923	
768	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-924	
769	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-925	
770	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-926	
771	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-927	
772	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-928	
773	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-929	
774	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-930	
775	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-931	
776	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-932	
777	Motor - base case	Premium Efficiency Motor	DEER	DEER	DEER/PG&E	DEER		D03-933	
778	Base case	Compressed Air-O&M	KEMA	KEMA	KEMA	KEMA			101
779	Base case	Compressed Air - Controls	KEMA	KEMA	KEMA	KEMA			102
780	Base case	Compressed Air - System Optimization	KEMA	KEMA	KEMA	KEMA			103
781	Base case	Compressed Air- Sizing	KEMA	KEMA	KEMA	KEMA			104
782	Base case	Comp Air - Replace 1-5 HP motor	KEMA	KEMA	KEMA	KEMA			105
783	Base case	Comp Air - ASD (1-5 hp)	KEMA	KEMA	KEMA	KEMA			106
784	Base case	Comp Air - Motor practices-1 (1-5 HP)	KEMA	KEMA	KEMA	KEMA			107
785	Base case	Comp Air - Replace 6-100 HP motor	KEMA	KEMA	KEMA	KEMA			108
786	Base case	Comp Air - ASD (6-100 hp)	KEMA	KEMA	KEMA	KEMA			109
787	Base case	Comp Air - Motor practices-1 (6-100 HP)	KEMA	KEMA	KEMA	KEMA			110
788	Base case	Comp Air - Replace 100+ HP motor	KEMA	KEMA	KEMA	KEMA			111
789	Base case	Comp Air - ASD (100+ hp)	KEMA	KEMA	KEMA	KEMA			112
790	Base case	Comp Air - Motor practices-1 (100+ HP)	KEMA	KEMA	KEMA	KEMA			113
791	Base case	Power recovery	KEMA	KEMA	KEMA	KEMA			114
792	Base case	Refinery Controls	KEMA	KEMA	KEMA	KEMA			115
793	Base case	Energy Star Transformers	KEMA	KEMA	KEMA	KEMA			116
794	Base case	Fans - O&M	KEMA	KEMA	KEMA	KEMA			201
795	Base case	Fans - Controls	KEMA	KEMA	KEMA	KEMA			202
796	Base case	Fans - System Optimization	KEMA	KEMA	KEMA	KEMA			203
797	Base case	Fans- Improve components	KEMA	KEMA	KEMA	KEMA			204
798	Base case	Fans - Replace 1-5 HP motor	KEMA	KEMA	KEMA	KEMA			205
799	Base case	Fans - ASD (1-5 hp)	KEMA	KEMA	KEMA	KEMA			206
800	Base case	Fans - Motor practices-1 (1-5 HP)	KEMA	KEMA	KEMA	KEMA			207
801	Base case	Fans - Replace 6-100 HP motor	KEMA	KEMA	KEMA	KEMA			208
802	Base case	Fans - ASD (6-100 hp)	KEMA	KEMA	KEMA	KEMA			209

Measure ID	Base Technology	Efficient Technology	Measure name source	Measure lifetime source	Measure savings source	Measure cost source	RLW Measure ID	DEER Measure ID	KEMA Measure ID
803	Base case	Fans - Motor practices-1 (6-100 HP)	KEMA	KEMA	KEMA	KEMA			210
804	Base case	Fans - Replace 100+ HP motor	KEMA	KEMA	KEMA	KEMA			211
805	Base case	Fans - ASD (100+ hp)	KEMA	KEMA	KEMA	KEMA			212
806	Base case	Fans - Motor practices-1 (100+ HP)	KEMA	KEMA	KEMA	KEMA			213
807	Base case	Optimize drying process	KEMA	KEMA	KEMA	KEMA			214
808	Base case	Pumps - O&M	KEMA	KEMA	KEMA	KEMA			301
809	Base case	Pumps - Controls	KEMA	KEMA	KEMA	KEMA			302
810	Base case	Pumps - System Optimization	KEMA	KEMA	KEMA	KEMA			303
811	Base case	Pumps - Sizing	KEMA	KEMA	KEMA	KEMA			304
812	Base case	Pumps - Replace 1-5 HP motor	KEMA	KEMA	KEMA	KEMA			305
813	Base case	Pumps - ASD (1-5 hp)	KEMA	KEMA	KEMA	KEMA			306
814	Base case	Pumps - Motor practices-1 (1-5 HP)	KEMA	KEMA	KEMA	KEMA			307
815	Base case	Pumps - Replace 6-100 HP motor	KEMA	KEMA	KEMA	KEMA			308
816	Base case	Pumps - ASD (6-100 hp)	KEMA	KEMA	KEMA	KEMA			309
817	Base case	Pumps - Motor practices-1 (6-100 HP)	KEMA	KEMA	KEMA	KEMA			310
818	Base case	Pumps - Replace 100+ HP motor	KEMA	KEMA	KEMA	KEMA			311
819	Base case	Pumps - ASD (100+ hp)	KEMA	KEMA	KEMA	KEMA			312
820	Base case	Pumps - Motor practices-1 (100+ HP)	KEMA	KEMA	KEMA	KEMA			313
821	Base case	Efficient refrigeration - operations	KEMA	KEMA	KEMA	KEMA			551
822	Base case	Optimization refrigeration	KEMA	KEMA	KEMA	KEMA			552
823	Base case	Bakery - process	KEMA	KEMA	KEMA	KEMA			501
824	Base case	Bakery - process (mixing)	KEMA	KEMA	KEMA	KEMA			401
825	Base case	Clean room - controls	KEMA	KEMA	KEMA	KEMA			413
826	Base case	Clean room - new designs	KEMA	KEMA	KEMA	KEMA			414
827	Base case	Process controls (batch + site)	KEMA	KEMA	KEMA	KEMA			601
828	Base case	O&M - extruders / injection molding	KEMA	KEMA	KEMA	KEMA			417
829	Base case	Extruders / injection molding - multipump	KEMA	KEMA	KEMA	KEMA			418
830	Base case	Direct drive extruders	KEMA	KEMA	KEMA	KEMA			419
831	Base case	Injection molding - impulse cooling	KEMA	KEMA	KEMA	KEMA			420
832	Base case	Injection molding - direct drive	KEMA	KEMA	KEMA	KEMA			421
833	Base case	Efficient grinding	KEMA	KEMA	KEMA	KEMA			422
834	Base case	Process controls	KEMA	KEMA	KEMA	KEMA			423
835	Base case	Top-heating (glass)	KEMA	KEMA	KEMA	KEMA			504
836	Base case	Process controls	KEMA	KEMA	KEMA	KEMA			423
837	Base case	Efficient electric melting	KEMA	KEMA	KEMA	KEMA			505
838	Base case	Near net shape casting	KEMA	KEMA	KEMA	KEMA			507
839	Base case	Optimization process (M&T)	KEMA	KEMA	KEMA	KEMA			427
840	Base case	Scheduling	KEMA	KEMA	KEMA	KEMA			428
841	Base case	Efficient curing ovens	KEMA	KEMA	KEMA	KEMA			509
842	Base case	Machinery	KEMA	KEMA	KEMA	KEMA			429
843	Base case	Optimization process (M&T)	KEMA	KEMA	KEMA	KEMA			427
844	Base case	Scheduling	KEMA	KEMA	KEMA	KEMA			428
845	Base case	Efficient curing ovens	KEMA	KEMA	KEMA	KEMA			509
846	Base case	Machinery	KEMA	KEMA	KEMA	KEMA			429
847	Base case	Optimization process (M&T)	KEMA	KEMA	KEMA	KEMA			427
848	Base case	Scheduling	KEMA	KEMA	KEMA	KEMA			428
849	Base case	Efficient curing ovens	KEMA	KEMA	KEMA	KEMA			509
850	Base case	Machinery	KEMA	KEMA	KEMA	KEMA			429
851	Base case	Scheduling	KEMA	KEMA	KEMA	KEMA			428
852	Base case	Efficient curing ovens	KEMA	KEMA	KEMA	KEMA			509
853	Base case	Machinery	KEMA	KEMA	KEMA	KEMA			429
854	Base case	Efficient processes (welding, etc.)	KEMA	KEMA	KEMA	KEMA			604
855	Base case	Scheduling	KEMA	KEMA	KEMA	KEMA			428
856	Base case	Efficient machinery	KEMA	KEMA	KEMA	KEMA			430
857	Base case	Process controls	KEMA	KEMA	KEMA	KEMA			605
858	No direct load control - AC	Direct load control - air conditioner	ICF	ICF	ICF	ICF			
859	No direct load control - hot water	Direct load control - hot water heater	ICF	ICF	ICF	ICF			
860	Any pricing - no CPP events	Critical peak pricing - CPP events	Ameren	Ameren	Ameren	Ameren			
861	Any pricing - no CPP events or smart therm	Critical peak pricing - CPP events with sma	Ameren	Ameren	Ameren	Ameren			
862	Any pricing - no CPP events	Critical peak pricing - CPP events	Ameren	Ameren	Ameren	Ameren			
863	Any pricing - no CPP events or smart therm	Critical peak pricing - CPP events with sma	Ameren	Ameren	Ameren	Ameren			
864	No Industrial Interruptible Tariff	Industrial Interruptible Tariff	Ameren	Ameren	Ameren	Ameren			
865	No Commercial Demand Credit	Commercial Demand Credit	Ameren	Ameren	Ameren	Ameren			

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit Definitic	Measure Life	TRC	Force In?	Include?
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	Residential	Detached	Home	10	3.45	TRUE	1
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	Residential	Detached	Home	10	3.15	TRUE	1
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	Residential	Detached	Home	10	5.82	TRUE	1
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	10	2.69	TRUE	1
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	Residential	Detached	Home	10	0.87	TRUE	1
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	Residential	Detached	Home	10	0.88	TRUE	1
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	Residential	Detached	Home	10	1.39	TRUE	1
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	10	0.80	TRUE	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	Residential	Detached	Home	18	1.27	TRUE	1
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	Residential	Detached	Home	18	1.60	TRUE	1
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	Residential	Detached	Home	18	1.42	TRUE	1
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	0.20	TRUE	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	Residential	Detached	Home	18	8.39	TRUE	1
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	Residential	Detached	Home	18	6.05	TRUE	1
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	Residential	Detached	Home	18	6.00	TRUE	1
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	8.27	TRUE	1
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	Residential	Detached	Home	18	2.94	TRUE	1
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	Residential	Detached	Home	18	3.96	TRUE	1
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	Residential	Detached	Home	18	2.99	TRUE	1
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	0.00	TRUE	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	Residential	Detached	Home	15	0.38	TRUE	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	Residential	Detached	Home	15	0.08	TRUE	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	Residential	Detached	Home	15	1.56	TRUE	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	15	0.08	TRUE	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	Residential	Detached	Home	15	3.69	TRUE	1
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	Residential	Detached	Home	15	4.80	TRUE	1
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	Residential	Detached	Home	15	7.33	TRUE	1
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	15	0.00	TRUE	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	Residential	Detached	Home	20	0.33	TRUE	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	Residential	Detached	Home	20	0.62	TRUE	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	Residential	Detached	Home	20	0.36	TRUE	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.00	TRUE	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	Residential	Detached	Home	18	0.45	TRUE	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	Residential	Detached	Home	18	0.33	TRUE	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	Residential	Detached	Home	18	0.48	TRUE	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	0.59	TRUE	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	Residential	Detached	Home	18	1.93	TRUE	1
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	Residential	Detached	Home	20	2.75	TRUE	1
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	Residential	Detached	Home	20	5.18	TRUE	1
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	Residential	Detached	Home	20	2.87	TRUE	1
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.60	TRUE	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	Residential	Detached	Home	20	1.74	TRUE	1
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	Residential	Detached	Home	20	3.53	TRUE	1
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	Residential	Detached	Home	20	1.98	TRUE	1
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.38	TRUE	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	Residential	Detached	Home	20	2.17	TRUE	1
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	Residential	Detached	Home	20	3.47	TRUE	1
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	Residential	Detached	Home	20	1.86	TRUE	1
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	1.78	TRUE	1
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.00	TRUE	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	0.45	TRUE	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.00	TRUE	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	Residential	Detached	Home	20	4.20	TRUE	1
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	Residential	Detached	Home	20	7.68	TRUE	1
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	Residential	Detached	Home	20	3.54	TRUE	1
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	1.99	TRUE	1
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.06	TRUE	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	0.11	TRUE	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.05	TRUE	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.14	TRUE	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.61	TRUE	1
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	0.88	TRUE	1
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.53	TRUE	1
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.55	TRUE	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.38	TRUE	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	0.47	TRUE	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.33	TRUE	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.38	TRUE	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.85	TRUE	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	0.55	TRUE	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.60	TRUE	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.47	TRUE	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.31	TRUE	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	0.23	TRUE	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.22	TRUE	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.71	TRUE	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	Residential	Detached	1 compact l	9	3.74	TRUE	1

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Life	TRC	Force In?	Include?
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	Residential	Detached	1 compact fl	9	3.74	TRUE	1	
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	Residential	Detached	1 compact fl	9	3.74	TRUE	1	
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact fl	9	3.74	TRUE	1	
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	18	0.61	TRUE	0	
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	Residential	Detached	Home	18	0.29	TRUE	0	
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	Residential	Detached	Home	18	0.47	TRUE	0	
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	0.58	TRUE	0	
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	13	2.24	TRUE	1	
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	Residential	Detached	Home	13	1.62	TRUE	1	
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	Residential	Detached	Home	13	2.49	TRUE	1	
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	13	0.41	TRUE	1	
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006)	Gas Furnace / Central AC	Residential	Detached	Home	14	0.09	TRUE	0	
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006)	Elec Res / Central AC	Residential	Detached	Home	14	0.05	TRUE	0	
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006)	Heat Pump / Central AC	Residential	Detached	Home	14	0.08	TRUE	0	
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	14	0.10	TRUE	0	
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	12	1.86	TRUE	1	
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	Residential	Detached	Home	12	1.55	TRUE	1	
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	Residential	Detached	Home	12	4.88	TRUE	1	
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	12	0.15	TRUE	0	
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	9	8.72	TRUE	1	
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	Residential	Detached	Home	9	12.37	TRUE	1	
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	Residential	Detached	Home	9	8.10	TRUE	1	
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	9	1.79	TRUE	1	
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	10	7.18	TRUE	1	
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	Residential	Detached	Home	10	4.96	TRUE	1	
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	Residential	Detached	Home	10	3.42	TRUE	1	
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	10	0.18	TRUE	1	
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	15	1.67	TRUE	1	
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	Residential	Detached	Home	15	2.32	TRUE	1	
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	Residential	Detached	Home	15	1.97	TRUE	1	
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	15	0.00	TRUE	1	
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	15	0.00	TRUE	1	
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	Residential	Detached	Home	15	5.52	TRUE	1	
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	Residential	Detached	Home	15	5.52	TRUE	1	
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	15	0.00	TRUE	1	
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	20	0.75	TRUE	1	
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	Residential	Detached	Home	20	1.05	TRUE	1	
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	Residential	Detached	Home	20	0.60	TRUE	1	
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.00	TRUE	0	
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	Residential	Detached	Home	20	2.28	TRUE	1	
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	Residential	Detached	Home	20	3.88	TRUE	1	
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	Residential	Detached	Home	20	2.03	TRUE	1	
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.52	TRUE	0	
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	Residential	Detached	Home	20	1.22	TRUE	1	
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	Residential	Detached	Home	20	2.58	TRUE	1	
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	Residential	Detached	Home	20	1.32	TRUE	1	
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	20	0.34	TRUE	0	
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Existing)	Gas Furnace / Central AC	Residential	Detached	Home	15	4.30	TRUE	1	
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Existing)	Elec Res / Central AC	Residential	Detached	Home	15	4.24	TRUE	1	
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Existing)	Elec Res / Central AC	Residential	Multifamily	Home	15	8.24	TRUE	1	
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	Residential	Detached	Home	15	0.62	TRUE	0	
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	Residential	Multifamily	Home	15	0.16	TRUE	0	
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	Residential	Detached	Home	10	1.50	TRUE	1	
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	Residential	Detached	Home	10	1.30	TRUE	1	
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	Residential	Multifamily	Home	10	3.35	TRUE	1	
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	12	9.06	TRUE	1	
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	Residential	Detached	Home	12	12.93	TRUE	1	
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	Residential	Detached	Home	12	8.62	TRUE	1	
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	12	1.35	TRUE	1	
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	11	3.73	TRUE	1	
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	Residential	Detached	Home	11	6.12	TRUE	1	
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	Residential	Detached	Home	11	4.38	TRUE	1	
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	11	1.83	TRUE	1	
141	Home Energy Performance	Home Performance with ENERGY STAR (Existing)	Gas Furnace / Central AC	Residential	Detached	Home	18	0.36	TRUE	0	
142	Home Energy Performance	Home Performance with ENERGY STAR (Existing)	Elec Res / Central AC	Residential	Detached	Home	18	0.54	TRUE	0	
143	Home Energy Performance	Home Performance with ENERGY STAR (Existing)	Heat Pump / Central AC	Residential	Detached	Home	18	0.22	TRUE	0	
144	Home Energy Performance	Home Performance with ENERGY STAR (Existing)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	0.38	TRUE	0	
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	Residential	Detached	Home	18	1.96	TRUE	1	
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	Residential	Detached	Home	18	1.05	TRUE	1	
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	Residential	Multifamily	Home	18	0.92	FALSE	0	
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	Residential	Detached	Home	15	0.01	FALSE	0	
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	Residential	Detached	1 refrigerator	5	6.66	FALSE	0	
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	Residential	Detached	1 refrigerator	18	1.08	TRUE	1	
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	Residential	Detached	1 water heat	10	0.82	TRUE	0	
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	Residential	Multifamily	1 water heat	10	0.43	TRUE	0	
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6: Gas	Gas Furnace / Central AC	Residential	Detached	1 water heat	13	3.19	FALSE	0	
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6: Gas	Gas Furnace / Central AC - MF	Residential	Multifamily	1 water heat	13	1.95	FALSE	0	

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit Definition	Measure Life	TRC	Force In?	Include?
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	Residential	Detached	1 water heat	20	0.00	TRUE	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	Residential	Multifamily	1 water heat	20	0.00	TRUE	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	Residential	Detached	1 unit	15	0.00	TRUE	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	Residential	Detached	Home	20	2.75	TRUE	1
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	Residential	Detached	Home	20	2.17	TRUE	1
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	Residential	Detached	1 compact la	9	3.74	TRUE	1
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	2	3.29	TRUE	1
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	2	4.78	TRUE	1
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	2	5.26	TRUE	1
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	2	6.78	TRUE	1
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	12	1.54	TRUE	1
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	12	2.52	TRUE	1
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	12	3.09	TRUE	1
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	Residential	Multifamily	1 compact la	12	3.96	TRUE	1
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	4 ft. 2 lamp f	11	1.16	TRUE	1
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	4 ft. 2 lamp f	11	1.74	TRUE	1
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	4 ft. 2 lamp f	11	1.86	TRUE	1
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	4 ft. 2 lamp f	11	0.93	TRUE	1
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	4 ft. 2 lamp f	11	1.44	TRUE	1
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	4 ft. 2 lamp f	11	5.68	TRUE	1
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	8 ft. 2 lamp f	11	0.51	TRUE	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	8 ft. 2 lamp f	11	0.78	TRUE	1
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	8 ft. 2 lamp f	11	1.47	TRUE	1
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	8 ft. 2 lamp f	11	0.65	TRUE	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	8 ft. 2 lamp f	11	0.92	TRUE	1
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	Residential	Multifamily	8 ft. 2 lamp f	11	2.37	TRUE	1
181	Residential Multifamily	Occupancy sensor - Assume control	3 2-lamp Gas Furnace / Central AC - MF	Residential	Multifamily	1 wall box	8	1.58	TRUE	1
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	Residential	Multifamily	1 timeclock	8	0.72	TRUE	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	Residential	Multifamily	1 photocell	8	0.65	TRUE	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	Residential	Multifamily	1 sign	16	3.53	TRUE	1
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	Residential	Multifamily	1 sign	16	4.56	TRUE	1
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	Residential	Multifamily	1 sign	16	2.33	TRUE	1
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	Residential	Multifamily	1 sign	16	2.40	TRUE	1
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	Commercial	Education	1 building	10	0.00	TRUE	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	Commercial	Health Inpat	1 building	10	0.00	TRUE	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	Commercial	Lodging	1 building	10	0.00	TRUE	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	Commercial	Retail	1 building	10	0.47	TRUE	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	Commercial	Office - Larg	1 building	10	1.16	TRUE	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Education	1 building	10	0.00	TRUE	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Food Sales	1 building	10	0.00	TRUE	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Food Servic	1 building	10	0.00	TRUE	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Health Inpat	1 building	10	0.00	TRUE	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	Commercial	Lodging	1 building	10	0.00	TRUE	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Retail	1 building	10	0.00	TRUE	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Office - Sme	1 building	10	0.00	TRUE	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Commercial	Warehouse	1 building	10	0.00	TRUE	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	Commercial	Education	1000 sq ft	20	0.00	TRUE	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft	20	0.00	TRUE	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	Commercial	Lodging	1000 sq ft	20	0.00	TRUE	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	Commercial	Retail	1000 sq ft	20	0.23	TRUE	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft	20	0.58	TRUE	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Education	1000 sq ft	20	0.27	TRUE	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Food Sales	1000 sq ft	20	0.18	TRUE	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Food Servic	1000 sq ft	20	0.14	TRUE	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Health Inpat	1000 sq ft	20	0.09	TRUE	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	Commercial	Lodging	1000 sq ft	20	0.08	TRUE	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Retail	1000 sq ft	20	0.23	TRUE	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Office - Sme	1000 sq ft	20	0.26	TRUE	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Commercial	Warehouse	1000 sq ft	20	0.26	TRUE	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	Commercial	Education	tons served	20	1.52	TRUE	1
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	Commercial	Health Inpat	tons served	20	3.74	TRUE	1
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	Commercial	Lodging	tons served	20	3.45	TRUE	1
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	Commercial	Retail	tons served	20	5.34	TRUE	1
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	Commercial	Office - Larg	tons served	20	1.86	TRUE	1
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	Commercial	Education	1 building	10	0.00	TRUE	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	Commercial	Health Inpat	1 building	10	0.00	TRUE	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	Commercial	Lodging	1 building	10	0.00	TRUE	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	Commercial	Retail	1 building	10	0.86	TRUE	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	Commercial	Office - Larg	1 building	10	1.49	TRUE	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Education	1 building	10	0.00	TRUE	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Food Sales	1 building	10	0.00	TRUE	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Food Servic	1 building	10	0.00	TRUE	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Health Inpat	1 building	10	0.00	TRUE	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	Commercial	Lodging	1 building	10	0.00	TRUE	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Retail	1 building	10	0.00	TRUE	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Office - Sme	1 building	10	0.00	TRUE	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Commercial	Warehouse	1 building	10	0.00	TRUE	0

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Lift	TRC	Force In?	Include?
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	Commercial	Education	tons served	3	0.49		TRUE	1
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	Commercial	Health Inpat	tons served	3	1.13		TRUE	1
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	Commercial	Lodging	tons served	3	0.63		TRUE	1
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	Commercial	Retail	tons served	3	1.63		TRUE	1
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	Commercial	Office - Larg	tons served	3	1.95		TRUE	1
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Education	tons served	3	2.08		TRUE	1
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Food Sales	tons served	3	2.81		TRUE	1
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Food Servic	tons served	3	6.38		TRUE	1
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Health Inpat	tons served	3	2.68		TRUE	1
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	Commercial	Lodging	tons served	3	6.13		TRUE	1
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Retail	tons served	3	2.97		TRUE	1
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Office - Sma	tons served	3	2.39		TRUE	1
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Commercial	Warehouse	tons served	3	2.26		TRUE	1
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	Commercial	Education	1000 sq ft	15	0.00		TRUE	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft	15	0.00		TRUE	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	Commercial	Lodging	1000 sq ft	15	0.01		TRUE	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	Commercial	Retail	1000 sq ft	15	0.02		TRUE	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft	15	0.03		TRUE	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Education	1000 sq ft	15	0.01		TRUE	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Food Sales	1000 sq ft	15	0.02		TRUE	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Food Servic	1000 sq ft	15	0.01		TRUE	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Health Inpat	1000 sq ft	15	0.01		TRUE	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	Commercial	Lodging	1000 sq ft	15	0.01		TRUE	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Retail	1000 sq ft	15	0.02		TRUE	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Office - Sma	1000 sq ft	15	0.02		TRUE	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Commercial	Warehouse	1000 sq ft	15	0.02		TRUE	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	Commercial	Education	tons served	3	0.00		TRUE	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	Commercial	Health Inpat	tons served	3	0.20		TRUE	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	Commercial	Lodging	tons served	3	0.14		TRUE	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	Commercial	Retail	tons served	3	0.68		TRUE	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	Commercial	Office - Larg	tons served	3	0.68		TRUE	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Education	tons served	3	0.35		TRUE	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Food Sales	tons served	3	1.05		TRUE	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Food Servic	tons served	3	0.16		TRUE	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Health Inpat	tons served	3	0.71		TRUE	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	Commercial	Lodging	tons served	3	0.00		TRUE	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Retail	tons served	3	1.28		TRUE	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Office - Sma	tons served	3	0.56		TRUE	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	Commercial	Warehouse	tons served	3	0.45		TRUE	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	Commercial	Education	tons served	15	1.04		TRUE	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	Commercial	Health Inpat	tons served	15	0.68		TRUE	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	Commercial	Lodging	tons served	15	1.18		TRUE	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	Commercial	Retail	tons served	15	0.67		TRUE	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	Commercial	Office - Larg	tons served	15	0.00		TRUE	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	Commercial	Education	1000 sq ft	20	0.00		TRUE	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft	20	0.00		TRUE	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	Commercial	Lodging	1000 sq ft	20	0.00		TRUE	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	Commercial	Retail	1000 sq ft	20	0.02		TRUE	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft	20	0.28		TRUE	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Education	1000 sq ft	20	0.00		TRUE	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Food Sales	1000 sq ft	20	0.00		TRUE	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Food Servic	1000 sq ft	20	0.00		TRUE	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Health Inpat	1000 sq ft	20	0.00		TRUE	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	Commercial	Lodging	1000 sq ft	20	0.00		TRUE	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Retail	1000 sq ft	20	0.00		TRUE	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Office - Sma	1000 sq ft	20	0.00		TRUE	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Commercial	Warehouse	1000 sq ft	20	0.00		TRUE	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	Commercial	Education	1000 sq ft	10	0.61		TRUE	1
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft	10	2.70		TRUE	1
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	Commercial	Lodging	1000 sq ft	10	1.31		TRUE	1
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	Commercial	Retail	1000 sq ft	10	0.23		TRUE	1
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft	10	1.42		TRUE	1
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Education	1000 sq ft	10	3.05		TRUE	1
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Food Sales	1000 sq ft	10	0.09		TRUE	1
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Food Servic	1000 sq ft	10	7.13		TRUE	1
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Health Inpat	1000 sq ft	10	7.95		TRUE	1
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	Commercial	Lodging	1000 sq ft	10	4.74		TRUE	1
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Retail	1000 sq ft	10	0.65		TRUE	1
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Office - Sma	1000 sq ft	10	2.66		TRUE	1
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Commercial	Warehouse	1000 sq ft	10	0.00		TRUE	1
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Education	tons served	15	3.04		TRUE	1
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Food Sales	tons served	15	3.98		TRUE	1
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Food Servic	tons served	15	2.96		TRUE	1
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Health Inpat	tons served	15	3.81		TRUE	1
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	Commercial	Lodging	tons served	15	0.00		TRUE	1
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Retail	tons served	15	4.18		TRUE	1
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Office - Sma	tons served	15	3.46		TRUE	1

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Life	TRC	Force In?	Include?
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Commercial	Warehouse	tons served		15	3.31	TRUE	1
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	Commercial	Education	1 building		10	6.72	TRUE	1
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	Commercial	Health Inpat	1 building		10	6.59	TRUE	1
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	Commercial	Lodging	1 building		10	6.35	TRUE	1
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	Commercial	Retail	1 building		10	6.04	TRUE	1
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	Commercial	Office - Larg	1 building		10	6.47	TRUE	1
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Education	1 building		10	6.71	TRUE	1
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Food Sales	1 building		10	6.05	TRUE	1
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Food Servic	1 building		10	6.20	TRUE	1
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Health Inpat	1 building		10	5.82	TRUE	1
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	Commercial	Lodging	1 building		10	4.66	TRUE	1
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Retail	1 building		10	5.70	TRUE	1
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Office - Sma	1 building		10	6.97	TRUE	1
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	Commercial	Warehouse	1 building		10	7.90	TRUE	1
323	C&I Prescriptive	VAV	Chiller & Boiler	Commercial	Education	1000 sq ft		10	6.33	TRUE	1
324	C&I Prescriptive	VAV	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft		10	3.79	TRUE	1
325	C&I Prescriptive	VAV	Chiller & Boiler	Commercial	Lodging	1000 sq ft		10	31.00	TRUE	1
326	C&I Prescriptive	VAV	Chiller & Boiler	Commercial	Retail	1000 sq ft		10	8.29	TRUE	1
327	C&I Prescriptive	VAV	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft		10	53.96	TRUE	1
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Education	1000 sq ft		10	5.13	TRUE	1
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Food Sales	1000 sq ft		10	30.69	TRUE	1
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Food Servic	1000 sq ft		10	7.93	TRUE	1
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Health Inpat	1000 sq ft		10	9.89	TRUE	1
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Retail	1000 sq ft		10	10.74	TRUE	1
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Office - Sma	1000 sq ft		10	54.40	TRUE	1
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Commercial	Warehouse	1000 sq ft		10	9.93	TRUE	1
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	Commercial	Education	1000 sq ft		10	0.12	TRUE	1
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft		10	3.43	TRUE	1
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	Commercial	Lodging	1000 sq ft		10	2.15	TRUE	1
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	Commercial	Retail	1000 sq ft		10	2.43	TRUE	1
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft		10	8.00	TRUE	1
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	Commercial	Education	1000 sq ft		10	0.00	TRUE	1
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	Commercial	Health Inpat	1000 sq ft		10	3.22	TRUE	1
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	Commercial	Lodging	1000 sq ft		10	1.53	TRUE	1
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	Commercial	Retail	1000 sq ft		10	5.71	TRUE	1
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	Commercial	Office - Larg	1000 sq ft		10	98.07	TRUE	1
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	Commercial	Office - Larg	1 building		30	2.08	TRUE	1
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Education	1 compact le		3	3.39	TRUE	1
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Education	1 compact le		3	4.93	TRUE	1
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Education	1 compact le		3	5.43	TRUE	1
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Education	1 compact le		3	7.00	TRUE	1
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Education	1 compact le		12	1.10	TRUE	1
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Education	1 compact le		12	1.79	TRUE	1
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Education	1 compact le		12	2.20	TRUE	1
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Education	1 compact le		12	2.82	TRUE	1
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Sales	1 compact le		1	2.38	TRUE	1
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Sales	1 compact le		1	3.46	TRUE	1
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Sales	1 compact le		1	3.81	TRUE	1
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Sales	1 compact le		1	4.90	TRUE	1
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Sales	1 compact le		12	2.25	TRUE	1
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Sales	1 compact le		12	3.66	TRUE	1
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Sales	1 compact le		12	4.49	TRUE	1
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Sales	1 compact le		12	5.76	TRUE	1
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Servic	1 compact le		2	4.13	TRUE	1
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Servic	1 compact le		2	6.00	TRUE	1
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Servic	1 compact le		2	6.61	TRUE	1
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Food Servic	1 compact le		2	8.51	TRUE	1
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Servic	1 compact le		12	1.92	TRUE	1
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Servic	1 compact le		12	3.13	TRUE	1
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Servic	1 compact le		12	3.83	TRUE	1
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Food Servic	1 compact le		12	4.92	TRUE	1
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Health Inpat	1 compact le		1	3.64	TRUE	1
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Health Inpat	1 compact le		1	5.29	TRUE	1
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Health Inpat	1 compact le		1	5.82	TRUE	1
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Health Inpat	1 compact le		1	7.49	TRUE	1
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Health Inpat	1 compact le		12	3.32	TRUE	1
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Health Inpat	1 compact le		12	5.42	TRUE	1
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Health Inpat	1 compact le		12	6.65	TRUE	1
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Health Inpat	1 compact le		12	8.53	TRUE	1
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Lodging	1 compact le		1	2.50	TRUE	1
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Lodging	1 compact le		1	3.63	TRUE	1
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Lodging	1 compact le		1	4.00	TRUE	1
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Commercial	Lodging	1 compact le		1	5.15	TRUE	1
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Lodging	1 compact le		12	2.31	TRUE	1
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Lodging	1 compact le		12	3.76	TRUE	1
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Lodging	1 compact le		12	4.62	TRUE	1
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Commercial	Lodging	1 compact le		12	5.92	TRUE	1

3.6

3.7

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Life	TRC	Force In?	Include?
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Retail	8 ft. 2 lamp f	11	0.71	TRUE	0	
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Retail	8 ft. 2 lamp f	11	1.00	TRUE	1	
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Retail	8 ft. 2 lamp f	11	2.58	TRUE	1	
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	Commercial	Retail	1 lamp	16	1.58	TRUE	1	
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	Commercial	Retail	1 lamp	16	0.38	TRUE	0	
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	Commercial	Retail	1 lamp	16	1.12	TRUE	1	
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	4 ft. 2 lamp f	11	0.86	TRUE	1	
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	4 ft. 2 lamp f	11	1.28	TRUE	1	
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	4 ft. 2 lamp f	11	1.37	TRUE	1	
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	4 ft. 2 lamp f	11	0.68	TRUE	1	
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	4 ft. 2 lamp f	11	1.06	TRUE	1	
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	4 ft. 2 lamp f	11	4.19	TRUE	1	
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	8 ft. 2 lamp f	11	0.38	TRUE	0	
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	8 ft. 2 lamp f	11	0.58	TRUE	1	
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	8 ft. 2 lamp f	11	1.09	TRUE	1	
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	8 ft. 2 lamp f	11	0.48	TRUE	0	
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	8 ft. 2 lamp f	11	0.68	TRUE	1	
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Warehouse	8 ft. 2 lamp f	11	1.75	TRUE	1	
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	Commercial	Warehouse	1 lamp	16	1.08	TRUE	1	
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	Commercial	Warehouse	1 lamp	16	0.26	TRUE	0	
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	Commercial	Warehouse	1 lamp	16	0.76	TRUE	1	
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	4 ft. 2 lamp f	11	1.44	TRUE	1	
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	4 ft. 2 lamp f	11	2.16	TRUE	1	
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	4 ft. 2 lamp f	11	2.30	TRUE	1	
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	4 ft. 2 lamp f	11	1.15	TRUE	1	
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	4 ft. 2 lamp f	11	1.78	TRUE	1	
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	4 ft. 2 lamp f	11	7.03	TRUE	1	
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	8 ft. 2 lamp f	11	0.63	TRUE	0	
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	8 ft. 2 lamp f	11	0.97	TRUE	1	
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	8 ft. 2 lamp f	11	1.82	TRUE	1	
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	8 ft. 2 lamp f	11	0.81	TRUE	0	
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	8 ft. 2 lamp f	11	1.14	TRUE	1	
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	Commercial	Other	8 ft. 2 lamp f	11	2.93	TRUE	1	
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	Commercial	Other	1 lamp	16	1.79	TRUE	1	
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	Commercial	Other	1 lamp	16	0.43	TRUE	0	
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	Commercial	Other	1 lamp	16	1.27	TRUE	1	
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	Commercial	All	1 wall box	8	1.53	TRUE	1	
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast)	Lighting - exterior	Commercial	All	1 timeclock	8	0.69	TRUE	0	
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	Commercial	All	1 photocell	8	0.62	TRUE	0	
579	C&I Prescriptive	200W HPS	Lighting - exterior	Commercial	All	1 lamp	16	2.92	TRUE	1	
580	C&I Prescriptive	180W LPS	Lighting - exterior	Commercial	All	1 lamp	16	3.59	TRUE	1	
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	Commercial	All	1 lamp	16	1.00	TRUE	1	
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	Commercial	All	1 lamp	16	3.42	TRUE	1	
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	Commercial	All	1 lamp	16	1.68	TRUE	1	
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	Commercial	All	1 sign	16	3.38	TRUE	1	
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	Commercial	All	1 sign	16	4.37	TRUE	1	
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	Commercial	All	1 sign	16	2.23	TRUE	1	
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	Commercial	All	1 sign	16	2.30	TRUE	1	
588	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	1.90	TRUE	1	
589	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	3.58	TRUE	1	
590	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	2.58	TRUE	1	
591	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	3.08	TRUE	1	
592	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	3.14	TRUE	1	
593	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	3.12	TRUE	1	
594	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	2.46	TRUE	1	
595	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	2.08	TRUE	1	
596	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	1.42	TRUE	1	
597	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	0.98	TRUE	1	
598	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	1.20	TRUE	1	
599	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	2.41	TRUE	1	
600	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	2.11	TRUE	1	
601	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	1.89	TRUE	1	
602	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	2.20	TRUE	1	
603	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	1.75	TRUE	1	
604	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	1.19	TRUE	1	
605	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	0.87	TRUE	1	
606	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	0.78	TRUE	1	
607	C&I Prescriptive	Premium Efficiency Motor	Motors	Commercial	All	1 motor	15	0.71	TRUE	1	
608	C&I Prescriptive	High Efficiency Copier	Office equipment	Commercial	All	1 copier	6	0.67	TRUE	0	
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	Commercial	All	1 unit	4	3.60	FALSE	0	
610	C&I Prescriptive	80 Plus server power supply	Office equipment	Commercial	All	1 unit	4	6.37	FALSE	0	
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	Commercial	All	1 fryer	12	0.12	TRUE	0	
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	Commercial	All	1 cabinet	12	2.34	TRUE	1	
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5 k	Cooking	Commercial	All	1 steamer	12	1.77	TRUE	1	
614	C&I Prescriptive	Domestic hot water circulation pump controlled	Hot water	Commercial	Education	1000 sq ft	15	0.07	TRUE	0	
615	C&I Prescriptive	Domestic hot water circulation pump controlled	Hot water	Commercial	Food Sales	1000 sq ft	15	0.03	TRUE	0	
616	C&I Prescriptive	Domestic hot water circulation pump controlled	Hot water	Commercial	Office - Large	1000 sq ft	15	0.02	TRUE	0	

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Life	TRC	Force In?	Include?
617	C&I Prescriptive	Domestic hot water circulation pump controls	Hot water	Commercial	Retail	1000 sq ft	15	0.01	TRUE	0	
618	C&I Prescriptive	Tankless electric hot water system	Hot water	Commercial	Office - Large	1000 sq ft	20	0.02	TRUE	0	
619	C&I Prescriptive	Tankless electric hot water system	Hot water	Commercial	Office - Small	1000 sq ft	20	0.17	TRUE	0	
620	C&I Prescriptive	Tankless electric hot water system	Hot water	Commercial	Warehouse	1000 sq ft	20	0.00	TRUE	0	
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	Commercial	Food Sales	1000 sq ft	10	0.22	TRUE	0	
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	Commercial	All	1 unit	5	19.26	FALSE	0	
623	C&I Retro-commissioning	Turn off fixture lights when store closed, between	Refrigeration - controls	Commercial	Food Sales	fixture linear	16	7.37	TRUE	1	
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	Commercial	Food Sales	tons served	16	18.14	TRUE	1	
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	Commercial	Food Sales	tons served	16	32.34	TRUE	1	
626	C&I Retro-commissioning	Floating SST control on LT and MT suction grade	Refrigeration - controls	Commercial	Food Sales	tons served	16	7.59	TRUE	1	
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimum	Refrigeration - controls	Commercial	Food Sales	tons served	16	1.96	TRUE	1	
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimum	Refrigeration - controls	Commercial	Food Sales	tons served	16	4.92	TRUE	1	
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimum	Refrigeration - controls	Commercial	Food Sales	tons served	16	11.04	TRUE	1	
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimum	Refrigeration - controls	Commercial	Food Sales	tons served	16	20.88	TRUE	1	
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occurs	Refrigeration - controls	Commercial	Food Sales	1 motor	16	2.83	TRUE	1	
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only when	Refrigeration - equipment	Commercial	Food Sales	1000 sq ft	16	1.38	TRUE	1	
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	Commercial	Food Sales	display fixture	5	0.21	TRUE	0	
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	Commercial	Food Sales	tons served	15	3.08	TRUE	1	
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	Commercial	Food Sales	fixture linear	15	-0.58	TRUE	0	
636	C&I Retro-commissioning	Reduce design SCT by -5°F and improve efficiency	Refrigeration - equipment	Commercial	Food Sales	tons served	15	4.59	TRUE	1	
637	C&I Prescriptive	Replace multiplex air-cooled condenser with standard	Refrigeration - equipment	Commercial	Food Sales	tons served	15	3.31	TRUE	1	
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	Commercial	Food Sales	1 motor	15	2.26	TRUE	1	
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cooled	Refrigeration - equipment	Commercial	Food Sales	tons served	10	0.98	TRUE	1	
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled medium	Refrigeration - equipment	Commercial	Food Sales	tons served	10	2.35	TRUE	1	
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	Commercial	Food Sales	Per cooler	8	1.05	TRUE	1	
642	C&I Prescriptive	Install automatic door closer on walk-in freezer	Refrigeration - equipment	Commercial	Food Sales	Per freezer	8	2.94	TRUE	1	
643	C&I Prescriptive	Replace single-compressor system with subcooled	Refrigeration - equipment	Commercial	Food Sales	tons served	10	0.49	TRUE	0	
644	C&I Prescriptive	Replace single-compressor system with subcooled	Refrigeration - equipment	Commercial	Food Sales	tons served	10	0.76	TRUE	0	
645	C&I Prescriptive	Replace single-compressor system with subcooled	Refrigeration - equipment	Commercial	Food Sales	tons served	10	0.55	TRUE	0	
646	C&I Prescriptive	Replace single-compressor system with subcooled	Refrigeration - equipment	Commercial	Food Sales	tons served	10	0.80	TRUE	0	
647	C&I Prescriptive	Replace open MT case with new case with condenser	Refrigeration - equipment	Commercial	Food Sales	fixture linear	12	0.31	TRUE	0	
648	C&I Prescriptive	Retrofit glass doors on open MT cases; add	Refrigeration - equipment	Commercial	Food Sales	fixture linear	12	0.41	TRUE	0	
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	Commercial	Food Sales	Per door	16	11.08	TRUE	1	
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrigerant	Refrigeration - maintenance	Commercial	Food Sales	tons served	4	3.34	TRUE	1	
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenance	Refrigeration - maintenance	Commercial	Food Sales	tons served	4	3.38	TRUE	1	
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	Industrial	Industrial	1 building	10	7.90	TRUE	1	
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	Industrial	Industrial	1 building	10	0.00	TRUE	0	
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	Industrial	Industrial	1 building	10	0.00	TRUE	0	
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	Industrial	Industrial	tons served	3	2.26	TRUE	1	
656	C&I Retro-commissioning	Economizer Limit	Pkg AC & Gas Furn	Industrial	Industrial	tons served	3	0.45	TRUE	0	
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	Industrial	Industrial	1000 sq ft	10	0.00	TRUE	1	
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	Industrial	Industrial	1000 sq ft	10	9.93	TRUE	1	
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	Industrial	Industrial	1000 sq ft	20	0.26	TRUE	0	
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	Industrial	Industrial	1000 sq ft	15	0.02	TRUE	0	
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	Industrial	Industrial	1000 sq ft	20	0.00	TRUE	0	
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	Industrial	Industrial	tons served	15	3.31	TRUE	1	
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Industrial	Industrial	1 compact fluorescent	3	3.51	TRUE	1	
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Industrial	Industrial	1 compact fluorescent	3	5.10	TRUE	1	
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Industrial	Industrial	1 compact fluorescent	3	5.62	TRUE	1	
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	Industrial	Industrial	1 compact fluorescent	3	7.23	TRUE	1	
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Industrial	Industrial	1 compact fluorescent	12	1.19	TRUE	1	
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Industrial	Industrial	1 compact fluorescent	12	1.94	TRUE	1	
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Industrial	Industrial	1 compact fluorescent	12	2.38	TRUE	1	
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	Industrial	Industrial	1 compact fluorescent	12	3.05	TRUE	1	
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	4 ft. 2 lamp fixture	11	0.89	TRUE	1	
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	4 ft. 2 lamp fixture	11	1.34	TRUE	1	
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	4 ft. 2 lamp fixture	11	1.43	TRUE	1	
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast w/	Lighting - interior	Industrial	Industrial	4 ft. 2 lamp fixture	11	0.71	TRUE	1	
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast w/	Lighting - interior	Industrial	Industrial	4 ft. 2 lamp fixture	11	1.10	TRUE	1	
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	4 ft. 2 lamp fixture	11	4.36	TRUE	1	
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	8 ft. 2 lamp fixture	11	0.39	TRUE	0	
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	8 ft. 2 lamp fixture	11	0.60	TRUE	1	
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	8 ft. 2 lamp fixture	11	1.13	TRUE	1	
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast w/	Lighting - interior	Industrial	Industrial	8 ft. 2 lamp fixture	11	0.50	TRUE	0	
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast w/	Lighting - interior	Industrial	Industrial	8 ft. 2 lamp fixture	11	0.71	TRUE	1	
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	Industrial	Industrial	8 ft. 2 lamp fixture	11	1.82	TRUE	1	
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	Industrial	Industrial	1 lamp	16	1.12	TRUE	1	
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	Industrial	Industrial	1 lamp	16	0.27	TRUE	0	
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	Industrial	Industrial	1 lamp	16	0.79	TRUE	1	
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	Industrial	Industrial	1 wall box	8	1.63	TRUE	1	
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast)	Lighting - exterior	Industrial	Industrial	1 timeclock	8	0.69	TRUE	0	
688	C&I Prescriptive	Photocell - Assume in conjunction with time-clock	Lighting - exterior	Industrial	Industrial	1 photocell	8	0.62	TRUE	0	
689	C&I Prescriptive	200W HPS	Lighting - exterior	Industrial	Industrial	1 lamp	16	2.92	TRUE	1	
690	C&I Prescriptive	180W LPS	Lighting - exterior	Industrial	Industrial	1 lamp	16	3.59	TRUE	1	
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	Industrial	Industrial	1 lamp	16	1.00	TRUE	1	
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	Industrial	Industrial	1 lamp	16	3.42	TRUE	1	
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	Industrial	Industrial	1 lamp	16	1.68	TRUE	1	

3.10

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Lif	TRC	Force In?	Include?
771	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	2.56	TRUE	1	1
772	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	2.37	TRUE	1	1
773	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	2.12	TRUE	1	1
774	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	1.44	TRUE	1	1
775	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	1.34	TRUE	1	1
776	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	1.09	TRUE	1	1
777	C&I Prescriptive	Premium Efficiency Motor	Motors	Industrial	Other	1 motor	15	1.18	TRUE	1	1
778	C&I Custom	Compressed Air-O&M	All systems	Industrial	All	1 kWh	10	8.21	TRUE	1	1
779	C&I Custom	Compressed Air - Controls	All systems	Industrial	All	1 kWh	10	3.45	TRUE	1	1
780	C&I Custom	Compressed Air - System Optimization	All systems	Industrial	All	1 kWh	10	6.16	TRUE	1	1
781	C&I Custom	Compressed Air- Sizing	All systems	Industrial	All	1 kWh	10	9.85	TRUE	1	1
782	C&I Custom	Comp Air - Replace 1-5 HP motor	All systems	Industrial	All	1 kWh	15	0.67	TRUE	0	0
783	C&I Custom	Comp Air - ASD (1-5 hp)	All systems	Industrial	All	1 kWh	15	0.53	TRUE	0	0
784	C&I Custom	Comp Air - Motor practices-1 (1-5 HP)	All systems	Industrial	All	1 kWh	15	1.43	TRUE	1	1
785	C&I Custom	Comp Air - Replace 6-100 HP motor	All systems	Industrial	All	1 kWh	10	0.58	TRUE	0	0
786	C&I Custom	Comp Air - ASD (6-100 hp)	All systems	Industrial	All	1 kWh	10	12.39	TRUE	1	1
787	C&I Custom	Comp Air - Motor practices-1 (6-100 HP)	All systems	Industrial	All	1 kWh	10	2.24	TRUE	1	1
788	C&I Custom	Comp Air - Replace 100+ HP motor	All systems	Industrial	All	1 kWh	6	1.15	TRUE	1	1
789	C&I Custom	Comp Air - ASD (100+ hp)	All systems	Industrial	All	1 kWh	6	3.67	TRUE	1	1
790	C&I Custom	Comp Air - Motor practices-1 (100+ HP)	All systems	Industrial	All	1 kWh	6	2.29	TRUE	1	1
791	C&I Custom	Power recovery	All systems	Industrial	All	1 kWh	10	1.64	TRUE	1	1
792	C&I Custom	Refinery Controls	All systems	Industrial	All	1 kWh	10	3.28	TRUE	1	1
793	C&I Custom	Energy Star Transformers	All systems	Industrial	All	1 kWh	25	2.55	TRUE	1	1
794	C&I Custom	Fans - O&M	All systems	Industrial	All	1 kWh	10	9.85	TRUE	1	1
795	C&I Custom	Fans - Controls	All systems	Industrial	All	1 kWh	10	1.60	TRUE	1	1
796	C&I Custom	Fans - System Optimization	All systems	Industrial	All	1 kWh	10	1.74	TRUE	1	1
797	C&I Custom	Fans- Improve components	All systems	Industrial	All	1 kWh	10	4.93	TRUE	1	1
798	C&I Custom	Fans - Replace 1-5 HP motor	All systems	Industrial	All	1 kWh	15	0.67	TRUE	0	0
799	C&I Custom	Fans - ASD (1-5 hp)	All systems	Industrial	All	1 kWh	15	0.53	TRUE	0	0
800	C&I Custom	Fans - Motor practices-1 (1-5 HP)	All systems	Industrial	All	1 kWh	15	1.43	TRUE	1	1
801	C&I Custom	Fans - Replace 6-100 HP motor	All systems	Industrial	All	1 kWh	10	0.58	TRUE	0	0
802	C&I Custom	Fans - ASD (6-100 hp)	All systems	Industrial	All	1 kWh	10	12.39	TRUE	1	1
803	C&I Custom	Fans - Motor practices-1 (6-100 HP)	All systems	Industrial	All	1 kWh	10	2.24	TRUE	1	1
804	C&I Custom	Fans - Replace 100+ HP motor	All systems	Industrial	All	1 kWh	6	1.15	TRUE	1	1
805	C&I Custom	Fans - ASD (100+ hp)	All systems	Industrial	All	1 kWh	6	3.67	TRUE	1	1
806	C&I Custom	Fans - Motor practices-1 (100+ HP)	All systems	Industrial	All	1 kWh	6	2.29	TRUE	1	1
807	C&I Custom	Optimize drying process	All systems	Industrial	All	1 kWh	10	1.97	TRUE	1	1
808	C&I Custom	Pumps - O&M	All systems	Industrial	All	1 kWh	10	9.85	TRUE	1	1
809	C&I Custom	Pumps - Controls	All systems	Industrial	All	1 kWh	10	5.47	TRUE	1	1
810	C&I Custom	Pumps - System Optimization	All systems	Industrial	All	1 kWh	10	2.46	TRUE	1	1
811	C&I Custom	Pumps - Sizing	All systems	Industrial	All	1 kWh	10	4.93	TRUE	1	1
812	C&I Custom	Pumps - Replace 1-5 HP motor	All systems	Industrial	All	1 kWh	15	0.67	TRUE	0	0
813	C&I Custom	Pumps - ASD (1-5 hp)	All systems	Industrial	All	1 kWh	15	0.53	TRUE	0	0
814	C&I Custom	Pumps - Motor practices-1 (1-5 HP)	All systems	Industrial	All	1 kWh	15	1.43	TRUE	1	1
815	C&I Custom	Pumps - Replace 6-100 HP motor	All systems	Industrial	All	1 kWh	10	0.58	TRUE	0	0
816	C&I Custom	Pumps - ASD (6-100 hp)	All systems	Industrial	All	1 kWh	10	12.39	TRUE	1	1
817	C&I Custom	Pumps - Motor practices-1 (6-100 HP)	All systems	Industrial	All	1 kWh	10	2.24	TRUE	1	1
818	C&I Custom	Pumps - Replace 100+ HP motor	All systems	Industrial	All	1 kWh	6	1.15	TRUE	1	1
819	C&I Custom	Pumps - ASD (100+ hp)	All systems	Industrial	All	1 kWh	6	3.67	TRUE	1	1
820	C&I Custom	Pumps - Motor practices-1 (100+ HP)	All systems	Industrial	All	1 kWh	6	2.29	TRUE	1	1
821	C&I Custom	Efficient refrigeration - operations	Refrigeration	Industrial	SIC20	1 kWh	10	8.21	TRUE	1	1
822	C&I Custom	Optimization refrigeration	Refrigeration	Industrial	SIC20	1 kWh	15	1.57	TRUE	1	1
823	C&I Custom	Bakery - process	Process	Industrial	SIC20	1 kWh	15	4.87	TRUE	1	1
824	C&I Custom	Bakery - process (mixing)	Process	Industrial	SIC20	1 kWh	10	9.85	TRUE	1	1
825	C&I Custom	Clean room - controls	HVAC	Industrial	SIC28	1 kWh	10	2.24	FALSE	0	0
826	C&I Custom	Clean room - new designs	HVAC	Industrial	SIC28	1 kWh	10	1.12	FALSE	0	0
827	C&I Custom	Process controls (batch + site)	Process	Industrial	SIC28	1 kWh	10	1.64	FALSE	0	0
828	C&I Custom	O&M - extruders / injection molding	Machine Drive	Industrial	SIC30	1 kWh	12	11.27	TRUE	1	1
829	C&I Custom	Extruders / injection molding - multipump	Machine Drive	Industrial	SIC30	1 kWh	12	1.71	TRUE	1	1
830	C&I Custom	Direct drive extruders	Machine Drive	Industrial	SIC30	1 kWh	12	0.92	TRUE	1	1
831	C&I Custom	Injection molding - impulse cooling	Machine Drive	Industrial	SIC30	1 kWh	12	1.71	TRUE	1	1
832	C&I Custom	Injection molding - direct drive	Machine Drive	Industrial	SIC30	1 kWh	12	1.17	TRUE	1	1
833	C&I Custom	Efficient grinding	Machine Drive	Industrial	SIC32	1 kWh	15	0.60	TRUE	0	0
834	C&I Custom	Process controls	Process	Industrial	SIC32	1 kWh	10	4.93	TRUE	1	1
835	C&I Custom	Top-heating (glass)	Process Heating	Industrial	SIC32	1 kWh	8	4.15	TRUE	1	1
836	C&I Custom	Process controls	Process	Industrial	SIC33	1 kWh	10	12.32	TRUE	1	1
837	C&I Custom	Efficient electric melting	Process Heating	Industrial	SIC33	1 kWh	20	2.39	TRUE	1	1
838	C&I Custom	Near net shape casting	Machine Drive	Industrial	SIC33	1 kWh	15	6.58	TRUE	1	1
839	C&I Custom	Optimization process (M&T)	Process	Industrial	SIC34	1 kWh	10	6.16	TRUE	1	1
840	C&I Custom	Scheduling	Process	Industrial	SIC34	1 kWh	10	2.70	TRUE	1	1
841	C&I Custom	Efficient curing ovens	Process Heating	Industrial	SIC34	1 kWh	15	1.65	TRUE	1	1
842	C&I Custom	Machinery	Machine Drive	Industrial	SIC34	1 kWh	10	2.74	TRUE	1	1
843	C&I Custom	Optimization process (M&T)	Process	Industrial	SIC35	1 kWh	10	6.16	TRUE	1	1
844	C&I Custom	Scheduling	Process	Industrial	SIC35	1 kWh	10	2.70	TRUE	1	1
845	C&I Custom	Efficient curing ovens	Process Heating	Industrial	SIC35	1 kWh	15	1.65	TRUE	1	1
846	C&I Custom	Machinery	Machine Drive	Industrial	SIC35	1 kWh	10	2.74	TRUE	1	1
847	C&I Custom	Optimization process (M&T)	Process	Industrial	SIC37	1 kWh	10	6.16	TRUE	1	1

Measure	ID	Program	Efficient Technology	HVAC System and/or End-use	Sector	Sub Sector	Unit	Definitive Measure	Lif	TRC	Force In?	Include?
	848	C&I Custom	Scheduling	Process	Industrial	SIC37	1 kWh	10	2.70		TRUE	1
	849	C&I Custom	Efficient curing ovens	Process Heating	Industrial	SIC37	1 kWh	15	1.65		TRUE	1
	850	C&I Custom	Machinery	Machine Drive	Industrial	SIC37	1 kWh	10	4.22		TRUE	1
	851	C&I Custom	Scheduling	Process	Industrial	SIC36	1 kWh	10	2.46		TRUE	1
	852	C&I Custom	Efficient curing ovens	Process Heating	Industrial	SIC36	1 kWh	15	1.65		TRUE	1
	853	C&I Custom	Machinery	Machine Drive	Industrial	SIC36	1 kWh	10	1.37		TRUE	1
	854	C&I Custom	Efficient processes (welding, etc.)	Process	Industrial	SIC36	1 kWh	15	3.29		TRUE	1
	855	C&I Custom	Scheduling	Process	Industrial	SIC39/21/311	kWh	10	2.46		FALSE	0
	856	C&I Custom	Efficient machinery	Machine Drive	Industrial	SIC39/21/311	kWh	10	2.74		FALSE	0
	857	C&I Custom	Process controls	Process	Industrial	SIC39/21/311	kWh	15	1.65		FALSE	0
	858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	Residential	Detached	1 building	10	2.59		TRUE	1
	859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	Residential	Detached	1 building	10	0.81		TRUE	0
	860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	Residential	Detached	1 building	10	1.07		FALSE	0
	861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart	All systems	Residential	Detached	1 building	10	1.84		TRUE	1
	862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	Commercial	All	1 building	10	1.10		FALSE	0
	863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart	All systems	Commercial	All	1 building	10	2.14		TRUE	1
	864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	Industrial	All	1 building	1	1.67		TRUE	1
	865	Commercial Demand Credit	Commercial Demand Credit	All systems	Commercial	All	1 building	1	5.84		TRUE	1
		Education Program			Other	All			1.00		TRUE	1
		Information Program			Other	All			1.00		TRUE	1
		Portfolio Administration			Other	All			1.00		TRUE	1
		Evaluation, Measurement, and Verification			Other	All			1.00		TRUE	1

2: Installations

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	1,351	1,781	2,292	2,863	2,929	2,997	3,066	3,136	3,208
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	253	334	430	537	549	562	575	588	602
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	143	189	243	304	311	318	325	333	340
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	1,004	1,324	1,703	2,128	2,177	2,227	2,279	2,331	2,385
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	653	861	1,108	1,384	1,416	1,449	1,482	1,516	1,551
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	125	164	211	264	270	276	283	289	296
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	104	137	176	220	225	231	236	241	247
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	0	713	940	1,209	1,511	1,546	1,581	1,618	1,655	1,693
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	0	210	277	356	445	455	465	476	487	498
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	0	108	142	183	229	234	239	245	250	256
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	0	1,460	1,926	2,477	3,095	3,166	3,239	3,314	3,390	3,468
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	0	274	361	464	580	594	607	621	635	650
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	0	155	204	263	328	336	343	351	359	368
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	1,218	1,607	2,067	2,583	2,642	2,703	2,765	2,829	2,894
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	1,522	2,007	2,581	3,226	3,300	3,376	3,454	3,533	3,614
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	285	376	484	605	619	633	648	663	678
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	161	213	274	342	350	358	366	375	383
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	825	1,089	1,400	1,750	1,790	0	0	0	0
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	155	204	263	328	336	0	0	0	0
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	90	119	153	191	196	0	0	0	0
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	1,258	1,660	2,135	2,668	2,729	0	0	0	0
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	139	188	250	325	410	419	429	439	449	459
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	30	41	54	70	89	91	93	95	97	99
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	17	22	30	39	49	50	51	52	53	55
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	111	150	199	259	327	334	342	350	358	366
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	30	41	54	70	89	91	93	95	97	99
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	14	19	26	34	42	43	44	45	46	47
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	105	142	188	244	309	316	323	330	338	346
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	26	36	47	62	78	80	81	83	85	87
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	12	16	22	28	36	37	37	38	39	40
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	96	126	162	203	245	251	257	263	269	275
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	933	1,264	1,680	2,181	2,754	2,817	2,882	2,948	3,016	3,085
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	192	260	345	448	566	579	592	606	620	634
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	108	147	195	253	320	327	335	343	350	359
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	563	742	955	1,193	1,444	1,478	1,512	1,546	1,582	1,618
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	311	311	311	311	311	311	311	311	311	311
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	57	57	57	57	57	57	57	57	57	57
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	33	33	33	33	33	33	33	33	33	33
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	372,323	481,500	605,340	737,717	870,532	890,555	911,037	931,991	953,427	975,356

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	69,841	90,320	113,550	138,381	163,295	167,051	170,893	174,824	178,845	182,958
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	39,496	51,078	64,215	78,257	92,346	94,470	96,643	98,866	101,140	103,466
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	282,880	365,829	459,919	560,494	661,404	676,616	692,178	708,098	724,384	741,045
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	2,716	3,513	4,416	5,382	6,351	6,497	6,646	6,799	6,956	7,116
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	375	486	610	744	878	898	919	940	961	984
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	267	345	434	528	624	638	653	668	683	699
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	2,067	2,674	3,361	4,096	4,834	4,945	5,059	5,175	5,294	5,416
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	779	779	779	779	779	779	779	779	779	779
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	146	146	146	146	146	146	146	146	146	146
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	83	83	83	83	83	83	83	83	83	83
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	2,994	4,057	5,393	7,002	8,842	9,045	9,253	9,466	9,683	9,906
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	562	761	1,012	1,313	1,659	1,697	1,736	1,776	1,816	1,858
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	318	430	572	743	938	959	982	1,004	1,027	1,051
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	2,070	2,805	3,729	4,841	6,112	6,253	6,397	6,544	6,694	6,848
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	2,635	3,571	4,746	6,162	7,781	7,960	8,143	8,330	8,521	8,717
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	460	623	828	1,076	1,358	1,389	1,421	1,454	1,487	1,522
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	260	352	469	608	768	786	804	822	841	861
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	145	196	261	339	428	438	448	458	468	479
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	1,447	1,961	2,606	3,384	4,273	4,371	4,471	4,574	4,680	4,787
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	304	412	548	712	899	919	940	962	984	1,007
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	163	221	294	382	482	493	505	516	528	540
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	1,365	1,850	2,459	3,192	4,031	4,123	4,218	4,315	4,414	4,516
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	1,916	2,597	3,452	4,481	5,659	5,789	5,922	6,058	6,197	6,340
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	327	443	589	765	988	988	1,011	1,034	1,058	1,082
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	185	251	333	433	546	559	572	585	598	612
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	1,456	1,973	2,623	3,405	4,299	4,398	4,499	4,603	4,709	4,817
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	773	773	773	773	773	773	773	773	773	773
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	145	145	145	145	145	145	145	145	145	145
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	83	83	83	83	83	83	83	83	83	83
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	123	166	221	287	362	370	379	387	396	405
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	30	41	54	70	89	91	93	95	97	99
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	14	19	26	34	42	43	44	45	46	47
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	76	103	137	177	224	229	234	240	245	251
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	28	38	51	66	84	86	88	90	92	94
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	11	15	20	26	33	34	35	35	36	37
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	213	276	347	423	499	510	522	534	546	559
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	40	51	64	79	93	95	97	99	102	104
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	30	39	49	60	71	73	74	76	78	80
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	284	367	461	562	663	678	694	710	726	743
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	33	43	54	66	78	80	82	84	86	88
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	42	54	68	82	97	99	102	104	106	109
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	1,137	1,470	1,848	2,253	2,658	2,719	2,782	2,846	2,911	2,978
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	213	276	347	423	499	510	522	534	546	559
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	121	156	196	239	282	288	295	302	309	316
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	864	1,117	1,404	1,712	2,020	2,066	2,114	2,162	2,212	2,263
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	2,316	2,995	3,765	4,588	5,414	5,539	5,666	5,796	5,930	6,066
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	434	562	706	861	1,016	1,039	1,063	1,087	1,112	1,138
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	246	318	399	487	574	588	601	615	629	643
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	1,538	1,989	2,500	3,047	3,595	3,678	3,763	3,849	3,938	4,028
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	293	387	497	621	752	770	0	0	0	0
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	22	29	37	46	56	57	0	0	0	0
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	867	867	867	867	867	867	867	867	867	867
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	768	768	768	768	768	768	768	768	768	768
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	8,049	8,049	8,049	8,049	8,049	8,049	8,049	8,049	8,049	8,049
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	13,108	16,860	21,068	25,510	26,097	26,697	27,311	27,940	28,582
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	13,108	16,860	21,068	25,510	26,097	26,697	27,311	27,940	28,582
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	13,108	16,860	21,068	25,510	26,097	26,697	27,311	27,940	28,582
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	13,108	16,860	21,068	25,510	26,097	26,697	27,311	27,940	28,582
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,304	1,720	2,212	2,764	3,347	3,424	3,503	3,583	3,666	3,750
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,542	2,034	2,617	3,270	3,959	4,050	4,143	4,239	4,336	4,436
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,620	2,137	2,749	3,435	4,159	4,254	4,352	4,452	4,555	4,660
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,656	2,185	2,810	3,511	4,252	4,350	4,450	4,552	4,657	4,764
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	791	1,043	1,342	1,677	2,030	2,077	2,125	2,173	2,223	2,275
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	946	1,247	1,604	2,005	2,428	2,483	2,541	2,599	2,659	2,720
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	387	510	656	820	993	1,016	1,039	1,063	1,088	1,113
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	69	91	117	146	177	181	185	189	193	198
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	701	924	1,189	1,485	1,799	1,840	1,882	1,926	1,970	2,015
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	372	491	631	789	955	977	1,000	1,023	1,046	1,070
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	18	23	30	37	45	46	47	48	49	50
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	13	17	22	26	27	27	28	29	29
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	16	21	27	34	41	42	43	44	45	46
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	13	17	21	26	26	27	28	28	29
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	7	9	12	15	18	19	19	20	20	20
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	5	7	9	12	14	14	15	15	15	16
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	6	7	10	12	15	15	15	16	16	16
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	5	6	8	10	13	13	13	13	14	14
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	5	7	8	10	13	13	13	14	14	14
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	76	98	124	151	178	182	186	190	195	199
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	431	557	700	854	1,007	1,030	1,054	1,078	1,103	1,128
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	73	95	119	145	171	175	179	184	188	192
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	466	603	758	923	1,089	1,115	1,140	1,166	1,193	1,221
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	112	145	182	222	262	268	274	280	287	293
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	412	442	475	509	546	559	572	585	598	612
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,283	1,379	1,480	1,588	1,703	1,742	1,782	1,823	1,865	1,908
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	239	256	275	295	317	324	332	339	347	355
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,243	1,335	1,433	1,538	1,649	1,687	1,726	1,765	1,806	1,848
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	808	868	932	1,000	1,072	1,097	1,122	1,148	1,174	1,201
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	721	774	832	892	957	979	1,001	1,024	1,048	1,072
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	330	355	381	409	438	448	458	469	480	491
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	540	581	623	669	717	734	751	768	786	804
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,291	1,387	1,489	1,598	1,714	1,753	1,793	1,835	1,877	1,920
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	351	377	405	434	465	476	487	498	510	522
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,332	1,431	1,537	1,649	1,768	1,808	1,850	1,893	1,936	1,981
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	873	938	1,007	1,080	1,158	1,185	1,212	1,240	1,269	1,298
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	308	331	356	382	409	419	428	438	448	458
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	26	28	30	32	34	35	36	36	37	38
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	109	117	125	134	144	148	151	154	158	162
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	5	5	5	6	6	6	6	7	7	7
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	61	65	70	75	81	83	84	86	88	90
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	141	151	163	174	187	191	196	200	205	210
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	20	22	23	25	27	27	28	29	29	30
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	114	122	131	141	151	155	158	162	166	169
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	31	33	36	39	41	42	43	44	45	46
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2	2	2	2	3	3	3	3	3	3
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	80	86	92	99	106	109	111	114	116	119
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	260	279	300	322	345	353	361	370	378	387
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	293	379	476	581	685	701	717	733	750	768
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	161	208	262	319	376	385	394	403	412	422
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	144	187	235	286	338	345	353	362	370	378
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	642	830	1,043	1,271	1,500	1,535	1,570	1,606	1,643	1,681
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	221	285	359	437	516	528	540	553	565	578
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	621	803	1,010	1,231	1,453	1,486	1,520	1,555	1,591	1,628
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	399	516	649	791	934	955	977	999	1,022	1,046

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	134	173	218	265	313	320	327	335	343	350
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	2	3	3	3	3	3	3	3	3	4
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	2	3	3	3	3	3	3	3	3	4
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	0	0	0	0	0	0	0	0	1	1
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	10	11	12	13	14	14	14	15	15	15
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2	3	3	3	3	3	3	3	3	4
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1	2	2	2	2	2	2	2	2	2
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4	4	4	5	5	5	5	5	5	6
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2	3	3	3	3	3	3	3	3	4
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	0	0	0	0	0	0	0	0	1	1
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	10	11	12	13	14	14	14	15	15	15
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	13	14	15	16	17	17	18	18	19	19
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4	5	5	5	6	6	6	6	6	6
323	C&I Prescriptive	VAV	Chiller & Boiler	354	458	576	702	828	848	867	887	907	928
324	C&I Prescriptive	VAV	Chiller & Boiler	364	470	591	721	850	870	890	911	931	953
325	C&I Prescriptive	VAV	Chiller & Boiler	131	170	213	260	307	314	321	329	336	344
326	C&I Prescriptive	VAV	Chiller & Boiler	593	767	964	1,175	1,387	1,419	1,451	1,485	1,519	1,554
327	C&I Prescriptive	VAV	Chiller & Boiler	529	684	860	1,048	1,236	1,265	1,294	1,323	1,354	1,385
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	354	458	576	702	828	848	867	887	907	928
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	131	170	213	260	307	314	321	329	336	344
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	56	72	91	111	131	134	137	140	143	147
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	415	537	675	822	970	993	1,016	1,039	1,063	1,087
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	629	813	1,022	1,246	1,470	1,504	1,538	1,574	1,610	1,647
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	451	583	733	894	1,055	1,079	1,104	1,129	1,155	1,182
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	417	539	678	826	975	997	1,020	1,044	1,068	1,092
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2	3	4	5	6	6	6	6	6	7
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	285	368	463	564	666	681	697	713	729	746
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	76	98	124	151	178	182	186	190	195	199
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	413	534	671	818	965	987	1,010	1,033	1,057	1,082
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	302	391	491	598	706	722	739	756	773	791
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	655	847	1,065	1,298	1,532	1,567	1,603	1,640	1,678	1,717
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	285	368	463	564	666	681	697	713	729	746
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	71	92	116	141	167	171	175	179	183	187
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	413	534	671	818	965	987	1,010	1,033	1,057	1,082
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	529	696	876	1,067	1,259	1,288	1,318	1,348	1,379	1,411
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	13	13	13	13	13	13	13	13	13	13
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	771	997	1,254	1,528	1,803	1,845	1,887	1,930	1,975	2,020
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	906	1,172	1,473	1,795	2,119	2,167	2,217	2,268	2,320	2,374
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	936	1,211	1,522	1,855	2,189	2,240	2,291	2,344	2,398	2,453
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,006	1,301	1,636	1,994	2,353	2,407	2,462	2,519	2,577	2,636
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	56	73	91	111	131	134	137	140	144	147
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	110	143	180	219	258	264	270	276	283	289
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	135	174	219	267	315	322	330	337	345	353
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	163	211	266	324	382	391	400	409	419	428
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	74	96	121	147	174	178	182	186	190	195
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	80	103	130	159	187	191	196	200	205	210
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	81	105	132	161	190	194	199	203	208	213
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	84	109	137	166	196	201	206	210	215	220
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	5	6	7	8	8	9	9	9	9
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	5	6	8	9	10	10	10	10	10
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	5	6	8	9	10	10	10	10	10
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	5	6	8	9	10	10	10	10	10
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	394	510	641	781	921	942	964	986	1,009	1,032
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	431	557	700	853	1,007	1,030	1,054	1,078	1,103	1,128
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	438	567	713	869	1,025	1,049	1,073	1,098	1,123	1,149
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	456	590	742	904	1,067	1,091	1,116	1,142	1,168	1,195
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	33	43	54	66	78	80	81	83	85	87
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	57	72	88	104	106	108	111	113	116
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	57	72	88	104	106	108	111	113	116
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	57	72	88	104	106	108	111	113	116
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,338	1,730	2,175	2,651	3,128	3,200	3,274	3,349	3,426	3,505
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,403	1,815	2,282	2,780	3,281	3,357	3,434	3,513	3,594	3,676
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,417	1,832	2,304	2,808	3,313	3,389	3,467	3,547	3,628	3,712
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,448	1,872	2,353	2,868	3,385	3,462	3,542	3,623	3,707	3,792
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	85	107	131	154	158	161	165	169	173
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	85	107	131	154	158	161	165	169	173
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	85	107	131	154	158	161	165	169	173
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	71	92	115	140	166	170	173	177	182	186
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,358	3,049	3,834	4,672	5,513	5,640	5,770	5,903	6,038	6,177
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,528	3,269	4,110	5,009	5,910	6,046	6,185	6,328	6,473	6,622
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,564	3,316	4,168	5,080	5,994	6,132	6,273	6,418	6,565	6,716
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,645	3,420	4,300	5,240	6,184	6,326	6,472	6,620	6,773	6,928
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	115	149	188	229	270	276	282	289	296	302
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	125	161	203	247	291	298	305	312	319	326
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	125	161	203	247	291	298	305	312	319	326
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	125	161	203	247	291	298	305	312	319	326

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	312	403	507	618	729	746	763	781	799	817
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	364	470	591	721	850	870	890	910	931	953
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	375	485	610	743	877	897	918	939	961	983
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	402	520	653	796	940	961	983	1,006	1,029	1,053
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	24	31	39	48	56	58	59	60	62	63
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	46	59	75	91	107	110	112	115	117	120
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	55	72	90	110	130	133	136	139	142	145
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	65	84	105	128	151	155	158	162	166	170
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	367	475	597	728	859	879	899	919	941	962
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	435	562	707	862	1,017	1,040	1,064	1,089	1,114	1,139
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	450	582	732	892	1,052	1,076	1,101	1,126	1,152	1,179
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	485	628	789	962	1,135	1,161	1,187	1,215	1,243	1,271
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	25	33	41	50	59	60	62	63	65	66
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	51	66	83	102	120	123	125	128	131	134
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	63	82	103	125	148	151	154	158	162	165
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	77	100	126	153	181	185	189	193	198	202
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	845	1,093	1,374	1,675	1,976	2,022	2,068	2,116	2,164	2,214
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	941	1,217	1,530	1,865	2,201	2,251	2,303	2,356	2,410	2,466
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	962	1,244	1,564	1,906	2,249	2,301	2,354	2,408	2,463	2,520
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,009	1,305	1,641	2,000	2,360	2,415	2,470	2,527	2,585	2,644
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	62	80	100	122	144	148	151	155	158	162
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	97	126	158	192	227	232	238	243	249	254
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	101	131	164	200	236	241	247	253	258	264
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	101	131	164	200	236	241	247	253	258	264
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	563	728	915	1,115	1,316	1,346	1,377	1,409	1,441	1,474
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	665	860	1,082	1,318	1,556	1,591	1,628	1,666	1,704	1,743
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	688	890	1,119	1,364	1,609	1,646	1,684	1,723	1,763	1,803
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	742	959	1,206	1,470	1,735	1,774	1,815	1,857	1,900	1,943
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	39	51	64	77	91	94	96	98	100	102
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	79	102	128	156	185	189	193	198	202	207
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	97	125	158	192	227	232	237	243	248	254
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	119	153	193	235	277	284	290	297	304	311
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,167	5,389	6,775	8,256	9,743	9,967	10,196	10,430	10,670	10,916
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,601	5,950	7,480	9,116	10,757	11,005	11,258	11,517	11,782	12,053
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,694	6,071	7,632	9,301	10,976	11,228	11,486	11,750	12,021	12,297
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,907	6,346	7,978	9,723	11,473	11,737	12,007	12,283	12,565	12,854
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	325	421	529	645	761	778	796	815	833	852
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	484	626	787	959	1,132	1,158	1,184	1,212	1,239	1,268
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	484	626	787	959	1,132	1,158	1,184	1,212	1,239	1,268
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	484	626	787	959	1,132	1,158	1,184	1,212	1,239	1,268
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	833	1,077	1,355	1,651	1,948	1,993	2,039	2,085	2,133	2,182
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,713	2,216	2,786	3,395	4,006	4,098	4,193	4,289	4,388	4,489
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	751	971	1,221	1,487	1,755	1,796	1,837	1,879	1,922	1,967
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	48	61	77	94	111	114	116	119	122	124
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,006	1,301	1,635	1,993	2,352	2,406	2,461	2,518	2,576	2,635
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,243	1,607	2,020	2,462	2,906	2,972	3,041	3,111	3,182	3,256
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	14	19	24	29	34	35	35	36	37	38
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	26	34	43	52	62	63	65	66	68	69
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	19	24	31	37	44	45	46	47	48	49
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	42	55	69	84	99	101	103	106	108	111
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	9	12	15	18	21	21	22	22	23	23
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	5	6	7	8	8	9	9	9	9
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	156	201	253	309	364	373	381	390	399	408
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	217	280	352	429	507	518	530	543	555	568
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	87	112	141	172	203	207	212	217	222	227
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	12	16	20	24	28	29	29	30	31	31
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	151	195	245	299	353	361	369	377	386	395
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	77	99	124	152	179	183	187	192	196	201
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	123	159	200	243	287	294	300	307	314	322
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	99	128	161	197	232	237	243	248	254	260
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	123	159	200	244	287	294	301	308	315	322
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	93	121	152	185	218	223	228	233	239	244
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	7	10	12	15	17	18	18	18	19	19
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	5	6	8	9	11	11	12	12	12	12
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	220	285	358	436	515	526	538	551	564	577
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	316	409	514	626	739	756	774	791	810	828
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	132	171	215	262	310	317	324	331	339	347
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	17	21	27	33	39	40	41	42	43	43
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	217	280	352	429	506	518	530	542	554	567
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	112	145	182	221	261	267	273	280	286	293
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	20	25	32	39	46	47	48	49	50	51
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	17	22	27	33	39	40	41	42	43	44
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	20	26	33	40	47	48	49	50	51	52
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	17	22	27	34	40	40	41	42	43	44
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	2	2	3	3	4	4	4	4	4	4
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	1	2	2	2	3	3	3	3	3
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	3,703	4,789	6,021	7,337	8,658	8,858	9,061	9,270	9,483	9,701
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,703	4,789	6,021	7,337	8,658	8,858	9,061	9,270	9,483	9,701
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,481	1,916	2,408	2,935	3,463	3,543	3,625	3,708	3,793	3,880
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	325	420	528	643	759	776	794	813	831	850
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,963	3,831	4,817	5,870	6,927	7,086	7,249	7,416	7,586	7,761
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,637	2,117	2,661	3,243	3,827	3,915	4,005	4,097	4,192	4,288
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	35	46	57	70	83	85	86	88	91	93
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	19	24	30	37	44	45	46	47	48	49
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	33	42	53	65	76	78	80	82	84	85
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	16	20	25	31	36	37	38	39	40	41
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	7	10	12	15	17	18	18	18	19	19
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	6	7	9	11	13	13	14	14	14	15
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	933	1,207	1,518	1,849	2,182	2,233	2,284	2,336	2,390	2,445
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	933	1,207	1,518	1,849	2,182	2,233	2,284	2,336	2,390	2,445
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	373	483	607	740	873	893	914	935	956	978
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	80	103	129	158	186	190	195	199	204	208
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	747	966	1,214	1,480	1,746	1,786	1,827	1,869	1,912	1,956
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	407	526	662	806	951	973	996	1,018	1,042	1,066
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	30	39	49	60	71	72	74	76	78	79
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	17	21	27	33	39	40	41	41	42	43
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	28	36	46	56	66	67	69	70	72	74
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	14	18	22	27	32	33	34	35	35	36
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	8	10	12	15	18	18	19	19	20	20
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	6	7	9	11	13	14	14	14	15	15
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,078	1,394	1,752	2,136	2,520	2,578	2,637	2,698	2,760	2,824
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,105	2,723	3,423	4,171	4,922	5,036	5,151	5,270	5,391	5,515
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	916	1,185	1,490	1,816	2,143	2,192	2,242	2,294	2,347	2,401
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	64	83	104	127	150	153	157	160	164	168
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,264	1,634	2,054	2,504	2,954	3,022	3,092	3,163	3,236	3,310
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,376	1,779	2,237	2,726	3,217	3,291	3,367	3,444	3,523	3,604
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	16	21	27	33	39	39	40	41	42	43
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	27	35	44	53	63	64	66	67	69	71
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	21	27	34	41	48	49	51	52	53	54
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	41	53	67	82	96	98	101	103	105	108
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	6	8	10	12	14	14	15	15	16	16
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	3	4	5	6	6	6	6	6	7
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	873	1,129	1,420	1,730	2,042	2,089	2,137	2,186	2,236	2,288
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,706	2,206	2,774	3,380	3,989	4,080	4,174	4,270	4,369	4,469
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	743	960	1,207	1,471	1,776	1,776	1,817	1,859	1,902	1,945
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	52	67	84	103	121	124	127	130	133	136
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,024	1,324	1,665	2,029	2,394	2,449	2,505	2,563	2,622	2,682
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,115	1,442	1,813	2,209	2,607	2,667	2,728	2,791	2,855	2,921
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	30	39	48	59	70	71	73	75	76	78
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	49	63	79	97	114	117	119	122	125	128
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	37	48	61	74	87	89	91	94	96	98
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	74	96	121	147	174	178	182	186	190	195
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	3	4	5	6	7	7	7	8	8	8
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	2	2	2	3	3	3	3	3	3
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	984	1,272	1,599	1,949	2,300	2,353	2,407	2,462	2,519	2,577
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,575	2,037	2,560	3,120	3,682	3,767	3,853	3,942	4,033	4,125
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	668	865	1,087	1,325	1,563	1,599	1,636	1,673	1,712	1,751
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	68	88	111	135	159	163	167	171	175	179
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,029	1,331	1,674	2,040	2,407	2,462	2,519	2,577	2,636	2,697
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	689	891	1,120	1,365	1,611	1,648	1,686	1,724	1,764	1,805
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	236	305	384	468	552	565	578	591	605	619
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	254	329	413	504	594	608	622	636	651	666

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	259	335	421	513	606	620	634	649	664	679
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	324	419	527	642	758	775	793	811	830	849
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	21	27	34	42	49	50	52	53	54	55
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	11	15	19	23	27	27	28	29	29	30
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	285	368	463	564	666	681	697	713	729	746
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	602	778	979	1,193	1,407	1,440	1,473	1,507	1,541	1,577
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	265	342	430	524	619	633	648	662	678	693
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	16	21	26	32	37	38	39	40	41	42
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	349	452	568	692	817	835	855	874	894	915
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	461	596	750	914	1,078	1,103	1,128	1,154	1,181	1,208
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	80	103	129	158	186	190	195	199	204	209
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	154	199	250	305	359	368	376	385	394	403
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	105	136	171	209	246	252	258	264	270	276
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	252	326	409	499	589	602	616	630	645	660
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	47	61	76	93	109	112	114	117	120	123
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	18	23	29	35	41	42	43	44	45	46
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	4,530	5,858	7,365	8,976	10,591	10,835	11,084	11,339	11,600	11,867
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	6,765	8,749	10,999	13,404	15,818	16,181	16,554	16,934	17,324	17,722
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	2,847	3,681	4,628	5,640	6,656	6,809	6,965	7,126	7,289	7,457
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	332	429	539	657	775	793	811	830	849	868
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	4,556	5,892	7,407	9,027	10,653	10,898	11,148	11,405	11,667	11,935
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	2,571	3,325	4,181	5,095	6,012	6,150	6,292	6,437	6,585	6,736
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	491	635	799	973	1,148	1,175	1,202	1,230	1,258	1,287
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	457	591	743	905	1,068	1,093	1,118	1,143	1,170	1,197
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	514	665	836	1,019	1,203	1,230	1,259	1,288	1,317	1,348
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	503	651	819	998	1,177	1,204	1,232	1,260	1,289	1,319
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	93	121	152	185	218	223	228	234	239	245
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	55	71	90	109	129	132	135	138	141	145
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	37	48	61	74	88	90	92	94	96	98
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	38	50	62	76	90	92	94	96	98	101
580	C&I Prescriptive	180W LPS	Lighting - exterior	38	50	62	76	90	92	94	96	98	101
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	12	16	20	24	28	29	30	30	31	32
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	31	40	50	61	72	73	75	77	79	80
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	25	33	41	50	59	61	62	63	65	66
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	38	50	62	76	90	92	94	96	98	101
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	38	50	62	76	90	92	94	96	98	101
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	30	39	49	60	71	72	74	76	78	79
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	31	40	51	62	73	74	76	78	80	82
588	C&I Prescriptive	Premium Efficiency Motor	Motors	7	9	11	13	15	16	16	17	17	17
589	C&I Prescriptive	Premium Efficiency Motor	Motors	12	15	19	24	28	28	29	30	30	31
590	C&I Prescriptive	Premium Efficiency Motor	Motors	8	11	13	16	19	20	20	21	21	22
591	C&I Prescriptive	Premium Efficiency Motor	Motors	9	12	15	18	21	22	22	23	23	24
592	C&I Prescriptive	Premium Efficiency Motor	Motors	9	12	15	18	21	22	22	23	23	24
593	C&I Prescriptive	Premium Efficiency Motor	Motors	8	11	13	16	19	19	20	20	21	21
594	C&I Prescriptive	Premium Efficiency Motor	Motors	6	8	10	12	14	14	14	15	15	16
595	C&I Prescriptive	Premium Efficiency Motor	Motors	4	6	7	9	10	10	11	11	11	11
596	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	4	5	5	5	6	6	6
597	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	2	2	2	2	2	2
598	C&I Prescriptive	Premium Efficiency Motor	Motors	3	4	5	6	7	7	7	7	8	8
599	C&I Prescriptive	Premium Efficiency Motor	Motors	8	11	13	16	19	20	20	21	21	22
600	C&I Prescriptive	Premium Efficiency Motor	Motors	7	9	11	13	15	16	16	17	17	17
601	C&I Prescriptive	Premium Efficiency Motor	Motors	5	7	9	10	12	13	13	13	13	14
602	C&I Prescriptive	Premium Efficiency Motor	Motors	6	8	10	13	15	15	16	16	16	17
603	C&I Prescriptive	Premium Efficiency Motor	Motors	4	6	7	9	10	10	11	11	11	11
604	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	3	4	5	5	5	5	5	5
605	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	2	2	2	2	2	2	2
606	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
607	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	1	1	1	1	1	1	1
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use =	: Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	3	4	5	6	8	8	8	8	8	9
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	2	3	4	5	6	6	6	6	6	7
614	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
617	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	251	269	289	310	333	341	348	356	365	373
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	44	47	50	54	58	59	61	62	63	65
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	50	54	58	62	66	68	69	71	72	74
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	30	32	35	37	40	41	42	43	44	45
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	22	24	26	27	29	30	31	31	32	33
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	30	33	35	37	40	41	42	43	44	45
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	35	38	40	43	47	48	49	50	51	52
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	45	48	52	55	59	61	62	64	65	67
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	11	11	12	13	14	14	15	15	15	16
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	10	11	12	13	14	14	15	15	15	16
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	78	101	127	155	183	187	191	196	200	205
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	32	35	37	40	43	44	45	46	47	48
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	74	95	120	146	173	176	181	185	189	193
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	33	43	54	66	78	80	82	84	85	87
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	41	53	67	81	96	98	100	103	105	108
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	40	52	65	79	93	95	97	100	102	104
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	8	10	13	15	18	18	19	19	20	20
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	6	7	9	11	13	14	14	14	15	15
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	105	136	170	208	245	251	257	262	268	275
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	126	135	145	155	167	170	174	178	182	187
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	400	430	461	495	531	543	555	568	581	595
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	29	38	48	58	69	70	72	73	75	77
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	488	524	562	603	647	662	677	693	709	725
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	411	442	474	509	546	558	571	584	598	612
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	556	719	904	1,102	1,300	1,330	1,361	1,392	1,424	1,457
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	149	193	243	296	349	357	365	374	382	391
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,007	1,302	1,637	1,995	2,354	2,408	2,464	2,520	2,578	2,638
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,180	1,526	1,918	2,338	2,759	2,822	2,887	2,953	3,021	3,091
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,238	1,601	2,012	2,452	2,894	2,960	3,028	3,098	3,169	3,242
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,375	1,779	2,236	2,725	3,216	3,290	3,365	3,443	3,522	3,603
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	38	50	62	76	90	92	94	96	98	100
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	103	133	168	204	241	247	253	258	264	270
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	138	178	224	273	323	330	338	345	353	361
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	183	237	298	363	428	438	448	458	469	479
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	233	302	379	462	545	558	571	584	597	611
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	669	866	1,088	1,326	1,565	1,601	1,638	1,675	1,714	1,753
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	306	396	497	606	715	732	748	766	783	801
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	10	13	17	20	24	25	25	26	26	27
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	341	440	554	675	796	815	833	853	872	892
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	951	1,230	1,546	1,884	2,223	2,274	2,327	2,380	2,435	2,491
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	42	54	68	82	97	99	102	104	106	109
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	153	197	248	302	357	365	373	382	391	400
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	67	87	110	134	158	161	165	169	173	177
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	330	426	536	653	771	788	807	825	844	863
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	37	47	60	73	86	88	90	92	94	96
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	9	12	15	18	22	22	23	23	24	24
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	2	3	4	4	5	5	6	6	6	6
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	3	4	5	6	7	7	7	8	8	8
690	C&I Prescriptive	180W LPS	Lighting - exterior	4	5	6	7	8	9	9	9	9	9
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	1	1	1	1	1	1	1	1	1	1
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	3	4	5	6	7	7	7	7	7	7
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	2	2	3	3	4	4	4	4	4	4

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	3	4	5	6	7	8	8	8	8	8
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	4	5	6	8	9	9	9	10	10	10
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	2	3	3	4	5	5	5	5	5	5
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	2	3	3	4	5	5	5	5	5	6
698	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	3	3	3	4	4	4	4
699	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	3	4	5	5	5	5	5	5
700	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	3	4	4	4	4	4	4
701	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	3	4	4	4	4	4	5
702	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	3	3	3	3	4	4	4
703	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	3	3	3	4	4	4	4
704	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	2	3	3	3	3	3	3
705	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	2	2	2	2	2	2	3
706	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
707	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	1	1	1	1	1
708	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	2	2	2	2	2	2	2
709	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	3	4	4	4	4	4	4
710	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	3	3	4	4	4	4	4
711	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	2	3	3	3	3	3	3
712	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	2	2	2	2	3	3	3
713	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	2	2	2	2	2	2	2
714	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	1	1	1	1	1	1	1
715	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	1	1	1	1	1	1	1
716	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	0	0	0	0	0	0
717	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	0	0	0	0	0	0
718	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	5	5	6	6	6	6	6
719	C&I Prescriptive	Premium Efficiency Motor	Motors	3	4	5	6	7	7	7	8	8	8
720	C&I Prescriptive	Premium Efficiency Motor	Motors	3	4	5	6	7	7	7	7	7	7
721	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	4	5	6	6	6	7	7	7
722	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	5	6	6	6	6	6	6
723	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	4	5	5	5	5	6	6
724	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	3	4	4	4	4	4	4
725	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	3	4	4	4	4	4	4
726	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	2	2	2	2	2	2	2
727	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	2	2	2
728	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	3	3	3	3	3	3	3
729	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	4	5	6	6	7	7	7	7
730	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	4	5	6	6	6	7	7	7
731	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	4	5	5	5	6	6	6
732	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	4	4	5	5	5	5	5
733	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	2	3	3	3	3	3	3	4
734	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	2	2	2	2	2	2
735	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	1	1	1	1	1	1	1
736	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	1	1	1	1	1
737	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	1	1	1	1	1
738	C&I Prescriptive	Premium Efficiency Motor	Motors	10	13	16	20	24	24	25	25	26	27
739	C&I Prescriptive	Premium Efficiency Motor	Motors	12	16	20	24	29	29	30	31	32	32
740	C&I Prescriptive	Premium Efficiency Motor	Motors	11	14	18	21	25	26	26	27	28	28
741	C&I Prescriptive	Premium Efficiency Motor	Motors	11	14	17	21	25	25	26	26	27	28
742	C&I Prescriptive	Premium Efficiency Motor	Motors	9	12	15	18	21	21	22	22	23	23
743	C&I Prescriptive	Premium Efficiency Motor	Motors	9	11	14	17	21	21	22	22	23	23
744	C&I Prescriptive	Premium Efficiency Motor	Motors	7	9	11	14	16	16	17	17	17	18
745	C&I Prescriptive	Premium Efficiency Motor	Motors	7	9	11	14	16	16	17	17	17	18
746	C&I Prescriptive	Premium Efficiency Motor	Motors	5	6	8	9	11	11	12	12	12	12
747	C&I Prescriptive	Premium Efficiency Motor	Motors	3	4	5	7	8	8	8	8	8	9
748	C&I Prescriptive	Premium Efficiency Motor	Motors	6	8	10	12	14	14	14	15	15	15
749	C&I Prescriptive	Premium Efficiency Motor	Motors	12	15	19	23	27	28	28	29	29	30
750	C&I Prescriptive	Premium Efficiency Motor	Motors	9	12	15	18	21	22	22	23	23	24
751	C&I Prescriptive	Premium Efficiency Motor	Motors	8	10	12	15	18	18	19	19	20	20
752	C&I Prescriptive	Premium Efficiency Motor	Motors	6	8	10	13	15	15	16	16	17	17
753	C&I Prescriptive	Premium Efficiency Motor	Motors	5	7	9	11	13	13	13	14	14	14
754	C&I Prescriptive	Premium Efficiency Motor	Motors	3	4	5	6	7	7	7	7	7	7
755	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	4	5	6	6	6	6	6	7
756	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	4	5	5	5	5	6	6
757	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	3	4	5	5	5	5	5	6
758	C&I Prescriptive	Premium Efficiency Motor	Motors	6	8	10	13	15	15	16	16	17	17
759	C&I Prescriptive	Premium Efficiency Motor	Motors	14	18	23	28	33	34	34	35	36	37
760	C&I Prescriptive	Premium Efficiency Motor	Motors	13	16	20	25	29	30	31	31	32	33
761	C&I Prescriptive	Premium Efficiency Motor	Motors	14	18	22	27	32	33	33	34	35	36
762	C&I Prescriptive	Premium Efficiency Motor	Motors	10	13	17	20	24	25	25	26	26	27
763	C&I Prescriptive	Premium Efficiency Motor	Motors	11	14	17	21	25	26	26	27	28	28
764	C&I Prescriptive	Premium Efficiency Motor	Motors	8	10	12	15	18	18	19	19	19	20
765	C&I Prescriptive	Premium Efficiency Motor	Motors	8	10	13	15	18	18	19	19	20	20
766	C&I Prescriptive	Premium Efficiency Motor	Motors	3	5	6	7	8	8	9	9	9	9
767	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	3	4	5	5	5	5	5	5
768	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	4	5	5	6	6	6	6
769	C&I Prescriptive	Premium Efficiency Motor	Motors	9	11	14	17	21	21	22	22	23	23
770	C&I Prescriptive	Premium Efficiency Motor	Motors	10	13	16	20	23	24	25	25	26	26

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
771	C&I Prescriptive	Premium Efficiency Motor	Motors	8	10	13	16	19	19	20	20	21	21
772	C&I Prescriptive	Premium Efficiency Motor	Motors	7	9	11	13	15	16	16	17	17	17
773	C&I Prescriptive	Premium Efficiency Motor	Motors	5	7	9	11	12	13	13	13	14	14
774	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	4	4	5	5	6	6	6	6
775	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	4	4	5	5	5	5	5
776	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	2	2	2	2	2	2	2
777	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	2	2	2	2	2	2	3
778	C&I Custum	Compressed Air-O&M	All systems	23,534,044	23,534,044	23,534,044	23,534,044	23,534,044	24,075,328	24,629,060	25,195,528	25,775,026	26,367,851
779	C&I Custum	Compressed Air - Controls	All systems	7,844,681	7,844,681	7,844,681	7,844,681	7,844,681	8,025,109	8,209,687	8,398,509	8,591,675	8,789,284
780	C&I Custum	Compressed Air - System Optimization	All systems	15,689,363	15,689,363	15,689,363	15,689,363	15,689,363	16,050,218	16,419,373	16,797,019	17,183,350	17,578,567
781	C&I Custum	Compressed Air- Sizing	All systems	12,551,490	12,551,490	12,551,490	12,551,490	12,551,490	12,840,175	13,135,499	13,437,615	13,746,680	14,062,854
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	267,087	267,087	267,087	267,087	267,087	273,230	279,514	285,943	292,520	299,248
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	12,707,132	12,707,132	12,707,132	12,707,132	12,707,132	12,999,396	13,298,382	13,604,245	13,917,142	14,237,236
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	7,975,020	7,975,020	7,975,020	7,975,020	7,975,020	8,158,446	8,346,090	8,538,050	8,734,425	8,935,317
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	6,181,095	6,181,095	6,181,095	6,181,095	6,181,095	6,323,260	6,468,695	6,617,475	6,769,677	6,925,380
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	31,012,641	31,012,641	31,012,641	31,012,641	31,012,641	31,725,932	32,455,628	33,202,107	33,965,756	34,746,968
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	31,012,641	31,012,641	31,012,641	31,012,641	31,012,641	31,725,932	32,455,628	33,202,107	33,965,756	34,746,968
791	C&I Custum	Power recovery	All systems	3,850,968	3,850,968	3,850,968	3,850,968	3,850,968	3,939,540	4,030,150	4,122,843	4,217,669	4,314,675
792	C&I Custum	Refinery Controls	All systems	15,433,298	15,433,298	15,433,298	15,433,298	15,433,298	15,788,264	16,151,394	16,522,876	16,902,902	17,291,669
793	C&I Custum	Energy Star Transformers	All systems	39,099	39,099	39,099	39,099	39,099	39,998	40,918	41,859	42,822	43,806
794	C&I Custum	Fans - O&M	All systems	15,689,363	15,689,363	15,689,363	15,689,363	15,689,363	16,050,218	16,419,373	16,797,019	17,183,350	17,578,567
795	C&I Custum	Fans - Controls	All systems	3,716,122	3,716,122	3,716,122	3,716,122	3,716,122	3,801,593	3,889,030	3,978,477	4,069,982	4,163,592
796	C&I Custum	Fans - System Optimization	All systems	2,496,050	2,496,050	2,496,050	2,496,050	2,496,050	2,553,459	2,612,189	2,672,269	2,733,731	2,796,607
797	C&I Custum	Fans - Improve components	All systems	6,275,745	6,275,745	6,275,745	6,275,745	6,275,745	6,420,087	6,567,749	6,718,808	6,873,340	7,031,427
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	267,087	267,087	267,087	267,087	267,087	273,230	279,514	285,943	292,520	299,248
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	12,707,132	12,707,132	12,707,132	12,707,132	12,707,132	12,999,396	13,298,382	13,604,245	13,917,142	14,237,236
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	7,975,020	7,975,020	7,975,020	7,975,020	7,975,020	8,158,446	8,346,090	8,538,050	8,734,425	8,935,317
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	6,181,095	6,181,095	6,181,095	6,181,095	6,181,095	6,323,260	6,468,695	6,617,475	6,769,677	6,925,380
805	C&I Custum	Fans - ASD (100+ hp)	All systems	31,012,641	31,012,641	31,012,641	31,012,641	31,012,641	31,725,932	32,455,628	33,202,107	33,965,756	34,746,968
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	31,012,641	31,012,641	31,012,641	31,012,641	31,012,641	31,725,932	32,455,628	33,202,107	33,965,756	34,746,968
807	C&I Custum	Optimize drying process	All systems	9,710,007	9,710,007	9,710,007	9,710,007	9,710,007	9,933,337	10,161,804	10,395,525	10,634,622	10,879,218
808	C&I Custum	Pumps - O&M	All systems	12,551,490	12,551,490	12,551,490	12,551,490	12,551,490	12,840,175	13,135,499	13,437,615	13,746,680	14,062,854
809	C&I Custum	Pumps - Controls	All systems	10,982,554	10,982,554	10,982,554	10,982,554	10,982,554	11,235,153	11,493,561	11,757,913	12,028,345	12,304,997
810	C&I Custum	Pumps - System Optimization	All systems	7,344,976	7,344,976	7,344,976	7,344,976	7,344,976	7,513,910	7,686,730	7,863,525	8,044,386	8,229,407
811	C&I Custum	Pumps - Sizing	All systems	6,275,745	6,275,745	6,275,745	6,275,745	6,275,745	6,420,087	6,567,749	6,718,808	6,873,340	7,031,427
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	267,087	267,087	267,087	267,087	267,087	273,230	279,514	285,943	292,520	299,248
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	12,707,132	12,707,132	12,707,132	12,707,132	12,707,132	12,999,396	13,298,382	13,604,245	13,917,142	14,237,236
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	7,975,020	7,975,020	7,975,020	7,975,020	7,975,020	8,158,446	8,346,090	8,538,050	8,734,425	8,935,317
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	6,181,095	6,181,095	6,181,095	6,181,095	6,181,095	6,323,260	6,468,695	6,617,475	6,769,677	6,925,380
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	31,012,641	31,012,641	31,012,641	31,012,641	31,012,641	31,725,932	32,455,628	33,202,107	33,965,756	34,746,968
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	31,012,641	31,012,641	31,012,641	31,012,641	31,012,641	31,725,932	32,455,628	33,202,107	33,965,756	34,746,968
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	214,583	214,583	214,583	214,583	214,583	219,519	224,568	229,733	235,017	240,422
822	C&I Custum	Optimization refrigeration	Refrigeration	28,483	28,483	28,483	28,483	28,483	29,138	29,808	30,493	31,195	31,912
823	C&I Custum	Bakery - process	Process	68,741	68,741	68,741	68,741	68,741	70,322	71,939	73,594	75,287	77,018
824	C&I Custum	Bakery - process (mixing)	Process	101,790	101,790	101,790	101,790	101,790	104,131	106,526	108,976	111,482	114,046
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	828,026	828,026	828,026	828,026	828,026	847,070	866,553	886,484	906,873	927,731
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	141,707	141,707	141,707	141,707	141,707	144,966	148,300	151,711	155,200	158,770
830	C&I Custum	Direct drive extruders	Machine Drive	9,427	9,427	9,427	9,427	9,427	9,644	9,865	10,092	10,324	10,562
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	88,567	88,567	88,567	88,567	88,567	90,604	92,688	94,819	97,000	99,231
832	C&I Custum	Injection molding - direct drive	Machine Drive	43,418	43,418	43,418	43,418	43,418	44,417	45,438	46,483	47,553	48,646
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	367,894	367,894	367,894	367,894	367,894	376,356	385,012	393,867	402,926	412,193
835	C&I Custum	Top-heating (glass)	Process Heating	110,994	110,994	110,994	110,994	110,994	113,547	116,158	118,830	121,563	124,359
836	C&I Custum	Process controls	Process	9,649,871	9,649,871	9,649,871	9,649,871	9,649,871	9,871,818	10,098,870	10,331,144	10,568,760	10,811,841
837	C&I Custum	Efficient electric melting	Process Heating	387,723	387,723	387,723	387,723	387,723	396,641	405,764	415,096	424,644	434,410
838	C&I Custum	Near net shape casting	Machine Drive	280,044	280,044	280,044	280,044	280,044	286,485	293,074	299,814	306,710	313,764
839	C&I Custum	Optimization process (M&T)	Process	94,655	94,655	94,655	94,655	94,655	96,832	99,059	101,337	103,668	106,053
840	C&I Custum	Scheduling	Process	47,989	47,989	47,989	47,989	47,989	49,093	50,222	51,377	52,559	53,768
841	C&I Custum	Efficient curing ovens	Process Heating	10,018	10,018	10,018	10,018	10,018	10,249	10,484	10,726	10,972	11,225
842	C&I Custum	Machinery	Machine Drive	81,793	81,793	81,793	81,793	81,793	83,675	85,599	87,568	89,582	91,642
843	C&I Custum	Optimization process (M&T)	Process	40,463	40,463	40,463	40,463	40,463	41,394	42,346	43,320	44,316	45,335
844	C&I Custum	Scheduling	Process	20,514	20,514	20,514	20,514	20,514	20,986	21,469	21,963	22,468	22,985
845	C&I Custum	Efficient curing ovens	Process Heating	1,488	1,488	1,488	1,488	1,488	1,522	1,557	1,593	1,630	1,667
846	C&I Custum	Machinery	Machine Drive	86,397	86,397	86,397	86,397	86,397	88,384	90,417	92,497	94,624	96,800
847	C&I Custum	Optimization process (M&T)	Process	29,801	29,801	29,801	29,801	29,801	30,486	31,187	31,905	32,639	33,389

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
848	C&I Custom	Scheduling	Process	18,886	18,886	18,886	18,886	18,886	19,320	19,765	20,219	20,684	21,160
849	C&I Custom	Efficient curing ovens	Process Heating	2,490	2,490	2,490	2,490	2,490	2,547	2,606	2,666	2,727	2,790
850	C&I Custom	Machinery	Machine Drive	25,338	25,338	25,338	25,338	25,338	25,921	26,517	27,127	27,751	28,389
851	C&I Custom	Scheduling	Process	23,903	23,903	23,903	23,903	23,903	24,453	25,015	25,591	26,179	26,781
852	C&I Custom	Efficient curing ovens	Process Heating	4,499	4,499	4,499	4,499	4,499	4,602	4,708	4,816	4,927	5,040
853	C&I Custom	Machinery	Machine Drive	11,074	11,074	11,074	11,074	11,074	11,329	11,589	11,856	12,129	12,407
854	C&I Custom	Efficient processes (welding, etc.)	Process	31,246	31,246	31,246	31,246	31,246	31,964	32,700	33,452	34,221	35,008
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	3,308	3,460	3,617	3,782	3,952	4,043	4,136	4,232	4,329	4,428
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart	All systems	0	0	1,503	1,532	1,562	1,598	1,634	1,672	1,710	1,750
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart	All systems	0	0	724	738	753	770	788	806	824	843
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
865	Commercial Demand Credit	Commercial Demand Credit	All systems	80	80	80	80	80	80	80	80	80	80
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

2: Installations

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	3,282	3,358	3,435	3,514	3,595	3,677	3,762	3,848	3,937	4,027
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	616	630	644	659	674	690	706	722	738	755
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	348	356	364	373	381	390	399	408	418	427
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	2,439	2,496	2,553	2,612	2,672	2,733	2,796	2,860	2,926	2,993
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	1,587	1,623	1,660	1,699	1,738	1,778	1,819	1,860	1,903	1,947
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	303	310	317	324	331	339	347	355	363	371
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	252	258	264	270	276	283	289	296	303	310
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	1,732	1,772	1,812	1,854	1,897	1,940	1,985	2,030	2,077	2,125
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	510	522	534	546	558	571	584	598	611	626
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	262	268	274	280	287	293	300	307	314	321
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	3,548	3,629	3,713	3,798	3,886	3,975	4,066	4,160	4,256	4,353
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	665	680	696	712	728	745	762	780	798	816
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	376	385	394	403	412	421	431	441	451	462
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	2,960	3,029	3,098	3,169	3,242	3,317	3,393	3,471	3,551	3,633
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	3,697	3,782	3,869	3,958	4,049	4,143	4,238	4,335	4,435	4,537
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	694	710	726	743	760	777	795	813	832	851
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	392	401	410	420	430	439	450	460	470	481
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	470	481	492	503	514	526	538	551	563	576
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	102	104	106	109	111	114	116	119	122	125
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	56	57	58	60	61	63	64	65	67	69
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	375	383	392	401	410	420	429	439	449	460
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	102	104	106	109	111	114	116	119	122	125
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	49	50	51	52	53	54	56	57	58	60
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	354	362	370	379	387	396	405	415	424	434
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	89	91	93	95	98	100	102	104	107	109
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	41	42	43	44	45	46	47	48	49	50
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	281	288	294	301	308	315	322	330	337	345
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	3,156	3,229	3,303	3,379	3,457	3,536	3,617	3,701	3,786	3,873
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	649	664	679	694	710	727	743	761	778	796
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	367	375	384	393	402	411	420	430	440	450
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	1,656	1,694	1,733	1,772	1,813	1,855	1,898	1,941	1,986	2,032
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	311	311	311	311	311	311	311	311	311	311
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	57	57	57	57	57	57	57	57	57	57
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	33	33	33	33	33	33	33	33	33	33
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	997,789	1,020,738	1,044,215	1,068,232	1,092,801	1,117,936	1,143,648	1,169,952	1,196,861	1,224,389

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	187,166	191,471	195,875	200,380	204,989	209,703	214,527	219,461	224,508	229,672
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	105,846	108,280	110,771	113,318	115,925	118,591	121,318	124,109	126,963	129,883
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	758,089	775,525	793,363	811,610	830,277	849,373	868,909	888,894	909,338	930,253
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	7,279	7,447	7,618	7,793	7,972	8,156	8,343	8,535	8,731	8,932
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	1,006	1,029	1,053	1,077	1,102	1,127	1,153	1,180	1,207	1,235
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	715	731	748	765	783	801	819	838	857	877
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	5,540	5,668	5,798	5,931	6,068	6,207	6,350	6,496	6,646	6,799
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	779	779	779	779	779	779	779	779	779	779
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	146	146	146	146	146	146	146	146	146	146
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	83	83	83	83	83	83	83	83	83	83
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	10,134	10,367	10,606	10,849	11,099	11,354	11,615	11,883	12,156	12,435
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	1,901	1,945	1,989	2,035	2,082	2,130	2,179	2,229	2,280	2,333
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	1,075	1,100	1,125	1,151	1,177	1,204	1,232	1,261	1,290	1,319
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	7,006	7,167	7,332	7,500	7,673	7,849	8,030	8,215	8,403	8,597
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	8,918	9,123	9,333	9,548	9,767	9,992	10,222	10,457	10,697	10,943
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	1,557	1,593	1,629	1,667	1,705	1,744	1,784	1,825	1,867	1,910
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	880	901	921	942	964	986	1,009	1,032	1,056	1,080
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	490	502	513	525	537	549	562	575	588	602
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	4,897	5,010	5,125	5,243	5,364	5,487	5,613	5,742	5,874	6,009
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	1,030	1,054	1,078	1,103	1,128	1,154	1,181	1,208	1,235	1,264
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	553	565	578	592	605	619	633	648	663	678
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	4,620	4,726	4,835	4,946	5,060	5,176	5,295	5,417	5,541	5,669
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	6,486	6,635	6,788	6,944	7,103	7,267	7,434	7,605	7,780	7,959
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	1,107	1,132	1,158	1,184	1,212	1,240	1,269	1,298	1,328	1,358
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	626	640	655	670	686	701	718	734	751	768
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	4,928	5,041	5,157	5,276	5,397	5,521	5,648	5,778	5,911	6,047
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	773	773	773	773	773	773	773	773	773	773
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	145	145	145	145	145	145	145	145	145	145
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	83	83	83	83	83	83	83	83	83	83
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	415	424	434	444	454	465	475	486	498	509
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	102	104	106	109	111	114	116	119	122	125
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	49	50	51	52	53	54	56	57	58	60
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	257	262	269	275	281	287	294	301	308	315
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	96	98	100	103	105	107	110	112	115	118
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	38	39	40	41	42	43	44	45	46	47
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	572	585	598	612	626	641	655	670	686	701
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	106	109	111	114	116	119	122	125	127	130
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	82	83	85	87	89	91	93	96	98	100
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	760	778	795	814	832	852	871	891	912	933
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	90	92	94	96	98	100	103	105	107	110
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	111	114	116	119	122	125	128	131	134	137
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	3,047	3,117	3,189	3,262	3,337	3,414	3,492	3,573	3,655	3,739
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	572	585	598	612	626	640	655	670	686	701
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	323	331	338	346	354	362	370	379	388	397
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	2,315	2,368	2,423	2,478	2,535	2,594	2,653	2,714	2,777	2,841
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	6,206	6,348	6,494	6,644	6,797	6,953	7,113	7,276	7,444	7,615
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	1,164	1,191	1,218	1,246	1,275	1,304	1,334	1,365	1,396	1,428
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	658	673	689	705	721	738	755	772	790	808
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	4,121	4,216	4,313	4,412	4,513	4,617	4,723	4,832	4,943	5,057
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
ID	Program	Efficient Technology	HVAC System and/or End-use									
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	867	867	867	867	867	867	867	867	867
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	768	768	768	768	768	768	768	768	768
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	8,049	8,049	8,049	8,049	8,049	8,049	8,049	8,049	8,049
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	29,240	29,912	30,600	31,304	32,024	32,760	33,514	34,285	35,073
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	29,240	29,912	30,600	31,304	32,024	32,760	33,514	34,285	35,073
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	29,240	29,912	30,600	31,304	32,024	32,760	33,514	34,285	35,073
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	29,240	29,912	30,600	31,304	32,024	32,760	33,514	34,285	35,073
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	3,836	3,924	4,015	4,107	4,201	4,298	4,397	4,498	4,602
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	4,538	4,642	4,749	4,858	4,970	5,084	5,201	5,321	5,443
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	4,767	4,876	4,989	5,103	5,221	5,341	5,464	5,589	5,718
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	4,873	4,985	5,100	5,217	5,337	5,460	5,586	5,714	5,846
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,327	2,380	2,435	2,491	2,548	2,607	2,667	2,728	2,791
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,782	2,846	2,912	2,979	3,047	3,118	3,189	3,263	3,338
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,138	1,165	1,191	1,219	1,247	1,275	1,305	1,335	1,366
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	202	207	212	217	222	227	232	237	243
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,061	2,109	2,157	2,207	2,258	2,310	2,363	2,417	2,473
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,095	1,120	1,146	1,172	1,199	1,227	1,255	1,284	1,314
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	52	53	54	55	57	58	59	61	62
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	30	31	32	32	33	34	35	35	36
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	47	48	49	50	51	52	53	55	56
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	29	30	31	32	32	33	34	35	35
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	21	21	22	22	23	23	24	25	25
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	16	17	17	17	18	18	19	19	19
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	17	17	17	18	18	19	19	20	20
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	14	15	15	15	16	16	17	17	17
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	15	15	15	16	16	16	17	17	17
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	204	209	213	218	223	228	234	239	245
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,154	1,181	1,208	1,236	1,264	1,293	1,323	1,354	1,385
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	196	201	206	210	215	220	225	230	235
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,249	1,277	1,307	1,337	1,368	1,399	1,431	1,464	1,498
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	300	307	314	321	328	336	344	352	360
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	626	640	655	670	686	701	718	734	751	768
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,952	1,997	2,043	2,090	2,138	2,187	2,237	2,289	2,341	2,395
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	363	371	380	389	398	407	416	426	436	446
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,890	1,934	1,978	2,024	2,118	2,166	2,216	2,267	2,319	2,371
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,229	1,257	1,286	1,316	1,346	1,377	1,408	1,441	1,474	1,508
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,097	1,122	1,148	1,174	1,201	1,229	1,257	1,286	1,315	1,346
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	502	514	525	538	550	563	575	589	602	616
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	822	841	860	880	900	921	942	964	986	1,009
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,964	2,009	2,055	2,103	2,151	2,201	2,251	2,303	2,356	2,410
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	534	546	558	571	584	598	612	626	640	655
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,026	2,073	2,120	2,169	2,219	2,270	2,322	2,376	2,430	2,486
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,328	1,358	1,389	1,421	1,454	1,487	1,522	1,557	1,592	1,629
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	469	480	491	502	514	525	537	550	562	575
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	39	40	41	42	43	44	45	46	47	48
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	165	169	173	177	181	185	189	194	198	203
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	7	7	7	7	8	8	8	8	8	9
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	92	95	97	99	101	104	106	108	111	113
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	214	219	224	230	235	240	246	251	257	263
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	31	31	32	33	33	34	35	36	37	37
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	173	177	181	185	190	194	199	203	208	213
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	47	48	50	51	52	53	54	56	57	58
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	3	3	3	3	3	3	3	4	4	4
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	122	124	127	130	133	136	139	143	146	149
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	396	405	414	424	433	443	453	464	475	485
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	785	803	822	841	860	880	900	921	942	964
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	431	441	451	462	472	483	494	506	517	529
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	387	396	405	414	424	434	444	454	464	475
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,719	1,759	1,799	1,841	1,883	1,926	1,971	2,016	2,062	2,110
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	592	605	619	633	648	663	678	694	710	726
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,665	1,703	1,742	1,783	1,824	1,866	1,908	1,952	1,997	2,043
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,070	1,095	1,120	1,146	1,172	1,199	1,226	1,255	1,283	1,313

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	359	367	375	384	393	402	411	420	430	440
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	4	4	4	4	4	4	4	4	4	4
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	4	4	4	4	4	4	4	4	4	4
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	1	1	1	1	1	1	1	1	1	1
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	16	16	16	17	17	18	18	18	19	19
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	0	0	1	1	1	1	1	1	1	1
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4	4	4	4	4	4	4	4	4	4
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2	2	2	2	2	3	3	3	3	3
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	6	6	6	6	6	6	6	7	7	7
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4	4	4	4	4	4	4	4	4	4
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	1	1	1	1	1	1	1	1	1	1
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	16	16	16	17	17	18	18	18	19	19
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	19	20	20	21	21	22	22	23	23	24
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	6	7	7	7	7	7	7	8	8	8
323	C&I Prescriptive	VAV	Chiller & Boiler	950	971	994	1,017	1,040	1,064	1,088	1,113	1,139	1,165
324	C&I Prescriptive	VAV	Chiller & Boiler	975	997	1,020	1,044	1,068	1,092	1,117	1,143	1,169	1,196
325	C&I Prescriptive	VAV	Chiller & Boiler	352	360	368	377	385	394	403	412	422	432
326	C&I Prescriptive	VAV	Chiller & Boiler	1,590	1,626	1,664	1,702	1,741	1,781	1,822	1,864	1,907	1,951
327	C&I Prescriptive	VAV	Chiller & Boiler	1,417	1,449	1,483	1,517	1,552	1,587	1,624	1,661	1,700	1,739
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	950	971	994	1,017	1,040	1,064	1,088	1,113	1,139	1,165
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	352	360	368	377	385	394	403	413	422	432
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	150	153	157	161	164	168	172	176	180	184
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,112	1,138	1,164	1,191	1,218	1,246	1,275	1,304	1,334	1,365
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,685	1,723	1,763	1,804	1,845	1,887	1,931	1,975	2,021	2,067
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,209	1,237	1,265	1,294	1,324	1,354	1,386	1,417	1,450	1,483
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,117	1,143	1,169	1,196	1,224	1,252	1,281	1,310	1,340	1,371
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	7	7	7	7	7	7	8	8	8	8
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	763	781	799	817	836	855	875	895	915	936
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	204	208	213	218	223	228	233	239	244	250
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	1,106	1,132	1,158	1,184	1,212	1,240	1,268	1,297	1,327	1,358
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	809	828	847	866	886	907	928	949	971	993
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,756	1,797	1,838	1,880	1,923	1,968	2,013	2,059	2,107	2,155
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	763	781	799	817	836	855	875	895	915	936
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	191	196	200	205	209	214	219	224	229	235
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,106	1,132	1,158	1,184	1,212	1,240	1,268	1,297	1,327	1,358
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,443	1,476	1,510	1,545	1,581	1,617	1,654	1,692	1,731	1,771
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	13	13	13	13	13	13	13	13	13	13
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,067	2,114	2,163	2,213	2,264	2,316	2,369	2,423	2,479	2,536
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,428	2,484	2,541	2,600	2,660	2,721	2,783	2,847	2,913	2,980
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,509	2,567	2,626	2,686	2,748	2,811	2,876	2,942	3,010	3,079
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,697	2,759	2,822	2,887	2,954	3,022	3,091	3,162	3,235	3,309
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	150	154	157	161	165	168	172	176	180	185
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	296	303	310	317	324	332	339	347	355	363
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	361	369	378	386	395	404	414	423	433	443
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	438	448	458	469	480	491	502	514	525	537
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	199	204	208	213	218	223	228	233	239	244
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	214	219	224	230	235	240	246	251	257	263
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	218	223	228	233	238	244	250	255	261	267
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	225	230	236	241	247	252	258	264	270	276
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	9	10	10	10	10	10	11	11	11	11
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11	11	11	11	12	12	12	13	13	13
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11	11	11	11	12	12	12	13	13	13
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11	11	11	11	12	12	12	13	13	13
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,056	1,080	1,105	1,131	1,157	1,183	1,210	1,238	1,267	1,296
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,154	1,181	1,208	1,236	1,264	1,293	1,323	1,353	1,384	1,416
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,175	1,202	1,230	1,258	1,287	1,317	1,347	1,378	1,409	1,442
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,223	1,251	1,280	1,309	1,339	1,370	1,401	1,434	1,467	1,500
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	89	91	93	95	98	100	102	105	107	109
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	119	121	124	127	130	133	136	139	142	146
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	119	121	124	127	130	133	136	139	142	146
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	119	121	124	127	130	133	136	139	142	146
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,585	3,668	3,752	3,839	3,927	4,017	4,110	4,204	4,301	4,400
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,761	3,847	3,936	4,026	4,119	4,214	4,310	4,409	4,511	4,615
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,797	3,885	3,974	4,065	4,159	4,255	4,352	4,453	4,555	4,660
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,879	3,968	4,060	4,153	4,249	4,346	4,446	4,549	4,653	4,760
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	177	181	185	189	193	198	202	207	212	217
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	177	181	185	189	193	198	202	207	212	217
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	177	181	185	189	193	198	202	207	212	217
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	190	194	199	203	208	213	218	223	228	233
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,319	6,465	6,613	6,765	6,921	7,080	7,243	7,410	7,580	7,754
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,774	6,930	7,090	7,253	7,420	7,590	7,765	7,943	8,126	8,313
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,871	7,029	7,190	7,356	7,525	7,698	7,875	8,056	8,241	8,431
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,088	7,251	7,418	7,588	7,763	7,941	8,124	8,311	8,502	8,697
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	309	316	324	331	339	347	354	363	371	380
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	334	342	349	357	366	374	383	391	401	410
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	334	342	349	357	366	374	383	391	401	410
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	334	342	349	357	366	374	383	391	401	410

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	836	855	875	895	915	936	958	980	1,003	1,026
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	975	997	1,020	1,043	1,067	1,092	1,117	1,143	1,169	1,196
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,005	1,028	1,052	1,076	1,101	1,126	1,152	1,179	1,206	1,234
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,077	1,102	1,127	1,153	1,179	1,207	1,234	1,263	1,292	1,321
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	65	66	68	69	71	72	74	76	77	79
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	123	126	129	132	135	138	141	144	147	151
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	149	152	155	159	163	166	170	174	178	182
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	173	177	181	186	190	194	199	203	208	213
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	984	1,007	1,030	1,054	1,078	1,103	1,128	1,154	1,181	1,208
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,165	1,192	1,220	1,248	1,276	1,306	1,336	1,366	1,398	1,430
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,206	1,234	1,262	1,291	1,321	1,351	1,382	1,414	1,447	1,480
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,301	1,330	1,361	1,392	1,424	1,457	1,491	1,525	1,560	1,596
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	68	69	71	72	74	76	78	79	81	83
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	137	141	144	147	150	154	157	161	165	169
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	169	173	177	181	185	189	194	198	203	208
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	207	212	217	222	227	232	237	243	248	254
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,265	2,317	2,370	2,425	2,481	2,538	2,596	2,656	2,717	2,779
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,522	2,580	2,640	2,700	2,763	2,826	2,891	2,958	3,026	3,095
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,578	2,637	2,698	2,760	2,824	2,889	2,955	3,023	3,092	3,164
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,705	2,768	2,831	2,896	2,963	3,031	3,101	3,172	3,245	3,320
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	166	169	173	177	181	186	190	194	199	203
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	260	266	272	279	285	292	298	305	312	319
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	270	277	283	290	296	303	310	317	324	332
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	270	277	283	290	296	303	310	317	324	332
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,508	1,543	1,578	1,615	1,652	1,690	1,729	1,769	1,809	1,851
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,783	1,824	1,866	1,909	1,953	1,998	2,044	2,091	2,139	2,188
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,845	1,887	1,930	1,975	2,020	2,067	2,114	2,163	2,213	2,264
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,988	2,034	2,081	2,128	2,177	2,227	2,279	2,331	2,385	2,440
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	105	107	110	112	115	117	120	123	126	129
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	212	216	221	226	232	237	242	248	254	260
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	260	266	272	278	285	291	298	305	312	319
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	318	325	332	340	348	356	364	372	381	390
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	11,167	11,424	11,686	11,955	12,230	12,511	12,799	13,094	13,395	13,703
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	12,330	12,613	12,903	13,200	13,504	13,814	14,132	14,457	14,790	15,130
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	12,580	12,869	13,165	13,468	13,778	14,095	14,419	14,751	15,090	15,437
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	13,150	13,453	13,762	14,079	14,402	14,734	15,072	15,419	15,774	16,137
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	872	892	913	934	955	977	1,000	1,023	1,046	1,070
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,297	1,327	1,358	1,389	1,421	1,453	1,487	1,521	1,556	1,592
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,297	1,327	1,358	1,389	1,421	1,453	1,487	1,521	1,556	1,592
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,297	1,327	1,358	1,389	1,421	1,453	1,487	1,521	1,556	1,592
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2,233	2,284	2,337	2,390	2,445	2,501	2,559	2,618	2,678	2,740
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,592	4,697	4,805	4,916	5,029	5,145	5,263	5,384	5,508	5,635
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2,012	2,058	2,105	2,154	2,203	2,254	2,306	2,359	2,413	2,469
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	127	130	133	136	139	143	146	149	153	156
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	2,695	2,757	2,821	2,886	2,952	3,020	3,090	3,161	3,233	3,308
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,330	3,407	3,485	3,565	3,648	3,731	3,817	3,905	3,995	4,087
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	39	40	41	42	43	44	45	46	47	48
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	71	72	74	76	78	79	81	83	85	87
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	50	52	53	54	55	57	58	59	60	62
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	113	116	118	121	124	127	130	133	136	139
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	24	25	25	26	26	27	27	28	29	29
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	9	10	10	10	10	10	11	11	11	11
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	417	427	437	447	457	468	478	489	501	512
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	581	594	608	622	636	651	666	681	697	713
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	232	238	243	249	254	260	266	272	279	285
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	32	33	34	34	35	36	37	38	39	39
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	404	413	423	433	443	453	463	474	485	496
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	205	210	215	220	225	230	235	241	246	252
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	329	337	344	352	360	369	377	386	395	404
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	266	272	278	285	291	298	305	312	319	326
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	329	337	345	353	361	369	378	386	395	404
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	250	255	261	267	274	280	286	293	300	306
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	20	20	21	21	22	22	23	23	24	24
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	13	13	13	14	14	14	15	15	15	16
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	590	603	617	631	646	661	676	692	707	724
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	847	867	887	907	928	949	971	994	1,016	1,040
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	355	363	371	380	389	398	407	416	426	435
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	44	46	47	48	49	51	52	53	55	55
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	580	594	607	621	635	650	665	680	696	712
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	299	306	313	321	328	336	343	351	359	367
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	53	54	55	56	58	59	60	62	63	65
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	45	46	47	48	49	51	52	53	54	55
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	54	55	56	57	59	60	62	63	64	66
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	45	46	47	49	50	51	52	53	54	56
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	5	5	5	5	5	5	5	5	5	6
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	3	3	3	3	3	3	3	3	3
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	9,924	10,152	10,386	10,625	10,869	11,119	11,375	11,637	11,904	12,178
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	9,924	10,152	10,386	10,625	10,869	11,119	11,375	11,637	11,904	12,178
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	3,970	4,061	4,154	4,250	4,348	4,448	4,550	4,655	4,762	4,871
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	870	890	910	931	953	975	997	1,020	1,043	1,067
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	7,939	8,122	8,309	8,500	8,695	8,895	9,100	9,309	9,523	9,742
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,387	4,488	4,591	4,696	4,804	4,915	5,028	5,144	5,262	5,383
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	95	97	99	101	104	106	109	111	114	116
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	50	51	52	54	55	56	57	59	60	62
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	87	89	92	94	96	98	100	103	105	107
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	42	43	44	45	46	47	48	49	50	51
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	20	20	21	21	22	22	23	23	24	24
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	15	15	16	16	16	17	17	18	18	18
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,501	2,559	2,618	2,678	2,740	2,803	2,867	2,933	3,000	3,069
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,501	2,559	2,618	2,678	2,740	2,803	2,867	2,933	3,000	3,069
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,001	1,024	1,047	1,071	1,096	1,121	1,147	1,173	1,200	1,228
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	213	218	223	228	233	239	244	250	256	262
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,001	2,047	2,094	2,142	2,192	2,242	2,294	2,346	2,400	2,456
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,090	1,115	1,141	1,167	1,194	1,222	1,250	1,279	1,308	1,338
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	81	83	85	87	89	91	93	95	97	100
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	44	45	46	48	49	50	51	52	53	55
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	75	77	79	81	82	84	86	88	90	92
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	37	38	39	40	41	41	42	43	44	45
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	20	21	21	22	22	23	23	24	25	25
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	15	16	16	16	17	17	18	18	18	19
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,888	2,955	3,023	3,092	3,164	3,236	3,311	3,387	3,465	3,544
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	5,642	5,772	5,905	6,040	6,179	6,321	6,467	6,616	6,768	6,923
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,456	2,512	2,570	2,629	2,690	2,752	2,815	2,880	2,946	3,014
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	172	175	180	184	188	192	197	201	206	210
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	3,386	3,464	3,544	3,625	3,709	3,794	3,881	3,970	4,062	4,155
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,687	3,772	3,859	3,948	4,038	4,131	4,226	4,324	4,423	4,525
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	44	45	46	47	48	49	51	52	53	54
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	72	74	76	77	79	81	83	85	87	89
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	55	57	58	59	61	62	64	65	66	68
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	110	113	115	118	121	124	126	129	132	135
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	16	17	17	17	18	18	19	19	19	20
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	7	7	7	7	7	8	8	8	8	8
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,341	2,394	2,449	2,506	2,563	2,622	2,683	2,744	2,808	2,872
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,572	4,677	4,784	4,895	5,007	5,122	5,240	5,361	5,484	5,610
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,990	2,036	2,083	2,131	2,180	2,230	2,281	2,333	2,387	2,442
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	139	142	145	149	152	156	159	163	167	171
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,744	2,807	2,871	2,938	3,005	3,074	3,145	3,217	3,291	3,367
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,988	3,057	3,127	3,199	3,272	3,348	3,425	3,503	3,584	3,666
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	80	82	84	85	87	89	91	94	96	98
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	131	134	137	140	143	146	150	153	157	160
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	100	102	105	107	110	112	115	117	120	123
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	199	204	208	213	218	223	228	234	239	244
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	8	8	8	9	9	9	9	9	10	10
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	3	4	4	4	4	4	4	4	4
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,636	2,697	2,759	2,822	2,887	2,953	3,021	3,091	3,162	3,235
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,220	4,317	4,417	4,518	4,622	4,728	4,837	4,948	5,062	5,179
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,791	1,833	1,875	1,918	1,962	2,007	2,053	2,101	2,149	2,198
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	183	187	191	196	200	205	209	214	219	224
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,759	2,822	2,887	2,953	3,021	3,091	3,162	3,235	3,309	3,385
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,846	1,888	1,932	1,976	2,022	2,068	2,116	2,165	2,214	2,265
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	633	647	662	678	693	709	725	742	759	777
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	681	697	713	729	746	763	781	799	817	836

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	695	710	727	744	761	778	796	814	833	852
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	869	889	909	930	951	973	996	1,018	1,042	1,066
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	56	58	59	60	62	63	65	66	68	69
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	31	31	32	33	33	34	35	36	37	37
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	763	781	799	817	836	855	875	895	916	937
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	1,613	1,650	1,688	1,727	1,767	1,807	1,849	1,891	1,935	1,979
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	709	725	742	759	777	795	813	832	851	870
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	43	44	45	46	47	48	49	50	51	52
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	936	957	979	1,002	1,025	1,049	1,073	1,097	1,123	1,148
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	1,236	1,264	1,293	1,323	1,354	1,385	1,417	1,449	1,482	1,517
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	213	218	223	228	234	239	245	250	256	262
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	412	421	431	441	451	462	472	483	494	505
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	282	289	295	302	309	316	323	331	338	346
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	675	690	706	722	739	756	773	791	809	828
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	125	128	131	134	137	140	144	147	150	154
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	47	48	49	50	52	53	54	55	57	58
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	12,140	12,419	12,705	12,997	13,296	13,602	13,914	14,234	14,562	14,897
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	18,130	18,547	18,973	19,410	19,856	20,313	20,780	21,258	21,747	22,247
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	7,629	7,804	7,984	8,167	8,355	8,547	8,744	8,945	9,151	9,361
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	888	909	930	951	973	995	1,018	1,042	1,066	1,090
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	12,210	12,491	12,778	13,072	13,372	13,680	13,995	14,317	14,646	14,983
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	6,891	7,049	7,212	7,377	7,547	7,721	7,898	8,080	8,266	8,456
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	1,316	1,347	1,378	1,409	1,442	1,475	1,509	1,544	1,579	1,615
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	1,224	1,252	1,281	1,311	1,341	1,372	1,403	1,435	1,468	1,502
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	1,379	1,410	1,443	1,476	1,510	1,545	1,580	1,616	1,654	1,692
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	1,349	1,380	1,412	1,445	1,478	1,512	1,547	1,582	1,619	1,656
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	250	256	262	268	274	280	287	293	300	307
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	148	151	155	159	162	166	170	174	178	182
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	100	103	105	107	110	112	115	118	120	123
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	103	105	108	110	113	115	118	121	123	126
580	C&I Prescriptive	180W LPS	Lighting - exterior	103	105	108	110	113	115	118	121	123	126
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	32	33	34	35	35	36	37	38	39	40
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	82	84	86	88	90	92	94	97	99	101
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	68	69	71	73	74	76	78	80	81	83
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	103	105	108	110	113	115	118	121	123	126
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	103	105	108	110	113	115	118	121	123	126
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	81	83	85	87	89	91	93	95	97	100
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	83	85	87	89	91	94	96	98	100	102
588	C&I Prescriptive	Premium Efficiency Motor	Motors	18	18	19	19	19	20	20	21	21	22
589	C&I Prescriptive	Premium Efficiency Motor	Motors	32	33	33	34	35	36	37	37	38	39
590	C&I Prescriptive	Premium Efficiency Motor	Motors	22	23	23	24	24	25	25	26	27	27
591	C&I Prescriptive	Premium Efficiency Motor	Motors	24	25	25	26	27	27	28	28	29	30
592	C&I Prescriptive	Premium Efficiency Motor	Motors	24	25	25	26	26	27	28	28	29	30
593	C&I Prescriptive	Premium Efficiency Motor	Motors	22	22	23	23	24	24	25	26	26	27
594	C&I Prescriptive	Premium Efficiency Motor	Motors	16	16	17	17	17	18	18	19	19	19
595	C&I Prescriptive	Premium Efficiency Motor	Motors	12	12	12	13	13	13	13	14	14	14
596	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	7	7	7	7	7	7
597	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	2	2	2	2	2
598	C&I Prescriptive	Premium Efficiency Motor	Motors	8	8	8	8	9	9	9	9	9	10
599	C&I Prescriptive	Premium Efficiency Motor	Motors	22	23	23	24	24	25	25	26	27	27
600	C&I Prescriptive	Premium Efficiency Motor	Motors	18	18	18	19	19	20	20	21	21	22
601	C&I Prescriptive	Premium Efficiency Motor	Motors	14	14	15	15	15	16	16	17	17	17
602	C&I Prescriptive	Premium Efficiency Motor	Motors	17	18	18	18	19	19	20	20	21	21
603	C&I Prescriptive	Premium Efficiency Motor	Motors	12	12	12	13	13	13	13	14	14	14
604	C&I Prescriptive	Premium Efficiency Motor	Motors	5	6	6	6	6	6	6	6	7	7
605	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	3	3	3	3	3
606	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	2	2	2	2	2	2	2
607	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use =	: Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	9	9	9	9	10	10	10	10	10	11
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	7	7	7	7	7	7	8	8	8	8
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
617	C&I Prescriptive	Domestic hot water circulation pump control	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	382	390	399	408	418	428	437	447	458	468
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	66	68	69	71	73	74	76	78	80	81
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	76	78	79	81	83	85	87	89	91	93
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	46	47	48	49	50	51	53	54	55	56
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	34	34	35	36	37	38	39	39	40	41
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	46	47	48	49	50	52	53	54	55	57
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	53	55	56	57	58	60	61	63	64	65
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	68	70	71	73	75	76	78	80	82	84
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	16	16	17	17	18	18	18	19	19	20
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	16	16	17	17	17	18	18	19	19	20
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	209	214	219	224	229	235	240	246	251	257
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	49	50	51	53	54	55	56	58	59	60
637	C&I Prescriptive	Replace multiplex air-cooled condenser with	Refrigeration - equipment	198	202	207	212	217	222	227	232	237	243
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	89	91	94	96	98	100	102	105	107	110
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	110	113	115	118	121	123	126	129	132	135
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	107	109	112	114	117	120	122	125	128	131
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	21	21	22	22	23	23	24	24	25	25
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	15	16	16	17	17	17	18	18	19	19
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	281	287	294	301	308	315	322	329	337	345
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	191	195	200	204	209	214	219	224	229	234
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	608	622	637	651	666	681	697	713	730	746
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	79	80	82	84	86	88	90	92	94	97
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	742	759	776	794	812	831	850	870	890	910
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	626	640	655	670	685	701	717	734	751	768
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,490	1,524	1,560	1,595	1,632	1,670	1,708	1,747	1,787	1,829
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	400	409	419	428	438	448	459	469	480	491
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,698	2,760	2,824	2,889	2,955	3,023	3,093	3,164	3,237	3,311
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,162	3,235	3,309	3,385	3,463	3,543	3,624	3,707	3,793	3,880
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,317	3,393	3,471	3,551	3,633	3,716	3,802	3,889	3,979	4,070
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,686	3,770	3,857	3,946	4,037	4,130	4,225	4,322	4,421	4,523
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	103	105	108	110	113	115	118	121	123	126
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	277	283	289	296	303	310	317	324	332	339
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	370	378	387	396	405	414	424	433	443	454
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	490	502	513	525	537	549	562	575	588	602
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	625	640	654	669	685	700	717	733	750	767
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	1,794	1,835	1,877	1,920	1,965	2,010	2,056	2,103	2,152	2,201
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	820	838	858	878	898	918	939	961	983	1,006
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	28	28	29	29	30	31	32	32	33	34
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	913	934	955	977	1,000	1,023	1,046	1,070	1,095	1,120
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	2,548	2,607	2,667	2,728	2,791	2,855	2,921	2,988	3,057	3,127
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	111	114	117	119	122	125	128	131	134	137
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	409	418	428	438	448	458	469	480	491	502
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	181	185	189	194	198	203	207	212	217	222
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	883	904	924	946	967	990	1,012	1,036	1,060	1,084
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	98	100	103	105	108	110	113	115	118	121
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	25	25	26	27	27	28	28	29	30	30
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	6	6	6	6	7	7	7	7	7	7
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	8	8	9	9	9	9	9	10	10	10
690	C&I Prescriptive	180W LPS	Lighting - exterior	10	10	10	10	11	11	11	11	12	12
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	1	2	2	2	2	2	2	2	2	2
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	7	8	8	8	8	8	9	9	9	9
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	4	4	4	5	5	5	5	5	5	5

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	8	9	9	9	9	9	10	10	10	10
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	10	10	11	11	11	11	12	12	12	12
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	5	6	6	6	6	6	6	6	7	7
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	6	6	6	6	6	6	6	7	7	7
698	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	4	4	4	4	4	5	5	5
699	C&I Prescriptive	Premium Efficiency Motor	Motors	5	6	6	6	6	6	6	6	6	7
700	C&I Prescriptive	Premium Efficiency Motor	Motors	5	5	5	5	5	5	5	5	5	6
701	C&I Prescriptive	Premium Efficiency Motor	Motors	5	5	5	5	5	5	5	5	6	6
702	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	4	4	4	4	4	4	5	5
703	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	4	4	4	4	4	5	5	5
704	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	3	3	3	3	3	4	4	4
705	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	3	3	3	3	3	3	3	3
706	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	2	2	2	2	2
707	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
708	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	2	2	2	2	3
709	C&I Prescriptive	Premium Efficiency Motor	Motors	5	5	5	5	5	5	5	5	5	6
710	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	4	4	4	4	4	5	5	5
711	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	3	3	3	4	4	4	4	4
712	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	3	3	3	3	3	3	3	3
713	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	3	3	3	3	3	3	3
714	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	2	2
715	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
716	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	0	0	0	1	1	1
717	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	1	1	1	1	1	1
718	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	7	7	7	7	7	7	8	8
719	C&I Prescriptive	Premium Efficiency Motor	Motors	8	8	9	9	9	9	9	10	10	10
720	C&I Prescriptive	Premium Efficiency Motor	Motors	8	8	8	8	8	8	9	9	9	9
721	C&I Prescriptive	Premium Efficiency Motor	Motors	7	7	7	7	8	8	8	8	8	9
722	C&I Prescriptive	Premium Efficiency Motor	Motors	6	7	7	7	7	7	7	8	8	8
723	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	6	7	7	7	7	7
724	C&I Prescriptive	Premium Efficiency Motor	Motors	5	5	5	5	5	5	5	5	5	6
725	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	4	4	4	5	5	5	5	5
726	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	3	3	3	3	3	3	3	3
727	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	2	2	2	2	2
728	C&I Prescriptive	Premium Efficiency Motor	Motors	3	4	4	4	4	4	4	4	4	4
729	C&I Prescriptive	Premium Efficiency Motor	Motors	7	7	8	8	8	8	8	8	9	9
730	C&I Prescriptive	Premium Efficiency Motor	Motors	7	7	7	7	8	8	8	8	8	9
731	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	6	7	7	7	7	7
732	C&I Prescriptive	Premium Efficiency Motor	Motors	5	5	5	5	6	6	6	6	6	6
733	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	4	4	4	4	4	4	4	4
734	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	2	2	2	2	2
735	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	2	2	2	2
736	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
737	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
738	C&I Prescriptive	Premium Efficiency Motor	Motors	27	28	28	29	30	30	31	32	33	33
739	C&I Prescriptive	Premium Efficiency Motor	Motors	33	34	35	35	36	37	38	39	40	41
740	C&I Prescriptive	Premium Efficiency Motor	Motors	29	30	30	31	32	32	33	34	35	36
741	C&I Prescriptive	Premium Efficiency Motor	Motors	28	29	30	30	31	32	32	33	34	35
742	C&I Prescriptive	Premium Efficiency Motor	Motors	24	24	25	26	26	27	27	28	29	29
743	C&I Prescriptive	Premium Efficiency Motor	Motors	24	24	25	25	26	26	27	28	28	29
744	C&I Prescriptive	Premium Efficiency Motor	Motors	18	19	19	20	20	21	21	21	22	22
745	C&I Prescriptive	Premium Efficiency Motor	Motors	18	19	19	20	20	20	21	21	22	22
746	C&I Prescriptive	Premium Efficiency Motor	Motors	13	13	13	14	14	14	15	15	15	16
747	C&I Prescriptive	Premium Efficiency Motor	Motors	9	9	9	9	10	10	10	10	11	11
748	C&I Prescriptive	Premium Efficiency Motor	Motors	16	16	16	17	17	18	18	18	19	19
749	C&I Prescriptive	Premium Efficiency Motor	Motors	31	32	32	33	34	35	35	36	37	38
750	C&I Prescriptive	Premium Efficiency Motor	Motors	25	25	26	26	27	28	28	29	29	30
751	C&I Prescriptive	Premium Efficiency Motor	Motors	20	21	21	22	22	23	23	24	25	25
752	C&I Prescriptive	Premium Efficiency Motor	Motors	17	18	18	19	19	19	20	20	21	21
753	C&I Prescriptive	Premium Efficiency Motor	Motors	15	15	15	16	16	16	17	17	17	18
754	C&I Prescriptive	Premium Efficiency Motor	Motors	8	8	8	8	8	8	9	9	9	9
755	C&I Prescriptive	Premium Efficiency Motor	Motors	7	7	7	7	7	8	8	8	8	8
756	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	6	7	7	7	7	7
757	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	6	6	7	7	7	7
758	C&I Prescriptive	Premium Efficiency Motor	Motors	17	18	18	19	19	19	20	20	21	21
759	C&I Prescriptive	Premium Efficiency Motor	Motors	38	39	40	40	41	42	43	44	45	46
760	C&I Prescriptive	Premium Efficiency Motor	Motors	34	34	35	36	37	38	39	40	40	41
761	C&I Prescriptive	Premium Efficiency Motor	Motors	37	37	38	39	40	41	42	43	44	45
762	C&I Prescriptive	Premium Efficiency Motor	Motors	28	28	29	30	30	31	32	32	33	34
763	C&I Prescriptive	Premium Efficiency Motor	Motors	29	29	30	31	32	32	33	34	35	35
764	C&I Prescriptive	Premium Efficiency Motor	Motors	20	21	21	22	22	23	23	24	24	25
765	C&I Prescriptive	Premium Efficiency Motor	Motors	21	21	22	22	23	23	24	24	25	25
766	C&I Prescriptive	Premium Efficiency Motor	Motors	9	10	10	10	10	10	11	11	11	11
767	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	6	6	6	7	7	7
768	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	7	7	7	7	7	7
769	C&I Prescriptive	Premium Efficiency Motor	Motors	24	24	25	25	26	26	27	28	28	29
770	C&I Prescriptive	Premium Efficiency Motor	Motors	27	28	28	29	29	30	31	32	32	33

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
771	C&I Prescriptive	Premium Efficiency Motor	Motors	22	22	23	23	24	24	25	25	26	27
772	C&I Prescriptive	Premium Efficiency Motor	Motors	18	18	19	19	19	20	20	21	21	22
773	C&I Prescriptive	Premium Efficiency Motor	Motors	14	15	15	15	16	16	16	17	17	17
774	C&I Prescriptive	Premium Efficiency Motor	Motors	6	6	6	6	7	7	7	7	7	7
775	C&I Prescriptive	Premium Efficiency Motor	Motors	5	5	5	5	6	6	6	6	6	6
776	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	3	3	3	3	3	3	3
777	C&I Prescriptive	Premium Efficiency Motor	Motors	3	3	3	3	3	3	3	3	3	3
778	C&I Custom	Compressed Air-O&M	All systems	26,974,312	27,594,721	28,229,399	28,878,679	29,542,885	30,222,372	30,917,486	31,628,588	32,356,046	33,100,235
779	C&I Custom	Compressed Air - Controls	All systems	8,991,437	9,198,240	9,409,800	9,626,225	9,847,628	10,074,124	10,305,829	10,542,863	10,785,349	11,033,412
780	C&I Custom	Compressed Air - System Optimization	All systems	17,982,874	18,396,481	18,819,600	19,252,450	19,695,257	20,148,248	20,611,657	21,085,726	21,570,697	22,066,823
781	C&I Custom	Compressed Air- Sizing	All systems	14,386,300	14,717,184	15,055,680	15,401,960	15,756,205	16,118,598	16,489,326	16,868,580	17,256,558	17,653,459
782	C&I Custom	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custom	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custom	Comp Air - Motor practices-1 (1-5 HP)	All systems	306,131	313,172	320,374	327,743	335,281	342,993	350,881	358,952	367,208	375,653
785	C&I Custom	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custom	Comp Air - ASD (6-100 hp)	All systems	14,564,693	14,899,681	15,242,373	15,592,948	15,951,586	16,318,472	16,693,797	17,077,755	17,470,543	17,872,365
787	C&I Custom	Comp Air - Motor practices-1 (6-100 HP)	All systems	9,140,829	9,351,068	9,566,143	9,786,164	10,011,246	10,241,504	10,477,059	10,718,031	10,964,546	11,216,731
788	C&I Custom	Comp Air - Replace 100+ HP motor	All systems	7,084,663	7,247,611	7,414,306	7,584,835	7,759,286	7,937,750	8,120,318	8,307,085	8,498,148	8,693,605
789	C&I Custom	Comp Air - ASD (100+ hp)	All systems	35,546,149	36,363,710	37,200,075	38,055,677	38,930,958	39,826,370	40,742,376	41,679,451	42,638,078	43,618,754
790	C&I Custom	Comp Air - Motor practices-1 (100+ HP)	All systems	35,546,149	36,363,710	37,200,075	38,055,677	38,930,958	39,826,370	40,742,376	41,679,451	42,638,078	43,618,754
791	C&I Custom	Power recovery	All systems	4,413,913	4,515,433	4,619,288	4,725,531	4,834,218	4,945,405	5,059,150	5,175,510	5,294,547	5,416,322
792	C&I Custom	Refinery Controls	All systems	17,689,377	18,096,233	18,512,446	18,938,232	19,373,812	19,819,409	20,275,256	20,741,587	21,218,643	21,706,672
793	C&I Custom	Energy Star Transformers	All systems	44,814	45,845	46,899	47,978	49,081	50,210	51,365	52,546	53,755	54,991
794	C&I Custom	Fans - O&M	All systems	17,982,874	18,396,481	18,819,600	19,252,450	19,695,257	20,148,248	20,611,657	21,085,726	21,570,697	22,066,823
795	C&I Custom	Fans - Controls	All systems	4,259,355	4,357,320	4,457,538	4,560,061	4,664,943	4,772,237	4,881,998	4,994,284	5,109,152	5,226,663
796	C&I Custom	Fans - System Optimization	All systems	2,860,929	2,926,730	2,994,045	3,062,908	3,133,355	3,205,422	3,279,147	3,354,567	3,431,722	3,510,652
797	C&I Custom	Fans - Improve components	All systems	7,193,150	7,358,592	7,527,840	7,700,980	7,878,103	8,059,299	8,244,663	8,434,290	8,628,279	8,826,729
798	C&I Custom	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custom	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custom	Fans - Motor practices-1 (1-5 HP)	All systems	306,131	313,172	320,374	327,743	335,281	342,993	350,881	358,952	367,208	375,653
801	C&I Custom	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custom	Fans - ASD (6-100 hp)	All systems	14,564,693	14,899,681	15,242,373	15,592,948	15,951,586	16,318,472	16,693,797	17,077,755	17,470,543	17,872,365
803	C&I Custom	Fans - Motor practices-1 (6-100 HP)	All systems	9,140,829	9,351,068	9,566,143	9,786,164	10,011,246	10,241,504	10,477,059	10,718,031	10,964,546	11,216,731
804	C&I Custom	Fans - Replace 100+ HP motor	All systems	7,084,663	7,247,611	7,414,306	7,584,835	7,759,286	7,937,750	8,120,318	8,307,085	8,498,148	8,693,605
805	C&I Custom	Fans - ASD (100+ hp)	All systems	35,546,149	36,363,710	37,200,075	38,055,677	38,930,958	39,826,370	40,742,376	41,679,451	42,638,078	43,618,754
806	C&I Custom	Fans - Motor practices-1 (100+ HP)	All systems	35,546,149	36,363,710	37,200,075	38,055,677	38,930,958	39,826,370	40,742,376	41,679,451	42,638,078	43,618,754
807	C&I Custom	Optimize drying process	All systems	11,129,440	11,385,418	11,647,282	11,915,170	12,189,219	12,469,571	12,756,371	13,049,767	13,349,912	13,656,960
808	C&I Custom	Pumps - O&M	All systems	14,386,300	14,717,184	15,055,680	15,401,960	15,756,205	16,118,598	16,489,326	16,868,580	17,256,558	17,653,459
809	C&I Custom	Pumps - Controls	All systems	12,588,012	12,877,536	13,173,720	13,476,715	13,786,680	14,103,773	14,428,160	14,760,008	15,099,488	15,446,776
810	C&I Custom	Pumps - System Optimization	All systems	8,418,684	8,612,313	8,810,396	9,013,036	9,220,335	9,432,403	9,649,348	9,871,283	10,098,323	10,330,584
811	C&I Custom	Pumps - Sizing	All systems	7,193,150	7,358,592	7,527,840	7,700,980	7,878,103	8,059,299	8,244,663	8,434,290	8,628,279	8,826,729
812	C&I Custom	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custom	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custom	Pumps - Motor practices-1 (1-5 HP)	All systems	306,131	313,172	320,374	327,743	335,281	342,993	350,881	358,952	367,208	375,653
815	C&I Custom	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custom	Pumps - ASD (6-100 hp)	All systems	14,564,693	14,899,681	15,242,373	15,592,948	15,951,586	16,318,472	16,693,797	17,077,755	17,470,543	17,872,365
817	C&I Custom	Pumps - Motor practices-1 (6-100 HP)	All systems	9,140,829	9,351,068	9,566,143	9,786,164	10,011,246	10,241,504	10,477,059	10,718,031	10,964,546	11,216,731
818	C&I Custom	Pumps - Replace 100+ HP motor	All systems	7,084,663	7,247,611	7,414,306	7,584,835	7,759,286	7,937,750	8,120,318	8,307,085	8,498,148	8,693,605
819	C&I Custom	Pumps - ASD (100+ hp)	All systems	35,546,149	36,363,710	37,200,075	38,055,677	38,930,958	39,826,370	40,742,376	41,679,451	42,638,078	43,618,754
820	C&I Custom	Pumps - Motor practices-1 (100+ HP)	All systems	35,546,149	36,363,710	37,200,075	38,055,677	38,930,958	39,826,370	40,742,376	41,679,451	42,638,078	43,618,754
821	C&I Custom	Efficient refrigeration - operations	Refrigeration	245,952	251,609	257,396	263,316	269,372	275,568	281,906	288,389	295,022	301,808
822	C&I Custom	Optimization refrigeration	Refrigeration	32,646	33,397	34,165	34,951	35,755	36,577	37,418	38,279	39,159	40,060
823	C&I Custom	Bakery - process	Process	78,790	80,602	82,456	84,352	86,292	88,277	90,307	92,384	94,509	96,683
824	C&I Custom	Bakery - process (mixing)	Process	116,669	119,353	122,098	124,906	127,779	130,718	133,724	136,800	139,946	143,165
825	C&I Custom	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custom	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custom	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custom	O&M - extruders / injection molding	Machine Drive	949,069	970,897	993,228	1,016,072	1,039,442	1,063,349	1,087,806	1,112,826	1,138,421	1,164,604
829	C&I Custom	Extruders / injection molding - multipump	Machine Drive	162,422	166,157	169,979	173,888	177,888	181,979	186,165	190,447	194,827	199,308
830	C&I Custom	Direct drive extruders	Machine Drive	10,805	11,053	11,307	11,568	12,106	12,384	12,669	12,960	13,259	13,567
831	C&I Custom	Injection molding - impulse cooling	Machine Drive	101,514	103,848	106,237	108,680	111,180	113,737	116,353	119,029	121,767	124,567
832	C&I Custom	Injection molding - direct drive	Machine Drive	49,765	50,910	52,081	53,279	54,504	55,758	57,040	58,352	59,694	61,067
833	C&I Custom	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custom	Process controls	Process	421,674	431,372	441,294	451,444	461,827	472,449	483,315	494,432	505,803	517,437
835	C&I Custom	Top-heating (glass)	Process Heating	127,219	130,145	133,139	136,201	139,334	142,538	145,817	149,170	152,601	156,111
836	C&I Custom	Process controls	Process	11,060,514	11,314,905	11,575,148	11,841,377	12,113,728	12,392,344	12,677,368	12,968,947	13,267,233	13,572,380
837	C&I Custom	Efficient electric melting	Process Heating	444,402	454,623	465,079	475,776	486,719	497,914	509,366	521,081	533,066	545,326
838	C&I Custom	Near net shape casting	Machine Drive	320,981	328,364	335,916	343,642	351,546	359,631	367,903	376,365	385,021	393,877
839	C&I Custom	Optimization process (M&T)	Process	108,492	110,987	113,540	116,151	118,823	121,556	124,351	127,211	130,137	133,130
840	C&I Custom	Scheduling	Process	55,004	56,269	57,563	58,887	60,242	61,627	63,045	64,495	65,978	67,496
841	C&I Custom	Efficient curing ovens	Process Heating	11,483	11,747	12,017	12,293	12,576	12,865	13,161	13,464	13,774	14,091
842	C&I Custom	Machinery	Machine Drive	93,750	95,906	98,112	100,369	102,677	105,039	107,455	109,926	112,454	115,041
843	C&I Custom	Optimization process (M&T)	Process	46,378	47,445	48,536	49,652	50,794	51,963	53,158	54,380	55,631	56,911
844	C&I Custom	Scheduling	Process	23,513	24,054	24,607	25,173	25,752	26,345	26,950	27,567	28,204	28,853
845	C&I Custom	Efficient curing ovens	Process Heating	1,705	1,745	1,785	1,826	1,868	1,911	1,955	2,000	2,046	2,093
846	C&I Custom	Machinery	Machine Drive	99,027	101,304	103,634	106,018	108,456	110,951	113,503	116,113	118,784	121,516
847	C&I Custom	Optimization process (M&T)	Process	34,157	34,943	35,747	36,569	37,410	38,270	39,150	40,051	40,972	41,914

2: Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
848	C&I Custom	Scheduling	Process	21,647	22,145	22,654	23,175	23,708	24,253	24,811	25,382	25,966	26,563
849	C&I Custom	Efficient curing ovens	Process Heating	2,854	2,920	2,987	3,056	3,126	3,198	3,271	3,346	3,423	3,502
850	C&I Custom	Machinery	Machine Drive	29,042	29,710	30,393	31,092	31,807	32,539	33,287	34,053	34,836	35,637
851	C&I Custom	Scheduling	Process	27,397	28,027	28,672	29,331	30,006	30,696	31,402	32,125	32,863	33,619
852	C&I Custom	Efficient curing ovens	Process Heating	5,156	5,275	5,396	5,520	5,647	5,777	5,910	6,046	6,185	6,327
853	C&I Custom	Machinery	Machine Drive	12,693	12,985	13,283	13,589	13,902	14,221	14,548	14,883	15,225	15,575
854	C&I Custom	Efficient processes (welding, etc.)	Process	35,813	36,637	37,480	38,342	39,224	40,126	41,049	41,993	42,959	43,947
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	4,530	4,634	4,741	4,850	4,962	5,076	5,193	5,312	5,434	5,559
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart	All systems	1,790	1,831	1,873	1,916	1,960	2,005	2,052	2,099	2,147	2,196
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart	All systems	863	882	903	923	945	966	989	1,011	1,035	1,058
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
865	Commercial Demand Credit	Commercial Demand Credit	All systems	80	80	80	80	80	80	80	80	80	80
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

3: Cumulative Installations

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	1,351	3,132	5,424	8,287	11,216	14,213	17,279	20,415	23,623
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	253	588	1,017	1,554	2,104	2,666	3,241	3,829	4,431
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	143	332	575	879	1,190	1,508	1,833	2,166	2,506
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	1,004	2,328	4,031	6,159	8,337	10,564	12,843	15,173	17,558
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	653	1,514	2,622	4,006	5,422	6,871	8,353	9,869	11,420
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	125	289	500	764	1,034	1,310	1,593	1,882	2,178
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	104	241	417	637	863	1,093	1,329	1,570	1,817
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	0	713	1,653	2,862	4,373	5,918	7,499	9,117	10,771	12,464
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	0	210	487	842	1,287	1,742	2,208	2,684	3,171	3,669
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	0	108	250	433	661	895	1,134	1,379	1,629	1,885
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	0	1,460	3,386	5,863	8,958	12,124	15,364	18,677	22,067	25,535
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	0	274	635	1,099	1,679	2,273	2,880	3,501	4,137	4,787
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	0	155	359	622	950	1,285	1,629	1,980	2,339	2,707
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	1,218	2,825	4,892	7,475	10,117	12,820	15,586	18,414	21,308
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	1,522	3,528	6,110	9,336	12,636	16,012	19,465	22,998	26,612
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	285	662	1,146	1,751	2,370	3,003	3,651	4,314	4,992
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	161	374	648	990	1,340	1,699	2,065	2,440	2,823
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	825	1,914	3,314	5,064	6,854	8,854	10,854	12,854	14,854
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	155	359	622	950	1,286	1,629	1,980	2,339	2,707
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	90	209	363	554	750	950	1,150	1,350	1,550
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	1,258	2,918	5,053	7,721	10,450	13,169	15,888	18,607	21,326
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	139	327	577	901	1,311	1,731	2,159	2,598	3,047	3,506
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	30	71	125	195	284	374	467	562	659	758
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	17	39	69	107	156	206	257	309	362	417
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	111	261	460	719	1,045	1,380	1,722	2,071	2,429	2,795
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	30	71	125	195	284	374	467	562	659	758
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	14	34	60	93	136	179	223	269	315	363
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	105	246	434	679	988	1,303	1,626	1,957	2,295	2,641
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	26	62	109	171	249	328	409	493	578	665
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	12	29	50	79	115	151	189	227	266	306
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	96	222	384	586	831	1,082	1,339	1,601	1,870	2,145
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	933	2,196	3,876	6,057	8,810	11,627	14,509	17,457	20,472	23,558
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	192	451	797	1,245	1,811	2,390	2,982	3,588	4,207	4,841
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	108	255	450	704	1,024	1,351	1,686	2,029	2,379	2,738
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	563	1,305	2,259	3,452	4,897	6,374	7,886	9,432	11,014	12,633
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	311	623	934	1,245	1,556	1,868	2,179	2,490	2,801	3,113
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	57	115	172	229	287	344	401	459	516	573
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	33	67	100	134	167	201	234	267	301	334
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	372,323	853,823	1,459,163	2,196,879	3,067,412	3,957,966	4,869,004	5,800,995	6,754,422	7,729,778

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	69,841	160,161	273,711	412,093	575,388	742,439	913,332	1,088,156	1,267,000	1,449,958
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	39,496	90,574	154,788	233,045	325,392	419,862	516,505	615,371	716,510	819,976
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	282,880	648,708	1,108,627	1,669,121	2,330,525	3,007,141	3,699,319	4,407,417	5,131,802	5,872,847
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	2,716	6,229	10,645	16,027	22,378	28,875	35,521	42,320	49,276	56,391
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	375	861	1,471	2,215	3,093	3,991	4,910	5,850	6,811	7,795
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	267	612	1,045	1,574	2,197	2,835	3,488	4,156	4,839	5,537
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	2,067	4,741	8,102	12,198	17,032	21,977	27,035	32,210	37,504	42,920
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	779	1,558	2,337	3,115	3,894	4,673	5,452	6,231	7,010	7,788
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	146	292	438	584	730	877	1,023	1,169	1,315	1,461
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	83	165	248	330	413	496	578	661	744	826
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	2,994	7,052	12,445	19,447	28,289	37,334	46,587	56,052	65,736	72,648
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	562	1,323	2,335	3,648	5,306	7,003	8,739	10,514	12,331	13,627
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	318	748	1,320	2,063	3,001	3,960	4,942	5,946	6,973	7,706
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	2,070	4,875	8,604	13,444	19,556	25,809	32,206	38,750	45,444	50,222
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	2,635	6,206	10,952	17,114	24,894	32,854	40,996	49,326	57,848	66,565
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	460	1,083	1,912	2,987	4,345	5,735	7,156	8,610	10,098	11,619
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	260	613	1,081	1,689	2,457	3,243	4,047	4,869	5,710	6,571
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	145	341	602	941	1,369	1,806	2,254	2,712	3,180	3,660
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	1,447	3,408	6,014	9,398	13,671	18,041	22,513	27,087	31,767	36,554
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	304	717	1,265	1,976	2,875	3,794	4,735	5,697	6,681	7,688
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	163	385	679	1,061	1,543	2,036	2,541	3,057	3,585	4,125
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	1,365	3,215	5,673	8,865	12,896	17,019	21,237	25,552	29,966	34,482
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	1,916	4,513	7,965	12,446	18,105	23,894	29,815	35,874	42,071	48,411
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	327	770	1,359	2,124	3,090	4,078	5,089	6,123	7,181	8,263
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	185	436	769	1,201	1,748	2,306	2,878	3,463	4,061	4,673
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	1,456	3,429	6,052	9,456	13,755	18,154	22,653	27,256	31,964	36,781
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	773	1,547	2,320	3,093	3,867	4,640	5,414	6,187	6,960	7,734
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	145	291	436	581	726	872	1,017	1,162	1,307	1,453
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	83	167	250	334	417	501	584	667	751	834
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	123	289	509	796	1,158	1,528	1,907	2,294	2,691	3,096
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	30	71	125	195	284	374	467	562	659	758
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	14	34	60	93	135	179	223	268	315	362
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	76	179	315	492	716	945	1,180	1,419	1,664	1,915
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	28	67	118	184	268	353	441	530	622	715
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	11	26	47	73	106	140	175	210	246	284
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	213	489	836	1,259	1,757	2,268	2,790	3,324	3,870	4,429
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	40	91	155	234	327	421	518	618	719	823
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	30	70	119	180	251	323	398	474	552	632
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	284	650	1,112	1,674	2,337	3,015	3,709	4,419	5,145	5,888
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	33	77	131	197	275	355	437	521	606	694
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	42	95	163	245	342	442	543	647	753	862
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	1,137	2,607	4,456	6,708	9,367	12,086	14,868	17,714	20,625	23,604
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	213	489	836	1,258	1,757	2,267	2,789	3,323	3,869	4,428
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	121	277	473	712	994	1,282	1,577	1,879	2,188	2,504
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	864	1,981	3,385	5,097	7,116	9,183	11,296	13,458	15,670	17,933
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	2,316	5,310	9,075	13,663	19,077	24,616	30,282	36,078	42,008	48,074
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	434	996	1,702	2,563	3,579	4,617	5,680	6,768	7,880	9,018
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	246	563	963	1,449	2,024	2,611	3,212	3,827	4,456	5,100
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	1,538	3,526	6,026	9,073	12,669	16,347	20,109	23,959	27,896	31,925
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	293	680	1,177	1,798	2,551	3,321	3,321	3,321	3,321	3,321
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	22	50	87	134	190	247	247	247	247	247
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	1,007	2,015	3,022	4,030	5,037	6,045	7,052	8,060	9,067	10,075
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	867	1,733	2,600	3,467	4,334	5,200	6,067	6,934	7,801	8,667
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	768	1,535	2,303	3,070	3,838	4,605	5,373	6,141	6,908	7,676
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	8,049	16,098	24,147	32,196	40,245	48,294	56,343	64,393	72,442	80,491
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	23,045	29,968	37,928	46,579	51,608	52,795	54,009	55,251	56,522
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	23,045	29,968	37,928	46,579	51,608	52,795	54,009	55,251	56,522
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	23,045	29,968	37,928	46,579	51,608	52,795	54,009	55,251	56,522
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,937	23,045	29,968	37,928	46,579	51,608	52,795	54,009	55,251	56,522
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,304	3,023	5,235	8,000	11,346	14,770	18,273	21,856	25,522	29,272
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,542	3,576	6,193	9,463	13,422	17,472	21,615	25,853	30,189	34,625
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,620	3,757	6,505	9,940	14,099	18,353	22,706	27,158	31,713	36,372
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,656	3,841	6,651	10,162	14,414	18,764	23,213	27,765	32,422	37,185
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	791	1,834	3,176	4,852	6,882	8,959	11,083	13,257	15,480	17,755
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	946	2,193	3,797	5,802	8,230	10,713	13,254	15,853	18,512	21,232
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	387	897	1,554	2,374	3,367	4,383	5,423	6,486	7,574	8,687
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	69	160	276	422	599	779	964	1,153	1,347	1,545
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	701	1,625	2,813	4,299	6,097	7,937	9,820	11,745	13,715	15,730
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	372	863	1,494	2,283	3,239	4,216	5,216	6,239	7,285	8,356
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	18	41	71	108	153	199	246	294	344	394
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	24	41	63	89	116	143	171	200	230
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	16	37	64	97	138	179	222	265	310	356
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	23	40	61	87	114	140	168	196	225
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	7	17	29	44	62	81	100	119	132	143
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	5	13	22	34	48	62	77	92	108	123
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	6	13	23	35	49	64	79	95	111	127
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	5	11	20	30	43	55	69	82	96	110
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	5	11	20	30	43	56	69	83	97	111
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	76	174	298	449	627	809	995	1,186	1,380	1,580
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	431	988	1,688	2,542	3,549	4,579	5,633	6,712	7,815	8,943
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	73	168	287	433	604	779	959	1,142	1,330	1,522
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	466	1,069	1,826	2,749	3,839	4,954	6,094	7,260	8,453	9,674
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	112	257	438	660	922	1,189	1,463	1,743	2,030	2,323
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	412	854	1,328	1,426	1,530	1,614	1,677	1,715	1,755	1,795
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,283	2,662	4,142	4,447	4,771	5,033	5,227	5,347	5,470	5,596
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	239	495	771	827	888	936	972	995	1,018	1,041
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,243	2,578	4,011	4,306	4,620	4,874	5,062	5,178	5,297	5,419
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	808	1,676	2,608	2,800	3,004	3,169	3,291	3,367	3,444	3,523
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	721	1,495	2,327	2,498	2,680	2,828	2,936	3,004	3,073	3,144
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	330	685	1,065	1,144	1,227	1,295	1,345	1,376	1,407	1,440
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	540	1,121	1,745	1,873	2,010	2,120	2,202	2,252	2,304	2,357
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,291	2,678	4,168	4,475	4,801	5,065	5,260	5,381	5,505	5,631
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	351	728	1,132	1,216	1,304	1,376	1,429	1,462	1,495	1,530
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,332	2,763	4,300	4,616	4,953	5,225	5,426	5,551	5,679	5,809
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	873	1,810	2,817	3,025	3,245	3,423	3,555	3,637	3,721	3,806
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	308	639	995	1,068	1,146	1,209	1,256	1,285	1,314	1,344
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	1,283	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	972	995	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	26	53	83	114	148	183	219	255	292	330
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	109	225	351	485	629	777	928	1,082	1,240	1,402
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	5	9	15	20	27	33	39	46	52	59
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	61	126	196	271	352	435	519	605	694	784
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	141	292	455	630	817	1,008	1,204	1,404	1,609	1,819
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	20	42	65	90	116	144	172	200	229	259
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	114	236	368	509	660	814	973	1,134	1,300	1,469
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	31	65	101	139	180	223	266	310	355	402
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2	4	6	9	11	14	17	20	23	25
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	80	166	258	357	463	572	683	796	912	1,031
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	260	539	839	1,161	1,507	1,860	2,221	2,590	2,968	3,355
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	293	672	1,148	1,729	2,414	3,115	3,832	4,565	5,316	6,083
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	161	369	631	950	1,326	1,711	2,104	2,507	2,919	3,341
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	144	331	566	852	1,190	1,535	1,889	2,250	2,620	2,998
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	642	1,471	2,514	3,786	5,286	6,821	8,390	9,996	11,639	13,320
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	221	506	865	1,303	1,819	2,347	2,887	3,439	4,005	4,583
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	621	1,425	2,435	3,666	5,119	6,605	8,125	9,680	11,271	12,899
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	399	916	1,565	2,356	3,289	4,244	5,221	6,221	7,243	8,289

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	134	307	524	789	1,102	1,422	1,750	2,085	2,427	2,778
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	2	5	8	11	14	17	20	24	27	31
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	2	5	8	11	14	17	20	23	27	30
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	0	1	1	2	2	2	3	3	4	4
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	10	21	33	46	60	74	88	103	118	133
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	0	1	1	1	2	2	3	3	4	4
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2	5	8	11	14	17	20	24	27	31
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1	3	5	7	9	11	13	15	17	19
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4	8	12	17	21	26	32	37	42	48
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2	5	8	11	14	17	20	23	27	30
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	0	1	1	2	2	2	3	3	4	4
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	10	21	33	46	60	74	88	103	118	133
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	13	26	41	57	74	91	109	127	145	164
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4	9	14	19	25	30	36	42	48	55
323	C&I Prescriptive	VAV	Chiller & Boiler	354	813	1,389	2,091	2,919	3,767	4,634	5,521	6,428	7,356
324	C&I Prescriptive	VAV	Chiller & Boiler	364	834	1,426	2,146	2,997	3,867	4,757	5,667	6,599	7,552
325	C&I Prescriptive	VAV	Chiller & Boiler	131	301	514	775	1,081	1,395	1,717	2,045	2,381	2,725
326	C&I Prescriptive	VAV	Chiller & Boiler	593	1,360	2,325	3,500	4,887	6,306	7,757	9,242	10,761	12,315
327	C&I Prescriptive	VAV	Chiller & Boiler	529	1,212	2,072	3,120	4,356	5,620	6,914	8,237	9,591	10,976
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	354	813	1,389	2,091	2,919	3,767	4,634	5,521	6,428	7,356
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	131	301	515	775	1,082	1,396	1,717	2,046	2,382	2,726
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	56	128	219	330	461	595	732	872	1,015	1,162
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	415	952	1,627	2,449	3,420	4,412	5,428	6,467	7,530	8,617
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	629	1,442	2,464	3,709	5,179	6,682	8,221	9,794	11,404	13,051
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	451	1,034	1,768	2,662	3,716	4,795	5,899	7,028	8,183	9,365
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	417	956	1,634	2,460	3,435	4,432	5,452	6,495	7,563	8,655
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2	6	10	15	21	26	33	39	45	52
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	285	653	1,116	1,680	2,346	3,027	3,724	4,437	5,166	5,912
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	76	174	298	448	626	808	994	1,184	1,378	1,577
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	413	947	1,618	2,436	3,401	4,389	5,399	6,432	7,489	8,571
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	302	693	1,184	1,782	2,488	3,210	3,949	4,705	5,479	6,270
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	655	1,503	2,568	3,867	5,399	6,966	8,570	10,210	11,888	13,605
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	285	653	1,116	1,680	2,346	3,027	3,724	4,437	5,166	5,912
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	71	164	280	421	588	758	933	1,111	1,294	1,481
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	413	947	1,618	2,436	3,401	4,389	5,399	6,432	7,489	8,571
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	529	1,235	2,111	3,178	4,437	5,725	7,043	8,391	9,770	11,181
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	13	26	39	51	64	77	90	103	116	128
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	771	1,769	3,022	3,779	4,585	5,176	5,535	5,662	5,792	5,925
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	906	2,078	3,551	4,441	5,387	6,082	6,503	6,653	6,806	6,963
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	936	2,147	3,669	4,588	5,567	6,284	6,720	6,874	7,032	7,194
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,006	2,308	3,944	4,932	5,983	6,754	7,223	7,389	7,559	7,733
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	56	129	220	331	462	597	734	874	1,018	1,165
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	110	253	433	652	910	1,174	1,444	1,721	2,004	2,293
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	135	309	528	795	1,110	1,432	1,762	2,099	2,444	2,796
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	163	375	640	964	1,346	1,737	2,137	2,546	2,965	3,393
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	74	96	121	147	174	178	182	186	190	195
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	80	103	130	159	187	191	196	200	205	210
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	81	105	132	161	190	194	199	203	208	213
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	84	109	137	166	196	201	206	210	215	220
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	8	14	21	29	37	46	54	63	73
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	33	42	52	62	72	83
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	33	42	52	62	72	83
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	33	42	52	62	72	83
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	394	904	1,150	1,421	1,702	1,864	1,907	1,950	1,995	2,041
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	431	988	1,257	1,553	1,860	2,037	2,084	2,132	2,181	2,231
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	438	1,005	1,280	1,582	1,894	2,074	2,122	2,170	2,220	2,271
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	456	1,046	1,332	1,646	1,971	2,158	2,208	2,258	2,310	2,364
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	33	76	130	196	274	354	435	518	604	691
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	102	174	261	365	471	579	690	804	920
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	102	174	261	365	471	579	690	804	920
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	102	174	261	365	471	579	690	804	920
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,338	1,730	2,175	2,651	3,128	3,200	3,274	3,349	3,426	3,505
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,403	1,815	2,282	2,780	3,281	3,357	3,434	3,513	3,594	3,676
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,417	1,832	2,304	2,808	3,313	3,389	3,467	3,547	3,628	3,712
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,448	1,872	2,353	2,868	3,385	3,462	3,542	3,623	3,707	3,792
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	151	258	389	543	701	862	1,027	1,196	1,368
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	151	258	389	543	701	862	1,027	1,196	1,368
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	151	258	389	543	701	862	1,027	1,196	1,368
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	71	163	278	418	584	754	927	1,105	1,286	1,472
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,358	3,049	3,834	4,672	5,513	5,640	5,770	5,903	6,038	6,177
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,528	3,269	4,110	5,009	5,910	6,046	6,185	6,328	6,473	6,622
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,564	3,316	4,168	5,080	5,994	6,132	6,273	6,418	6,565	6,716
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,645	3,420	4,300	5,240	6,184	6,326	6,472	6,620	6,773	6,928
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	115	265	452	681	951	1,227	1,509	1,798	2,094	2,396
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	125	286	488	735	1,026	1,324	1,629	1,941	2,260	2,587
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	125	286	488	735	1,026	1,324	1,629	1,941	2,260	2,587
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	125	286	488	735	1,026	1,324	1,629	1,941	2,260	2,587

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	312	715	1,222	1,528	1,854	2,093	2,238	2,290	2,343	2,396
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	364	834	1,425	1,782	2,162	2,441	2,610	2,670	2,731	2,794
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	375	860	1,470	1,838	2,230	2,518	2,692	2,754	2,818	2,883
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	402	921	1,575	1,969	2,389	2,697	2,884	2,950	3,018	3,087
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	24	55	94	142	198	256	315	375	437	500
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	46	105	180	271	378	488	600	715	832	953
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	55	127	217	327	457	589	725	864	1,005	1,151
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	65	148	254	382	533	688	846	1,008	1,174	1,343
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	367	842	1,440	1,800	2,184	2,465	2,636	2,697	2,759	2,822
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	435	997	1,704	2,131	2,585	2,918	3,121	3,193	3,266	3,341
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	450	1,032	1,764	2,205	2,675	3,020	3,230	3,304	3,380	3,458
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	485	1,113	1,902	2,378	2,885	3,257	3,483	3,563	3,645	3,729
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	25	58	99	149	208	268	330	393	458	524
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	51	118	201	303	422	545	670	799	930	1,064
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	63	145	247	372	520	671	825	983	1,145	1,310
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	77	177	303	456	636	821	1,010	1,204	1,401	1,604
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	845	1,938	2,467	3,049	3,651	3,998	4,090	4,184	4,280	4,378
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	941	2,158	2,747	3,395	4,066	4,452	4,554	4,659	4,766	4,876
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	962	2,206	2,808	3,470	4,155	4,550	4,655	4,762	4,872	4,984
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,009	2,315	2,947	3,641	4,360	4,775	4,885	4,997	5,112	5,229
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	62	142	242	365	509	657	808	963	1,121	1,283
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	97	223	381	573	800	1,032	1,270	1,513	1,762	2,016
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	101	231	396	595	831	1,073	1,320	1,572	1,831	2,095
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	101	231	396	595	831	1,073	1,320	1,572	1,831	2,095
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	563	1,291	2,206	2,758	3,346	3,777	4,039	4,132	4,227	4,324
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	665	1,526	2,608	3,261	3,956	4,465	4,775	4,885	4,997	5,112
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	688	1,579	2,698	3,373	4,092	4,620	4,940	5,054	5,170	5,289
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	742	1,701	2,907	3,635	4,411	4,979	5,324	5,447	5,572	5,700
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	39	90	153	231	322	416	511	609	709	812
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	79	181	309	466	650	839	1,032	1,230	1,432	1,639
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	97	222	380	572	799	1,031	1,268	1,511	1,759	2,014
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	119	272	465	699	977	1,260	1,550	1,847	2,150	2,461
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,167	9,556	12,163	15,031	17,999	19,709	20,163	20,626	21,101	21,586
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,601	10,551	13,430	16,596	19,873	21,762	22,262	22,774	23,298	23,834
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,694	10,765	13,703	16,933	20,277	22,204	22,714	23,237	23,771	24,318
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,907	11,253	14,324	17,700	21,196	23,210	23,744	24,290	24,848	25,420
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	325	746	1,275	1,920	2,681	3,459	4,255	5,070	5,903	6,756
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	484	1,110	1,897	2,856	3,988	5,145	6,330	7,541	8,781	10,049
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	484	1,110	1,897	2,856	3,988	5,145	6,330	7,541	8,781	10,049
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	484	1,110	1,897	2,856	3,988	5,145	6,330	7,541	8,781	10,049
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	833	1,911	3,265	4,916	6,864	8,856	10,895	12,980	15,114	17,296
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,713	3,929	6,715	10,110	14,116	18,214	22,407	26,696	31,084	35,572
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	751	1,722	2,942	4,429	6,185	7,980	9,817	11,696	13,619	15,585
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	48	109	186	280	392	505	621	740	862	987
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,006	2,307	3,942	5,935	8,286	10,692	13,153	15,671	18,247	20,882
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,243	2,850	4,870	7,333	10,238	13,211	16,252	19,362	22,545	25,800
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	14	33	57	86	119	154	190	226	263	301
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	26	61	104	156	218	281	346	412	479	549
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	19	43	74	111	155	200	246	293	341	391
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	42	97	166	249	348	449	552	658	766	877
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	9	21	35	53	74	95	117	139	162	186
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	8	14	21	29	37	46	54	63	72
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	156	357	610	919	1,283	1,656	2,037	2,427	2,826	3,234
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	217	497	850	1,279	1,786	2,304	2,835	3,377	3,932	4,500
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	87	199	340	512	714	922	1,134	1,351	1,573	1,800
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	12	28	47	71	99	128	157	187	218	249
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	151	346	591	890	1,242	1,603	1,972	2,349	2,736	3,131
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	77	176	300	452	631	814	1,001	1,193	1,389	1,589
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	123	282	481	724	1,011	1,305	1,605	1,913	2,227	2,549
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	99	227	389	585	817	1,054	1,297	1,545	1,799	2,059
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	123	282	482	725	1,013	1,307	1,607	1,915	2,230	2,552
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	93	214	365	550	768	991	1,219	1,452	1,690	1,935
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	7	17	29	44	61	78	96	115	134	153
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	5	11	19	28	39	51	62	74	86	99
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	220	505	862	1,299	1,813	2,339	2,878	3,429	3,992	4,569
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	316	725	1,239	1,866	2,605	3,361	4,135	4,926	5,736	6,564
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	132	304	519	781	1,091	1,407	1,731	2,063	2,402	2,749
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	17	38	65	98	137	176	217	259	301	345
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	217	497	849	1,278	1,784	2,302	2,831	3,373	3,928	4,495
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	112	256	438	659	921	1,188	1,461	1,741	2,027	2,320
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	20	45	77	116	162	209	257	306	356	408
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	17	39	66	99	139	179	220	262	305	349
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	20	46	78	118	165	213	262	312	363	416
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	17	39	66	100	139	180	221	263	307	351
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	2	4	7	10	14	18	22	27	31	35
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	2	4	6	9	11	14	17	19	22
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	3,703	8,492	14,513	21,851	30,509	39,367	48,428	57,698	67,181	76,882
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,703	8,492	14,513	21,851	30,509	39,367	48,428	57,698	67,181	76,882
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,481	3,397	5,805	8,740	12,204	15,747	19,371	23,079	26,872	30,753
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	325	744	1,272	1,915	2,674	3,451	4,245	5,058	5,889	6,739
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,963	6,794	11,610	17,480	24,407	31,493	38,742	46,158	53,745	61,505
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,637	3,754	6,415	9,658	13,486	17,401	21,406	25,504	29,696	33,984
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	35	81	139	209	291	376	462	551	641	734
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	19	43	73	110	154	199	245	291	339	388
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	33	75	128	193	269	347	427	508	592	677
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	16	36	61	92	128	166	204	243	283	324
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	7	17	29	44	61	78	97	115	134	153
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	6	13	22	33	46	60	73	87	102	116
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	933	2,140	3,658	5,507	7,690	9,922	12,206	14,542	16,933	19,378
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	933	2,140	3,658	5,507	7,690	9,922	12,206	14,542	16,933	19,378
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	373	856	1,463	2,203	3,076	3,969	4,882	5,817	6,773	7,751
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	80	182	312	469	655	845	1,040	1,239	1,443	1,651
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	747	1,712	2,926	4,406	6,152	7,938	9,765	11,634	13,546	15,502
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	407	933	1,595	2,401	3,352	4,325	5,321	6,339	7,381	8,447
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	30	69	119	179	249	322	396	472	549	629
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	17	38	65	98	137	176	217	258	301	344
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	28	64	110	166	231	299	367	438	510	583
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	14	32	54	82	114	147	181	215	251	287
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	8	17	30	45	63	81	100	119	138	158
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	6	13	22	34	47	61	75	89	104	119
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,078	2,472	4,224	6,360	8,880	11,458	14,095	16,793	19,553	22,377
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,105	4,828	8,251	12,422	17,345	22,380	27,532	32,802	38,193	43,708
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	916	2,102	3,591	5,407	7,550	9,742	11,984	14,278	16,625	19,025
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	64	147	251	378	527	680	837	997	1,161	1,329
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,264	2,898	4,952	7,455	10,410	13,432	16,524	19,686	22,922	26,232
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,376	3,155	5,392	8,119	11,336	14,627	17,994	21,438	24,961	28,566
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	16	38	65	97	136	175	216	257	299	342
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	27	62	106	159	222	287	353	420	489	560
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	21	47	81	122	170	220	270	322	375	429
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	41	94	161	243	339	437	538	641	746	854
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	6	14	24	36	50	64	79	94	110	126
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	6	10	15	21	27	33	39	46	52
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	873	2,003	3,423	5,153	7,195	9,284	11,421	13,608	15,844	18,132
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,706	3,912	6,686	10,066	14,055	18,135	22,309	26,580	30,948	35,417
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	743	1,703	2,910	4,382	6,118	7,894	9,711	11,570	13,471	15,416
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	52	119	203	306	427	551	678	808	941	1,077
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,024	2,348	4,013	6,041	8,435	10,884	13,389	15,952	18,574	21,256
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,115	2,557	4,369	6,579	9,185	11,852	14,580	17,371	20,226	23,147
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	30	68	117	176	245	317	390	464	540	618
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	49	112	191	287	401	518	637	759	884	1,011
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	37	86	146	220	308	397	489	582	678	776
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	74	170	291	439	612	790	972	1,158	1,348	1,543
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	3	7	12	18	25	32	39	47	55	62
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	3	5	7	10	13	16	20	23	26
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	984	2,256	3,855	5,804	8,104	10,456	12,863	15,325	17,844	20,421
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,575	3,611	6,172	9,292	12,974	16,741	20,594	24,536	28,569	32,694
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	668	1,533	2,620	3,944	5,507	7,106	8,742	10,415	12,127	13,878
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	68	156	267	402	562	725	892	1,062	1,237	1,416
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,029	2,361	4,034	6,074	8,480	10,943	13,461	16,038	18,674	21,370
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	689	1,580	2,700	4,064	5,675	7,323	9,008	10,733	12,496	14,301
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	236	542	926	1,393	1,946	2,511	3,088	3,680	4,284	4,903
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	254	583	996	1,500	2,094	2,703	3,325	3,961	4,612	5,278

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	259	594	1,016	1,529	2,135	2,755	3,389	4,038	4,701	5,380
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	324	743	1,270	1,912	2,670	3,445	4,238	5,050	5,880	6,729
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	21	48	83	124	174	224	275	328	382	437
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	11	26	45	67	94	121	149	177	207	236
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	285	653	1,116	1,681	2,347	3,028	3,725	4,438	5,167	5,913
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	602	1,380	2,359	3,552	4,959	6,399	7,871	9,378	10,920	12,496
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	265	607	1,037	1,561	2,180	2,813	3,461	4,123	4,801	5,494
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	16	36	62	94	131	169	208	248	289	330
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	349	801	1,369	2,061	2,877	3,713	4,567	5,441	6,336	7,251
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	461	1,058	1,807	2,721	3,799	4,902	6,031	7,185	8,366	9,574
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	80	183	312	470	656	847	1,041	1,241	1,445	1,653
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	154	352	602	907	1,266	1,634	2,010	2,395	2,788	3,191
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	105	241	413	621	868	1,119	1,377	1,641	1,910	2,186
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	252	577	987	1,486	2,074	2,677	3,293	3,923	4,568	5,228
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	47	107	183	276	385	497	612	729	849	971
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	18	40	69	104	145	187	230	274	319	365
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	4,530	10,388	17,753	26,729	37,320	48,155	59,239	70,579	82,178	94,045
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	6,765	15,514	26,513	39,917	55,735	71,916	88,470	105,404	122,728	140,450
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	2,847	6,528	11,156	16,796	23,452	30,261	37,226	44,352	51,641	59,098
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	332	760	1,299	1,956	2,731	3,524	4,335	5,165	6,014	6,882
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	4,556	10,448	17,856	26,883	37,536	48,433	59,581	70,986	82,653	94,588
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	2,571	5,897	10,077	15,172	21,184	27,335	33,626	40,063	46,648	53,384
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	491	1,126	1,925	2,898	4,047	5,222	6,424	7,653	8,911	10,198
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	457	1,048	1,790	2,695	3,763	4,856	5,974	7,117	8,287	9,483
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	514	1,180	2,016	3,035	4,238	5,469	6,727	8,015	9,332	10,680
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	503	1,155	1,973	2,971	4,148	5,352	6,584	7,845	9,134	10,453
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	93	214	366	551	769	992	1,221	1,454	1,693	1,938
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	55	127	217	326	455	587	723	861	1,002	1,147
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	37	86	147	221	308	398	489	583	642	691
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	38	88	150	227	316	408	502	598	697	797
580	C&I Prescriptive	180W LPS	Lighting - exterior	38	88	150	227	316	408	502	598	697	797
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	12	28	47	71	100	128	158	188	219	251
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	31	70	120	181	253	327	402	479	557	638
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	25	58	99	149	208	269	331	394	459	525
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	38	88	150	227	316	408	502	598	697	797
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	38	88	150	227	316	408	502	598	697	797
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	30	69	119	179	249	322	396	472	549	629
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	31	71	122	184	257	331	407	485	565	647
588	C&I Prescriptive	Premium Efficiency Motor	Motors	7	15	26	39	55	70	87	103	120	137
589	C&I Prescriptive	Premium Efficiency Motor	Motors	12	27	47	70	98	127	156	186	216	247
590	C&I Prescriptive	Premium Efficiency Motor	Motors	8	19	33	49	68	88	108	129	150	172
591	C&I Prescriptive	Premium Efficiency Motor	Motors	9	21	35	53	74	96	118	141	164	188
592	C&I Prescriptive	Premium Efficiency Motor	Motors	9	21	35	53	74	96	118	140	163	187
593	C&I Prescriptive	Premium Efficiency Motor	Motors	8	19	32	48	67	87	106	127	148	169
594	C&I Prescriptive	Premium Efficiency Motor	Motors	6	14	23	35	49	63	77	92	107	123
595	C&I Prescriptive	Premium Efficiency Motor	Motors	4	10	17	26	36	47	57	68	79	91
596	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	13	18	24	29	35	40	46
597	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	4	6	8	10	11	13	15
598	C&I Prescriptive	Premium Efficiency Motor	Motors	3	7	12	17	24	31	38	46	53	61
599	C&I Prescriptive	Premium Efficiency Motor	Motors	8	19	32	49	68	88	108	129	150	172
600	C&I Prescriptive	Premium Efficiency Motor	Motors	7	15	26	39	54	70	86	103	119	137
601	C&I Prescriptive	Premium Efficiency Motor	Motors	5	12	21	31	43	56	69	82	96	109
602	C&I Prescriptive	Premium Efficiency Motor	Motors	6	15	25	38	53	68	84	100	117	133
603	C&I Prescriptive	Premium Efficiency Motor	Motors	4	10	17	26	36	47	57	68	79	91
604	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	12	17	22	27	32	37	42
605	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	7	9	11	13	15	17
606	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	4	6	7	8	10	11
607	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	2	3	4	4	5	6
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use =	: Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	3	7	13	19	27	35	43	51	59	68
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	2	6	10	15	21	26	33	39	45	52
614	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
617	C&I Prescriptive	Domestic hot water circulation pump control	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	251	520	810	1,120	1,453	1,794	2,142	2,498	2,863	3,236
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	44	91	141	195	253	312	373	435	498	563
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	50	103	161	223	289	357	426	497	569	643
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	30	63	98	135	175	216	258	301	345	390
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	22	46	71	99	128	158	189	220	252	285
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	30	63	98	135	175	217	259	302	346	391
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	35	73	113	157	203	251	299	349	400	452
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	45	93	145	200	260	320	383	446	511	578
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	11	22	34	47	61	75	90	105	120	136
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	10	22	34	47	61	75	90	104	120	135
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	78	179	306	461	644	831	1,022	1,218	1,418	1,623
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	32	67	104	144	187	231	276	322	369	417
637	C&I Prescriptive	Replace multiplex air-cooled condenser with	Refrigeration - equipment	74	169	289	435	608	784	965	1,150	1,339	1,532
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	33	77	131	197	275	355	436	520	605	693
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	41	94	161	242	338	437	537	640	745	853
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	40	91	156	235	328	424	521	621	723	827
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	8	18	30	45	64	82	101	120	132	142
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	6	13	23	34	48	61	75	90	99	107
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	105	240	411	619	864	1,115	1,371	1,633	1,902	2,177
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	126	260	405	561	602	637	667	690	706	722
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	400	829	1,291	1,786	1,916	2,030	2,124	2,197	2,247	2,299
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	29	67	115	173	242	312	384	457	532	609
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	488	1,011	1,574	1,690	1,813	1,913	1,986	2,032	2,079	2,126
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	411	853	1,328	1,837	2,383	2,941	3,513	4,097	4,695	5,307
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	556	1,275	2,179	3,281	4,581	5,911	7,272	8,664	10,088	11,544
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	149	342	585	881	1,230	1,587	1,952	2,326	2,708	3,100
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,007	2,309	3,946	4,934	5,986	6,757	7,226	7,392	7,562	7,736
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,180	2,706	4,624	5,782	7,015	7,918	8,468	8,662	8,862	9,065
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,238	2,838	4,850	6,065	7,358	8,306	8,882	9,087	9,296	9,510
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,375	3,154	5,390	6,740	8,177	9,230	9,871	10,098	10,330	10,567
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	38	88	150	226	316	408	502	598	696	796
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	103	237	404	609	850	1,097	1,350	1,608	1,872	2,143
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	138	316	541	814	1,137	1,466	1,804	2,149	2,503	2,864
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	183	420	717	1,080	1,508	1,945	2,393	2,851	3,320	3,799
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	233	535	914	1,376	1,922	2,480	3,051	3,635	4,232	4,843
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	669	1,535	2,623	3,949	5,514	7,115	8,753	10,429	12,143	13,896
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	306	701	1,199	1,805	2,520	3,251	4,000	4,765	5,548	6,350
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	10	24	40	61	85	109	134	160	186	213
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	341	781	1,335	2,010	2,806	3,621	4,454	5,306	6,179	7,071
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	951	2,181	3,727	5,611	7,834	10,109	12,436	14,816	17,251	19,742
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	42	95	163	245	342	442	544	648	754	863
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	153	350	598	901	1,257	1,623	1,996	2,378	2,769	3,169
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	67	155	264	398	556	717	883	1,051	1,224	1,401
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	330	756	1,292	1,945	2,716	3,504	4,310	5,135	5,980	6,843
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	37	84	144	216	302	390	479	571	665	761
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	9	21	36	55	76	98	121	144	168	192
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	2	5	9	13	19	24	29	35	39	42
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	3	7	12	18	25	32	40	48	55	63
690	C&I Prescriptive	180W LPS	Lighting - exterior	4	8	14	21	30	38	47	56	65	75
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	1	1	2	3	5	6	7	9	10	11
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	3	6	11	16	23	30	36	43	51	58
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	2	4	6	9	13	17	21	24	29	33

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	3	7	12	19	26	34	41	49	57	66
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	4	9	15	22	31	40	50	59	69	79
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	2	5	8	12	17	22	27	32	37	42
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	2	5	8	12	17	22	28	33	38	44
698	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	6	9	12	15	19	22	26	30
699	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	12	17	21	26	31	37	42
700	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	10	14	18	22	27	31	35
701	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	10	14	18	23	27	31	36
702	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	6	8	12	15	18	22	26	29
703	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	6	8	12	15	19	22	26	30
704	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	7	9	12	15	18	20	23
705	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	10	13	15	17	20
706	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	4	5	7	8	9	10
707	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	3	3	4	5	6	7
708	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	6	8	10	12	14	16
709	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	10	14	18	22	26	31	35
710	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	6	8	12	15	19	22	26	30
711	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	7	10	13	16	19	22	25
712	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	11	13	16	18	21
713	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	5	7	10	12	14	16	19
714	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	2	3	4	5	6	7	9	10
715	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	2	3	4	4	5	6
716	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	2	2	3	3	3
717	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	2	2	3	3	4
718	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	14	19	25	31	36	42	48
719	C&I Prescriptive	Premium Efficiency Motor	Motors	3	7	12	18	25	32	40	47	55	63
720	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	11	17	23	30	37	44	51	59
721	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	10	15	22	28	34	41	47	54
722	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	14	20	25	31	37	43	50
723	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	13	18	23	28	34	39	45
724	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	10	14	18	22	26	31	35
725	C&I Prescriptive	Premium Efficiency Motor	Motors	2	3	6	9	13	16	20	24	28	32
726	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	5	8	10	12	14	17	19
727	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	4	5	6	8	9	11	13
728	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	8	11	14	17	20	24	27
729	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	11	16	22	29	35	42	49	56
730	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	10	15	21	28	34	41	47	54
731	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	13	18	23	29	34	40	46
732	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	11	16	20	25	29	34	39
733	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	8	11	14	18	21	24	28
734	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	4	6	7	9	11	13	15
735	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	2	3	4	5	6	8	9	10
736	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	3	4	5	5	6	7
737	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	3	4	5	6	6	7
738	C&I Prescriptive	Premium Efficiency Motor	Motors	10	23	40	60	83	108	132	158	184	210
739	C&I Prescriptive	Premium Efficiency Motor	Motors	12	28	48	73	102	131	161	192	224	256
740	C&I Prescriptive	Premium Efficiency Motor	Motors	11	25	42	64	89	115	141	168	196	224
741	C&I Prescriptive	Premium Efficiency Motor	Motors	11	24	41	62	87	112	138	165	192	219
742	C&I Prescriptive	Premium Efficiency Motor	Motors	9	20	35	53	74	95	117	139	162	185
743	C&I Prescriptive	Premium Efficiency Motor	Motors	9	20	35	52	73	94	115	137	160	183
744	C&I Prescriptive	Premium Efficiency Motor	Motors	7	16	27	40	56	73	89	106	124	142
745	C&I Prescriptive	Premium Efficiency Motor	Motors	7	16	27	40	56	73	89	106	124	142
746	C&I Prescriptive	Premium Efficiency Motor	Motors	5	11	19	28	39	50	62	74	86	98
747	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	19	27	35	43	51	60	69
748	C&I Prescriptive	Premium Efficiency Motor	Motors	6	13	23	34	48	62	76	91	106	121
749	C&I Prescriptive	Premium Efficiency Motor	Motors	12	26	45	68	95	122	151	179	209	239
750	C&I Prescriptive	Premium Efficiency Motor	Motors	9	21	36	54	75	97	120	143	166	190
751	C&I Prescriptive	Premium Efficiency Motor	Motors	8	18	30	45	63	81	100	119	139	159
752	C&I Prescriptive	Premium Efficiency Motor	Motors	6	15	25	38	53	69	84	100	117	134
753	C&I Prescriptive	Premium Efficiency Motor	Motors	5	12	21	32	45	58	71	84	98	112
754	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	11	17	23	30	37	44	51	59
755	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	10	15	21	27	33	40	46	53
756	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	13	18	23	28	34	39	45
757	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	13	18	23	28	33	39	45
758	C&I Prescriptive	Premium Efficiency Motor	Motors	6	15	25	38	53	69	84	101	117	134
759	C&I Prescriptive	Premium Efficiency Motor	Motors	14	32	55	83	116	150	184	219	256	292
760	C&I Prescriptive	Premium Efficiency Motor	Motors	13	29	49	74	104	134	165	196	228	261
761	C&I Prescriptive	Premium Efficiency Motor	Motors	14	31	53	81	112	145	179	213	248	283
762	C&I Prescriptive	Premium Efficiency Motor	Motors	10	24	40	61	85	110	135	161	187	214
763	C&I Prescriptive	Premium Efficiency Motor	Motors	11	25	42	63	89	114	141	168	195	223
764	C&I Prescriptive	Premium Efficiency Motor	Motors	8	17	30	45	63	81	99	118	138	158
765	C&I Prescriptive	Premium Efficiency Motor	Motors	8	18	30	46	64	82	101	120	140	160
766	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	14	21	29	37	46	54	63	72
767	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	12	17	22	27	32	38	43
768	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	13	19	24	29	35	41	47
769	C&I Prescriptive	Premium Efficiency Motor	Motors	9	20	35	52	73	94	115	137	160	183
770	C&I Prescriptive	Premium Efficiency Motor	Motors	10	23	39	59	83	107	131	156	182	209

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
771	C&I Prescriptive	Premium Efficiency Motor	Motors	8	19	32	48	66	86	106	126	146	168
772	C&I Prescriptive	Premium Efficiency Motor	Motors	7	15	26	39	55	70	87	103	120	137
773	C&I Prescriptive	Premium Efficiency Motor	Motors	5	12	21	31	44	56	69	83	96	110
774	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	13	19	24	30	35	41	47
775	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	11	16	20	25	30	34	39
776	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	7	9	12	14	16	18
777	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	10	13	15	18	20
778	C&I Custum	Compressed Air-O&M	All systems	23,534,044	47,068,089	70,602,133	94,136,178	117,670,222	141,745,550	166,374,610	191,570,138	217,345,164	243,713,015
779	C&I Custum	Compressed Air - Controls	All systems	7,844,681	15,689,363	23,534,044	31,378,726	39,223,407	47,248,517	55,458,203	63,856,713	72,448,388	81,237,672
780	C&I Custum	Compressed Air - System Optimization	All systems	15,689,363	31,378,726	47,068,089	62,757,452	78,446,815	94,497,033	110,916,407	127,713,426	144,896,776	162,475,343
781	C&I Custum	Compressed Air- Sizing	All systems	12,551,490	25,102,981	37,654,471	50,205,962	62,757,452	75,597,627	88,733,125	102,170,740	115,917,421	129,980,275
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	267,087	534,174	801,261	1,068,348	1,335,435	1,608,665	1,888,180	2,174,123	2,466,643	2,765,891
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	12,707,132	25,414,263	38,121,395	50,828,527	63,535,658	76,535,054	89,833,436	103,437,680	117,354,822	131,592,059
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	7,975,020	15,950,040	23,925,060	31,900,080	39,875,101	48,033,546	56,379,636	64,917,686	73,652,111	82,587,428
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	6,181,095	12,362,190	18,543,285	24,724,380	30,905,475	37,228,735	43,516,335	49,805,935	56,095,535	62,385,135
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	31,012,641	62,025,282	93,037,923	124,050,563	155,063,204	186,789,136	218,510,272	250,221,408	281,932,544	313,643,680
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	31,012,641	62,025,282	93,037,923	124,050,563	155,063,204	186,789,136	218,510,272	250,221,408	281,932,544	313,643,680
791	C&I Custum	Power recovery	All systems	3,850,968	7,701,936	11,552,905	15,403,873	19,254,841	23,105,809	26,956,777	30,807,745	34,658,713	38,509,681
792	C&I Custum	Refinery Controls	All systems	15,433,298	30,866,596	46,299,893	61,733,191	77,166,489	92,599,787	108,033,085	123,466,383	138,899,681	154,332,979
793	C&I Custum	Energy Star Transformers	All systems	39,099	78,197	117,296	156,394	195,493	234,591	273,689	312,787	351,885	390,983
794	C&I Custum	Fans - O&M	All systems	15,689,363	31,378,726	47,068,089	62,757,452	78,446,815	94,497,033	110,916,407	127,713,426	144,896,776	162,475,343
795	C&I Custum	Fans - Controls	All systems	3,716,122	7,432,244	11,148,367	14,864,489	18,580,611	22,382,204	26,217,234	30,042,264	33,867,294	37,692,324
796	C&I Custum	Fans - System Optimization	All systems	2,496,050	4,992,100	7,488,150	9,984,200	12,480,249	15,033,708	17,645,897	20,318,166	23,051,897	25,848,504
797	C&I Custum	Fans - Improve components	All systems	6,275,745	12,551,490	18,827,236	25,102,981	31,378,726	37,798,813	44,366,563	51,085,370	57,958,710	64,990,137
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	267,087	534,174	801,261	1,068,348	1,335,435	1,608,665	1,888,180	2,174,123	2,466,643	2,765,891
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	12,707,132	25,414,263	38,121,395	50,828,527	63,535,658	76,535,054	89,833,436	103,437,680	117,354,822	131,592,059
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	7,975,020	15,950,040	23,925,060	31,900,080	39,875,101	48,033,546	56,379,636	64,917,686	73,652,111	82,587,428
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	6,181,095	12,362,190	18,543,285	24,724,380	30,905,475	37,228,735	43,516,335	49,805,935	56,095,535	62,385,135
805	C&I Custum	Fans - ASD (100+ hp)	All systems	31,012,641	62,025,282	93,037,923	124,050,563	155,063,204	186,789,136	218,510,272	250,221,408	281,932,544	313,643,680
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	31,012,641	62,025,282	93,037,923	124,050,563	155,063,204	186,789,136	218,510,272	250,221,408	281,932,544	313,643,680
807	C&I Custum	Optimize drying process	All systems	9,710,007	19,420,013	29,130,020	38,840,027	48,550,033	58,483,370	68,465,174	79,040,699	89,675,321	100,554,540
808	C&I Custum	Pumps - O&M	All systems	12,551,490	25,102,981	37,654,471	50,205,962	62,757,452	75,597,627	88,733,125	102,170,740	115,917,421	129,980,275
809	C&I Custum	Pumps - Controls	All systems	10,982,554	21,965,108	32,947,662	43,930,216	54,912,770	66,147,923	77,641,485	89,399,398	101,427,743	113,732,740
810	C&I Custum	Pumps - System Optimization	All systems	7,344,976	14,689,952	22,034,928	29,379,904	36,724,880	44,238,791	51,925,521	59,789,046	67,833,433	76,062,840
811	C&I Custum	Pumps - Sizing	All systems	6,275,745	12,551,490	18,827,236	25,102,981	31,378,726	37,798,813	44,366,563	51,085,370	57,958,710	64,990,137
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	267,087	534,174	801,261	1,068,348	1,335,435	1,608,665	1,888,180	2,174,123	2,466,643	2,765,891
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	12,707,132	25,414,263	38,121,395	50,828,527	63,535,658	76,535,054	89,833,436	103,437,680	117,354,822	131,592,059
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	7,975,020	15,950,040	23,925,060	31,900,080	39,875,101	48,033,546	56,379,636	64,917,686	73,652,111	82,587,428
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	6,181,095	12,362,190	18,543,285	24,724,380	30,905,475	37,228,735	43,516,335	49,805,935	56,095,535	62,385,135
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	31,012,641	62,025,282	93,037,923	124,050,563	155,063,204	186,789,136	218,510,272	250,221,408	281,932,544	313,643,680
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	31,012,641	62,025,282	93,037,923	124,050,563	155,063,204	186,789,136	218,510,272	250,221,408	281,932,544	313,643,680
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	214,583	429,167	643,750	858,333	1,072,917	1,292,436	1,517,003	1,746,736	1,981,753	2,222,175
822	C&I Custum	Optimization refrigeration	Refrigeration	28,483	56,965	85,448	113,930	142,413	171,550	201,358	231,851	263,046	294,958
823	C&I Custum	Bakery - process	Process	68,741	137,482	206,223	274,964	343,705	414,027	485,966	559,560	634,847	711,865
824	C&I Custum	Bakery - process (mixing)	Process	101,790	203,579	305,369	407,158	508,948	613,078	719,604	828,580	940,062	1,054,108
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	828,026	1,656,052	2,484,077	3,312,103	4,140,129	4,987,199	5,853,752	6,740,236	7,647,109	8,574,840
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	141,707	283,413	425,120	566,826	708,533	853,499	1,001,799	1,153,510	1,308,710	1,467,480
830	C&I Custum	Direct drive extruders	Machine Drive	9,427	18,853	28,280	37,707	47,134	56,777	66,443	76,335	86,459	96,691
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	88,567	177,133	265,700	354,267	442,833	533,437	626,124	720,944	817,944	917,175
832	C&I Custum	Injection molding - direct drive	Machine Drive	43,418	86,836	130,254	173,673	217,091	261,508	306,946	353,429	400,982	449,628
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	367,894	735,788	1,103,683	1,471,577	1,839,471	2,215,827	2,600,839	2,994,706	3,397,632	3,809,825
835	C&I Custum	Top-heating (glass)	Process Heating	110,994	221,988	332,982	443,976	554,970	668,517	784,676	903,506	1,024,335	1,145,164
836	C&I Custum	Process controls	Process	9,649,871	19,299,741	28,949,612	38,599,483	48,249,353	58,121,171	68,220,041	78,551,184	89,119,944	99,931,785
837	C&I Custum	Efficient electric melting	Process Heating	369,723	739,447	1,109,170	1,478,894	1,848,618	2,218,342	2,598,066	2,977,790	3,357,514	3,737,238
838	C&I Custum	Near net shape casting	Machine Drive	280,044	560,087	840,131	1,120,174	1,400,218	1,686,702	1,973,776	2,260,850	2,547,924	2,835,000
839	C&I Custum	Optimization process (M&T)	Process	94,655	189,310	283,965	378,620	473,274	570,106	669,165	770,503	874,171	980,224
840	C&I Custum	Scheduling	Process	47,989	95,978	143,967	191,956	239,945	289,038	339,260	390,637	443,196	496,963
841	C&I Custum	Efficient curing ovens	Process Heating	10,018	20,037	30,055	40,073	50,091	60,340	70,824	81,550	92,522	103,747
842	C&I Custum	Machinery	Machine Drive	81,793	163,587	245,380	327,173	408,967	492,641	578,240	665,808	755,390	847,032
843	C&I Custum	Optimization process (M&T)	Process	40,463	80,926	121,389	161,852	202,315	243,709	286,055	329,375	373,691	419,026
844	C&I Custum	Scheduling	Process	20,514	41,029	61,543	82,057	102,571	123,558	144,545	166,990	189,477	212,442
845	C&I Custum	Efficient curing ovens	Process Heating	1,488	2,976	4,464	5,952	7,440	8,962	10,519	12,112	13,742	15,409
846	C&I Custum	Machinery	Machine Drive	86,397	172,794	259,191	345,588	431,985	520,369	610,786	703,283	797,907	894,707
847	C&I Custum	Optimization process (M&											

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
848	C&I Custom	Scheduling	Process	18,886	37,772	56,658	75,544	94,430	113,750	133,515	153,734	174,418	195,578
849	C&I Custom	Efficient curing ovens	Process Heating	2,490	4,980	7,470	9,960	12,450	14,997	17,603	20,269	22,996	25,786
850	C&I Custom	Machinery	Machine Drive	25,338	50,676	76,014	101,352	126,689	152,610	179,127	206,254	234,004	262,393
851	C&I Custom	Scheduling	Process	23,903	47,806	71,709	95,612	119,515	143,968	168,983	194,574	220,753	247,534
852	C&I Custom	Efficient curing ovens	Process Heating	4,499	8,997	13,496	17,994	22,493	27,095	31,803	36,619	41,546	46,586
853	C&I Custom	Machinery	Machine Drive	11,074	22,148	33,222	44,296	55,370	66,699	78,288	90,144	102,273	114,680
854	C&I Custom	Efficient processes (welding, etc.)	Process	31,246	62,492	93,737	124,983	156,229	188,194	220,893	254,345	288,566	323,574
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	3,308	6,767	10,385	14,166	18,119	22,162	26,299	30,530	34,859	39,287
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart	All systems	0	0	1,503	3,036	4,597	6,195	7,829	9,501	11,212	12,961
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart	All systems	0	0	724	1,463	2,215	2,985	3,773	4,578	5,403	6,246
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
865	Commercial Demand Credit	Commercial Demand Credit	All systems	80	80	80	80	80	80	80	80	80	80
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

3: Cumulative Installations

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	26,905	28,912	30,565	31,787	32,519	33,266	34,032	34,814	35,615	36,434
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	5,047	5,423	5,733	5,963	6,100	6,240	6,384	6,531	6,681	6,834
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	2,854	3,067	3,242	3,372	3,450	3,529	3,610	3,693	3,778	3,865
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	19,997	21,489	22,718	23,626	24,170	24,726	25,294	25,876	26,471	27,080
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	13,007	13,977	14,776	15,367	15,720	16,082	16,452	16,830	17,217	17,613
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	2,480	2,665	2,818	2,930	2,998	3,067	3,137	3,209	3,283	3,359
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	2,070	2,224	2,351	2,445	2,501	2,559	2,618	2,678	2,740	2,803
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	14,196	15,967	17,780	19,634	21,530	23,471	25,455	27,486	29,563	30,975
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	4,179	4,701	5,234	5,780	6,338	6,909	7,494	8,091	8,703	9,119
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	2,147	2,415	2,689	2,970	3,257	3,550	3,850	4,157	4,472	4,685
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	29,083	32,712	36,425	40,223	44,109	48,084	52,150	56,310	60,565	63,459
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	5,452	6,132	6,828	7,540	8,269	9,014	9,776	10,556	11,354	11,896
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	3,083	3,468	3,861	4,264	4,676	5,097	5,528	5,969	6,421	6,727
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	24,269	27,297	30,395	33,565	36,807	40,124	43,517	46,989	50,540	52,954
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	30,310	34,092	37,961	41,920	45,969	50,112	54,350	58,685	63,120	66,136
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	5,686	6,395	7,121	7,863	8,623	9,400	10,195	11,008	11,840	12,406
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	3,215	3,616	4,027	4,447	4,876	5,316	5,765	6,225	6,696	7,016
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	6,854	6,854	6,854	6,854	6,854	6,854	6,029	4,940	3,540	1,790
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	1,286	1,286	1,286	1,286	1,286	1,286	1,131	927	664	336
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	750	750	750	750	750	750	660	540	387	196
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	10,450	10,450	10,450	10,450	10,450	10,450	10,450	10,450	10,450	9,192
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	3,976	4,457	4,948	5,451	5,966	6,492	7,030	7,581	8,145	8,721
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	860	964	1,070	1,179	1,290	1,404	1,521	1,640	1,762	1,887
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	473	530	588	648	709	772	836	901	968	1,037
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	3,170	3,553	3,945	4,346	4,756	5,176	5,605	6,044	6,493	6,953
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	860	964	1,070	1,179	1,290	1,404	1,521	1,640	1,762	1,887
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	411	461	512	564	617	671	727	784	842	902
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	2,994	3,356	3,726	4,105	4,493	4,889	5,294	5,709	6,134	6,568
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	754	845	938	1,034	1,131	1,231	1,333	1,438	1,544	1,654
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	347	389	432	476	521	567	614	663	712	762
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	2,426	2,713	3,008	3,309	3,616	3,931	4,254	4,583	4,920	5,265
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	26,714	29,942	33,245	36,624	40,081	43,617	47,234	50,935	54,721	58,594
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	5,490	6,154	6,832	7,527	8,237	8,964	9,707	10,468	11,246	12,042
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	3,105	3,480	3,864	4,257	4,658	5,069	5,490	5,920	6,360	6,810
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	14,288	15,982	17,714	19,487	21,300	23,155	25,053	26,994	28,980	31,011
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	3,424	3,735	4,046	4,358	4,669	4,980	5,291	5,603	5,914	6,225
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	630	688	745	802	860	917	974	1,032	1,089	1,146
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	368	401	435	468	502	535	568	602	635	669
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	8,355,244	8,894,482	9,333,357	9,663,873	9,886,142	10,113,523	10,346,134	10,584,095	10,827,530	11,076,563

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	1,567,284	1,668,435	1,750,759	1,812,758	1,854,451	1,897,103	1,940,737	1,985,374	2,031,037	2,077,751
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	886,326	943,529	990,084	1,025,146	1,048,724	1,072,845	1,097,520	1,122,763	1,148,587	1,175,004
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	6,348,057	6,757,754	7,091,197	7,342,313	7,511,186	7,683,943	7,860,674	8,041,470	8,226,423	8,415,631
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	63,670	71,117	78,735	83,812	88,271	92,011	94,972	97,156	99,391	101,677
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	8,801	9,830	10,883	11,585	12,202	12,718	13,128	13,430	13,739	14,055
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	6,252	6,983	7,731	8,230	8,668	9,035	9,326	9,540	9,760	9,984
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	48,460	54,128	59,926	63,790	67,185	70,031	72,285	73,947	75,648	77,388
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	8,567	9,346	9,346	9,346	9,346	9,346	9,346	9,346	9,346	9,346
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	1,607	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	909	991	991	991	991	991	991	991	991	991
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	78,724	83,698	87,301	89,309	91,364	93,465	95,615	97,814	100,063	102,365
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	14,767	15,700	16,376	16,753	17,138	17,532	17,935	18,348	18,770	19,202
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	8,351	8,879	9,261	9,474	9,692	9,915	10,143	10,376	10,615	10,859
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	54,423	57,861	60,352	61,740	63,160	64,613	66,099	67,620	69,175	70,766
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	72,848	78,401	82,987	86,373	88,360	90,392	92,471	94,598	96,773	98,999
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	12,716	13,685	14,486	15,077	15,424	15,779	16,141	16,513	16,893	17,281
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	7,191	7,739	8,192	8,526	8,722	8,923	9,128	9,338	9,553	9,773
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	4,005	4,310	4,563	4,749	4,858	4,970	5,084	5,201	5,320	5,443
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	41,451	46,461	51,586	56,829	62,193	66,233	69,885	73,021	75,512	77,248
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	8,718	9,771	10,849	11,952	13,080	14,698	15,357	15,881	16,246	16,569
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	4,678	5,243	5,822	6,414	7,019	7,475	7,887	8,241	8,522	8,718
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	39,102	43,828	48,663	53,609	58,668	62,479	65,924	68,883	71,232	72,870
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	54,897	61,532	68,319	75,263	82,366	87,717	92,554	96,707	100,005	102,305
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	9,370	10,502	11,661	12,846	14,058	14,971	15,797	16,506	17,069	17,461
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	5,299	5,939	6,594	7,265	7,950	8,467	8,933	9,334	9,653	9,875
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	41,709	46,750	51,907	57,182	62,579	66,644	70,319	73,475	75,981	77,728
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	8,507	9,280	10,054	10,827	11,601	12,374	13,147	13,921	14,694	15,467
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	1,598	1,743	1,888	2,034	2,179	2,324	2,469	2,615	2,760	2,905
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	918	1,001	1,085	1,168	1,252	1,335	1,418	1,502	1,585	1,669
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	3,511	3,935	4,369	4,813	5,268	5,732	6,208	6,694	7,192	7,701
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	860	964	1,070	1,179	1,290	1,404	1,521	1,640	1,762	1,887
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	411	460	511	563	616	670	726	783	841	901
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	2,172	2,434	2,703	2,978	3,259	3,546	3,840	4,141	4,449	4,764
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	811	909	1,010	1,112	1,217	1,325	1,435	1,547	1,662	1,780
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	322	360	400	441	482	525	569	613	659	705
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	5,000	5,585	6,183	6,795	7,422	7,849	8,228	8,552	8,815	9,017
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	929	1,038	1,149	1,263	1,379	1,458	1,529	1,589	1,638	1,676
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	713	797	882	969	1,059	1,120	1,174	1,220	1,257	1,286
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	6,365	6,776	7,110	7,362	7,531	7,704	7,881	8,063	8,248	8,438
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	750	799	838	868	888	908	929	950	972	994
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	932	992	1,041	1,078	1,103	1,128	1,154	1,181	1,208	1,236
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	26,651	29,767	31,819	33,611	35,099	36,260	37,094	37,947	38,820	39,713
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	4,999	5,584	5,969	6,305	6,584	6,802	6,958	7,118	7,282	7,449
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	2,827	3,158	3,375	3,565	3,723	3,847	3,935	4,025	4,118	4,213
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	20,248	22,616	24,175	25,536	26,667	27,549	28,183	28,831	29,494	30,173
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	54,280	58,312	61,812	64,691	66,899	68,438	70,012	71,622	73,270	74,955
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	10,182	10,938	11,595	12,135	12,549	12,838	13,133	13,435	13,744	14,060
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	5,758	6,186	6,557	6,862	7,097	7,260	7,427	7,598	7,772	7,951
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	36,046	38,724	41,048	42,959	44,426	45,448	46,493	47,562	48,656	49,775
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	3,321	3,321	3,321	3,321	3,321	3,321	3,321	3,321	3,027	2,641
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	247	247	247	247	247	247	247	247	225	196
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	11,082	12,090	13,097	14,105	15,112	16,120	17,127	18,135	18,135	18,135
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	9,534	10,401	11,268	12,134	13,001	13,868	14,735	15,601	16,468	17,335
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	8,443	9,211	9,979	10,746	11,514	12,281	13,049	13,816	14,584	15,352
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	80,491	80,491	80,491	80,491	80,491	80,491	80,491	80,491	80,491	80,491
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	57,822	59,152	60,512	61,904	63,328	64,784	66,274	67,799	69,358	70,953
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	57,822	59,152	60,512	61,904	63,328	64,784	66,274	67,799	69,358	70,953
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	57,822	59,152	60,512	61,904	63,328	64,784	66,274	67,799	69,358	70,953
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	57,822	59,152	60,512	61,904	63,328	64,784	66,274	67,799	69,358	70,953
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	33,108	37,032	39,743	42,130	44,120	45,654	46,704	47,778	48,877	50,001
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	39,163	43,805	47,012	49,836	52,189	54,003	55,245	56,516	57,816	59,146
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	41,139	46,015	49,384	52,350	54,822	56,728	58,033	59,368	60,733	62,130
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	42,059	47,044	50,488	53,520	56,048	57,996	59,330	60,695	62,091	63,519
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	20,082	21,671	23,063	24,213	25,084	25,661	26,252	26,855	27,473	28,105
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	24,014	25,915	27,580	28,954	29,997	30,687	31,392	32,114	32,853	33,609
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	9,825	10,603	11,284	11,846	12,273	12,555	12,844	13,139	13,441	13,750
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,747	1,885	2,007	2,107	2,182	2,233	2,284	2,337	2,390	2,445
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	17,792	19,200	20,433	21,452	22,224	22,735	23,258	23,793	24,340	24,900
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	9,451	10,199	10,854	11,395	11,805	12,076	12,354	12,638	12,929	13,226
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	446	481	512	538	557	570	583	596	610	624
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	260	280	298	313	324	332	340	347	355	364
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	402	434	462	485	502	514	526	538	550	563
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	254	275	292	307	318	325	333	340	348	356
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	152	159	162	166	170	174	178	182	186	190
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	140	156	173	190	208	226	239	251	261	269
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	144	161	178	196	214	233	246	258	269	277
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	124	139	154	170	185	202	213	224	233	240
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	126	141	156	171	187	204	215	226	235	242
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,784	1,992	2,206	2,424	2,647	2,876	3,110	3,349	3,593	3,843
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	10,098	11,279	12,487	13,723	14,987	16,280	17,604	18,957	20,342	21,759
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,719	1,920	2,125	2,336	2,551	2,771	2,996	3,227	3,462	3,703
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	10,923	12,200	13,507	14,844	16,212	17,611	19,042	20,506	22,004	23,537
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2,623	2,929	3,243	3,564	3,892	4,228	4,572	4,924	5,283	5,651
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,836	1,878	1,922	1,966	2,011	2,057	2,105	2,153	2,202	2,253
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	5,725	5,857	5,991	6,129	6,270	6,414	6,562	6,713	6,867	7,025
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,065	1,090	1,115	1,140	1,166	1,193	1,221	1,249	1,278	1,307
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	5,544	5,671	5,802	5,935	6,072	6,211	6,354	6,500	6,650	6,803
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	3,604	3,687	3,772	3,859	3,947	4,038	4,131	4,226	4,323	4,423
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	3,216	3,290	3,366	3,443	3,522	3,603	3,686	3,771	3,858	3,946
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,473	1,507	1,541	1,577	1,613	1,650	1,688	1,727	1,766	1,807
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,411	2,467	2,523	2,581	2,641	2,702	2,764	2,827	2,892	2,959
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	5,761	5,893	6,029	6,167	6,309	6,454	6,603	6,755	6,910	7,069
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	1,565	1,601	1,638	1,675	1,714	1,753	1,794	1,835	1,877	1,920
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	5,943	6,080	6,219	6,363	6,509	6,659	6,812	6,968	7,129	7,293
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	3,894	3,983	4,075	4,169	4,264	4,363	4,463	4,566	4,671	4,778
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,375	1,407	1,439	1,472	1,506	1,541	1,576	1,613	1,650	1,688
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	344	356	367	377	386	395	404	413	423	432
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1,458	1,511	1,558	1,601	1,638	1,675	1,714	1,753	1,793	1,835
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	61	64	66	67	69	71	72	74	76	77
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	816	845	872	896	916	937	959	981	1,003	1,027
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,892	1,960	2,022	2,077	2,125	2,173	2,223	2,275	2,327	2,380
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	270	279	288	296	303	310	317	324	332	339
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,529	1,584	1,633	1,678	1,717	1,756	1,796	1,838	1,880	1,923
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	418	433	447	459	480	491	503	514	526	538
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	26	27	28	29	30	30	31	32	33	33
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,073	1,111	1,146	1,178	1,205	1,232	1,261	1,290	1,319	1,350
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	3,491	3,616	3,730	3,831	3,920	4,010	4,102	4,196	4,293	4,392
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	6,868	7,672	8,493	9,334	10,194	10,781	11,302	11,746	12,108	12,386
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	3,772	4,213	4,665	5,126	5,599	5,921	6,207	6,451	6,650	6,803
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	3,385	3,781	4,186	4,601	5,024	5,314	5,571	5,790	5,968	6,105
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	15,040	16,799	18,598	20,439	22,322	23,607	24,748	25,721	26,512	27,122
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	5,175	5,780	6,399	7,032	7,680	8,122	8,515	8,850	9,122	9,332
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	14,564	16,267	18,010	19,792	21,616	22,860	23,965	24,907	25,673	26,264
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	9,359	10,454	11,573	12,719	13,891	14,690	15,401	16,006	16,498	16,878

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	3,136	3,503	3,878	4,262	4,655	4,923	5,161	5,364	5,529	5,656
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	32	33	34	35	36	37	37	38	39	40
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	32	33	34	35	36	36	37	38	39	40
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	5	5	5	5	5	5	5	6	6	6
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	138	143	148	152	155	159	163	166	170	174
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	4	4	5	5	5	5	5	5	5	5
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	32	33	34	35	36	37	37	38	39	40
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	20	21	21	22	23	23	24	24	25	25
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	50	51	53	55	56	57	58	60	61	63
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	32	33	34	35	36	36	37	38	39	40
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	5	5	5	5	5	5	5	6	6	6
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	138	143	148	152	155	159	163	166	170	174
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	171	177	183	188	192	196	201	205	210	215
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	57	59	61	63	64	65	67	69	70	72
323	C&I Prescriptive	VAV	Chiller & Boiler	7,951	8,465	8,882	9,197	9,408	9,625	9,846	10,072	10,304	10,541
324	C&I Prescriptive	VAV	Chiller & Boiler	8,163	8,690	9,119	9,441	9,659	9,881	10,108	10,340	10,578	10,822
325	C&I Prescriptive	VAV	Chiller & Boiler	2,946	3,136	3,291	3,407	3,485	3,566	3,648	3,732	3,817	3,905
326	C&I Prescriptive	VAV	Chiller & Boiler	13,311	14,170	14,870	15,396	15,750	16,112	16,483	16,862	17,250	17,647
327	C&I Prescriptive	VAV	Chiller & Boiler	11,864	12,630	13,253	13,723	14,038	14,361	14,691	15,029	15,375	15,729
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	7,951	8,465	8,882	9,197	9,408	9,625	9,846	10,072	10,304	10,541
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	2,947	3,137	3,292	3,408	3,486	3,567	3,649	3,733	3,818	3,906
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,256	1,337	1,403	1,452	1,486	1,520	1,555	1,591	1,627	1,665
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	9,314	9,916	10,405	10,773	11,021	11,275	11,534	11,799	12,071	12,348
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	14,107	15,017	15,758	16,316	16,691	17,075	17,468	17,870	18,281	18,701
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	10,123	10,776	11,308	11,708	11,977	12,253	12,534	12,823	13,118	13,419
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	9,355	9,959	10,451	10,821	11,070	11,324	11,585	11,851	12,124	12,403
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	56	60	62	65	66	68	69	71	72	74
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	6,390	6,802	7,138	7,391	7,561	7,735	7,913	8,095	8,281	8,471
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	1,705	1,815	1,905	1,972	2,017	2,064	2,111	2,160	2,209	2,260
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	9,265	9,862	10,349	10,716	10,962	11,214	11,472	11,736	12,006	12,282
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	6,777	7,215	7,571	7,839	8,019	8,203	8,392	8,585	8,783	8,985
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	14,705	15,655	16,427	17,009	17,400	17,800	18,209	18,628	19,057	19,495
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	6,390	6,802	7,138	7,391	7,561	7,735	7,913	8,095	8,281	8,471
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,601	1,704	1,788	1,851	1,894	1,937	1,982	2,028	2,074	2,122
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	9,265	9,862	10,349	10,716	10,962	11,214	11,472	11,736	12,006	12,282
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	12,086	12,866	13,500	13,979	14,300	14,629	14,965	15,310	15,662	16,022
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	141	154	167	180	193	205	218	231	244	257
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,062	6,201	6,344	6,490	6,639	6,792	6,948	7,108	7,271	7,438
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,123	7,287	7,454	7,626	7,801	7,980	8,164	8,352	8,544	8,740
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,360	7,529	7,702	7,879	8,061	8,246	8,436	8,630	8,828	9,031
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,910	8,092	8,278	8,469	8,664	8,863	9,067	9,275	9,489	9,707
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,315	1,469	1,570	1,659	1,732	1,790	1,831	1,873	1,916	1,960
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,589	2,892	3,091	3,265	3,410	3,523	3,604	3,686	3,771	3,858
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,157	3,527	3,770	3,982	4,158	4,296	4,395	4,496	4,599	4,705
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,831	4,279	4,574	4,831	5,045	5,212	5,332	5,455	5,580	5,709
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	199	204	208	213	218	223	228	233	239	244
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	214	219	224	230	235	240	246	251	257	263
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	218	223	228	233	238	244	250	255	261	267
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	225	230	236	241	247	252	258	264	270	276
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	82	91	98	103	108	111	114	117	119	122
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	94	104	112	118	123	127	130	133	136	139
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	94	104	112	118	123	127	130	133	136	139
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	94	104	112	118	123	127	130	133	136	139
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,088	2,136	2,185	2,236	2,287	2,340	2,393	2,448	2,505	2,562
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,282	2,335	2,388	2,443	2,499	2,557	2,616	2,676	2,737	2,800
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,324	2,377	2,432	2,488	2,545	2,603	2,663	2,725	2,787	2,851
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,418	2,473	2,530	2,589	2,648	2,709	2,771	2,835	2,900	2,967
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	780	871	931	984	1,027	1,061	1,086	1,111	1,136	1,162
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,038	1,160	1,240	1,309	1,367	1,413	1,445	1,478	1,512	1,547
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,038	1,160	1,240	1,309	1,367	1,413	1,445	1,478	1,512	1,547
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,038	1,160	1,240	1,309	1,367	1,413	1,445	1,478	1,512	1,547
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,585	3,668	3,752	3,839	3,927	4,017	4,110	4,204	4,301	4,400
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,761	3,847	3,936	4,026	4,119	4,214	4,310	4,410	4,511	4,615
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,797	3,885	3,974	4,065	4,159	4,255	4,352	4,453	4,555	4,660
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,879	3,968	4,060	4,153	4,249	4,346	4,446	4,549	4,653	4,760
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,545	1,726	1,845	1,949	2,035	2,102	2,151	2,200	2,251	2,302
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,545	1,726	1,845	1,949	2,035	2,102	2,151	2,200	2,251	2,302
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,545	1,726	1,845	1,949	2,035	2,102	2,151	2,200	2,251	2,302
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,662	1,856	1,984	2,096	2,189	2,261	2,313	2,366	2,421	2,476
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,319	6,465	6,613	6,765	6,921	7,080	7,243	7,410	7,580	7,754
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,774	6,930	7,090	7,253	7,420	7,590	7,765	7,943	8,126	8,313
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,871	7,029	7,190	7,356	7,525	7,698	7,875	8,056	8,241	8,431
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,088	7,251	7,418	7,588	7,763	7,941	8,124	8,311	8,502	8,697
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,705	3,022	3,230	3,412	3,563	3,681	3,765	3,852	3,941	4,031
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,920	3,262	3,487	3,683	3,846	3,974	4,065	4,158	4,254	4,352
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,920	3,262	3,487	3,683	3,846	3,974	4,065	4,158	4,254	4,352
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,920	3,262	3,487	3,683	3,846	3,974	4,065	4,158	4,254	4,352

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,452	2,508	2,566	2,625	2,685	2,747	2,810	2,875	2,941	3,008
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,858	2,924	2,991	3,060	3,131	3,203	3,276	3,352	3,429	3,508
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,949	3,017	3,086	3,157	3,230	3,304	3,380	3,458	3,537	3,618
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,158	3,231	3,305	3,381	3,459	3,539	3,620	3,703	3,789	3,876
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	565	631	674	712	743	768	786	804	822	841
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,076	1,201	1,284	1,356	1,416	1,463	1,497	1,531	1,567	1,603
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,299	1,451	1,551	1,639	1,711	1,768	1,808	1,850	1,892	1,936
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,517	1,694	1,811	1,913	1,998	2,064	2,111	2,160	2,210	2,260
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,887	2,954	3,022	3,091	3,162	3,235	3,309	3,386	3,463	3,543
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,418	3,497	3,577	3,659	3,744	3,830	3,918	4,008	4,100	4,194
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,537	3,618	3,702	3,787	3,874	3,963	4,054	4,147	4,243	4,340
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,814	3,902	3,992	4,084	4,178	4,274	4,372	4,473	4,576	4,681
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	592	661	707	746	779	805	824	843	862	882
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,202	1,342	1,435	1,516	1,583	1,635	1,673	1,711	1,751	1,791
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,479	1,652	1,766	1,866	1,948	2,013	2,059	2,106	2,155	2,204
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,811	2,023	2,162	2,284	2,385	2,464	2,520	2,578	2,638	2,698
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,479	4,582	4,687	4,795	4,905	5,018	5,134	5,252	5,373	5,496
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,988	5,103	5,220	5,340	5,463	5,589	5,717	5,849	5,983	6,121
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,098	5,215	5,335	5,458	5,584	5,712	5,843	5,978	6,115	6,256
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,350	5,473	5,599	5,727	5,859	5,994	6,132	6,273	6,417	6,565
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,449	1,618	1,730	1,827	1,908	1,971	2,016	2,063	2,110	2,159
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,276	2,543	2,718	2,871	2,998	3,097	3,169	3,241	3,316	3,392
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,366	2,642	2,824	2,983	3,116	3,219	3,293	3,368	3,446	3,525
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,366	2,642	2,824	2,983	3,116	3,219	3,293	3,368	3,446	3,525
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,424	4,526	4,630	4,736	4,845	4,957	5,071	5,187	5,307	5,429
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,230	5,350	5,473	5,599	5,728	5,860	5,994	6,132	6,273	6,418
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,411	5,535	5,662	5,792	5,926	6,062	6,201	6,344	6,490	6,639
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,831	5,965	6,102	6,243	6,386	6,533	6,684	6,837	6,995	7,155
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	916	1,024	1,094	1,156	1,207	1,247	1,275	1,305	1,335	1,366
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,850	2,067	2,209	2,334	2,437	2,517	2,575	2,635	2,695	2,757
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,273	2,539	2,714	2,867	2,994	3,093	3,164	3,237	3,312	3,388
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,779	3,103	3,317	3,504	3,659	3,780	3,867	3,956	4,047	4,140
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	22,083	22,590	23,110	23,642	24,185	24,742	25,311	25,893	26,488	27,098
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	24,382	24,943	25,517	26,104	26,704	27,318	27,947	28,589	29,247	29,920
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	24,877	25,449	26,035	26,634	27,246	27,873	28,514	29,170	29,841	30,527
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	26,005	26,603	27,215	27,840	28,481	29,136	29,806	30,492	31,193	31,910
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,628	8,520	9,107	9,620	10,046	10,378	10,617	10,861	11,111	11,366
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,346	12,673	13,547	14,309	14,943	15,437	15,792	16,156	16,527	16,907
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,346	12,673	13,547	14,309	14,943	15,437	15,792	16,156	16,527	16,907
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,346	12,673	13,547	14,309	14,943	15,437	15,792	16,156	16,527	16,907
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	19,529	20,980	22,239	23,275	24,069	24,623	25,189	25,768	26,361	26,967
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	40,164	43,148	45,738	47,868	49,502	50,641	51,805	52,997	54,216	55,463
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,597	18,904	20,039	20,972	21,688	22,187	22,697	23,219	23,753	24,300
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,114	1,197	1,269	1,328	1,373	1,405	1,437	1,470	1,504	1,538
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	23,577	25,329	26,849	28,099	29,059	29,727	30,411	31,110	31,826	32,558
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	29,130	31,295	33,173	34,718	35,903	36,729	37,574	38,438	39,322	40,226
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	340	365	387	405	419	428	438	448	459	469
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	619	665	705	738	763	781	799	817	836	855
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	441	474	502	526	544	556	569	582	595	609
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	990	1,064	1,127	1,180	1,220	1,248	1,277	1,306	1,336	1,367
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	210	234	259	285	311	338	357	373	387	399
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	82	91	101	111	121	132	139	145	151	155
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,651	3,922	4,158	4,351	4,500	4,604	4,709	4,818	4,929	5,042
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	5,081	5,459	5,786	6,056	6,262	6,407	6,554	6,705	6,859	7,017
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2,032	2,183	2,315	2,422	2,505	2,563	2,622	2,682	2,744	2,807
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	281	302	321	335	347	355	363	371	380	389
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	3,535	3,797	4,025	4,213	4,357	4,457	4,559	4,664	4,771	4,881
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,794	1,928	2,043	2,139	2,212	2,262	2,314	2,368	2,422	2,478
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,878	3,091	3,277	3,430	3,547	3,628	3,712	3,797	3,884	3,974
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	2,325	2,498	2,648	2,771	2,865	2,931	2,999	3,068	3,138	3,210
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	2,881	3,095	3,281	3,434	3,551	3,633	3,716	3,802	3,889	3,979
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,184	2,347	2,487	2,603	2,692	2,754	2,817	2,882	2,949	3,016
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	173	193	214	235	257	279	294	308	319	329
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	112	125	138	152	166	180	190	199	206	212
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	5,159	5,542	5,875	6,148	6,358	6,504	6,654	6,807	6,963	7,124
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	7,412	7,962	8,440	8,833	9,135	9,345	9,560	9,780	10,005	10,235
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,104	3,334	3,534	3,699	3,825	3,913	4,003	4,095	4,189	4,286
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	389	418	443	464	480	491	502	513	525	537
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	5,075	5,452	5,779	6,049	6,255	6,399	6,546	6,697	6,851	7,008
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,620	2,814	2,983	3,122	3,229	3,303	3,379	3,457	3,536	3,617
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
463	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	460	494	524	548	567	580	593	607	621	635
464	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	394	424	449	470	486	497	509	520	532	545
465	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	470	504	535	560	579	592	606	620	634	648
467	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	396	426	451	472	489	500	511	523	535	547
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	40	45	49	54	59	64	68	71	74	76
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	25	28	31	34	37	40	42	44	46	47
471	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	86,806	93,255	98,852	103,456	106,988	109,449	111,966	114,541	117,176	119,871
472	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	86,806	93,255	98,852	103,456	106,988	109,449	111,966	114,541	117,176	119,871
473	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	34,722	37,302	39,541	41,382	42,795	43,779	44,786	45,816	46,870	47,948
474	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	7,609	8,175	8,665	9,069	9,378	9,594	9,815	10,040	10,271	10,508
475	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	69,445	74,604	79,082	82,765	85,590	87,559	89,573	91,633	93,740	95,896
476	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	38,370	41,221	43,695	45,730	47,291	48,379	49,492	50,630	51,795	52,986
477	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	829	890	944	987	1,021	1,045	1,069	1,093	1,118	1,144
479	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	439	471	499	523	540	553	566	579	592	606
480	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	765	822	871	912	943	964	987	1,009	1,033	1,056
482	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	365	393	416	436	450	461	471	482	493	505
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	173	193	214	235	257	279	294	308	320	329
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	131	147	162	179	195	212	223	234	243	250
486	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	21,879	23,505	24,915	26,076	26,966	27,586	28,221	28,870	29,534	30,213
487	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	21,879	23,505	24,915	26,076	26,966	27,586	28,221	28,870	29,534	30,213
488	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	8,752	9,402	9,966	10,430	10,786	11,034	11,288	11,548	11,813	12,085
489	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,864	2,003	2,123	2,222	2,297	2,350	2,404	2,460	2,516	2,574
490	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,503	18,804	19,932	20,861	21,573	22,069	22,576	23,096	23,627	24,170
491	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	9,538	10,246	10,861	11,367	11,755	12,025	12,302	12,585	12,874	13,170
492	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	710	763	808	846	875	895	916	937	958	980
494	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	389	417	442	463	479	490	501	513	524	537
495	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	659	708	750	785	812	830	850	869	889	910
497	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	324	348	369	386	399	408	418	427	437	447
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	179	200	221	243	265	288	304	318	330	340
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	134	150	166	182	199	216	228	238	248	255
501	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	25,265	27,142	28,771	30,111	31,139	31,856	32,588	33,338	34,105	34,889
502	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	49,350	53,017	56,199	58,816	60,824	62,223	63,654	65,118	66,616	68,148
503	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	21,481	23,077	24,462	25,602	26,476	27,085	27,708	28,345	28,997	29,664
504	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,500	1,612	1,708	1,788	1,849	1,892	1,935	1,978	2,025	2,072
505	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	29,618	31,819	33,728	35,299	36,504	37,344	38,203	39,081	39,980	40,900
506	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	32,253	34,649	36,729	38,439	39,752	40,666	41,601	42,558	43,537	44,538
507	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	386	415	440	461	476	487	498	510	522	534
509	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	632	679	720	753	779	797	815	834	853	873
510	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	485	521	552	578	597	611	625	639	654	669
512	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	964	1,036	1,098	1,149	1,188	1,216	1,244	1,272	1,302	1,332
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	142	159	175	193	211	229	241	253	262	270
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	59	66	73	80	88	95	101	105	109	113
516	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	20,473	21,994	23,314	24,399	25,232	25,813	26,406	27,014	27,635	28,271
517	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	39,989	42,960	45,538	47,659	49,286	50,420	51,579	52,765	53,979	55,221
518	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,406	18,700	19,822	20,745	21,453	21,947	22,452	22,968	23,496	24,037
519	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,216	1,306	1,384	1,449	1,498	1,533	1,568	1,604	1,641	1,679
520	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	24,000	25,783	27,330	28,603	29,580	30,260	30,956	31,668	32,396	33,141
521	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	26,135	28,077	29,762	31,148	32,211	32,952	33,710	34,485	35,278	36,090
522	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	698	750	795	832	861	880	901	921	942	964
524	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1,142	1,227	1,300	1,361	1,407	1,440	1,473	1,507	1,541	1,577
525	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	876	941	997	1,044	1,079	1,104	1,129	1,155	1,182	1,209
527	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,742	1,872	1,984	2,077	2,197	2,247	2,299	2,352	2,406	2,460
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	70	79	87	96	105	114	120	125	130	134
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	29	33	36	40	44	47	50	52	54	56
531	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	23,057	24,770	26,256	27,479	28,417	29,071	29,739	30,423	31,123	31,839
532	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	36,914	39,657	42,037	43,995	45,497	46,543	47,614	48,709	49,829	50,975
533	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	15,670	16,834	17,844	18,675	19,313	19,757	20,212	20,676	21,152	21,638
534	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,598	1,717	1,820	1,905	1,970	2,015	2,062	2,109	2,158	2,207
535	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	24,129	25,922	27,477	28,757	29,739	30,423	31,123	31,838	32,571	33,320
536	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	16,147	17,347	18,388	19,244	19,901	20,359	20,827	21,306	21,796	22,297
537	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	5,536	5,947	6,304	6,598	6,823	6,980	7,140	7,305	7,473	7,644
539	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	5,959	6,402	6,786	7,102	7,345	7,514	7,687	7,863	8,044	8,229

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	6,075	6,526	6,918	7,240	7,487	7,659	7,836	8,016	8,200	8,389
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	7,597	8,162	8,652	9,055	9,364	9,579	9,799	10,025	10,255	10,491
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	494	552	611	671	733	796	840	879	912	940
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	267	298	330	363	396	430	454	475	493	508
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	6,677	7,173	7,603	7,957	8,229	8,418	8,612	8,810	9,013	9,220
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	14,109	15,158	16,067	16,816	17,390	17,790	18,199	18,617	19,046	19,484
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	6,203	6,664	7,064	7,393	7,645	7,821	8,001	8,185	8,373	8,566
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	373	401	425	444	460	470	481	492	503	515
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	8,187	8,795	9,323	9,757	10,090	10,322	10,559	10,802	11,051	11,305
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	10,810	11,613	12,310	12,883	13,323	13,629	13,943	14,264	14,592	14,927
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	1,867	2,005	2,126	2,225	2,301	2,354	2,408	2,463	2,520	2,578
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	3,603	3,871	4,103	4,294	4,441	4,543	4,647	4,754	4,864	4,975
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	2,468	2,652	2,811	2,942	3,042	3,112	3,184	3,257	3,332	3,408
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	5,902	6,341	6,721	7,034	7,275	7,442	7,613	7,788	7,967	8,151
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,097	1,225	1,356	1,490	1,628	1,768	1,865	1,952	2,026	2,087
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	412	461	510	560	612	665	701	734	762	785
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	106,185	114,074	120,920	126,552	130,872	133,882	136,962	140,112	143,334	146,631
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	158,580	170,362	180,587	188,997	195,449	199,945	204,543	209,248	214,060	218,984
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	66,727	71,685	75,987	79,526	82,241	84,132	86,067	88,047	90,072	92,144
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	7,771	8,348	8,849	9,261	9,577	9,798	10,023	10,254	10,489	10,731
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	106,798	114,733	121,618	127,283	131,628	134,655	137,752	140,921	144,162	147,478
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	60,275	64,753	68,639	71,836	74,288	75,997	77,745	79,533	81,362	83,233
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	11,514	12,370	13,112	13,723	14,191	14,518	14,852	15,193	15,543	15,900
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	10,707	11,503	12,193	12,761	13,197	13,500	13,811	14,129	14,454	14,786
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	12,059	12,954	13,732	14,372	14,862	15,204	15,554	15,911	16,277	16,652
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	11,802	12,679	13,440	14,066	14,546	14,881	15,223	15,573	15,931	16,298
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,188	2,444	2,706	2,973	3,247	3,528	3,721	3,894	4,042	4,164
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,295	1,447	1,602	1,760	1,922	2,088	2,203	2,305	2,393	2,465
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	731	759	777	794	813	831	850	870	890	911
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	900	1,005	1,113	1,223	1,336	1,451	1,531	1,602	1,663	1,713
580	C&I Prescriptive	180W LPS	Lighting - exterior	900	1,005	1,113	1,223	1,336	1,451	1,531	1,602	1,663	1,713
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	283	316	350	385	420	457	482	504	523	539
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	720	804	890	979	1,069	1,161	1,225	1,281	1,330	1,370
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	593	663	733	806	880	956	1,009	1,056	1,096	1,129
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	900	1,005	1,113	1,223	1,336	1,451	1,531	1,602	1,663	1,713
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	900	1,005	1,113	1,223	1,336	1,451	1,531	1,602	1,663	1,713
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	710	793	878	965	1,054	1,145	1,207	1,263	1,311	1,351
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	730	815	903	992	1,083	1,177	1,242	1,299	1,349	1,389
588	C&I Prescriptive	Premium Efficiency Motor	Motors	155	173	192	211	230	244	255	265	274	280
589	C&I Prescriptive	Premium Efficiency Motor	Motors	279	312	345	379	414	438	459	477	492	503
590	C&I Prescriptive	Premium Efficiency Motor	Motors	194	217	240	264	289	305	320	333	343	351
591	C&I Prescriptive	Premium Efficiency Motor	Motors	212	237	262	288	315	333	349	362	374	382
592	C&I Prescriptive	Premium Efficiency Motor	Motors	211	235	261	286	313	331	347	360	372	380
593	C&I Prescriptive	Premium Efficiency Motor	Motors	191	213	236	259	283	300	314	326	336	344
594	C&I Prescriptive	Premium Efficiency Motor	Motors	139	155	172	189	206	218	228	237	245	250
595	C&I Prescriptive	Premium Efficiency Motor	Motors	103	115	127	139	152	161	169	175	181	185
596	C&I Prescriptive	Premium Efficiency Motor	Motors	52	58	64	71	77	82	86	89	92	94
597	C&I Prescriptive	Premium Efficiency Motor	Motors	17	19	21	23	26	27	28	30	30	31
598	C&I Prescriptive	Premium Efficiency Motor	Motors	69	77	85	94	102	108	114	118	122	124
599	C&I Prescriptive	Premium Efficiency Motor	Motors	194	217	240	264	288	305	320	332	343	350
600	C&I Prescriptive	Premium Efficiency Motor	Motors	154	172	191	210	229	242	254	264	272	278
601	C&I Prescriptive	Premium Efficiency Motor	Motors	123	138	153	168	183	194	203	211	218	223
602	C&I Prescriptive	Premium Efficiency Motor	Motors	151	168	186	205	224	236	248	258	266	272
603	C&I Prescriptive	Premium Efficiency Motor	Motors	103	115	127	139	152	161	169	175	181	185
604	C&I Prescriptive	Premium Efficiency Motor	Motors	48	53	59	65	71	75	79	82	84	86
605	C&I Prescriptive	Premium Efficiency Motor	Motors	20	22	24	27	29	31	32	34	35	36
606	C&I Prescriptive	Premium Efficiency Motor	Motors	13	14	16	17	19	20	21	21	22	23
607	C&I Prescriptive	Premium Efficiency Motor	Motors	6	7	8	9	9	10	10	11	11	11
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	76	85	91	96	101	104	106	109	111	114
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	58	65	70	74	77	79	81	83	85	87
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
617	C&I Prescriptive	Domestic hot water circulation pump control	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	3,618	4,008	4,407	4,816	5,234	5,661	5,848	6,025	6,194	6,352
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	629	697	767	838	910	985	1,017	1,048	1,078	1,105
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	719	797	876	957	1,040	1,125	1,162	1,198	1,231	1,263
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	436	483	531	580	630	682	704	726	746	765
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	319	353	389	425	462	499	516	531	546	560
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	437	484	532	581	632	683	706	727	748	767
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	506	560	616	673	732	791	817	842	866	888
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	646	716	787	860	935	1,011	1,044	1,076	1,106	1,134
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	152	168	185	202	219	237	245	252	259	266
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	151	168	184	201	219	237	245	252	259	266
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	1,832	2,046	2,266	2,490	2,719	2,876	3,015	3,133	3,230	3,304
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	466	516	568	620	674	697	718	739	758	775
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	1,730	1,932	2,139	2,350	2,567	2,715	2,846	2,958	3,049	3,119
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	782	874	967	1,063	1,161	1,228	1,287	1,338	1,379	1,410
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	922	981	1,029	1,066	1,090	1,115	1,141	1,167	1,194	1,222
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	894	952	999	1,034	1,058	1,082	1,107	1,133	1,159	1,185
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	150	156	160	164	167	171	175	179	183	188
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	113	117	120	122	125	128	131	134	137	140
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	2,458	2,745	3,039	3,340	3,648	3,962	4,180	4,373	4,540	4,677
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	738	755	773	791	809	827	846	866	886	906
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	2,352	2,406	2,461	2,518	2,576	2,635	2,696	2,758	2,821	2,886
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	659	701	736	762	779	797	815	834	853	873
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,175	2,225	2,277	2,329	2,383	2,437	2,493	2,551	2,609	2,669
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	5,521	5,719	5,899	6,060	6,199	6,342	6,488	6,637	6,790	6,946
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	12,478	13,284	13,939	14,433	14,765	15,104	15,452	15,807	16,171	16,543
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	3,500	3,909	4,328	4,756	5,194	5,493	5,759	5,985	6,169	6,311
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,914	8,096	8,282	8,473	8,668	8,867	9,071	9,280	9,493	9,712
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	9,274	9,487	9,705	9,929	10,157	10,391	10,630	10,874	11,124	11,380
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	9,728	9,952	10,181	10,415	10,655	10,900	11,150	11,407	11,669	11,938
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	10,810	11,059	11,313	11,574	11,840	12,112	12,391	12,676	12,967	13,266
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	899	1,004	1,073	1,134	1,184	1,223	1,251	1,280	1,310	1,340
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,419	2,702	2,888	3,051	3,186	3,292	3,367	3,445	3,524	3,605
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,234	3,612	3,861	4,078	4,259	4,400	4,501	4,604	4,710	4,819
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,290	4,791	5,122	5,410	5,650	5,837	5,971	6,108	6,249	6,392
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	5,468	5,875	6,227	6,517	6,740	6,895	7,053	7,215	7,381	7,551
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	15,690	16,856	17,867	18,699	19,338	19,782	20,237	20,703	21,179	21,666
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	7,169	7,702	8,164	8,544	8,836	9,039	9,247	9,460	9,678	9,900
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	241	259	274	287	297	303	310	318	325	332
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	7,984	8,577	9,091	9,515	9,840	10,066	10,298	10,534	10,777	11,025
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	22,290	23,946	25,384	26,566	27,473	28,105	28,751	29,412	30,089	30,781
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	974	1,047	1,109	1,161	1,201	1,228	1,257	1,286	1,315	1,345
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	3,578	3,844	4,074	4,264	4,410	4,511	4,615	4,721	4,830	4,941
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	1,582	1,699	1,801	1,885	1,950	1,994	2,040	2,087	2,135	2,184
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	7,726	8,300	8,798	9,208	9,523	9,742	9,966	10,195	10,429	10,669
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	859	959	1,062	1,167	1,275	1,385	1,461	1,529	1,587	1,635
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	217	242	268	294	321	349	368	385	400	412
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	44	46	47	48	49	50	51	52	53	55
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	72	80	89	97	106	115	122	127	132	136
690	C&I Prescriptive	180W LPS	Lighting - exterior	85	94	105	115	125	136	144	150	156	161
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	13	14	16	17	19	21	22	23	24	24
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	65	73	81	89	97	105	111	116	121	124
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	37	41	46	50	55	59	63	66	68	70

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	74	83	92	101	110	120	126	132	137	141
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	89	100	110	121	132	144	152	159	165	170
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	48	53	59	65	71	77	81	85	88	91
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	50	55	61	67	74	80	84	88	92	94
698	C&I Prescriptive	Premium Efficiency Motor	Motors	34	38	42	46	50	53	56	58	60	61
699	C&I Prescriptive	Premium Efficiency Motor	Motors	47	53	58	64	70	74	78	81	83	85
700	C&I Prescriptive	Premium Efficiency Motor	Motors	40	45	49	54	59	63	66	68	70	72
701	C&I Prescriptive	Premium Efficiency Motor	Motors	40	45	50	55	60	64	67	69	71	73
702	C&I Prescriptive	Premium Efficiency Motor	Motors	33	37	41	45	49	52	54	56	58	59
703	C&I Prescriptive	Premium Efficiency Motor	Motors	34	38	42	46	50	53	56	58	59	61
704	C&I Prescriptive	Premium Efficiency Motor	Motors	26	30	33	36	39	42	44	45	47	48
705	C&I Prescriptive	Premium Efficiency Motor	Motors	22	25	28	31	33	35	37	38	40	41
706	C&I Prescriptive	Premium Efficiency Motor	Motors	12	13	15	16	17	18	19	20	21	21
707	C&I Prescriptive	Premium Efficiency Motor	Motors	7	8	9	10	11	12	12	13	13	14
708	C&I Prescriptive	Premium Efficiency Motor	Motors	18	20	22	25	27	28	30	31	32	33
709	C&I Prescriptive	Premium Efficiency Motor	Motors	40	44	49	54	59	62	65	68	70	71
710	C&I Prescriptive	Premium Efficiency Motor	Motors	34	38	42	46	50	53	55	57	59	61
711	C&I Prescriptive	Premium Efficiency Motor	Motors	28	31	34	38	41	44	46	48	49	50
712	C&I Prescriptive	Premium Efficiency Motor	Motors	23	26	29	32	35	37	39	40	41	42
713	C&I Prescriptive	Premium Efficiency Motor	Motors	21	24	26	29	31	33	35	36	37	38
714	C&I Prescriptive	Premium Efficiency Motor	Motors	11	12	14	15	16	17	18	19	20	20
715	C&I Prescriptive	Premium Efficiency Motor	Motors	7	8	8	9	10	11	11	12	12	12
716	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	5	5	6	6	6	6	7	7
717	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	5	5	6	6	7	7	7	7
718	C&I Prescriptive	Premium Efficiency Motor	Motors	55	61	68	74	81	86	90	94	96	99
719	C&I Prescriptive	Premium Efficiency Motor	Motors	71	80	88	97	106	112	117	122	126	129
720	C&I Prescriptive	Premium Efficiency Motor	Motors	66	74	82	90	98	104	109	113	117	120
721	C&I Prescriptive	Premium Efficiency Motor	Motors	61	68	76	83	91	96	101	105	108	110
722	C&I Prescriptive	Premium Efficiency Motor	Motors	56	63	69	76	83	88	92	96	99	101
723	C&I Prescriptive	Premium Efficiency Motor	Motors	51	57	63	69	76	80	84	87	90	92
724	C&I Prescriptive	Premium Efficiency Motor	Motors	40	44	49	54	59	62	65	68	70	72
725	C&I Prescriptive	Premium Efficiency Motor	Motors	36	40	44	48	53	56	59	61	63	64
726	C&I Prescriptive	Premium Efficiency Motor	Motors	22	24	27	29	32	34	35	37	38	39
727	C&I Prescriptive	Premium Efficiency Motor	Motors	14	16	18	19	21	22	23	24	25	26
728	C&I Prescriptive	Premium Efficiency Motor	Motors	30	34	38	41	45	48	50	52	54	55
729	C&I Prescriptive	Premium Efficiency Motor	Motors	63	71	78	86	94	99	104	108	111	114
730	C&I Prescriptive	Premium Efficiency Motor	Motors	61	68	76	83	91	96	101	104	108	110
731	C&I Prescriptive	Premium Efficiency Motor	Motors	52	58	64	70	77	81	85	88	91	93
732	C&I Prescriptive	Premium Efficiency Motor	Motors	44	49	55	60	66	69	73	76	78	80
733	C&I Prescriptive	Premium Efficiency Motor	Motors	31	35	39	43	47	49	52	54	55	57
734	C&I Prescriptive	Premium Efficiency Motor	Motors	16	18	20	22	24	26	27	28	29	30
735	C&I Prescriptive	Premium Efficiency Motor	Motors	11	13	14	16	17	18	19	20	20	21
736	C&I Prescriptive	Premium Efficiency Motor	Motors	8	9	10	11	12	13	13	14	14	15
737	C&I Prescriptive	Premium Efficiency Motor	Motors	8	9	10	11	12	13	14	14	15	15
738	C&I Prescriptive	Premium Efficiency Motor	Motors	237	265	293	322	352	372	390	406	418	428
739	C&I Prescriptive	Premium Efficiency Motor	Motors	289	323	357	393	429	454	476	494	510	521
740	C&I Prescriptive	Premium Efficiency Motor	Motors	253	283	313	344	376	398	417	433	447	457
741	C&I Prescriptive	Premium Efficiency Motor	Motors	248	277	306	337	368	389	408	424	437	447
742	C&I Prescriptive	Premium Efficiency Motor	Motors	209	234	259	285	311	329	345	358	369	378
743	C&I Prescriptive	Premium Efficiency Motor	Motors	206	231	255	281	306	324	340	353	364	372
744	C&I Prescriptive	Premium Efficiency Motor	Motors	160	179	198	218	238	251	263	274	282	289
745	C&I Prescriptive	Premium Efficiency Motor	Motors	160	179	198	217	237	251	263	274	282	289
746	C&I Prescriptive	Premium Efficiency Motor	Motors	111	124	137	151	164	174	182	190	195	200
747	C&I Prescriptive	Premium Efficiency Motor	Motors	77	86	96	105	115	122	127	132	136	140
748	C&I Prescriptive	Premium Efficiency Motor	Motors	137	153	169	186	203	215	226	234	242	247
749	C&I Prescriptive	Premium Efficiency Motor	Motors	270	302	334	367	401	424	444	462	476	487
750	C&I Prescriptive	Premium Efficiency Motor	Motors	215	240	265	292	319	337	353	367	378	387
751	C&I Prescriptive	Premium Efficiency Motor	Motors	179	200	221	243	266	281	294	306	315	323
752	C&I Prescriptive	Premium Efficiency Motor	Motors	151	169	187	205	224	237	249	259	266	273
753	C&I Prescriptive	Premium Efficiency Motor	Motors	127	142	157	172	188	199	209	217	224	229
754	C&I Prescriptive	Premium Efficiency Motor	Motors	66	74	82	90	98	104	109	113	117	120
755	C&I Prescriptive	Premium Efficiency Motor	Motors	59	66	74	81	88	93	98	102	105	107
756	C&I Prescriptive	Premium Efficiency Motor	Motors	51	57	63	69	76	80	84	87	90	92
757	C&I Prescriptive	Premium Efficiency Motor	Motors	50	56	62	68	75	79	83	86	89	91
758	C&I Prescriptive	Premium Efficiency Motor	Motors	151	169	187	206	224	237	249	259	267	273
759	C&I Prescriptive	Premium Efficiency Motor	Motors	330	369	408	449	490	518	543	565	582	595
760	C&I Prescriptive	Premium Efficiency Motor	Motors	295	329	365	401	438	463	485	504	520	532
761	C&I Prescriptive	Premium Efficiency Motor	Motors	320	357	396	435	475	502	527	547	564	577
762	C&I Prescriptive	Premium Efficiency Motor	Motors	242	270	299	328	359	379	398	413	426	436
763	C&I Prescriptive	Premium Efficiency Motor	Motors	252	282	312	343	374	396	415	431	445	455
764	C&I Prescriptive	Premium Efficiency Motor	Motors	178	199	220	242	264	280	293	305	314	321
765	C&I Prescriptive	Premium Efficiency Motor	Motors	181	202	224	246	268	284	297	309	319	326
766	C&I Prescriptive	Premium Efficiency Motor	Motors	82	91	101	111	121	128	135	140	144	147
767	C&I Prescriptive	Premium Efficiency Motor	Motors	49	55	60	66	73	77	80	84	86	88
768	C&I Prescriptive	Premium Efficiency Motor	Motors	53	59	65	72	78	83	87	90	93	95
769	C&I Prescriptive	Premium Efficiency Motor	Motors	207	231	255	281	307	324	340	353	364	372
770	C&I Prescriptive	Premium Efficiency Motor	Motors	235	263	291	320	349	370	387	403	415	425

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
771	C&I Prescriptive	Premium Efficiency Motor	Motors	189	211	234	257	281	297	311	323	333	341
772	C&I Prescriptive	Premium Efficiency Motor	Motors	155	173	192	211	230	243	255	265	273	280
773	C&I Prescriptive	Premium Efficiency Motor	Motors	124	139	154	169	185	195	205	213	219	224
774	C&I Prescriptive	Premium Efficiency Motor	Motors	53	59	66	72	79	83	87	91	93	96
775	C&I Prescriptive	Premium Efficiency Motor	Motors	45	50	55	61	66	70	73	76	78	80
776	C&I Prescriptive	Premium Efficiency Motor	Motors	21	23	26	28	31	33	34	36	37	37
777	C&I Prescriptive	Premium Efficiency Motor	Motors	23	26	28	31	34	36	38	39	40	41
778	C&I Custum	Compressed Air-O&M	All systems	247,153,282	251,213,959	255,909,314	261,253,945	267,262,786	273,409,830	279,698,256	286,131,316	292,712,336	299,444,720
779	C&I Custum	Compressed Air - Controls	All systems	82,384,427	83,737,986	85,303,105	87,084,648	89,087,595	91,136,610	93,232,752	95,377,105	97,570,779	99,814,907
780	C&I Custum	Compressed Air - System Optimization	All systems	164,768,855	167,475,972	170,606,209	174,169,297	178,175,190	182,273,220	186,465,504	190,754,210	195,141,557	199,629,813
781	C&I Custum	Compressed Air- Sizing	All systems	131,815,084	133,980,778	136,484,967	139,335,437	142,540,152	145,818,576	149,172,403	152,603,368	156,113,246	159,703,851
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	3,072,021	3,385,193	3,705,567	4,033,310	4,368,591	4,444,497	4,528,291	4,620,156	4,720,277	4,828,843
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	133,449,620	135,642,169	138,177,411	141,063,227	144,307,682	147,626,758	151,022,174	154,495,684	158,049,085	161,684,213
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	83,753,237	85,129,285	86,720,407	88,531,551	90,567,777	92,650,836	94,781,805	96,961,787	99,191,908	101,473,322
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	40,189,151	41,113,501	42,059,112	43,026,471	44,016,080	45,028,450	46,064,104	47,123,579	48,207,421	49,316,192
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	201,642,540	206,280,318	211,024,766	215,878,335	220,843,537	225,922,938	231,119,166	236,434,907	241,872,909	247,435,986
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	201,642,540	206,280,318	211,024,766	215,878,335	220,843,537	225,922,938	231,119,166	236,434,907	241,872,909	247,435,986
791	C&I Custum	Power recovery	All systems	40,442,663	41,107,127	41,875,447	42,750,010	43,733,260	44,739,125	45,768,125	46,820,792	47,897,670	48,999,316
792	C&I Custum	Refinery Controls	All systems	162,079,672	164,742,607	167,821,755	171,326,690	175,267,203	179,298,349	183,422,211	187,640,922	191,956,663	196,371,666
793	C&I Custum	Energy Star Transformers	All systems	449,709	495,554	542,453	590,431	639,512	689,723	741,088	793,634	847,389	902,380
794	C&I Custum	Fans - O&M	All systems	164,768,855	167,475,972	170,606,209	174,169,297	178,175,190	182,273,220	186,465,504	190,754,210	195,141,557	199,629,813
795	C&I Custum	Fans - Controls	All systems	39,026,518	39,667,715	40,409,131	41,253,070	42,201,891	43,172,535	44,165,503	45,181,309	46,220,480	47,283,551
796	C&I Custum	Fans - System Optimization	All systems	26,213,383	26,644,063	27,142,058	27,708,917	28,346,222	28,998,185	29,665,143	30,347,441	31,045,433	31,759,478
797	C&I Custum	Fans- Improve components	All systems	65,907,542	66,990,389	68,242,484	69,667,719	71,270,076	72,909,288	74,586,202	76,301,684	78,056,623	79,851,925
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	3,072,021	3,385,193	3,705,567	4,033,310	4,368,591	4,444,497	4,528,291	4,620,156	4,720,277	4,828,843
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	133,449,620	135,642,169	138,177,411	141,063,227	144,307,682	147,626,758	151,022,174	154,495,684	158,049,085	161,684,213
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	83,753,237	85,129,285	86,720,407	88,531,551	90,567,777	92,650,836	94,781,805	96,961,787	99,191,908	101,473,322
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	40,189,151	41,113,501	42,059,112	43,026,471	44,016,080	45,028,450	46,064,104	47,123,579	48,207,421	49,316,192
805	C&I Custum	Fans - ASD (100+ hp)	All systems	201,642,540	206,280,318	211,024,766	215,878,335	220,843,537	225,922,938	231,119,166	236,434,907	241,872,909	247,435,986
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	201,642,540	206,280,318	211,024,766	215,878,335	220,843,537	225,922,938	231,119,166	236,434,907	241,872,909	247,435,986
807	C&I Custum	Optimize drying process	All systems	101,973,973	103,649,384	105,586,660	107,791,823	110,271,035	112,807,269	115,401,836	118,056,078	120,771,368	123,549,109
808	C&I Custum	Pumps - O&M	All systems	131,815,084	133,980,778	136,484,967	139,335,437	142,540,152	145,818,576	149,172,403	152,603,368	156,113,246	159,703,851
809	C&I Custum	Pumps - Controls	All systems	115,338,198	117,233,181	119,424,346	121,918,508	124,722,633	127,591,254	130,525,853	133,527,947	136,599,090	139,740,869
810	C&I Custum	Pumps - System Optimization	All systems	77,136,547	78,403,885	79,869,305	81,537,365	83,412,724	85,331,217	87,293,835	89,301,593	91,355,529	93,456,707
811	C&I Custum	Pumps - Sizing	All systems	65,907,542	66,990,389	68,242,484	69,667,719	71,270,076	72,909,288	74,586,202	76,301,684	78,056,623	79,851,925
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	3,072,021	3,385,193	3,705,567	4,033,310	4,368,591	4,444,497	4,528,291	4,620,156	4,720,277	4,828,843
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	133,449,620	135,642,169	138,177,411	141,063,227	144,307,682	147,626,758	151,022,174	154,495,684	158,049,085	161,684,213
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	83,753,237	85,129,285	86,720,407	88,531,551	90,567,777	92,650,836	94,781,805	96,961,787	99,191,908	101,473,322
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	40,189,151	41,113,501	42,059,112	43,026,471	44,016,080	45,028,450	46,064,104	47,123,579	48,207,421	49,316,192
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	201,642,540	206,280,318	211,024,766	215,878,335	220,843,537	225,922,938	231,119,166	236,434,907	241,872,909	247,435,986
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	201,642,540	206,280,318	211,024,766	215,878,335	220,843,537	225,922,938	231,119,166	236,434,907	241,872,909	247,435,986
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	2,253,543	2,290,568	2,333,380	2,382,113	2,436,901	2,492,950	2,550,288	2,608,945	2,668,950	2,730,336
822	C&I Custum	Optimization refrigeration	Refrigeration	327,604	361,001	395,166	430,117	465,872	473,967	482,903	492,699	503,376	514,954
823	C&I Custum	Bakery - process	Process	790,655	871,257	953,713	1,038,065	1,124,357	1,143,893	1,165,460	1,189,103	1,214,872	1,242,814
824	C&I Custum	Bakery - process (mixing)	Process	1,068,988	1,086,551	1,106,860	1,129,976	1,155,966	1,182,553	1,209,752	1,237,576	1,266,040	1,295,159
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	9,523,908	10,494,806	10,660,008	10,848,054	11,059,470	11,294,794	11,554,574	11,820,329	12,092,197	12,370,317
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	1,629,902	1,796,059	1,824,332	1,856,514	1,892,695	1,932,968	1,977,426	2,022,907	2,069,433	2,117,030
830	C&I Custum	Direct drive extruders	Machine Drive	108,426	119,479	121,360	123,501	125,907	128,587	131,544	134,570	137,665	140,831
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	1,018,689	1,122,537	1,140,207	1,160,321	1,182,934	1,208,105	1,235,891	1,264,317	1,293,396	1,323,144
832	C&I Custum	Injection molding - direct drive	Machine Drive	499,393	550,303	558,966	568,826	579,912	592,251	605,873	619,808	634,063	648,647
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	3,863,605	3,927,083	4,000,483	4,084,033	4,177,965	4,274,058	4,372,362	4,472,926	4,575,803	4,681,047
835	C&I Custum	Top-heating (glass)	Process Heating	943,665	962,817	984,962	1,007,616	1,030,791	1,054,499	1,078,753	1,103,564	1,128,946	1,154,912
836	C&I Custum	Process controls	Process	101,342,428	103,007,463	104,932,741	107,124,247	109,588,104	112,108,631	114,687,129	117,324,933	120,023,407	122,783,945
837	C&I Custum	Efficient electric melting	Process Heating	4,459,574	4,914,197	5,379,277	5,855,053	6,341,772	6,839,686	7,349,051	7,870,132	8,403,198	8,948,525
838	C&I Custum	Near net shape casting	Machine Drive	3,221,046	3,549,410	3,885,326	4,228,968	4,580,513	4,660,101	4,747,961	4,844,282	4,949,259	5,063,092
839	C&I Custum	Optimization process (M&T)	Process	994,060	1,010,393	1,029,278	1,050,774	1,079,665	1,124,958	1,150,832	1,177,301	1,204,379	1,234,379
840	C&I Custum	Scheduling	Process	503,978	512,259	521,833	532,731	544,984	557,519	570,342	583,460	596,879	610,608
841	C&I Custum	Efficient curing ovens	Process Heating	115,229	126,976	138,993	151,287	163,863	176,710	189,853	173,299	177,054	181,127
842	C&I Custum	Machinery	Machine Drive	858,989	873,102	889,421	907,996	928,880	950,245	972,100	994,459	1,017,331	1,040,730
843	C&I Custum	Optimization process (M&T)	Process	424,941	431,923	439,996	449,185	459,516	470,085	480,897	491,958	503,273	514,848
844	C&I Custum	Scheduling	Process	215,441	218,980								

3: Cumulative Installations

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
848	C&I Custom	Scheduling	Process	198,339	201,598	205,366	209,655	214,477	219,410	224,456	229,619	234,900	240,303
849	C&I Custom	Efficient curing ovens	Process Heating	28,640	31,560	34,547	37,602	40,728	41,436	42,217	43,073	44,007	45,019
850	C&I Custom	Machinery	Machine Drive	266,097	270,469	275,524	281,279	287,748	294,366	301,137	308,063	315,148	322,397
851	C&I Custom	Scheduling	Process	251,029	255,153	259,922	265,350	271,453	277,697	284,084	290,618	297,302	304,140
852	C&I Custom	Efficient curing ovens	Process Heating	51,743	57,017	62,414	67,934	73,581	74,860	76,271	77,818	79,505	81,333
853	C&I Custom	Machinery	Machine Drive	116,299	118,210	120,419	122,934	125,761	128,654	131,613	134,640	137,737	140,905
854	C&I Custom	Efficient processes (welding, etc.)	Process	359,388	396,025	433,505	471,846	511,070	519,950	529,753	540,500	552,213	564,914
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	40,510	41,685	42,809	43,877	44,886	45,918	46,975	48,055	49,160	50,291
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	14,751	16,582	16,952	17,336	17,735	18,143	18,560	18,987	19,424	19,870
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	7,108	7,991	8,169	8,354	8,546	8,743	8,944	9,149	9,360	9,575
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
865	Commercial Demand Credit	Commercial Demand Credit	All systems	80	80	80	80	80	80	80	80	80	80
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	1,248,427	2,895,123	5,013,249	7,660,036	10,367,700	13,137,640	15,971,289	18,870,112	21,835,607
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	230,731	535,069	926,536	1,415,708	1,916,132	2,428,065	2,951,773	3,487,525	4,035,601
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	264,863	614,221	1,063,597	1,625,132	2,199,582	2,787,245	3,388,424	4,003,430	4,632,581
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	313,507	727,027	1,258,934	1,923,599	2,603,552	3,299,143	4,010,733	4,738,689	5,483,389
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	125,248	290,452	502,952	768,490	1,040,136	1,318,029	1,602,314	1,893,137	2,190,649
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	27,052	62,734	108,631	165,983	224,655	284,676	346,077	408,891	473,149
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	37,441	86,826	150,349	229,728	310,931	394,003	478,985	565,922	654,859
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	0	261,620	606,702	1,050,576	1,605,236	2,172,654	2,753,123	3,346,942	3,954,419	4,575,868
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	0	345,685	801,649	1,388,150	2,121,036	2,870,779	3,637,765	4,422,392	5,225,066	6,046,201
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	0	151,455	351,227	608,192	929,292	1,257,777	1,593,818	1,937,587	2,289,263	2,649,028
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	0	651,720	1,511,350	2,617,082	3,998,793	5,412,283	6,858,284	8,337,542	9,850,824	11,398,911
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	0	192,581	446,598	773,338	1,181,628	1,599,309	2,026,596	2,463,711	2,910,880	3,368,334
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	0	108,908	252,559	437,336	668,231	904,437	1,146,075	1,393,271	1,646,153	1,904,851
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	605,022	1,403,056	2,429,558	3,712,264	5,024,472	6,366,861	7,740,125	9,144,974	10,582,134
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	1,218,443	2,825,589	4,892,842	7,476,060	10,118,692	12,822,105	15,587,696	18,416,896	21,311,167
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	750,994	1,741,568	3,015,732	4,607,913	6,236,715	7,902,979	9,607,567	11,351,361	13,135,262
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	289,224	670,715	1,161,422	1,774,605	2,401,891	3,043,605	3,700,078	4,371,650	5,058,668
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	757,108	1,755,746	3,040,283	4,645,426	6,287,488	6,287,488	6,287,488	6,287,488	6,287,488
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	192,873	447,277	774,512	1,183,423	1,601,738	1,601,738	1,601,738	1,601,738	1,601,738
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	211,834	491,247	850,652	1,299,762	1,759,200	1,759,200	1,759,200	1,759,200	1,759,200
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existi	Gas Furnace / Central AC	0	301,773	699,817	1,211,815	1,851,604	2,506,107	2,506,107	2,506,107	2,506,107	2,506,107
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	32,254	75,960	134,056	209,478	304,715	402,143	501,811	603,773	708,079	814,784
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	61,877	145,722	257,175	401,865	584,570	771,478	962,684	1,158,287	1,358,390	1,563,095
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	14,604	34,393	60,697	94,847	137,968	182,081	227,209	273,374	320,602	368,916
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	18,102	42,631	75,236	117,565	171,016	225,695	281,632	338,856	397,396	457,282
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	42,369	99,781	176,096	275,171	400,275	528,256	659,182	793,118	930,135	1,070,303
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	8,831	20,797	36,703	57,352	83,426	110,101	137,389	165,304	193,862	223,076
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	95,806	225,628	398,194	622,225	905,114	1,194,510	1,490,562	1,793,424	2,103,251	2,420,204
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	216,028	508,753	897,862	1,403,013	2,040,882	2,693,422	3,360,970	4,043,872	4,742,481	5,457,158
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	47,095	110,910	195,738	305,863	444,921	587,178	732,706	881,582	1,033,882	1,189,684
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	14,661	33,998	58,872	89,954	127,589	166,090	205,477	245,769	286,988	329,155
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	281,968	664,046	1,171,926	1,831,270	2,663,842	3,515,564	4,386,876	5,278,227	6,190,080	7,122,905
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	880,105	2,072,681	3,657,926	5,715,930	8,314,633	10,973,107	13,692,725	16,474,894	19,321,053	22,232,674
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	220,909	520,250	918,152	1,434,719	2,087,002	2,754,288	3,436,922	4,135,256	4,849,652	5,580,479
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	63,127	146,393	253,497	387,333	549,389	715,171	884,767	1,058,263	1,235,749	1,417,318
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	170,194	340,389	510,583	680,777	850,972	1,021,166	1,191,360	1,361,555	1,531,749	1,701,943
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	162,022	324,043	486,065	648,087	810,108	972,130	1,134,151	1,296,173	1,458,195	1,620,216
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	68,552	137,104	205,656	274,209	342,761	411,313	479,865	548,417	616,969	685,522
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	13,209,277	30,291,920	51,768,178	77,940,885	108,825,633	140,420,730	172,742,514	205,807,699	239,633,383	274,237,058

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	2,477,808	5,682,184	9,710,719	14,620,218	20,413,605	26,340,240	32,403,188	38,605,584	44,950,635	51,441,621
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	1,401,243	3,213,373	5,491,579	8,267,985	11,544,246	14,895,860	18,324,562	21,832,123	25,420,359	29,091,124
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	10,036,002	23,014,868	39,331,867	59,217,084	82,682,363	106,687,345	131,244,440	156,366,349	182,066,062	208,356,868
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	385,276	883,527	1,509,927	2,273,308	3,174,126	4,095,663	5,038,395	6,002,810	6,989,407	7,998,695
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	45,399	104,110	177,922	267,875	374,023	482,612	593,699	707,341	823,596	942,526
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	50,221	115,168	196,819	296,326	413,748	533,871	656,756	782,468	911,071	1,042,632
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	33,274	76,304	130,402	196,329	274,127	353,713	435,130	518,420	603,625	690,790
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	940,994	1,881,987	2,822,981	3,763,974	4,704,968	5,645,962	6,586,955	7,527,949	8,468,942	9,409,936
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	222,401	444,803	667,204	889,606	1,112,007	1,334,408	1,556,810	1,779,211	2,001,612	2,224,014
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	223,502	447,005	670,507	894,009	1,117,512	1,341,014	1,564,516	1,788,019	2,011,521	2,235,024
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	176,221	415,008	732,417	1,144,486	1,664,818	2,197,117	2,741,660	3,298,726	3,868,606	4,275,371
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	195,877	461,299	814,113	1,272,145	1,850,516	2,442,190	3,047,471	3,666,675	4,300,120	4,752,257
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	72,559	170,878	301,571	471,240	685,485	904,658	1,128,872	1,358,243	1,592,890	1,760,374
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	29,603	69,716	123,037	192,260	279,670	369,090	460,567	554,147	649,880	718,212
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	155,075	365,207	644,528	1,007,150	1,465,043	1,933,467	2,412,665	2,902,885	3,404,380	3,917,409
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	178,369	420,066	741,345	1,158,437	1,685,111	2,223,899	2,775,079	3,338,936	3,915,761	4,505,854
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	69,578	163,858	289,182	451,880	657,323	867,492	1,082,495	1,302,443	1,527,449	1,757,631
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	2,072	4,879	8,611	13,455	19,573	25,831	32,233	38,782	45,482	52,336
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	70,165	165,240	291,621	455,691	662,867	874,809	1,091,625	1,313,428	1,540,332	1,772,455
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	257,979	607,550	1,072,222	1,675,470	2,437,209	3,216,469	4,013,651	4,829,168	5,663,443	6,516,905
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	117,666	277,108	489,048	764,194	1,111,629	1,467,055	1,830,656	2,202,620	2,583,138	2,972,409
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	56,252	132,475	233,795	365,332	531,427	701,343	875,166	1,052,987	1,234,899	1,420,994
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	31,811	74,917	132,215	206,601	300,531	396,621	494,921	595,483	698,357	803,597
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	27,270	54,540	81,811	109,081	136,351	163,621	190,891	218,162	245,432	272,702
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	35,144	70,288	105,433	140,577	175,721	210,865	246,010	281,154	316,298	351,442
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	11,081	22,162	33,243	44,324	55,405	66,487	77,568	88,649	99,730	110,811
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	24,848	58,519	103,276	161,381	234,751	309,809	386,593	465,144	545,501	627,706
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	58,210	137,088	241,937	378,054	549,933	725,765	905,642	1,089,656	1,277,902	1,470,477
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	11,129	26,210	46,256	72,281	105,142	138,760	173,151	208,333	244,324	281,143
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	10,155	23,917	42,209	65,956	95,942	126,618	158,000	190,103	222,945	256,542
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	36,507	85,976	151,733	237,101	344,897	455,172	567,984	683,391	801,451	922,227
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	5,689	13,397	23,643	36,945	53,742	70,925	88,503	106,486	124,882	143,701
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	45,309	103,903	177,568	267,342	373,279	481,652	592,518	705,934	821,958	940,651
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	8,248	18,915	32,325	48,668	67,953	87,682	107,864	128,511	149,632	171,239
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	17,908	41,066	70,181	105,663	147,533	190,365	234,183	279,009	324,866	371,777
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	23,794	54,565	93,251	140,396	196,029	252,942	311,163	370,724	431,655	493,987
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	1,550	3,554	6,074	9,145	12,769	16,476	20,268	24,148	28,117	32,177
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	11,881	27,245	46,561	70,101	97,878	126,295	155,366	185,105	215,528	246,651
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	163,884	375,824	642,274	966,992	1,350,170	1,742,162	2,143,170	2,553,401	2,973,067	3,402,386
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	62,110	142,432	243,412	366,476	511,695	660,254	812,230	967,702	1,126,749	1,289,454
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	26,615	61,035	104,307	157,042	219,271	282,932	348,057	414,679	482,834	552,557
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	123,836	283,984	485,323	730,690	1,020,232	1,316,433	1,619,447	1,929,431	2,246,544	2,570,951
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	275,685	632,209	1,080,431	1,626,670	2,271,252	2,930,659	3,605,233	4,295,322	5,001,283	5,723,481
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	147,069	337,264	576,376	867,777	1,211,641	1,563,414	1,923,278	2,291,418	2,668,026	3,053,296
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	58,838	134,929	230,591	348,742	484,741	625,475	769,446	916,728	1,067,398	1,221,533
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	143,771	329,699	563,448	848,314	1,184,465	1,528,349	1,880,141	2,240,025	2,608,186	2,984,814
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	138,226	320,547	555,066	848,118	1,202,959	1,565,961	1,927,428	2,291,418	2,654,961	3,019,961
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	15,661	36,319	62,890	96,094	136,299	177,428	217,428	257,428	297,428	337,428
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	1,414,599	2,829,198	4,243,798	5,658,397	7,072,996	8,487,595	9,902,194	11,316,794	12,731,393	14,145,992
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	214,989	429,979	644,968	859,958	1,074,947	1,289,937	1,504,926	1,719,916	1,934,905	2,149,895
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	750,963	1,501,926	2,252,889	3,003,852	3,754,815	4,505,778	5,256,741	6,007,704	6,758,667	7,509,630
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	339,108	678,216	1,017,325	1,356,433	1,695,541	2,034,649	2,373,757	2,712,866	3,051,974	3,391,082
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	1,088,909	2,525,197	3,283,770	4,156,075	5,103,949	5,655,004	5,785,069	5,918,126	6,054,243	6,193,491
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	1,814,848	4,208,662	5,472,949	6,926,791	8,506,581	9,425,007	9,641,782	9,863,543	10,090,405	10,322,484
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	2,298,808	5,330,972	6,932,403	8,773,936	10,775,003	11,938,343	12,212,924	12,493,822	12,781,180	13,075,147
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	3,105,407	7,201,488	9,364,825	11,852,510	14,555,706	16,127,235	16,498,161	16,877,619	17,265,804	17,662,917
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	142,862	331,299	573,684	876,566	1,243,309	1,618,488	2,002,295	2,394,930	2,796,596	3,207,500
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	281,649	653,148	1,131,004	1,728,127	2,451,153	3,190,808	3,947,475	4,721,545	5,513,420	6,323,507
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	374,758	869,069	1,504,897	2,299,420	3,261,467	4,245,641	5,252,451	6,282,417	7,336,073	8,413,963
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	517,568	1,200,248	2,078,372	3,175,666	4,504,323	5,863,539	7,254,016	8,676,475	10,131,650	11,620,295
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	44,931	104,196	180,428	275,686	391,030	509,026	629,736	753,223	879,550	1,008,782
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	92,109	213,602	369,877	565,156	801,610	1,043,502	1,290,958	1,544,105	1,803,075	2,068,001
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	61,238	142,012	245,910	375,741	532,946	693,767	858,287	1,026,590	1,198,765	1,374,899
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	7,958	18,455	31,956	48,828	69,257	90,156	111,535	133,406	155,781	178,670
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	72,791	168,803	292,303	446,626	633,489	824,649	1,020,206	1,220,261	1,424,917	1,634,281
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	15,104	35,026	60,651	92,672	131,445	171,110	211,686	253,197	295,661	339,103
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,781	4,131	7,153	10,929	15,502	20,180	24,966	29,861	34,869	39,993
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,283	5,295	9,170	14,011	19,872	25,869	32,004	38,280	44,700	51,267
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,301	5,336	9,240	14,119	20,026	26,068	32,250	38,574	45,044	51,662
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	447	1,037	1,796	2,745	3,893	5,068	6,269	7,499	8,756	10,043
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	1,355	3,142	5,441	8,313	11,791	15,349	18,989	22,713	25,167	27,277
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	1,719	3,986	6,902	10,545	14,958	19,471	24,089	28,812	33,644	38,588
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	1,770	4,104	7,106	10,858	15,401	20,048	24,803	29,666	34,642	39,732
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	1,659	3,848	6,662	10,180	14,439	18,796	23,253	27,813	32,478	37,250
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	1,676	3,888	6,732	10,286	14,590	18,992	23,496	28,103	32,817	37,639
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	4,983	11,427	19,528	29,400	41,050	52,969	65,161	77,633	90,393	103,446
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	69,557	159,510	272,599	410,418	573,050	739,422	909,621	1,083,734	1,261,852	1,444,067
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	10,639	24,399	41,697	62,778	87,654	113,102	139,136	165,768	193,013	220,885
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	108,625	249,103	425,711	640,939	894,917	1,154,736	1,420,531	1,692,439	1,970,602	2,255,162
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	5,535	12,693	21,692	32,659	45,600	58,839	72,382	86,237	100,411	114,910
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	30,295	62,842	97,787	104,987	112,644	118,827	123,406	126,244	129,148	132,118
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	221,269	458,987	714,220	766,810	822,734	867,896	901,341	922,072	943,280	964,975
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	36,986	76,721	119,384	128,175	137,523	145,072	150,662	154,128	157,673	161,299
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	304,861	632,385	984,041	1,056,500	1,133,550	1,195,774	1,241,854	1,270,417	1,299,637	1,329,528
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	203,712	422,568	657,549	705,967	757,453	799,032	829,823	848,909	868,434	888,408
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	215,092	446,174	694,282	745,405	799,768	843,669	876,180	896,333	916,948	938,038
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	138,246	286,768	446,234	479,092	514,032	542,249	563,145	576,097	589,348	602,903
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	490,412	1,017,281	1,582,970	1,699,529	1,823,476	1,923,573	1,997,699	2,043,646	2,090,649	2,138,734
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	525,502	1,090,069	1,696,233	1,821,133	1,953,949	2,061,207	2,140,637	2,189,872	2,240,239	2,291,764
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	326,597	677,473	1,054,201	1,131,826	1,214,370	1,281,031	1,330,396	1,360,995	1,392,298	1,424,321
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	598,461	1,241,411	1,931,733	2,073,974	2,225,229	2,347,379	2,437,836	2,493,907	2,551,267	2,609,946
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	300,524	623,388	970,041	1,041,468	1,117,423	1,178,762	1,224,186	1,252,342	1,281,146	1,310,612
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	99,332	206,049	320,629	344,238	369,343	389,617	404,632	413,938	423,459	433,198
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	564	1,170	1,821	2,519	3,268	4,034	4,818	5,619	6,439	7,278
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	5,487	11,381	17,710	24,501	31,782	39,231	46,851	54,646	62,621	70,779
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	182	378	589	814	1,056	1,304	1,557	1,816	2,082	2,353
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	3,008	6,239	9,708	13,430	17,421	21,505	25,681	29,954	34,326	38,798
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	13,072	27,115	42,193	58,372	75,719	93,465	111,619	130,191	149,190	168,626
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	3,812	7,907	12,303	17,021	22,079	27,254	32,547	37,963	43,503	49,170
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	17,253	35,788	55,689	77,043	99,938	123,361	147,322	171,834	196,910	222,563
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	8,411	17,446	27,148	37,557	48,719	60,137	71,818	83,767	95,992	108,497
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	40	83	129	179	232	286	342	399	457	516
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	7,596	15,757	24,519	33,920	44,001	54,313	64,863	75,655	86,695	97,990
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	95,312	218,572	373,534	562,384	785,233	1,013,208	1,246,427	1,485,009	1,729,079	1,978,762
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	73,478	168,501	287,965	433,553	605,352	781,102	960,895	1,144,823	1,332,981	1,525,467
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	44,830	102,806	175,693	264,518	369,336	476,565	586,259	698,477	813,276	930,715
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	284,664	652,801	1,115,622	1,679,652	2,345,229	3,026,114	3,722,659	4,435,225	5,164,180	5,909,900
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	304,301	697,833	1,192,580	1,795,518	2,507,008	3,234,862	3,979,456	4,741,176	5,520,416	6,317,578
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	149,881	343,712	587,395	884,368	1,234,806	1,593,305	1,960,049	2,335,228	2,719,036	3,111,672

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	46,999	107,779	184,192	277,315	387,203	499,619	614,620	732,267	852,619	975,739
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	128,965	267,517	416,278	575,895	747,042	922,125	1,101,235	1,284,465	1,471,909	1,663,664
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	776,740	1,611,222	2,507,189	3,468,542	4,499,338	5,553,842	6,632,600	7,736,169	8,865,120	10,020,037
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	27,510	57,065	88,797	122,845	159,353	196,700	234,906	273,991	313,975	354,879
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	2,724,228	5,650,973	8,793,360	12,165,075	15,780,343	19,478,763	23,262,246	27,132,749	31,092,273	35,142,867
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	17,936	37,206	57,895	80,095	103,898	128,248	153,158	178,642	204,711	231,380
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	96,130	199,407	310,293	429,271	556,843	687,350	820,858	957,437	1,097,158	1,240,092
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	20,717	42,975	66,872	92,514	120,007	148,133	176,906	206,341	236,453	267,257
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	114,373	237,248	369,176	510,733	662,515	817,787	976,631	1,139,129	1,305,364	1,475,422
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	601,967	1,248,684	1,943,051	2,688,092	3,486,951	4,304,183	5,140,211	5,995,469	6,870,397	7,765,448
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	26,487	54,943	85,495	118,278	153,428	189,386	226,172	263,804	302,301	341,684
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2,308,340	4,788,280	7,450,941	10,307,921	13,371,272	16,505,080	19,710,966	22,990,587	26,345,640	29,777,859
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	375,018	777,915	1,210,497	1,674,648	2,172,327	2,681,452	3,202,288	3,735,102	4,280,172	4,837,778
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	73,611	152,695	237,606	328,713	426,401	526,336	628,570	733,155	840,145	949,597
323	C&I Prescriptive	VAV	Chiller & Boiler	361,399	828,771	1,416,350	2,132,421	2,977,411	3,841,836	4,726,143	5,630,789	6,556,241	7,502,979
324	C&I Prescriptive	VAV	Chiller & Boiler	293,473	673,001	1,150,143	1,731,626	2,417,798	3,119,752	3,837,851	4,572,466	5,323,977	6,092,773
325	C&I Prescriptive	VAV	Chiller & Boiler	163,100	374,025	639,200	962,364	1,343,709	1,733,824	2,132,913	2,541,180	2,958,838	3,386,102
326	C&I Prescriptive	VAV	Chiller & Boiler	812,394	1,863,006	3,183,834	4,793,501	6,692,968	8,636,122	10,623,968	12,657,535	14,737,874	16,866,061
327	C&I Prescriptive	VAV	Chiller & Boiler	1,234,610	2,831,245	4,838,532	7,284,773	10,171,428	13,124,475	16,145,442	19,235,892	22,397,422	25,631,667
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	370,778	850,280	1,416,350	2,132,421	2,977,411	3,841,836	4,726,143	5,630,789	6,556,241	7,502,979
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	427,913	981,304	1,677,025	2,524,887	3,525,396	4,548,916	5,595,977	6,667,120	7,762,900	8,883,882
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	158,433	363,324	620,913	934,831	1,305,266	1,684,220	2,071,891	2,468,478	2,874,187	3,289,227
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	624,182	1,431,394	2,446,219	3,682,967	5,142,374	6,635,348	8,162,660	9,725,100	11,323,477	12,958,616
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	917,125	2,103,180	3,594,285	5,411,466	7,555,807	9,749,467	11,993,581	14,289,310	16,637,840	19,040,387
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,181,502	2,709,456	4,630,397	6,971,410	9,733,892	12,559,910	15,450,927	18,408,437	21,433,970	24,529,090
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	256,790	588,878	1,006,397	1,515,179	2,115,582	2,729,794	3,358,133	4,000,923	4,658,498	5,331,197
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	60	138	236	355	496	640	787	938	1,092	1,250
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	104,309	239,204	408,794	615,471	859,356	1,108,851	1,364,085	1,625,188	1,892,297	2,165,550
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	16,040	36,784	62,863	94,645	132,149	170,516	209,764	249,916	290,991	333,011
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	119,230	273,422	467,271	703,512	982,284	1,267,469	1,559,212	1,857,666	2,162,984	2,475,325
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	105,902	242,857	415,037	624,870	872,480	1,125,785	1,384,916	1,650,007	1,921,196	2,198,621
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(16,918)	(38,797)	(66,303)	(99,824)	(139,380)	(179,846)	(221,242)	(263,591)	(306,914)	(351,233)
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	46,572	106,801	182,521	274,799	383,690	495,086	609,044	725,623	844,883	966,887
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	3,985	9,139	15,618	23,514	32,831	42,363	52,114	62,089	72,294	82,733
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	95,213	218,346	373,148	561,802	784,421	1,012,161	1,245,138	1,483,474	1,727,291	1,976,717
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	157,404	361,171	617,233	929,290	1,297,530	1,674,238	2,050,612	2,453,848	2,857,152	3,269,733
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	816,965	1,633,929	2,450,884	3,267,859	4,084,823	4,901,788	5,718,753	6,535,717	7,352,682	8,169,647
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	50,812	116,524	199,137	249,003	302,096	341,020	364,673	373,061	381,641	390,419
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	99,510	228,199	389,986	487,644	591,620	667,848	714,171	730,597	747,401	764,591
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	130,238	298,666	510,414	638,228	774,312	874,079	956,205	978,198	1,000,696	1,022,196
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	189,100	433,651	741,099	926,680	1,124,267	1,269,126	1,357,154	1,388,369	1,420,301	1,452,968
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,697	8,478	14,489	21,815	30,459	39,302	48,349	57,604	67,071	76,756
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12,129	27,814	47,534	71,565	99,924	128,935	158,612	188,973	220,032	251,805
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	18,736	42,967	73,429	110,553	154,361	199,176	245,022	291,922	339,901	388,984
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	30,709	70,423	120,351	181,197	252,998	326,450	401,592	478,462	557,100	637,546
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	10,556	13,652	17,163	20,916	24,682	28,520	32,351	36,182	40,013	43,844
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	18,960	24,520	30,826	37,567	44,330	45,350	46,393	47,460	48,552	49,668
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	24,383	31,533	39,643	48,312	57,010	65,710	74,410	83,110	91,810	100,510
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	34,059	44,046	55,374	67,483	79,633	83,338	85,255	87,216	89,221	91,226
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	496	1,138	1,946	2,929	4,090	5,278	6,492	7,735	9,006	10,307
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	945	2,168	3,705	5,578	7,788	10,049	12,362	14,728	17,149	19,625
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,197	2,746	4,693	7,065	9,864	12,728	15,658	18,655	21,721	24,858
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,617	3,709	6,339	9,544	13,326	17,194	21,152	25,201	29,343	33,580
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	47,137	108,097	137,597	170,035	203,609	222,959	228,087	233,333	238,700	244,190
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	85,861	196,898	250,634	309,720	370,875	406,121	415,461	425,017	434,792	444,793
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	110,735	253,940	323,243	399,446	478,318	523,774	535,821	548,145	560,753	573,650
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	155,654	356,950	454,365	561,479	672,346	736,241	753,175	770,498	788,219	806,348
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,981	9,129	15,601	23,489	32,797	42,319	52,059	62,024	72,218	82,647
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,831	20,252	34,611	52,109	72,758	93,882	115,492	137,598	160,213	183,349
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,186	25,653	43,841	66,005	92,161	118,917	146,289	174,291	202,937	232,242
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	15,112	34,654	59,223	89,165	124,498	160,643	197,619	235,446	274,143	313,730
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	297,902	385,256	484,342	590,259	696,527	712,547	728,936	745,701	762,852	780,398
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	520,775	673,482	846,700	1,031,857	1,217,629	1,245,635	1,274,284	1,303,593	1,333,575	1,364,248
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	666,066	861,377	1,082,922	1,319,736	1,557,337	1,593,155	1,629,798	1,667,283	1,705,631	1,744,860
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	919,193	1,188,728	1,494,466	1,821,278	2,149,174	2,198,605	2,249,173	2,300,904	2,353,825	2,407,963
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	14,677	33,657	57,519	86,599	120,915	156,020	191,933	228,671	266,255	304,703
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	24,461	56,095	95,865	144,332	201,525	260,034	319,888	381,119	443,758	507,838
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	30,984	71,054	121,429	182,821	255,266	329,376	405,191	482,750	562,093	643,261
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	45,020	103,242	176,438	265,640	370,903	478,586	588,746	701,440	816,725	934,663
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	360,327	465,986	585,837	713,948	842,484	861,862	881,684	901,963	922,708	943,931
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	643,798	832,579	1,046,717	1,275,614	1,505,271	1,539,892	1,575,310	1,611,542	1,648,607	1,686,525
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	827,065	1,069,585	1,344,680	1,638,736	1,933,768	1,978,245	2,023,745	2,070,291	2,117,907	2,166,619
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,152,571	1,490,540	1,873,903	2,283,690	2,694,838	2,756,819	2,820,226	2,885,091</		

4: Net kWh Savings

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	21,589	49,509	84,609	105,796	128,354	144,892	154,942	158,506	162,152	165,881
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	41,953	96,207	164,416	205,588	249,423	281,561	301,090	308,015	315,099	322,347
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	54,821	125,718	214,849	268,649	325,931	367,926	393,446	402,496	411,753	421,223
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	79,322	181,904	310,869	388,715	471,597	532,361	569,286	582,380	595,775	609,478
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,667	3,823	6,533	9,836	13,734	17,721	21,800	25,973	30,241	34,608
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5,293	12,139	20,745	31,233	43,609	56,271	69,223	82,473	96,028	109,894
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,099	18,574	31,742	47,790	66,727	86,099	105,917	126,191	146,931	168,149
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12,774	29,295	50,064	75,375	105,243	135,797	167,055	199,031	231,743	265,208
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	23,134	53,051	90,662	113,365	137,537	155,258	166,027	169,846	173,752	177,749
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	45,643	104,671	178,880	223,674	271,366	306,330	327,578	335,112	342,820	350,705
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	59,828	137,200	234,472	293,187	355,701	401,532	429,383	439,258	449,361	459,697
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	87,158	199,874	341,581	427,117	518,187	584,954	625,527	639,914	654,633	669,689
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,590	3,646	6,231	9,381	13,099	16,901	20,792	24,772	28,843	33,008
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5,382	12,341	21,091	31,754	44,337	57,209	70,377	83,848	97,629	111,727
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,390	19,240	32,881	49,505	69,122	89,190	109,719	130,721	152,206	174,185
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	13,875	31,818	54,376	81,867	114,308	147,494	181,444	216,175	251,705	288,052
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	83,424	191,311	243,522	300,930	360,350	394,596	403,672	412,956	422,454	432,171
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	154,845	355,096	452,006	558,564	668,855	732,418	749,264	766,497	784,126	802,161
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	200,469	459,721	585,183	723,137	865,924	948,216	970,025	992,335	1,015,159	1,038,508
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	284,171	651,670	829,518	1,025,073	1,227,478	1,344,129	1,375,044	1,406,670	1,439,024	1,472,121
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,100	13,989	23,907	35,993	50,256	64,847	79,773	95,042	110,663	126,643
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	15,977	36,639	62,615	94,272	131,628	169,843	208,937	248,931	289,844	331,698
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	21,030	48,226	82,417	124,085	173,255	223,555	275,013	327,654	381,506	436,596
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	28,409	65,147	111,335	167,624	234,046	301,996	371,509	442,620	515,367	589,788
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	35,738	81,955	140,060	175,133	212,475	239,851	256,488	262,387	268,422	274,596
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	70,415	161,478	275,961	345,066	418,641	472,581	505,360	516,984	528,874	541,038
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	92,273	211,602	361,623	452,178	548,592	619,277	662,231	677,462	693,043	708,983
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	134,340	308,073	526,489	658,329	798,698	901,608	964,145	986,321	1,009,006	1,032,213
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,482	5,692	9,728	14,647	20,451	26,388	32,462	38,676	45,032	51,535
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,354	19,157	32,738	49,290	68,822	88,803	109,243	130,154	151,545	173,429
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	13,001	29,815	50,953	76,713	107,112	138,209	170,022	202,567	235,860	269,918
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	21,465	49,224	84,122	126,652	176,839	228,180	280,702	334,433	389,398	445,629
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	447,000	1,025,073	1,304,826	1,612,432	1,930,814	2,114,307	2,162,936	2,212,683	2,263,575	2,315,637
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	822,584	1,886,375	2,401,186	2,967,254	3,553,150	3,890,820	3,980,309	4,071,856	4,165,509	4,261,315
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,063,092	2,437,915	3,103,248	3,834,823	4,592,025	5,028,423	5,144,076	5,262,390	5,383,425	5,507,244
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,501,186	3,442,566	4,382,078	5,415,131	6,484,371	7,100,606	7,263,920	7,430,990	7,601,903	7,776,747
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	34,908	80,051	136,805	205,971	287,588	371,083	456,499	543,878	633,268	724,713
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	86,540	198,456	339,157	510,627	712,967	919,961	1,131,717	1,348,342	1,569,590	1,796,654
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	109,617	251,378	429,599	646,794	903,092	1,165,285	1,433,508	1,707,900	1,988,603	2,275,762
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	148,080	339,581	580,336	873,739	1,219,966	1,574,156	1,936,493	2,307,163	2,686,358	3,074,275
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	28,462	65,271	111,547	167,942	234,490	302,569	372,214	443,461	516,346	590,908
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	100,350	230,126	393,281	592,114	826,744	1,066,770	1,312,317	1,563,512	1,820,485	2,083,367
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	71,445	163,840	279,999	421,560	588,607	759,496	934,315	1,113,155	1,296,109	1,483,270
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,305	7,580	12,953	19,502	27,230	35,136	43,224	51,497	59,961	68,620
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	62,835	144,095	246,255	370,755	517,670	667,964	821,714	979,001	1,139,906	1,304,511
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	30,326	69,545	118,851	178,939	249,845	322,381	396,587	472,498	550,156	629,600
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	884	2,028	3,465	5,217	7,285	9,400	11,563	13,777	16,041	18,358
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	3,546	8,132	13,898	20,925	29,216	37,699	46,376	55,253	64,334	73,624
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1,644	3,770	6,443	9,700	13,544	17,476	21,499	25,614	29,824	34,131
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,134	2,600	4,443	6,690	9,341	12,052	14,827	17,665	20,568	23,538
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,182	5,005	8,553	12,877	17,979	23,199	28,539	34,002	39,591	45,308
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	638	1,462	2,499	3,763	5,254	6,779	8,339	9,935	11,568	13,239
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	11,481	26,328	44,994	67,742	94,585	122,046	150,139	178,877	208,277	238,352
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	27,390	62,811	107,343	161,613	225,653	291,167	358,187	426,749	496,887	568,639
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,803	40,827	69,773	105,048	146,675	189,258	232,821	277,387	322,977	369,615
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,802	4,132	7,061	10,631	14,844	19,153	23,562	28,072	32,686	37,406
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	20,324	46,608	79,652	119,923	167,443	216,056	265,788	316,663	368,708	421,951
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,030	9,242	15,795	23,780	33,203	42,843	52,704	62,793	73,113	83,671
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	16,158	37,054	63,324	95,339	133,118	171,765	211,302	251,748	293,124	335,452
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	28,720	65,862	112,557	169,462	236,613	305,309	375,584	447,476	521,021	596,258
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	23,168	53,130	90,798	136,703	190,872	246,288	302,978	360,971	420,299	480,991
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	5,397	12,376	21,150	31,843	44,461	57,369	70,575	84,084	97,903	112,041
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	3,882	8,902	15,213	22,904	31,980	41,264	50,762	60,479	70,419	80,587
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,881	4,313	7,371	11,097	15,495	19,993	24,595	29,303	34,119	39,046
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	14,961	34,308	58,632	88,275	123,255	159,039	195,649	233,095	271,406	310,598
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	36,848	84,502	144,411	217,422	303,577	391,714	481,878	574,116	668,475	765,004
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	25,073	57,498	98,262	147,941	206,564	266,535	327,885	390,647	454,852	520,534
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2,297	5,267	9,002	13,553	18,924	24,418	30,038	35,788	41,670	47,687
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	26,914	61,719	105,477	158,803	221,730	286,105	351,960	419,330	488,249	558,754
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	5,426	12,444	21,267	32,018	44,706	57,685	70,963	84,546	98,442	112,657
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
463	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,383	5,465	9,339	14,060	19,632	25,331	31,162	37,127	43,229	49,471
464	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	a Lighting - interior	4,494	10,306	17,612	26,517	37,024	47,773	58,770	70,019	81,527	93,300
465	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	3,482	7,985	13,646	20,545	28,686	37,015	45,535	54,251	63,167	72,289
467	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	903	2,071	3,540	5,329	7,441	9,602	11,812	14,073	16,386	18,752
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	827	1,896	3,241	4,880	6,813	8,791	10,815	12,885	15,002	17,169
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	386	886	1,514	2,279	3,182	4,106	5,051	6,017	7,006	8,018
471	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	427,552	980,476	1,675,610	2,522,757	3,522,421	4,545,077	5,591,255	6,661,494	7,756,349	8,876,386
472	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	732,947	1,680,816	2,872,474	4,324,726	6,038,436	7,791,561	9,585,008	11,419,704	13,296,599	15,216,662
473	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	a Lighting - interior	476,415	1,092,530	1,867,108	2,811,072	3,924,983	5,064,515	6,230,255	7,422,808	8,642,789	9,890,830
474	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	76,295	174,962	299,005	450,175	628,560	811,049	997,735	1,188,714	1,384,086	1,583,952
475	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	625,448	1,434,296	2,451,178	3,690,433	5,152,799	6,648,799	8,179,207	9,744,814	11,346,431	12,984,885
476	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	134,992	309,568	529,044	796,515	1,112,141	1,435,027	1,765,339	2,103,248	2,448,929	2,802,560
477	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	7,287	16,711	28,559	42,998	60,036	77,467	95,298	113,539	132,200	151,290
479	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	a Lighting - interior	8,485	19,458	33,254	50,067	69,906	90,201	110,964	132,204	153,932	176,160
480	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	9,634	22,094	37,758	56,847	79,374	102,418	125,992	150,109	174,780	200,019
482	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,414	3,243	5,542	8,344	11,651	15,034	18,494	22,034	25,655	29,360
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	6,088	13,961	23,860	35,923	50,157	64,720	79,617	94,856	110,446	126,395
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,466	7,948	13,583	20,451	28,555	36,845	45,326	54,002	62,877	71,957
486	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	104,110	238,748	408,014	614,296	857,717	1,106,736	1,361,482	1,622,087	1,888,687	2,161,418
487	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	178,474	409,282	699,453	1,053,080	1,470,371	1,897,261	2,333,969	2,780,721	3,237,749	3,705,288
488	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	a Lighting - interior	116,008	266,033	454,645	684,502	955,741	1,233,220	1,517,080	1,807,469	2,104,537	2,408,437
489	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	18,057	41,409	70,767	106,546	148,765	191,956	236,140	281,340	327,580	374,884
490	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	152,298	349,254	596,867	898,628	1,254,717	1,618,996	1,991,653	2,372,882	2,762,879	3,161,846
491	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	32,417	74,339	127,044	191,274	267,068	344,606	423,926	505,071	588,083	673,004
492	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	6,031	13,831	23,638	35,588	49,690	64,117	78,875	93,973	109,418	125,218
494	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	a Lighting - interior	7,263	16,656	28,465	42,856	59,838	77,211	94,983	113,164	131,764	150,791
495	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	8,014	18,379	31,409	47,288	66,026	85,196	104,806	124,867	145,390	166,384
497	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,211	2,776	4,744	7,143	9,973	12,869	15,831	18,861	21,961	25,132
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	6,079	13,940	23,822	35,866	50,079	64,618	79,492	94,707	110,273	126,197
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,416	7,833	13,386	20,154	28,140	36,310	44,668	53,218	61,964	70,912
501	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	39,660	90,949	155,430	234,012	326,742	421,604	518,648	617,924	719,483	823,378
502	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	132,800	304,542	502,455	783,585	1,094,087	1,411,730	1,736,680	2,069,103	2,409,172	2,757,063
503	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	a Lighting - interior	93,935	215,414	368,137	554,258	773,888	998,569	1,228,418	1,463,553	1,704,096	1,950,172
504	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	4,794	10,994	18,789	28,288	39,498	50,965	62,696	74,697	86,973	99,533
505	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	85,015	194,960	333,181	501,630	700,405	903,752	1,111,776	1,324,584	1,542,287	1,764,998
506	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	36,163	82,931	141,728	213,381	297,936	384,435	472,923	563,447	656,053	750,788
507	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,083	2,484	4,245	6,391	8,924	11,515	14,165	16,876	19,650	22,488
509	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	a Lighting - interior	3,897	8,938	15,275	22,997	32,110	41,432	50,969	60,725	70,706	80,916
510	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	1,945	4,461	7,624	11,478	16,026	20,679	25,439	30,309	35,290	40,386
512	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,189	2,727	4,661	7,018	9,798	12,643	15,553	18,530	21,576	24,691
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,591	3,649	6,236	9,388	13,109	16,914	20,808	24,791	28,865	33,033
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	497	1,141	1,949	2,935	4,097	5,287	6,504	7,749	9,023	10,326
516	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	32,137	73,697	125,946	189,622	264,761	341,628	420,264	500,708	583,002	667,189
517	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	107,609	246,773	421,729	634,944	886,546	1,143,935	1,407,244	1,676,609	1,952,169	2,234,067
518	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	a Lighting - interior	76,116	174,551	298,304	449,119	627,087	809,147	995,395	1,185,927	1,380,841	1,580,238
519	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	3,885	8,909	15,225	22,922	32,005	41,297	50,803	60,527	70,475	80,652
520	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	68,888	157,977	269,979	406,474	567,543	732,316	900,880	1,073,320	1,249,726	1,430,190
521	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	29,304	67,200	114,843	172,904	241,419	311,510	383,213	456,565	531,604	608,369
522	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,957	4,488	7,670	11,548	16,124	20,805	25,594	30,493	35,505	40,632
524	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	a Lighting - interior	7,042	16,150	27,599	41,553	58,019	74,863	92,095	109,723	127,757	146,205
525	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	v Lighting - interior	3,515	8,060	13,775	20,740	28,958	37,365	45,966	54,764	63,765	72,973
527	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,149	4,928	8,422	12,680	17,704	22,844	28,103	33,482	38,985	44,614
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	790	1,812	3,097	4,662	6,510	8,400	10,333	12,311	14,334	16,404
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	247	566	968	1,457	2,035	2,626	3,230	3,848	4,481	5,128
531	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	51,485	118,066	201,773	303,784	424,161	547,306	673,284	802,160	933,999	1,068,871
532	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	141,307	324,049	553,792	833,776	1,164,167	1,502,157	1,847,920	2,201,636	2,563,488	2,933,662
533	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	a Lighting - interior	97,473	223,528	382,005	575,137	803,040	1,036,184	1,274,692	1,518,684	1,768,289	2,023,634
534	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	7,266	16,662	28,475	42,871	59,859	77,237	95,016	113,203	131,808	150,842
535	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	v Lighting - interior	98,522	225,935	386,117	581,328	811,684	1,047,338	1,288,413	1,535,032	1,787,323	2,045,417
536	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	25,754	59,060	100,933	151,962	212,179	273,780	336,798	401,266	467,216	534,683
537	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	22,074	50,621	86,510	130,247	181,858	234,657	288,670	343,925	400,451	458,277
539	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	a Lighting - interior	52,277	119,884	204,879	308,460	430,690	555,731	683,648	814,508	948,377	1,085,325

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	34,688	79,547	135,944	204,674	285,777	368,746	453,624	540,453	629,280	720,150
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	13,329	30,567	52,239	78,649	109,815	141,697	174,312	207,678	241,811	276,729
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	7,876	18,061	30,866	46,471	64,886	83,724	102,996	122,711	142,879	163,511
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,193	7,322	12,512	18,838	26,303	33,940	41,752	49,744	57,920	66,283
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	9,378	21,506	36,753	55,335	77,262	99,693	122,640	146,115	170,129	194,697
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	33,974	77,910	133,146	200,461	279,896	361,157	444,288	529,330	616,328	705,328
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	24,271	55,659	95,120	143,210	199,958	258,011	317,400	378,154	440,306	503,888
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,066	2,445	4,179	6,291	8,785	11,335	13,944	16,613	19,343	22,137
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	21,026	48,219	82,404	124,066	173,228	223,521	274,971	327,604	381,447	436,529
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	10,845	24,871	42,504	63,992	89,350	115,291	141,828	168,976	196,748	225,159
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	4,682	10,737	18,350	27,627	38,575	49,774	61,231	72,952	84,942	97,207
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	19,882	45,593	77,917	117,311	163,796	211,350	259,999	309,766	360,678	412,761
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	8,865	20,330	34,744	52,310	73,038	94,243	115,936	138,128	160,830	184,054
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	6,514	14,938	25,529	38,435	53,666	69,246	85,185	101,491	118,171	135,235
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	11,003	25,231	43,120	64,920	90,645	116,962	143,884	171,425	199,600	228,423
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,103	7,116	12,160	18,308	25,563	32,985	40,577	48,344	56,290	64,419
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	278,239	638,067	1,090,442	1,641,742	2,292,296	2,957,813	3,638,637	4,335,120	5,047,622	5,776,511
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	712,341	1,633,561	2,791,718	4,203,141	5,868,672	7,572,511	9,315,537	11,098,653	12,922,781	14,788,864
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	487,073	1,116,972	1,908,878	2,873,960	4,012,791	5,177,816	6,369,636	7,588,868	8,836,142	10,112,104
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	41,451	95,057	162,450	244,581	341,499	440,646	542,072	645,832	751,979	860,566
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	511,718	1,173,487	2,005,462	3,019,374	4,215,827	5,439,799	6,691,922	7,972,843	9,283,226	10,623,748
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	112,814	258,708	442,126	665,654	929,425	1,199,262	1,475,306	1,757,699	2,046,587	2,342,120
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	53,877	123,552	211,148	317,899	443,869	572,736	704,568	839,431	977,397	1,118,535
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	110,224	252,770	431,977	650,374	908,091	1,171,735	1,441,442	1,717,353	1,999,610	2,288,359
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	80,799	185,291	316,658	476,752	665,670	858,932	1,056,639	1,258,894	1,465,801	1,677,466
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	24,299	55,723	95,229	143,375	200,189	258,309	317,766	378,591	440,814	504,469
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	40,950	93,908	160,487	241,626	337,372	435,320	535,521	638,027	742,891	850,166
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	18,181	41,693	71,252	107,275	149,784	193,271	237,757	283,267	329,824	377,451
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	6,400	14,677	25,083	37,765	52,729	68,038	83,699	99,720	109,710	118,199
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	25,188	57,763	98,715	148,623	207,516	267,763	329,396	392,447	456,948	522,932
580	C&I Prescriptive	180W LPS	Lighting - exterior	27,707	63,539	108,586	163,485	228,267	294,539	362,336	431,692	502,643	575,226
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	3,370	7,727	13,206	19,883	27,761	35,821	44,066	52,501	61,130	69,957
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	29,218	67,005	114,509	172,402	240,718	310,605	382,100	455,239	530,060	606,602
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	13,197	30,263	51,718	77,866	108,721	140,286	172,577	205,610	239,043	273,974
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	10,791	24,747	42,292	63,674	88,905	114,717	141,123	168,135	195,769	224,039
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	10,791	24,747	42,292	63,674	88,905	114,717	141,123	168,135	195,769	224,039
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	9,220	21,144	36,135	54,404	75,962	98,016	120,577	143,657	167,267	191,421
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	9,482	21,744	37,161	55,948	78,118	100,798	123,999	147,734	172,015	196,855
588	C&I Prescriptive	Premium Efficiency Motor	Motors	398	912	1,559	2,348	3,278	4,230	5,203	6,199	7,218	8,260
589	C&I Prescriptive	Premium Efficiency Motor	Motors	2,294	5,261	8,991	13,536	18,900	24,387	30,000	35,742	41,617	47,626
590	C&I Prescriptive	Premium Efficiency Motor	Motors	5,439	12,473	21,316	32,092	44,809	57,818	71,127	84,741	98,669	112,917
591	C&I Prescriptive	Premium Efficiency Motor	Motors	8,098	18,571	31,738	47,784	66,718	86,089	105,904	126,176	146,914	168,128
592	C&I Prescriptive	Premium Efficiency Motor	Motors	13,651	31,305	53,500	80,549	112,467	145,119	178,522	212,694	247,651	283,413
593	C&I Prescriptive	Premium Efficiency Motor	Motors	18,219	41,780	71,402	107,501	150,099	193,677	238,257	283,862	330,517	378,244
594	C&I Prescriptive	Premium Efficiency Motor	Motors	18,354	42,091	71,932	108,300	151,214	195,116	240,028	285,972	332,973	381,056
595	C&I Prescriptive	Premium Efficiency Motor	Motors	25,405	58,259	99,562	149,899	209,297	270,062	332,225	395,817	460,872	527,423
596	C&I Prescriptive	Premium Efficiency Motor	Motors	17,731	40,662	69,490	104,622	146,080	188,491	231,877	276,261	321,666	368,116
597	C&I Prescriptive	Premium Efficiency Motor	Motors	5,846	13,406	22,910	34,493	48,161	62,144	76,448	91,081	106,051	121,365
598	C&I Prescriptive	Premium Efficiency Motor	Motors	186	425	727	1,095	1,528	1,972	2,426	2,890	3,365	3,851
599	C&I Prescriptive	Premium Efficiency Motor	Motors	1,655	3,796	6,486	9,766	13,636	17,595	21,644	25,787	30,026	34,362
600	C&I Prescriptive	Premium Efficiency Motor	Motors	4,527	10,381	17,741	26,710	37,294	48,122	59,198	70,529	82,121	93,980
601	C&I Prescriptive	Premium Efficiency Motor	Motors	4,944	11,339	19,377	29,174	40,735	52,561	64,659	77,036	89,697	102,650
602	C&I Prescriptive	Premium Efficiency Motor	Motors	9,493	21,769	37,204	56,013	78,208	100,914	124,142	147,905	172,214	197,082
603	C&I Prescriptive	Premium Efficiency Motor	Motors	8,987	20,610	35,222	53,029	74,043	95,540	117,531	140,028	163,042	186,586
604	C&I Prescriptive	Premium Efficiency Motor	Motors	5,555	12,739	21,771	32,777	45,765	59,052	72,645	86,550	100,775	115,327
605	C&I Prescriptive	Premium Efficiency Motor	Motors	4,604	10,558	18,043	27,164	37,929	48,940	60,205	71,729	83,519	95,579
606	C&I Prescriptive	Premium Efficiency Motor	Motors	4,056	9,301	15,895	23,931	33,414	43,115	53,039	63,191	73,577	84,202
607	C&I Prescriptive	Premium Efficiency Motor	Motors	2,086	4,783	8,175	12,307	17,184	22,173	27,277	32,498	37,840	43,304
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	10,517	24,118	41,217	62,055	86,644	111,800	137,534	163,859	190,791	218,341
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	Cooking	4,360	9,999	17,088	25,727	35,922	46,351	57,020	67,935	79,100	90,523
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
617	C&I Prescriptive	Domestic hot water circulation pump controls	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	14,429	29,930	46,574	64,432	83,580	103,169	123,208	143,708	164,680	186,133
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	30,433	63,128	98,233	135,899	176,286	217,602	259,868	303,106	347,339	392,589
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	60,112	124,693	194,033	268,432	348,206	429,814	513,300	598,706	686,076	775,456
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	10,067	20,883	32,496	44,956	58,316	71,984	85,966	100,269	114,902	129,871
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	22,353	46,367	72,150	99,816	129,479	159,825	190,869	222,627	255,115	288,350
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	42,592	88,350	137,479	190,194	246,716	304,539	363,692	424,205	486,109	549,438
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	26,216	54,382	84,622	117,070	151,861	187,453	223,863	261,110	299,215	338,195
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	60,542	125,584	195,419	270,350	350,694	432,886	516,968	602,984	690,978	780,997
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	5,149	10,681	16,620	22,993	29,826	36,816	43,968	51,283	58,767	66,423
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	356	738	1,148	1,589	2,061	2,544	3,038	3,544	4,061	4,590
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	83,875	192,345	328,713	494,903	691,012	891,632	1,096,866	1,306,821	1,521,604	1,741,328
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	49,034	101,714	158,274	218,963	284,035	350,604	418,704	488,371	559,639	632,547
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	128,223	294,044	502,514	756,573	1,056,371	1,363,065	1,676,813	1,997,776	2,326,123	2,662,021
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	12,281	28,163	48,130	72,464	101,178	130,553	160,604	191,345	222,794	254,966
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	36,776	84,336	144,128	216,995	302,981	390,945	480,932	572,989	667,163	763,503
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	58,503	134,162	229,279	345,197	481,985	621,918	765,079	911,515	1,061,328	1,214,586
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	7,017	16,092	27,501	41,404	57,811	74,595	91,765	109,330	120,282	129,590
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	13,475	30,902	52,810	79,510	111,016	143,247	176,220	209,951	230,982	248,856
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	32,990	75,654	129,291	194,658	271,793	350,702	431,426	514,006	598,486	684,909
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	75,626	156,874	244,109	337,710	362,446	383,868	401,665	415,512	425,068	434,845
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	176,491	366,102	569,684	788,123	845,850	895,844	937,377	969,692	991,995	1,014,811
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	508,808	1,166,814	1,994,057	3,002,203	4,191,852	5,408,863	6,653,865	7,927,502	9,230,433	10,563,331
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	157,112	325,904	507,133	544,475	584,183	616,251	639,998	654,718	669,777	685,182
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	342,509	785,453	1,342,321	2,020,965	2,821,790	3,641,034	4,479,120	5,336,483	6,213,564	7,110,819
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	52,444	120,267	205,534	309,446	432,067	557,508	685,835	817,112	951,409	1,088,795
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	64,688	148,344	253,516	316,999	384,590	434,143	464,256	474,934	485,858	497,032
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	126,335	289,716	495,118	619,102	751,108	847,886	906,696	927,550	948,884	970,708
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	167,865	384,953	657,876	822,617	998,015	1,126,607	1,204,750	1,232,459	1,260,804	1,289,804
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	251,991	577,873	987,571	1,234,871	1,498,171	1,691,206	1,808,511	1,850,106	1,892,659	1,936,190
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,464	5,651	9,657	14,539	20,301	26,195	32,224	38,392	44,702	51,157
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,051	25,343	43,311	65,208	91,047	117,481	144,522	172,186	200,486	229,436
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	18,711	42,908	73,328	110,401	154,148	198,902	244,685	291,521	339,434	388,449
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	33,530	76,893	131,408	197,845	276,243	356,444	438,489	522,422	608,285	696,122
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	7,771	17,821	30,457	45,855	64,025	82,613	101,629	121,082	140,982	161,341
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	38,225	87,659	149,807	225,545	314,919	406,349	499,882	595,566	693,450	793,586
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	28,383	65,089	111,236	167,474	233,836	301,726	371,176	442,224	514,906	589,260
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	696	1,597	2,729	4,109	5,737	7,403	9,107	10,850	12,634	14,458
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	20,747	47,577	81,309	122,416	170,925	220,549	271,314	323,247	376,375	430,724
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	22,627	51,890	88,678	133,512	186,417	240,539	295,906	352,546	410,489	469,765
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	2,472	5,670	9,690	14,589	20,370	26,284	32,333	38,523	44,854	51,331
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	19,976	45,809	78,287	117,867	164,573	212,353	261,233	311,236	362,389	414,719
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	5,749	13,183	22,530	33,920	47,361	61,111	75,178	89,568	104,289	119,349
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	8,627	19,785	33,812	50,906	71,078	91,713	112,824	134,420	156,512	179,113
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	8,720	19,997	34,175	51,452	71,841	92,698	114,035	135,863	158,193	181,037
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,649	3,781	6,462	9,729	13,584	17,527	21,562	25,689	29,911	34,230
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	385	882	1,507	2,269	3,168	4,087	5,028	5,991	6,591	7,101
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	2,004	4,596	7,855	11,826	16,513	21,307	26,211	31,228	36,361	41,611
690	C&I Prescriptive	180W LPS	Lighting - exterior	2,602	5,968	10,199	15,356	21,440	27,665	34,033	40,548	47,212	54,029
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	153	351	599	902	1,259	1,625	1,999	2,382	2,773	3,174
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	2,649	6,075	10,383	15,632	21,826	28,163	34,645	41,277	48,061	55,001
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	820	1,880	3,213	4,837	6,753	8,714	10,720	12,772	14,871	17,019

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	889	2,039	3,484	5,246	7,324	9,451	11,626	13,852	16,128	18,457
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	1,068	2,450	4,187	6,303	8,801	11,356	13,970	16,644	19,380	22,178
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	618	1,418	2,423	3,648	5,093	6,572	8,085	9,632	11,215	12,835
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	643	1,475	2,521	3,796	5,300	6,839	8,414	10,024	11,672	13,357
698	C&I Prescriptive	Premium Efficiency Motor	Motors	160	367	627	944	1,318	1,701	2,092	2,493	2,902	3,321
699	C&I Prescriptive	Premium Efficiency Motor	Motors	716	1,642	2,805	4,224	5,897	7,610	9,361	11,153	12,986	14,861
700	C&I Prescriptive	Premium Efficiency Motor	Motors	2,125	4,874	8,329	12,540	17,510	22,593	27,794	33,114	38,556	44,124
701	C&I Prescriptive	Premium Efficiency Motor	Motors	2,942	6,746	11,530	17,359	24,237	31,274	38,472	45,836	53,370	61,077
702	C&I Prescriptive	Premium Efficiency Motor	Motors	2,991	6,859	11,722	17,649	24,642	31,797	39,115	46,603	54,262	62,098
703	C&I Prescriptive	Premium Efficiency Motor	Motors	5,627	12,904	22,053	33,202	46,358	59,817	73,586	87,671	102,080	116,821
704	C&I Prescriptive	Premium Efficiency Motor	Motors	6,117	14,027	23,971	36,091	50,392	65,022	79,989	95,300	110,963	126,986
705	C&I Prescriptive	Premium Efficiency Motor	Motors	10,900	24,996	42,718	64,316	89,801	115,873	142,545	169,830	197,742	226,297
706	C&I Prescriptive	Premium Efficiency Motor	Motors	7,187	16,481	28,165	42,405	59,209	76,399	93,984	111,974	130,377	149,204
707	C&I Prescriptive	Premium Efficiency Motor	Motors	5,786	13,269	22,677	34,142	47,671	61,511	75,669	90,153	104,970	120,128
708	C&I Prescriptive	Premium Efficiency Motor	Motors	90	206	352	529	739	953	1,173	1,397	1,627	1,862
709	C&I Prescriptive	Premium Efficiency Motor	Motors	623	1,428	2,440	3,673	5,129	6,618	8,142	9,700	11,294	12,925
710	C&I Prescriptive	Premium Efficiency Motor	Motors	1,875	4,299	7,347	11,061	15,444	19,928	24,515	29,207	34,007	38,918
711	C&I Prescriptive	Premium Efficiency Motor	Motors	2,122	4,866	8,317	12,521	17,483	22,559	27,752	33,064	38,498	44,057
712	C&I Prescriptive	Premium Efficiency Motor	Motors	2,068	4,741	8,103	12,199	17,034	21,979	27,038	32,213	37,508	42,924
713	C&I Prescriptive	Premium Efficiency Motor	Motors	3,229	7,404	12,654	19,051	26,600	34,323	42,223	50,305	58,573	67,031
714	C&I Prescriptive	Premium Efficiency Motor	Motors	2,252	5,165	8,827	13,290	18,556	23,944	29,455	35,093	40,861	46,761
715	C&I Prescriptive	Premium Efficiency Motor	Motors	3,096	7,099	12,132	18,266	25,503	32,908	40,482	48,231	56,158	64,268
716	C&I Prescriptive	Premium Efficiency Motor	Motors	2,200	5,045	8,622	12,982	18,126	23,388	28,772	34,279	39,913	45,676
717	C&I Prescriptive	Premium Efficiency Motor	Motors	3,011	6,905	11,800	17,766	24,807	32,009	39,376	46,913	54,624	62,512
718	C&I Prescriptive	Premium Efficiency Motor	Motors	276	632	1,080	1,627	2,271	2,931	3,605	4,295	5,001	5,724
719	C&I Prescriptive	Premium Efficiency Motor	Motors	1,154	2,646	4,521	6,807	9,504	12,264	15,087	17,975	20,929	23,951
720	C&I Prescriptive	Premium Efficiency Motor	Motors	4,386	10,058	17,188	25,878	36,133	46,623	57,355	68,333	79,564	91,053
721	C&I Prescriptive	Premium Efficiency Motor	Motors	5,530	12,681	21,671	32,627	45,556	58,782	72,313	86,154	100,314	114,800
722	C&I Prescriptive	Premium Efficiency Motor	Motors	6,325	14,505	24,789	37,322	52,111	67,240	82,717	98,550	114,747	131,317
723	C&I Prescriptive	Premium Efficiency Motor	Motors	8,413	19,293	32,972	49,642	69,313	89,436	110,022	131,082	152,626	174,666
724	C&I Prescriptive	Premium Efficiency Motor	Motors	9,063	20,784	35,519	53,476	74,666	96,344	118,520	141,206	164,414	188,156
725	C&I Prescriptive	Premium Efficiency Motor	Motors	18,326	42,025	71,819	108,129	150,977	194,809	239,650	285,522	332,450	380,456
726	C&I Prescriptive	Premium Efficiency Motor	Motors	15,258	34,991	59,799	90,031	125,707	162,204	199,539	237,734	276,807	316,778
727	C&I Prescriptive	Premium Efficiency Motor	Motors	12,802	29,359	50,174	75,541	105,474	136,096	167,423	199,470	232,254	265,792
728	C&I Prescriptive	Premium Efficiency Motor	Motors	161	368	630	948	1,324	1,708	2,101	2,504	2,915	3,336
729	C&I Prescriptive	Premium Efficiency Motor	Motors	1,058	2,426	4,146	6,242	8,715	11,246	13,834	16,482	19,191	21,962
730	C&I Prescriptive	Premium Efficiency Motor	Motors	4,240	9,723	16,616	25,016	34,929	45,070	55,445	66,058	76,914	88,021
731	C&I Prescriptive	Premium Efficiency Motor	Motors	4,901	11,239	19,208	28,919	40,378	52,100	64,093	76,361	88,911	101,751
732	C&I Prescriptive	Premium Efficiency Motor	Motors	4,856	11,136	19,031	28,652	40,005	51,620	63,502	75,657	88,092	100,813
733	C&I Prescriptive	Premium Efficiency Motor	Motors	4,766	10,930	18,680	28,124	39,268	50,669	62,332	74,263	86,469	98,955
734	C&I Prescriptive	Premium Efficiency Motor	Motors	3,305	7,580	12,954	19,503	27,231	35,137	43,225	51,499	59,963	68,622
735	C&I Prescriptive	Premium Efficiency Motor	Motors	5,568	12,768	21,820	32,852	45,870	59,187	72,811	86,747	101,005	115,590
736	C&I Prescriptive	Premium Efficiency Motor	Motors	5,464	12,530	21,413	32,239	45,013	58,082	71,451	85,128	99,119	113,432
737	C&I Prescriptive	Premium Efficiency Motor	Motors	7,267	16,666	28,482	42,881	59,874	77,256	95,039	113,231	131,841	150,879
738	C&I Prescriptive	Premium Efficiency Motor	Motors	1,282	2,939	5,023	7,562	10,558	13,624	16,760	19,968	23,249	26,607
739	C&I Prescriptive	Premium Efficiency Motor	Motors	5,009	11,486	19,629	29,553	41,264	53,244	65,499	78,037	90,862	103,983
740	C&I Prescriptive	Premium Efficiency Motor	Motors	14,132	32,409	55,386	83,388	116,431	150,234	184,814	220,190	256,379	293,401
741	C&I Prescriptive	Premium Efficiency Motor	Motors	18,878	43,291	73,984	111,388	155,526	200,680	246,872	294,126	342,467	391,921
742	C&I Prescriptive	Premium Efficiency Motor	Motors	19,912	45,662	78,036	117,489	164,044	211,671	260,393	310,236	361,225	413,387
743	C&I Prescriptive	Premium Efficiency Motor	Motors	33,931	77,812	132,980	200,211	279,546	360,706	443,733	528,669	615,559	704,447
744	C&I Prescriptive	Premium Efficiency Motor	Motors	36,434	83,552	142,789	214,979	300,167	387,314	476,465	567,666	660,966	756,411
745	C&I Prescriptive	Premium Efficiency Motor	Motors	94,082	215,751	368,713	555,125	775,098	1,000,130	1,230,338	1,465,841	1,706,761	1,953,221
746	C&I Prescriptive	Premium Efficiency Motor	Motors	98,569	226,042	386,301	581,606	812,072	1,047,839	1,289,029	1,535,766	1,788,177	2,046,395
747	C&I Prescriptive	Premium Efficiency Motor	Motors	87,125	199,797	341,449	514,077	717,784	926,177	1,139,363	1,357,452	1,580,557	1,808,793
748	C&I Prescriptive	Premium Efficiency Motor	Motors	777	1,782	3,046	4,585	6,403	8,261	10,163	12,108	14,098	16,134
749	C&I Prescriptive	Premium Efficiency Motor	Motors	4,847	11,116	18,998	28,602	39,936	51,531	63,392	75,526	87,939	100,638
750	C&I Prescriptive	Premium Efficiency Motor	Motors	12,565	28,815	49,244	74,141	103,520	133,575	164,321	195,774	227,951	260,868
751	C&I Prescriptive	Premium Efficiency Motor	Motors	14,295	32,781	56,022	84,346	117,768	151,960	186,938	222,720	259,325	296,772
752	C&I Prescriptive	Premium Efficiency Motor	Motors	13,982	32,065	54,798	82,503	115,195	148,640	182,853	217,854	253,659	290,288
753	C&I Prescriptive	Premium Efficiency Motor	Motors	19,136	43,884	74,997	112,913	157,656	203,428	250,253	298,154	347,158	397,288
754	C&I Prescriptive	Premium Efficiency Motor	Motors	13,242	30,368	51,898	78,136	109,098	140,772	173,175	206,322	240,233	274,923
755	C&I Prescriptive	Premium Efficiency Motor	Motors	32,975	75,619	129,232	194,568	271,667	350,540	431,227	513,769	598,210	684,593
756	C&I Prescriptive	Premium Efficiency Motor	Motors	43,014	98,642	168,577	253,805	354,378	457,264	562,516	670,189	780,338	893,021
757	C&I Prescriptive	Premium Efficiency Motor	Motors	55,194	126,572	216,308	325,669	454,718	586,735	721,788	859,948	1,001,286	1,145,874
758	C&I Prescriptive	Premium Efficiency Motor	Motors	426	978	1,671	2,515	3,512	4,532	5,575	6,642	7,733	8,850
759	C&I Prescriptive	Premium Efficiency Motor	Motors	2,985	6,844	11,697	17,610	24,588	31,727	39,030	46,501	54,143	61,962
760	C&I Prescriptive	Premium Efficiency Motor	Motors	12,091	27,727	47,385	71,341	99,611	128,530	158,115	188,381	219,342	251,016
761	C&I Prescriptive	Premium Efficiency Motor	Motors	17,920	41,095	70,230	105,737	147,637	190,500	234,348	279,206	325,095	372,039
762	C&I Prescriptive	Premium Efficiency Motor	Motors	16,893	38,739	66,203	99,674	139,171	179,576	220,910	263,195	306,453	350,706
763	C&I Prescriptive	Premium Efficiency Motor	Motors	30,144	69,126	118,135	177,862	248,341	320,441	394,200	469,655	546,845	625,811
764	C&I Prescriptive	Premium Efficiency Motor	Motors	29,485	67,615	115,553	173,974	242,913	313,437	385,583	459,389	534,892	612,132
765	C&I Prescriptive	Premium Efficiency Motor	Motors	75,100	172,223	294,324	443,128	618,721	798,352	982,116	1,170,106	1,362,419	1,559,156
766	C&I Prescriptive	Premium Efficiency Motor	Motors	41,244	94,582	161,639	243,359	339,792	438,443	539,363	642,604	748,220	856,265
767	C&I Prescriptive	Premium Efficiency Motor	Motors	31,183	71,511	122,210	183,997	256,907	331,494	407,797	485,854	565,707	647,397
768	C&I Prescriptive	Premium Efficiency Motor	Motors	156	358	613	922	1,288	1,662	2,044	2,436	2,836	3,245
769	C&I Prescriptive	Premium Efficiency Motor	Motors	1,934	4,436	7,581	11,414	15,937	20,563	25,297	30,139	35,092	40,159
770	C&I Prescriptive	Premium Efficiency Motor	Motors	10,128	23,225	39,691	59,757	83,436	107,660	132,441	157,793	183,727	210,257

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
771	C&I Prescriptive	Premium Efficiency Motor	Motors	11,106	25,468	43,523	65,528	91,494	118,057	145,231	173,030	201,469	230,561
772	C&I Prescriptive	Premium Efficiency Motor	Motors	10,547	24,187	41,335	62,233	86,894	112,121	137,929	164,331	191,339	218,969
773	C&I Prescriptive	Premium Efficiency Motor	Motors	13,643	31,287	53,470	80,502	112,402	145,036	178,420	212,572	247,509	283,250
774	C&I Prescriptive	Premium Efficiency Motor	Motors	7,699	17,655	30,172	45,426	63,426	81,840	100,678	119,950	139,664	159,832
775	C&I Prescriptive	Premium Efficiency Motor	Motors	17,447	40,009	68,375	102,944	143,736	185,467	228,157	271,829	316,506	362,211
776	C&I Prescriptive	Premium Efficiency Motor	Motors	9,944	22,804	38,972	58,676	81,926	105,712	130,044	154,936	180,401	206,452
777	C&I Prescriptive	Premium Efficiency Motor	Motors	14,213	32,595	55,703	83,866	117,098	151,095	185,874	221,452	257,849	295,083
778	C&I Custum	Compressed Air-O&M	All systems	3,162,976	6,325,951	9,488,927	12,651,902	15,814,878	19,050,602	22,360,748	25,747,027	29,211,190	32,755,029
779	C&I Custum	Compressed Air - Controls	All systems	753,089	1,506,179	2,259,268	3,012,358	3,765,447	4,535,858	5,323,988	6,130,244	6,955,045	7,798,816
780	C&I Custum	Compressed Air - System Optimization	All systems	2,510,298	5,020,596	7,530,894	10,041,192	12,551,490	15,119,525	17,746,625	20,434,148	23,183,484	25,996,055
781	C&I Custum	Compressed Air- Sizing	All systems	903,707	1,807,415	2,711,122	3,614,829	4,518,537	5,443,029	6,388,785	7,356,293	8,346,054	9,358,580
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	10,256	20,512	30,768	41,025	51,281	61,773	72,506	83,486	94,719	106,210
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	652,025	1,304,050	1,956,075	2,608,100	3,260,125	3,927,146	4,609,509	5,307,567	6,021,679	6,752,217
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	153,120	306,241	459,361	612,482	765,602	922,244	1,082,489	1,246,420	1,414,121	1,585,679
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	153,291	306,582	459,873	613,165	766,456	923,273	930,405	941,227	955,824	974,282
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	1,591,312	3,182,625	4,773,937	6,365,249	7,956,562	9,584,474	9,658,516	9,770,862	9,922,391	10,114,006
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	372,152	744,303	1,116,455	1,488,607	1,860,758	2,241,470	2,258,785	2,285,059	2,320,496	2,365,308
791	C&I Custum	Power recovery	All systems	30,808	61,615	92,423	123,231	154,039	185,555	217,796	250,779	284,520	319,038
792	C&I Custum	Refinery Controls	All systems	308,666	617,332	925,998	1,234,664	1,543,330	1,859,095	2,182,123	2,512,580	2,850,638	3,196,472
793	C&I Custum	Energy Star Transformers	All systems	6,256	12,512	18,767	25,023	31,279	37,678	44,225	50,923	57,774	64,783
794	C&I Custum	Fans - O&M	All systems	251,030	502,060	753,089	1,004,119	1,255,149	1,511,953	1,774,663	2,043,415	2,318,348	2,599,605
795	C&I Custum	Fans - Controls	All systems	891,869	1,783,739	2,675,608	3,567,477	4,459,347	5,371,729	6,305,096	7,259,931	8,236,726	9,235,989
796	C&I Custum	Fans - System Optimization	All systems	422,854	845,709	1,268,563	1,691,418	2,114,272	2,546,852	2,989,382	3,442,089	3,905,209	4,378,981
797	C&I Custum	Fans - Improve components	All systems	251,030	502,060	753,089	1,004,119	1,255,149	1,511,953	1,774,663	2,043,415	2,318,348	2,599,605
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	10,256	20,512	30,768	41,025	51,281	61,773	72,506	83,486	94,719	106,210
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	652,025	1,304,050	1,956,075	2,608,100	3,260,125	3,927,146	4,609,509	5,307,567	6,021,679	6,752,217
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	153,120	306,241	459,361	612,482	765,602	922,244	1,082,489	1,246,420	1,414,121	1,585,679
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	153,291	306,582	459,873	613,165	766,456	923,273	930,405	941,227	955,824	974,282
805	C&I Custum	Fans - ASD (100+ hp)	All systems	1,591,312	3,182,625	4,773,937	6,365,249	7,956,562	9,584,474	9,658,516	9,770,862	9,922,391	10,114,006
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	372,152	744,303	1,116,455	1,488,607	1,860,758	2,241,470	2,258,785	2,285,059	2,320,496	2,365,308
807	C&I Custum	Optimize drying process	All systems	1,553,601	3,107,202	4,660,803	6,214,404	7,768,005	9,357,339	10,983,228	12,646,512	14,348,051	16,088,726
808	C&I Custum	Pumps - O&M	All systems	1,004,119	2,008,238	3,012,358	4,016,477	5,020,596	6,047,810	7,098,650	8,173,659	9,273,394	10,398,422
809	C&I Custum	Pumps - Controls	All systems	2,635,813	5,271,626	7,907,439	10,543,252	13,179,065	15,875,502	18,633,956	21,455,855	24,342,658	27,295,858
810	C&I Custum	Pumps - System Optimization	All systems	1,939,074	3,878,147	5,817,221	7,756,295	9,695,368	11,679,041	13,708,338	15,784,308	17,908,026	20,080,590
811	C&I Custum	Pumps - Sizing	All systems	1,004,119	2,008,238	3,012,358	4,016,477	5,020,596	6,047,810	7,098,650	8,173,659	9,273,394	10,398,422
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	10,256	20,512	30,768	41,025	51,281	61,773	72,506	83,486	94,719	106,210
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	652,025	1,304,050	1,956,075	2,608,100	3,260,125	3,927,146	4,609,509	5,307,567	6,021,679	6,752,217
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	153,120	306,241	459,361	612,482	765,602	922,244	1,082,489	1,246,420	1,414,121	1,585,679
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	153,291	306,582	459,873	613,165	766,456	923,273	930,405	941,227	955,824	974,282
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	1,591,312	3,182,625	4,773,937	6,365,249	7,956,562	9,584,474	9,658,516	9,770,862	9,922,391	10,114,006
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	372,152	744,303	1,116,455	1,488,607	1,860,758	2,241,470	2,258,785	2,285,059	2,320,496	2,365,308
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	20,600	41,200	61,800	82,400	103,000	124,074	145,632	167,687	190,248	213,329
822	C&I Custum	Optimization refrigeration	Refrigeration	5,924	11,849	17,773	23,697	29,622	35,682	41,882	48,225	54,714	61,351
823	C&I Custum	Bakery - process	Process	20,347	40,695	61,042	81,389	101,737	122,552	143,846	165,630	187,915	210,712
824	C&I Custum	Bakery - process (mixing)	Process	8,143	16,286	24,429	32,573	40,716	49,046	57,568	66,286	75,205	84,329
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	66,242	132,484	198,726	264,968	331,210	398,976	468,300	539,219	611,769	685,987
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	34,010	68,019	102,029	136,038	170,048	204,840	240,432	276,842	314,090	352,195
830	C&I Custum	Direct drive extruders	Machine Drive	3,771	7,541	11,312	15,083	18,853	22,711	26,657	30,694	34,824	39,048
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	14,879	29,758	44,638	59,517	74,396	89,617	105,189	121,119	137,415	154,085
832	C&I Custum	Injection molding - direct drive	Machine Drive	6,947	13,894	20,841	27,788	34,735	41,841	49,111	56,549	64,157	71,941
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	5,886	11,773	17,659	23,545	29,432	35,453	41,613	47,915	54,362	60,957
835	C&I Custum	Top-heating (glass)	Process Heating	3,552	7,104	10,655	14,207	17,759	21,393	25,110	28,912	32,750	36,678
836	C&I Custum	Process controls	Process	385,995	771,990	1,157,984	1,543,979	1,929,974	2,324,847	2,728,802	3,142,047	3,564,798	3,997,271
837	C&I Custum	Efficient electric melting	Process Heating	31,018	62,036	93,054	124,071	155,089	186,821	219,282	252,489	286,461	321,214
838	C&I Custum	Near net shape casting	Machine Drive	26,884	53,768	80,653	107,537	134,421	161,923	190,058	218,841	248,285	278,406
839	C&I Custum	Optimization process (M&T)	Process	7,572	15,145	22,717	30,290	37,862	45,609	53,533	61,640	69,934	78,418
840	C&I Custum	Scheduling	Process	2,100	4,200	6,301	8,401	10,501	12,649	14,847	17,096	19,396	21,749
841	C&I Custum	Efficient curing ovens	Process Heating	1,603	3,206	4,809	6,412	8,015	9,654	11,332	13,048	14,804	16,599
842	C&I Custum	Machinery	Machine Drive	4,580	9,161	13,741	18,322	22,902	27,588	32,381	37,285	42,302	47,434
843	C&I Custum	Optimization process (M&T)	Process	3,237	6,474	9,711	12,948	16,185	19,497	22,884	26,350	29,895	33,522
844	C&I Custum	Scheduling	Process	898	1,796	2,693	3,591	4,489	5,407	6,347	7,308	8,291	9,297
845	C&I Custum	Efficient curing ovens	Process Heating	238	476	714	952	1,190	1,434	1,683	1,938	2,199	2,465
846	C&I Custum	Machinery	Machine Drive	4,838	9,676	14,515	19,353	24,191	29,141	34,204	39,384	44,683	50,104
847	C&I Custum	Optimization process (M&T)	Process	2,384	4,768	7,152	9,536	11,920	14,359	16,854	19,407	22,018	24,689

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
848	C&I Custom	Scheduling	Process	827	1,653	2,480	3,306	4,133	4,978	5,843	6,728	7,633	8,559
849	C&I Custom	Efficient curing ovens	Process Heating	398	797	1,195	1,594	1,992	2,400	2,817	3,243	3,679	4,126
850	C&I Custom	Machinery	Machine Drive	2,189	4,378	6,568	8,757	10,946	13,186	15,477	17,820	20,218	22,671
851	C&I Custom	Scheduling	Process	956	1,912	2,868	3,824	4,781	5,759	6,759	7,783	8,830	9,901
852	C&I Custom	Efficient curing ovens	Process Heating	720	1,440	2,159	2,879	3,599	4,335	5,088	5,859	6,647	7,454
853	C&I Custom	Machinery	Machine Drive	310	620	930	1,240	1,550	1,868	2,192	2,524	2,864	3,211
854	C&I Custom	Efficient processes (welding, etc.)	Process	6,249	12,498	18,747	24,997	31,246	37,639	44,179	50,869	57,713	64,715
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	494,908	1,012,537	1,553,803	2,119,648	2,711,037	3,316,028	3,934,933	4,568,074	5,215,777	5,878,377
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	0	0	159,396	321,848	487,411	656,782	830,049	1,007,301	1,188,630	1,374,129
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	0	0	177,843	359,095	543,818	732,791	926,109	1,123,874	1,326,188	1,533,155
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000
865	Commercial Demand Credit	Commercial Demand Credit	All systems	760,000	760,000	760,000	760,000	760,000	760,000	760,000	760,000	760,000	760,000
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	24,869,309	26,724,359	28,252,521	29,382,273	30,058,066	30,749,401	31,456,637	32,180,140	32,920,283	33,677,450
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	4,596,282	4,939,127	5,221,558	5,430,356	5,555,254	5,683,025	5,813,735	5,947,451	6,084,242	6,224,180
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	5,276,202	5,669,765	5,993,975	6,233,660	6,377,034	6,523,706	6,673,751	6,827,248	6,984,274	7,144,913
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	6,245,217	6,711,059	7,094,813	7,378,519	7,548,224	7,721,834	7,899,436	8,081,123	8,266,989	8,457,129
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	2,495,005	2,681,112	2,834,424	2,947,766	3,015,565	3,084,923	3,155,876	3,228,461	3,302,716	3,378,678
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	538,885	579,082	612,195	636,676	651,319	666,299	681,624	697,302	713,340	729,746
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	745,841	801,474	847,304	881,186	901,453	922,187	943,397	965,095	987,293	1,010,000
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	5,211,610	5,861,974	6,527,297	7,207,922	7,904,201	8,616,495	9,345,172	10,090,608	10,853,190	11,371,690
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	6,886,222	7,745,563	8,624,670	9,523,996	10,444,006	11,385,177	12,347,994	13,332,957	14,340,573	15,025,680
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	3,017,067	3,393,572	3,778,735	4,172,758	4,575,843	4,988,199	5,410,039	5,841,582	6,283,050	6,583,216
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	12,982,604	14,602,722	16,260,102	17,955,603	19,690,100	21,464,490	23,279,691	25,136,642	27,036,303	28,327,935
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	3,836,309	4,315,047	4,804,797	5,305,811	5,818,348	6,342,673	6,879,058	7,427,780	7,989,122	8,370,794
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	2,169,499	2,440,234	2,717,195	3,000,527	3,290,376	3,586,891	3,890,226	4,200,537	4,517,986	4,733,829
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	12,052,349	13,556,379	15,095,002	16,669,013	18,279,227	19,926,475	21,611,610	23,335,503	25,099,046	26,298,127
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	24,272,007	27,300,946	30,399,550	33,569,422	36,812,202	40,129,565	43,523,228	46,994,945	50,546,511	52,961,320
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	14,960,193	16,827,097	18,736,940	20,690,709	22,689,415	24,734,091	26,825,795	28,965,608	31,154,637	32,643,019
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	5,761,487	6,480,471	7,215,992	7,968,430	8,738,174	9,525,622	10,331,182	11,155,269	11,998,310	12,571,518
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	6,287,488	6,287,488	6,287,488	6,287,488	6,287,488	6,287,488	5,530,380	4,531,742	3,247,205	1,642,062
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	1,601,738	1,601,738	1,601,738	1,601,738	1,601,738	1,601,738	1,408,865	1,154,462	827,226	418,315
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	1,759,200	1,759,200	1,759,200	1,759,200	1,759,200	1,759,200	1,547,366	1,267,953	908,548	459,439
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	2,506,107	2,506,107	2,506,107	2,506,107	2,506,107	2,506,107	2,506,107	2,506,107	2,506,107	2,204,334
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	923,943	1,035,613	1,149,852	1,266,718	1,386,272	1,508,575	1,633,692	1,761,686	1,892,624	2,026,574
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	1,772,508	1,986,738	2,205,895	2,430,093	2,659,447	2,894,077	3,134,102	3,379,649	3,630,843	3,887,814
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	418,341	468,902	520,627	573,541	627,672	683,049	739,699	797,652	856,937	917,587
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	518,546	581,219	645,333	710,922	778,020	846,660	916,880	988,714	1,062,201	1,137,377
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	1,213,696	1,360,386	1,510,450	1,663,966	1,821,012	1,981,671	2,146,024	2,314,158	2,486,159	2,662,116
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	252,962	283,536	314,812	346,809	379,541	413,026	447,281	482,324	518,173	554,846
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	2,744,447	3,076,148	3,415,478	3,762,612	4,117,731	4,481,017	4,852,659	5,232,848	5,621,782	6,019,661
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	6,188,272	6,936,202	7,701,334	8,484,065	9,284,798	10,103,948	10,941,938	11,799,203	12,676,184	13,573,336
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	1,349,070	1,512,122	1,678,924	1,849,563	2,024,126	2,202,705	2,385,390	2,572,278	2,763,463	2,959,046
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	372,292	416,422	461,566	507,748	554,993	603,324	652,767	703,347	755,091	808,024
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	8,077,185	9,053,413	10,052,095	11,073,747	12,118,896	13,188,084	14,281,864	15,400,800	16,545,471	17,716,471
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	25,211,262	28,258,358	31,375,537	34,564,411	37,826,629	41,163,878	44,577,884	48,070,412	51,643,268	55,298,299
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	6,328,115	7,092,947	7,875,370	8,675,789	9,494,617	10,332,278	11,189,206	12,065,842	12,962,642	13,880,068
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	1,603,063	1,793,080	1,987,467	2,186,325	2,389,757	2,597,868	2,810,766	3,028,560	3,251,363	3,479,291
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	1,872,138	2,042,332	2,212,526	2,382,721	2,552,915	2,723,109	2,893,303	3,063,498	3,233,692	3,403,886
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	1,782,238	1,944,260	2,106,281	2,268,303	2,430,324	2,592,346	2,754,368	2,916,389	3,078,411	3,240,433
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	754,074	822,626	891,178	959,730	1,028,282	1,096,834	1,165,387	1,233,939	1,302,491	1,371,043
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	296,427,340	315,558,446	331,128,854	342,854,886	350,740,548	358,807,581	367,060,155	375,502,538	384,139,097	392,974,296

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	55,604,094	59,192,723	62,113,433	64,313,012	65,792,211	67,305,432	68,853,457	70,437,087	72,057,140	73,714,454
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	31,445,074	33,474,505	35,126,217	36,370,117	37,206,630	38,062,382	38,937,817	39,833,387	40,749,555	41,686,795
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	225,216,361	239,751,587	251,581,502	260,490,580	266,481,864	272,610,946	278,880,998	285,295,261	291,857,052	298,569,764
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	9,031,197	10,087,447	11,167,990	11,888,109	12,520,678	13,051,107	13,471,161	13,780,998	14,097,961	14,422,214
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	1,064,190	1,188,653	1,315,979	1,400,834	1,475,373	1,537,876	1,587,373	1,623,883	1,661,232	1,699,440
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	1,177,219	1,314,902	1,455,751	1,549,619	1,632,074	1,701,216	1,755,970	1,790,357	1,837,673	1,879,940
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	779,960	871,181	964,500	1,026,692	1,081,322	1,127,131	1,163,408	1,190,167	1,217,541	1,245,544
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	10,350,930	11,291,923	11,291,923	11,291,923	11,291,923	11,291,923	11,291,923	11,291,923	11,291,923	11,291,923
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	2,446,415	2,668,817	2,668,817	2,668,817	2,668,817	2,668,817	2,668,817	2,668,817	2,668,817	2,668,817
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	2,458,526	2,682,028	2,682,028	2,682,028	2,682,028	2,682,028	2,682,028	2,682,028	2,682,028	2,682,028
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	4,632,980	4,925,682	5,137,758	5,255,926	5,376,813	5,500,479	5,626,990	5,756,411	5,888,809	6,024,251
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	5,149,574	5,475,106	5,710,837	5,842,186	5,976,556	6,114,017	6,254,640	6,398,496	6,545,662	6,696,212
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	1,907,619	2,028,139	2,115,460	2,164,116	2,213,891	2,264,810	2,316,901	2,370,190	2,424,704	2,480,472
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	778,286	827,457	863,083	882,934	903,241	924,016	945,268	967,009	989,251	1,012,003
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	4,287,163	4,613,930	4,883,857	5,083,117	5,200,029	5,319,630	5,441,981	5,567,147	5,695,191	5,826,180
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	4,931,150	5,307,002	5,617,476	5,846,667	5,981,140	6,118,706	6,259,437	6,403,404	6,550,682	6,701,348
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	1,923,529	2,070,141	2,191,250	2,280,652	2,333,107	2,386,768	2,441,664	2,497,822	2,555,272	2,614,043
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	57,276	61,641	65,247	67,909	69,471	71,069	72,704	74,376	76,087	77,837
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	2,009,917	2,252,841	2,501,352	2,755,578	3,015,652	3,211,543	3,388,642	3,540,696	3,661,465	3,745,678
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	7,389,998	8,283,171	9,196,887	10,131,619	11,087,850	11,808,095	12,459,247	13,018,315	13,462,353	13,771,987
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	3,370,633	3,778,016	4,194,769	4,621,107	5,057,251	5,385,760	5,682,755	5,937,751	6,140,279	6,281,506
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	1,611,370	1,806,124	2,005,357	2,209,173	2,417,677	2,574,724	2,716,706	2,838,609	2,935,431	3,002,946
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	911,257	1,021,394	1,134,064	1,249,325	1,367,238	1,456,051	1,536,344	1,605,283	1,660,037	1,698,218
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	299,972	327,242	354,513	381,783	409,053	436,323	463,593	490,864	518,134	545,404
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	386,587	421,731	456,875	492,019	527,164	562,308	597,452	632,596	667,741	702,885
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	121,892	132,973	144,054	155,135	166,216	177,297	188,378	199,460	210,541	221,622
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	711,802	797,832	885,841	975,874	1,067,977	1,162,199	1,258,589	1,357,195	1,458,069	1,561,263
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	1,667,482	1,869,018	2,075,190	2,286,103	2,501,867	2,722,594	2,948,398	3,179,395	3,415,705	3,657,450
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	318,808	357,340	396,758	437,083	478,335	520,536	563,708	607,873	653,053	699,273
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	290,912	326,072	362,041	398,837	436,480	474,988	514,382	554,682	595,909	638,085
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	1,045,781	1,172,177	1,301,480	1,433,757	1,569,076	1,707,508	1,849,123	1,993,996	2,142,200	2,293,814
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	162,953	182,648	202,796	223,407	244,493	266,063	288,129	310,703	333,796	357,421
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	1,062,074	1,186,289	1,313,362	1,443,357	1,576,342	1,667,077	1,747,655	1,816,364	1,872,238	1,915,299
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	193,344	215,956	239,089	262,754	286,963	303,480	318,149	330,657	340,829	348,668
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	419,768	468,862	519,085	570,464	623,024	658,886	690,733	717,889	739,972	756,992
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	533,959	568,420	596,467	617,589	631,794	646,325	661,190	676,398	691,955	707,870
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	34,781	37,026	38,852	40,228	41,154	42,100	43,068	44,059	45,072	46,109
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	266,609	283,815	297,819	308,366	315,458	322,714	330,136	337,729	345,497	353,444
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	3,841,578	4,290,873	4,586,617	4,844,876	5,059,440	5,226,800	5,347,016	5,469,998	5,595,808	5,724,511
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	1,455,902	1,626,178	1,738,261	1,836,137	1,917,454	1,980,881	2,026,441	2,073,049	2,120,729	2,169,506
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	623,883	696,850	744,879	786,821	821,667	848,847	868,370	888,343	908,775	929,676
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	2,902,819	3,242,320	3,465,793	3,660,943	3,823,074	3,949,536	4,040,376	4,133,304	4,228,370	4,325,623
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	6,462,290	6,942,406	7,359,067	7,701,813	7,964,734	8,147,923	8,335,325	8,527,038	8,723,160	8,923,792
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	3,447,427	3,703,554	3,925,829	4,108,673	4,248,933	4,346,659	4,446,632	4,548,904	4,653,529	4,760,560
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	1,179,213	1,481,682	1,570,607	1,643,758	1,699,872	1,738,969	1,778,965	1,819,881	1,861,739	1,904,559
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	3,370,106	3,620,488	3,837,778	4,016,521	4,153,635	4,249,169	4,346,900	4,446,878	4,549,157	4,653,787
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	1,565,961	1,565,961	1,565,961	1,565,961	1,565,961	1,565,961	1,565,961	1,565,961	1,427,738	1,245,414
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	177,428	177,428	177,428	177,428	177,428	177,428	177,428	177,428	161,766	141,109
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	15,560,591	16,975,190	18,389,790	19,804,389	21,218,988	22,633,587	24,048,186	25,462,786	25,462,786	25,462,786
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	2,364,884	2,579,873	2,794,863	3,009,852	3,224,842	3,439,831	3,654,821	3,869,810	4,084,800	4,299,789
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	8,260,593	9,011,556	9,762,519	10,513,482	11,264,445	12,015,408	12,766,371	13,517,334	14,268,297	15,019,260
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	3,391,082	3,391,082	3,391,082	3,391,082	3,391,082	3,391,082	3,391,082	3,391,082	3,391,082	3,391,082
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	6,335,941	6,481,667	6,630,746	6,783,253	6,939,268	7,098,871	7,262,145	7,429,174	7,600,045	7,774,846
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	10,559,901	10,802,779	11,051,243	11,305,422	11,565,446	11,831,452	12,103,575	12,381,957	12,666,742	12,958,077
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	13,375,875	13,683,520	13,998,241	14,320,201	14,649,565	14,986,505	15,331,195	15,683,812	16,044,540	16,413,565
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	18,069,165	18,484,755	18,909,905	19,344,833	19,789,764	20,244,928	20,710,562	21,186,905	21,674,203	22,172,710
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	3,627,855	4,057,878	4,354,930	4,616,524	4,834,522	5,002,611	5,117,671	5,235,378	5,355,792	5,478,975
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	7,152,226	8,000,006	8,585,635	9,101,362	9,531,139	9,862,524	10,089,362	10,321,417	10,558,810	10,801,662
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	9,516,644	10,644,687	11,423,918	12,110,136	12,681,990	13,122,926	13,424,753	13,733,522	14,049,393	14,372,529
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	13,143,178	14,701,087	15,777,261	16,724,978	17,514,751	18,123,715	18,540,560	18,966,993	19,403,234	19,849,508
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,140,987	1,231,301	1,310,392	1,375,699	1,425,234	1,458,014	1,491,548	1,525,854	1,560,949	1,596,851
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,339,020	2,524,164	2,686,300	2,820,178	2,921,725	2,988,925	3,057,670	3,127,997	3,199,941	3,273,539
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,555,085	1,678,177	1,785,973	1,874,981	1,942,494	1,987,171	2,032,876	2,079,632	2,127,464	2,176,395
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	202,085	218,081	232,089	243,656	252,429	258,235	264,174	270,250	276,466	282,825
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,848,459	1,994,773	2,122,905	2,228,705	2,308,954	2,362,060	2,416,388	2,471,965	2,528,820	2,586,983
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	383,544	413,903	440,489	462,442	479,093	490,113	501,385	512,917	524,714	536,783
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	45,234	48,815	51,950	54,539	56,503	57,802	59,132	60,492	61,883	63,307
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	57,986	62,576	66,595	69,914	72,432	74,098	75,802	77,545	79,329	81,153
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	58,433	63,058	67,108	70,453	72,990	74,668	76,386	78,143	79,940	81,779
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	11,359	12,258	13,045	13,696	14,189	14,515	14,849	15,190	15,540	15,897
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	28,965	30,170	30,864	31,574	32,300	33,043	33,803	34,581	35,376	36,190
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	43,645	48,818	54,111	59,525	65,063	70,729	74,807	78,469	81,620	84,181
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	44,939	50,265	55,715	61,289	66,992	72,826	77,024	80,796	84,039	86,677
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	42,132	47,126	52,235	57,461	62,808	68,277	72,213	75,749	78,790	81,263
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	42,571	47,617	52,779	58,060	63,463	68,989	72,967	76,539	79,612	82,111
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	116,799	130,459	144,434	158,730	173,354	188,315	203,621	219,278	235,295	251,681
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,630,472	1,821,165	2,016,244	2,215,810	2,419,965	2,628,817	2,842,471	3,061,040	3,284,636	3,513,375
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	249,397	278,566	308,405	338,931	370,158	402,104	434,785	468,217	502,419	537,407
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2,546,266	2,844,067	3,148,716	3,460,373	3,779,198	4,105,355	4,439,014	4,780,348	5,129,532	5,486,747
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	129,743	144,918	160,441	176,321	192,567	209,186	226,187	243,580	261,372	279,574
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	135,157	138,266	141,446	144,699	148,027	151,432	154,915	158,478	162,123	165,852
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	987,170	1,009,875	1,033,102	1,056,863	1,081,171	1,106,038	1,131,477	1,157,501	1,184,123	1,211,358
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	165,009	168,804	172,687	176,658	180,722	184,878	189,130	193,480	197,930	202,483
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	1,360,107	1,391,390	1,423,392	1,456,130	1,489,621	1,523,882	1,558,931	1,594,787	1,631,467	1,668,991
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	908,842	929,745	951,129	973,005	995,384	1,018,278	1,041,698	1,065,658	1,090,168	1,115,242
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	959,613	981,684	1,004,263	1,027,361	1,050,990	1,075,163	1,099,892	1,125,189	1,151,068	1,177,543
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	616,769	630,955	645,467	660,313	675,500	691,036	706,930	723,190	739,823	756,839
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,187,925	2,238,248	2,289,727	2,342,391	2,396,266	2,451,380	2,507,762	2,565,440	2,624,446	2,684,808
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,344,475	2,398,398	2,453,561	2,509,993	2,567,723	2,626,780	2,687,196	2,749,002	2,812,229	2,876,910
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	1,457,080	1,490,593	1,524,877	1,559,949	1,595,828	1,632,532	1,670,080	1,708,492	1,747,787	1,787,986
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,669,974	2,731,384	2,794,206	2,858,472	2,924,217	2,991,474	3,060,278	3,130,665	3,202,670	3,276,331
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,340,756	1,371,594	1,403,140	1,435,413	1,468,427	1,502,201	1,536,752	1,572,097	1,608,255	1,645,245
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	443,162	453,355	463,782	474,449	485,361	496,524	507,944	519,627	531,578	543,805
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	7,572	7,844	8,091	8,312	8,503	8,698	8,898	9,103	9,312	9,527
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	73,638	76,281	78,686	80,830	82,689	84,591	86,537	88,527	90,563	92,646
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	2,448	2,536	2,616	2,687	2,749	2,812	2,876	2,943	3,010	3,080
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	40,365	41,814	43,132	44,307	45,326	46,369	47,435	48,526	49,642	50,784
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	175,437	181,734	187,464	192,572	197,001	201,532	206,168	210,909	215,760	220,723
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	51,156	52,992	54,663	56,153	57,444	58,765	60,117	61,500	62,914	64,361
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	231,553	239,864	247,427	254,169	260,015	265,995	272,113	278,372	284,774	291,324
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	112,880	116,931	120,618	123,905	126,755	129,670	132,652	135,703	138,825	142,017
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	537	556	574	590	603	617	631	646	661	676
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	101,948	105,607	108,937	111,905	114,479	117,112	119,806	122,561	125,380	128,264
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	2,234,189	2,495,490	2,762,801	3,036,260	3,316,008	3,506,879	3,676,384	3,820,920	3,938,458	4,029,042
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,722,380	1,923,822	2,129,898	2,340,713	2,556,376	2,703,523	2,834,197	2,945,623	3,036,235	3,106,069
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,050,855	1,173,759	1,299,489	1,428,111	1,559,692	1,649,468	1,729,195	1,797,178	1,852,462	1,895,069
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	6,672,773	7,453,191	8,251,559	9,068,290	9,903,805	10,473,873	10,980,127	11,411,808	11,762,853	12,033,399
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	7,133,075	7,967,328	8,820,770	9,693,840	10,586,991	11,196,383	11,737,560	12,199,020	12,574,280	12,863,489
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	3,513,338	3,924,243	4,344,598	4,774,622	5,214,536	5,514,687	5,781,240	6,008,528	6,193,360	6,335,807

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,101,691	1,230,540	1,362,353	1,497,197	1,635,143	1,729,262	1,812,846	1,884,118	1,942,076	1,986,744
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	1,730,864	1,792,990	1,849,522	1,899,919	1,943,618	1,988,321	2,034,052	2,080,835	2,128,695	2,177,655
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	10,424,778	10,798,950	11,139,437	11,442,975	11,706,164	11,975,405	12,250,840	12,532,609	12,820,859	13,115,739
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	369,214	382,466	394,525	405,275	414,596	424,132	433,887	443,867	454,075	464,519
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	36,562,397	37,874,715	39,068,890	40,133,479	41,056,549	42,000,849	42,966,869	43,955,107	44,966,074	46,000,294
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	240,727	249,367	257,229	264,239	270,316	276,533	282,894	289,400	296,056	302,866
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1,290,183	1,336,491	1,378,630	1,416,196	1,448,769	1,482,090	1,516,178	1,551,051	1,586,725	1,623,219
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	278,052	288,032	297,114	305,210	312,230	319,411	326,757	334,273	341,961	349,826
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1,535,019	1,590,114	1,640,250	1,684,945	1,723,699	1,763,344	1,803,901	1,845,391	1,887,835	1,931,255
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	8,079,119	8,369,099	8,632,974	8,868,214	9,072,183	9,280,843	9,494,302	9,712,671	9,936,063	10,164,592
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	355,486	368,245	379,856	390,206	399,181	408,362	417,754	427,363	437,192	447,248
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	30,980,679	32,092,655	33,104,524	34,006,589	34,788,741	35,588,882	36,407,426	37,244,797	38,101,427	38,977,760
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	5,033,190	5,213,845	5,378,235	5,524,787	5,651,857	5,781,850	5,914,832	6,050,873	6,190,043	6,332,414
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	987,954	1,023,414	1,055,682	1,084,448	1,109,390	1,134,906	1,161,009	1,187,713	1,215,030	1,242,976
323	C&I Prescriptive	VAV	Chiller & Boiler	8,110,093	8,633,510	9,059,508	9,380,326	9,596,074	9,816,783	10,042,570	10,273,549	10,509,840	10,751,567
324	C&I Prescriptive	VAV	Chiller & Boiler	6,585,778	7,010,818	7,356,748	7,617,267	7,792,465	7,971,691	8,155,400	8,342,606	8,534,486	8,730,779
325	C&I Prescriptive	VAV	Chiller & Boiler	3,660,093	3,896,312	4,088,565	4,233,351	4,330,718	4,430,324	4,532,222	4,636,463	4,743,101	4,852,193
326	C&I Prescriptive	VAV	Chiller & Boiler	18,230,803	19,407,399	20,365,007	21,086,178	21,571,160	22,067,297	22,574,845	23,094,066	23,625,230	24,168,610
327	C&I Prescriptive	VAV	Chiller & Boiler	27,705,690	29,493,786	30,949,079	32,045,057	32,782,094	33,536,082	34,307,412	35,096,482	35,903,701	36,729,486
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	8,320,576	8,857,577	9,294,631	9,623,776	9,845,122	10,071,560	10,303,296	10,540,180	10,782,604	11,030,604
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	9,602,734	10,222,485	10,726,887	11,106,750	11,362,205	11,623,536	11,890,878	12,164,368	12,444,148	12,730,364
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	3,555,379	3,784,840	3,971,593	4,112,236	4,206,817	4,303,574	4,402,556	4,503,815	4,607,403	4,713,373
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	14,007,181	14,911,189	15,646,943	16,201,037	16,573,661	16,954,855	17,344,817	17,743,748	18,151,854	18,569,346
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	20,581,067	21,909,347	22,909,407	23,804,550	24,352,054	24,912,152	25,485,131	26,071,289	26,670,929	27,284,360
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	26,513,897	28,225,076	29,617,768	30,666,601	31,371,933	32,093,488	32,831,638	33,586,765	34,359,261	35,149,524
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	5,762,579	6,134,490	6,437,180	6,665,135	6,818,433	6,975,257	7,135,688	7,299,809	7,467,705	7,639,462
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	1,351	1,438	1,509	1,562	1,598	1,635	1,673	1,711	1,750	1,791
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2,340,779	2,491,850	2,614,804	2,707,400	2,769,670	2,833,373	2,898,540	2,965,207	3,033,406	3,103,175
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	359,957	383,189	402,096	416,335	425,911	435,707	445,728	455,980	466,467	477,196
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2,675,619	2,848,301	2,988,843	3,094,684	3,165,862	3,238,677	3,313,166	3,389,369	3,467,325	3,547,073
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2,376,526	2,529,904	2,654,736	2,748,746	2,811,967	2,876,643	2,942,805	3,010,490	3,079,731	3,150,565
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(379,653)	(404,156)	(424,098)	(439,116)	(449,215)	(459,547)	(470,117)	(480,930)	(491,991)	(503,307)
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,045,124	1,112,575	1,167,472	1,208,815	1,236,618	1,265,060	1,294,156	1,323,922	1,354,372	1,385,523
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	89,428	95,199	99,897	103,434	105,813	108,247	110,737	113,283	115,889	118,554
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	2,136,665	2,274,564	2,386,796	2,471,318	2,528,158	2,586,306	2,645,791	2,706,644	2,768,897	2,832,582
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	3,534,308	3,762,408	3,948,054	4,087,864	4,181,885	4,278,068	4,376,464	4,477,122	4,580,096	4,685,438
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	8,996,611	9,803,576	10,620,541	11,437,505	12,254,470	13,071,435	13,888,399	14,705,364	15,522,329	16,339,293
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	399,399	408,585	417,982	427,596	437,431	447,492	457,784	468,313	479,084	490,103
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	782,177	800,167	818,570	837,398	856,658	876,361	896,517	917,137	938,231	959,811
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,023,712	1,047,258	1,071,345	1,095,986	1,121,193	1,146,981	1,173,361	1,200,349	1,227,957	1,256,200
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,486,387	1,520,573	1,555,547	1,591,324	1,627,925	1,665,367	1,703,670	1,742,855	1,782,940	1,823,948
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	86,664	96,800	103,472	109,298	114,139	117,914	120,626	123,401	126,239	129,142
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	284,309	317,560	339,448	358,561	374,441	386,827	395,724	404,826	414,137	423,662
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	439,195	490,561	524,373	553,899	578,429	597,563	611,307	625,367	639,750	654,464
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	719,843	804,033	859,450	907,843	948,049	979,409	1,001,935	1,024,980	1,048,554	1,072,671
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	28,290	28,941	29,607	30,288	30,984	31,697	32,426	33,172	33,935	34,715
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	50,811	51,979	53,175	54,398	55,649	56,929	58,238	59,578	60,948	62,350
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	65,344	66,847	68,384	69,957	71,566	73,212	74,896	76,618	78,381	80,183
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	91,274	93,373	95,520	97,717	99,965	102,264	104,616	107,022	109,484	112,002
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,637	12,998	13,894	14,677	15,327	15,834	16,198	16,570	16,951	17,341
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	22,158	24,750	26,455	27,945	29,183	30,148	30,841	31,551	32,276	33,019
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	28,067	31,349	33,510	35,397	36,965	38,187	39,066	39,964	40,883	41,824
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	37,915	42,349	45,268	47,817	49,935	51,587	52,773	53,987	55,229	56,499
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	249,806	255,552	261,430	267,443	273,594	279,886	286,324	292,909	299,646	306,538
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	455,023	465,488	476,195	487,147	498,352	509,814	521,539	533,535	545,806	558,360
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	586,844	600,341	614,149	628,274	642,725	657,507	672,630	688,101	703,927	720,117
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	824,894	843,867	863,276	883,131	903,443	924,222	945,479	967,226	989,472	1,012,230
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	93,315	104,229	111,413	117,686	122,898	128,984	134,871	139,927	145,053	150,253
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	207,016	231,228	247,165	261,082	272,644	281,663	288,141	294,769	301,548	308,484
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	262,220	292,888	313,075	330,704	345,350	356,773	364,979	373,374	381,961	390,746
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	354,227	395,656	422,926	446,740	466,525	481,957	493,042	504,382	515,983	527,850
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	798,347	816,709	835,494	854,710	874,368	894,479	915,052	936,098	957,628	979,654
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,395,625	1,427,725	1,460,562	1,494,155	1,528,521	1,563,677	1,599,641	1,636,433	1,674,071	1,712,575
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,784,992	1,826,047	1,868,046	1,911,011	1,954,964	1,999,929	2,045,927	2,092,983	2,141,122	2,190,368
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,463,346	2,520,003	2,577,963	2,637,256	2,697,913	2,759,965	2,823,444	2,888,383	2,954,816	3,022,777
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	344,035	384,272	410,757	433,886	453,101	468,089	478,855	489,869	501,136	512,662
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	573,391	640,453	684,595	723,143	755,168	780,148	798,092	816,448	835,226	854,436
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	726,296	811,240	867,154	915,981	956,547	988,188	1,010,916	1,034,167	1,057,953	1,082,286
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,055,312	1,178,737	1,259,980	1,330,926	1,389,869	1,435,844	1,468,868	1,502,652	1,537,213	1,572,569
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	965,641	987,851	1,010,571	1,033,814	1,057,592	1,081,917	1,106,801	1,132,257	1,158,299	1,184,940

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	169,696	173,599	177,592	181,677	185,855	190,130	194,503	198,977	203,553	208,235
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	329,761	337,345	345,104	353,041	361,161	369,468	377,966	386,659	395,552	404,650
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	430,911	440,822	450,961	461,333	471,944	482,799	493,903	505,263	516,884	528,772
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	623,495	637,836	652,506	667,514	682,867	698,572	714,640	731,076	747,891	765,093
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	39,076	43,646	46,654	49,281	51,464	53,166	54,389	55,640	56,920	58,229
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	124,080	138,592	148,144	156,486	163,416	168,822	172,705	176,677	180,740	184,897
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	189,854	212,058	226,674	239,438	250,042	258,313	264,254	270,332	276,549	282,910
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	299,442	334,463	357,516	377,646	394,371	407,416	416,787	426,373	436,180	446,212
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	181,837	186,019	190,297	194,674	199,152	203,732	208,418	213,212	218,116	223,132
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	358,771	367,022	375,464	384,100	392,934	401,971	411,217	420,675	430,350	440,248
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	470,270	481,086	492,151	503,470	515,050	526,896	539,015	551,412	564,095	577,069
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	685,092	700,849	716,969	733,459	750,328	767,586	785,240	803,301	821,777	840,678
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	37,269	41,627	44,497	47,002	49,084	50,707	51,874	53,067	54,287	55,536
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	126,149	140,903	150,615	159,096	166,141	171,637	175,585	179,623	183,755	187,981
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	196,669	219,671	234,811	248,033	259,017	267,585	273,740	280,036	286,476	293,065
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	325,234	363,272	388,311	410,175	428,341	442,510	452,687	463,099	473,750	484,647
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	442,111	452,279	462,681	473,323	484,210	495,346	506,739	518,394	530,317	542,515
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	820,611	839,485	858,793	878,546	898,752	919,423	940,570	962,203	984,334	1,006,974
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,062,394	1,086,829	1,111,826	1,137,398	1,163,558	1,190,320	1,217,697	1,245,704	1,274,355	1,303,665
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,505,980	1,540,618	1,576,052	1,612,301	1,649,384	1,687,320	1,726,128	1,765,829	1,806,443	1,847,991
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	142,991	159,714	170,723	180,335	188,322	194,551	199,026	203,604	208,287	213,077
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	374,515	418,316	447,149	472,326	493,244	509,560	521,280	533,269	545,534	558,082
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	492,954	550,607	588,557	621,697	649,230	670,706	686,132	701,913	718,057	734,573
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	665,920	743,803	795,069	839,837	877,031	906,042	926,880	948,199	970,007	992,317
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	280,911	287,372	293,982	300,743	307,660	314,737	321,976	329,381	336,957	344,707
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	553,482	566,212	579,235	592,558	606,186	620,129	634,392	648,983	663,909	679,179
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	725,290	741,972	759,037	776,495	794,354	812,624	831,315	850,435	869,995	890,005
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,055,954	1,080,241	1,105,086	1,130,503	1,156,505	1,183,105	1,210,316	1,238,153	1,266,631	1,295,763
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	58,187	64,993	69,472	73,384	79,169	80,990	82,852	84,758	86,707	88,707
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	195,816	218,717	233,792	246,956	257,893	266,424	272,552	278,820	285,233	291,794
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	340,760	340,404	363,866	384,354	401,376	414,653	424,190	433,946	443,927	454,137
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	503,152	561,998	600,734	634,559	662,662	684,582	700,327	716,435	732,913	749,770
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,368,897	2,423,381	2,479,119	2,536,139	2,594,470	2,654,143	2,715,188	2,777,638	2,841,523	2,906,878
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,359,325	4,459,590	4,562,161	4,667,090	4,774,433	4,884,245	4,996,583	5,111,504	5,229,069	5,349,337
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,633,910	5,763,490	5,896,051	6,031,660	6,170,388	6,312,307	6,457,490	6,606,012	6,757,950	6,913,383
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,955,612	8,138,591	8,325,778	8,517,271	8,713,169	8,913,571	9,118,584	9,328,311	9,542,862	9,762,348
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	818,262	913,963	976,957	1,031,966	1,077,669	1,113,317	1,138,923	1,165,118	1,191,916	1,219,330
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,028,573	2,265,827	2,421,996	2,558,372	2,671,674	2,760,050	2,823,531	2,888,472	2,954,907	3,022,870
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,569,526	2,870,407	3,067,862	3,240,605	3,384,121	3,496,063	3,576,472	3,658,731	3,742,882	3,828,968
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,471,115	3,877,081	4,144,305	4,377,659	4,571,532	4,722,752	4,831,375	4,942,497	5,056,174	5,172,466
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	667,184	716,753	759,770	795,156	822,300	841,213	860,561	880,354	900,602	921,316
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,352,296	2,527,060	2,678,726	2,803,487	2,899,191	2,965,872	3,034,087	3,103,871	3,175,260	3,248,291
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,674,736	1,799,161	1,907,141	1,995,965	2,064,103	2,111,577	2,160,143	2,209,827	2,260,653	2,312,648
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	77,477	83,234	88,229	92,338	95,490	97,687	99,934	102,232	104,583	106,989
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,472,902	1,582,331	1,677,298	1,755,417	1,815,343	1,857,096	1,899,809	1,943,505	1,988,205	2,033,934
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	710,871	763,686	809,520	847,223	876,145	896,296	916,911	938,000	959,574	981,644
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	20,727	22,267	23,604	24,703	25,546	26,134	26,735	27,350	27,979	28,622
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	83,128	89,304	94,664	99,073	102,455	104,811	107,222	109,688	112,211	114,792
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	38,537	41,400	43,884	45,928	47,496	48,589	49,706	50,849	52,019	53,215
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	26,576	28,551	30,264	31,674	32,755	33,508	34,279	35,068	35,874	36,699
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	51,156	57,139	63,260	69,521	75,926	82,479	87,000	91,035	94,503	97,355
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	14,948	16,696	18,484	20,314	22,186	24,100	25,421	26,601	27,614	28,447
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	269,120	289,114	306,466	320,739	331,688	339,317	347,122	355,105	363,273	371,628
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	642,041	689,741	731,137	765,190	791,312	809,512	828,131	847,178	866,663	886,596
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	417,327	448,332	475,239	497,373	514,353	526,183	538,285	550,665	563,331	576,287
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	42,234	45,372	48,095	50,335	52,054	53,251	54,476	55,729	57,010	58,322
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	476,418	511,813	542,530	567,799	587,182	600,687	614,503	628,636	643,095	657,886
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	94,471	101,490	107,581	112,592	116,436	119,114	121,853	124,656	127,523	130,456
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	378,753	406,893	431,313	451,401	466,811	477,548	488,531	499,768	511,262	523,021
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	673,225	723,242	766,649	802,355	829,745	848,830	868,353	888,325	908,756	929,658
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	543,080	583,428	618,443	647,247	669,342	684,737	700,486	716,597	733,079	749,940
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	126,503	135,902	144,058	150,768	155,915	160,932	165,922	170,761	175,489	180,159
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	90,990	101,632	112,518	123,655	135,048	146,704	154,745	161,923	168,090	173,163
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	44,086	49,243	54,517	59,913	65,434	71,081	74,977	78,455	81,443	83,901
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	350,691	376,745	399,356	417,956	432,224	442,165	452,335	462,739	473,382	484,270
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	863,754	927,926	983,618	1,029,429	1,064,572	1,089,057	1,114,105	1,139,729	1,165,943	1,192,760
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	587,726	631,391	669,285	700,457	724,369	741,030	758,073	775,509	793,346	811,593
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	53,842	57,843	61,314	64,170	66,360	67,887	69,448	71,045	72,679	74,351
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	630,880									

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	55,857	60,007	63,608	66,571	68,843	70,427	72,047	73,704	75,399	77,133
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	105,343	113,170	119,962	125,549	129,835	132,821	135,876	139,001	142,198	145,469
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	81,620	87,684	92,947	97,276	100,596	102,910	105,277	107,698	110,175	112,709
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	21,172	22,745	24,110	25,233	26,095	26,695	27,309	27,937	28,580	29,237
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	19,385	21,652	23,972	26,344	28,772	31,255	32,968	34,497	35,811	36,892
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	9,053	10,112	11,195	12,303	13,437	14,596	15,396	16,110	16,724	17,229
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	10,022,184	10,766,782	11,412,969	11,944,525	12,352,282	12,636,384	12,927,021	13,224,343	13,528,503	13,839,658
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	17,180,886	18,457,341	19,565,090	20,476,328	21,175,340	21,662,373	22,160,608	22,670,302	23,191,719	23,725,128
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	11,167,576	11,997,272	12,717,309	13,309,614	13,763,971	14,080,543	14,404,395	14,735,696	15,074,617	15,421,333
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	1,788,414	1,921,285	2,036,594	2,131,448	2,204,210	2,254,907	2,306,770	2,359,826	2,414,102	2,469,626
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	14,661,023	15,750,265	16,695,544	17,473,134	18,069,624	18,485,225	18,910,385	19,345,324	19,790,267	20,245,443
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,164,325	3,399,419	3,603,441	3,771,270	3,900,012	3,989,712	4,081,476	4,175,350	4,271,383	4,369,625
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	170,819	183,510	194,523	203,583	210,533	215,375	220,329	225,396	230,580	235,884
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	198,900	213,677	226,501	237,051	245,143	250,781	256,549	262,450	268,486	274,661
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	225,838	242,617	257,178	269,156	278,344	284,746	291,295	297,995	304,849	311,860
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	33,150	35,613	37,750	39,508	40,857	41,797	42,758	43,742	44,748	45,777
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	142,711	159,402	176,476	193,944	211,813	230,093	242,706	253,963	263,635	271,593
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	81,246	90,748	100,468	110,413	120,586	130,993	138,173	144,582	150,088	154,619
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	2,440,422	2,621,733	2,779,081	2,908,516	3,007,806	3,076,985	3,147,756	3,220,154	3,294,218	3,369,985
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,183,581	4,494,400	4,764,139	4,986,027	5,156,238	5,274,832	5,396,153	5,520,264	5,647,231	5,777,117
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	2,719,327	2,921,360	3,096,690	3,240,918	3,351,555	3,428,641	3,507,499	3,588,172	3,670,700	3,755,126
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	423,275	454,722	482,013	504,463	521,684	533,683	545,957	558,514	571,360	584,501
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	3,569,989	3,835,221	4,065,399	4,254,743	4,399,990	4,501,190	4,604,717	4,710,626	4,818,970	4,929,806
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	759,877	816,333	865,326	905,629	936,544	958,085	980,121	1,002,664	1,025,725	1,049,317
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	141,382	151,886	161,001	168,500	174,252	178,260	182,360	186,554	190,845	195,234
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	170,255	182,904	193,882	202,912	209,839	214,665	219,602	224,653	229,820	235,106
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	187,862	201,819	213,932	223,896	231,539	236,864	242,312	247,885	253,587	259,419
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	28,376	30,484	32,314	33,819	34,973	35,777	36,600	37,442	38,303	39,184
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	142,487	159,151	176,199	193,639	211,480	229,732	242,324	253,564	263,221	271,167
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	80,065	89,430	99,009	108,809	118,834	129,090	136,166	142,482	147,908	152,373
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	929,663	998,732	1,058,673	1,107,980	1,145,804	1,172,158	1,199,117	1,226,697	1,254,911	1,283,774
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,112,955	3,344,232	3,544,942	3,710,047	3,836,699	3,924,943	4,015,216	4,107,566	4,202,040	4,298,687
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	2,201,908	2,365,499	2,507,468	2,624,253	2,713,838	2,776,257	2,840,111	2,905,433	2,972,258	3,040,620
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	112,381	120,730	127,976	133,936	138,509	141,694	144,953	148,287	151,698	155,187
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	1,992,830	2,140,888	2,269,377	2,375,072	2,456,151	2,512,643	2,570,434	2,629,554	2,690,033	2,751,904
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	847,703	910,683	965,339	1,010,299	1,044,789	1,068,819	1,093,402	1,118,550	1,144,276	1,170,595
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	25,390	27,277	28,914	30,260	31,293	32,013	32,749	33,503	34,273	35,062
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	91,361	98,148	104,039	108,884	112,601	115,191	117,841	120,551	123,324	126,160
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	45,599	48,987	51,927	54,346	56,201	57,493	58,816	60,169	61,552	62,968
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	27,879	29,950	31,747	33,226	34,360	35,150	35,959	36,786	37,632	38,498
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	37,297	41,659	46,122	50,687	55,357	60,135	63,431	66,373	68,901	70,981
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	11,658	13,022	14,417	15,844	17,304	18,797	19,827	20,747	21,537	22,187
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	753,312	809,280	857,850	897,804	928,453	949,807	971,653	994,001	1,016,863	1,040,251
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,522,449	2,709,855	2,872,491	3,006,277	3,108,904	3,180,408	3,253,558	3,328,390	3,404,943	3,483,256
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	1,784,221	1,916,780	2,031,819	2,126,450	2,199,042	2,249,620	2,301,361	2,354,293	2,408,442	2,463,836
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	91,063	97,828	103,700	108,530	112,234	114,816	117,457	120,158	122,922	125,749
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	1,614,804	1,734,776	1,838,892	1,924,538	1,990,237	2,036,012	2,082,840	2,129,746	2,179,753	2,229,887
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	686,899	737,933	782,221	818,653	846,600	866,071	885,991	906,369	927,215	948,541
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	45,877	49,286	52,244	54,677	56,543	57,844	59,174	60,535	61,928	63,352
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	165,078	177,342	187,986	196,741	203,457	208,137	212,924	217,821	222,831	227,956
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	82,392	88,514	93,826	98,196	101,548	103,884	106,273	108,717	111,218	113,776
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	50,373	54,116	57,364	60,035	62,085	63,513	64,973	66,468	67,997	69,560
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	18,522	20,688	22,904	25,171	27,490	29,863	31,499	32,961	34,216	35,249
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	5,790	6,467	7,159	7,868	8,593	9,334	9,846	10,303	10,695	11,018
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,206,845	1,296,508	1,374,320	1,438,328	1,487,429	1,521,640	1,556,638	1,592,441	1,629,067	1,666,535
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,312,351	3,558,442	3,772,008	3,947,688	4,082,453	4,176,349	4,272,405	4,370,670	4,471,196	4,574,033
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	2,284,853	2,454,606	2,601,923	2,723,107	2,816,067	2,880,837	2,947,096	3,014,879	3,084,221	3,155,158
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	170,313	182,967	193,948	202,981	209,910	214,738	219,677	224,729	229,898	235,186
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	2,309,447	2,481,028	2,629,931	2,752,419	2,846,380	2,911,847	2,978,819	3,047,332	3,117,421	3,189,122
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	603,702	648,554	687,478	719,497	744,059	761,172	778,679	796,589	814,910	833,653

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	813,109	873,519	925,945	969,071	1,002,152	1,025,202	1,048,781	1,072,903	1,097,580	1,122,825
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	312,450	335,664	355,809	372,381	385,093	393,950	403,011	412,280	421,763	431,463
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	184,618	206,210	228,298	250,895	274,011	297,660	313,976	328,539	341,051	351,346
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	74,840	83,592	92,547	101,707	111,078	120,664	127,278	133,182	138,254	142,427
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	219,829	236,161	250,335	261,994	270,938	277,169	283,544	290,066	296,737	303,562
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	796,374	855,541	906,888	949,126	981,527	1,004,102	1,027,196	1,050,821	1,074,990	1,099,715
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	568,931	611,200	647,882	678,057	701,205	717,332	733,831	750,709	767,975	785,639
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	24,994	26,851	28,463	29,788	30,805	31,514	32,238	32,980	33,739	34,514
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	492,878	529,496	561,275	587,416	607,469	621,441	635,734	650,356	665,314	680,616
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	254,223	273,111	289,502	302,986	313,329	320,535	327,908	335,450	343,165	351,058
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	109,755	117,910	124,986	130,807	135,273	138,384	141,567	144,823	148,154	151,562
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	466,041	500,666	530,714	555,432	574,393	587,604	601,119	614,945	629,088	643,558
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	207,813	223,252	236,651	247,673	256,128	262,019	268,045	274,210	280,517	286,969
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	152,692	164,036	173,881	181,980	188,192	192,521	196,949	201,478	206,112	210,853
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	257,908	288,072	318,930	350,497	382,790	415,826	438,620	458,964	476,444	490,826
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	72,734	81,241	89,943	98,845	107,953	117,269	123,697	129,435	134,365	138,420
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	6,522,166	7,006,730	7,427,251	7,773,173	8,038,530	8,223,417	8,412,555	8,606,044	8,803,983	9,006,474
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	16,697,866	17,938,435	19,015,041	19,900,661	20,580,021	21,053,362	21,537,589	22,032,954	22,539,712	23,058,125
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	11,417,413	12,265,670	13,001,815	13,607,371	14,071,894	14,395,547	14,726,645	15,065,357	15,411,861	15,766,333
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	971,651	1,043,840	1,106,488	1,158,022	1,197,554	1,225,098	1,253,275	1,282,101	1,311,589	1,341,756
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	11,995,102	12,886,278	13,659,670	14,295,866	14,783,892	15,123,921	15,471,771	15,827,622	16,191,657	16,564,066
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	2,644,449	2,840,919	3,011,422	3,151,678	3,259,268	3,334,231	3,410,919	3,489,370	3,569,625	3,651,727
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	1,262,920	1,356,749	1,438,176	1,505,159	1,556,541	1,592,342	1,628,966	1,666,432	1,704,760	1,743,969
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	2,583,749	2,775,709	2,942,298	3,079,335	3,184,456	3,257,698	3,332,625	3,409,276	3,487,689	3,567,906
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	1,894,000	2,034,714	2,156,831	2,257,285	2,334,343	2,388,033	2,442,958	2,499,146	2,556,626	2,615,429
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	569,588	611,905	648,630	678,840	702,013	718,160	734,677	751,575	768,861	786,545
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	959,909	1,072,175	1,187,024	1,304,514	1,424,707	1,547,664	1,632,499	1,708,219	1,773,278	1,826,805
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	426,174	476,018	527,008	579,170	632,533	687,122	724,787	758,405	787,289	811,054
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	124,945	129,811	132,796	135,851	138,975	142,172	145,441	148,787	152,209	155,710
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	590,435	659,489	730,132	802,400	876,330	951,960	1,004,141	1,050,716	1,090,734	1,123,658
580	C&I Prescriptive	180W LPS	Lighting - exterior	649,478	725,438	803,145	882,640	963,963	1,047,156	1,104,556	1,155,788	1,199,807	1,236,024
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	78,988	88,226	97,676	107,344	127,352	134,333	140,563	145,917	150,322	154,736
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	684,904	765,007	846,953	930,784	1,016,542	1,104,274	1,164,804	1,218,831	1,265,251	1,303,443
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	309,339	345,518	382,529	420,391	458,749	498,125	536,087	574,489	611,917	649,369
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	252,959	282,544	312,809	343,771	375,444	407,846	439,202	470,506	501,759	532,971
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	252,959	282,544	312,809	343,771	375,444	407,846	439,202	470,506	501,759	532,971
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	216,131	241,408	267,267	293,721	320,784	348,468	376,569	404,088	431,547	458,956
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	222,265	248,261	274,854	302,058	329,889	358,359	387,003	415,536	443,970	472,399
588	C&I Prescriptive	Premium Efficiency Motor	Motors	9,326	10,417	11,533	12,675	13,842	14,639	15,347	15,950	16,441	16,819
589	C&I Prescriptive	Premium Efficiency Motor	Motors	53,774	60,063	66,497	73,079	79,812	84,406	88,486	91,965	94,794	96,974
590	C&I Prescriptive	Premium Efficiency Motor	Motors	127,493	142,404	157,658	173,262	189,226	200,118	209,791	218,039	224,746	229,915
591	C&I Prescriptive	Premium Efficiency Motor	Motors	189,831	212,033	234,745	257,980	281,749	297,967	312,369	324,650	334,637	342,333
592	C&I Prescriptive	Premium Efficiency Motor	Motors	319,996	357,422	395,708	434,875	474,942	502,280	526,558	547,260	564,094	577,068
593	C&I Prescriptive	Premium Efficiency Motor	Motors	427,069	477,017	528,114	580,387	633,861	670,346	702,748	730,376	752,843	770,159
594	C&I Prescriptive	Premium Efficiency Motor	Motors	430,244	480,563	532,040	584,701	638,572	675,329	707,971	735,805	758,439	775,883
595	C&I Prescriptive	Premium Efficiency Motor	Motors	595,504	665,152	736,401	809,290	883,854	934,729	979,910	1,018,434	1,049,763	1,073,908
596	C&I Prescriptive	Premium Efficiency Motor	Motors	415,634	464,244	513,973	564,846	616,888	652,397	683,930	710,819	732,685	749,536
597	C&I Prescriptive	Premium Efficiency Motor	Motors	137,031	153,058	166,225	186,453	203,383	215,090	225,487	234,352	241,561	247,116
598	C&I Prescriptive	Premium Efficiency Motor	Motors	4,349	4,857	5,377	5,910	6,454	6,826	7,156	7,437	7,666	7,842
599	C&I Prescriptive	Premium Efficiency Motor	Motors	38,797	43,335	47,977	52,725	57,583	60,898	63,841	66,351	68,392	69,965
600	C&I Prescriptive	Premium Efficiency Motor	Motors	106,111	118,521	131,217	144,205	157,491	166,556	174,607	181,472	187,054	191,356
601	C&I Prescriptive	Premium Efficiency Motor	Motors	115,900	129,456	143,323	157,509	171,021	181,922	190,716	198,214	204,311	209,010
602	C&I Prescriptive	Premium Efficiency Motor	Motors	222,522	248,547	275,171	302,407	330,270	349,280	366,163	380,559	392,265	401,287
603	C&I Prescriptive	Premium Efficiency Motor	Motors	210,671	235,310	260,516	286,301	312,680	330,678	346,661	360,290	371,373	379,915
604	C&I Prescriptive	Premium Efficiency Motor	Motors	130,214	145,444	161,023	176,961	193,266	204,390	214,269	222,693	229,544	234,823
605	C&I Prescriptive	Premium Efficiency Motor	Motors	107,916	120,538	133,450	146,658	160,171	169,390	177,578	184,559	190,237	194,612
606	C&I Prescriptive	Premium Efficiency Motor	Motors	95,071	106,190	117,564	129,201	141,105	149,227	156,440	162,590	167,592	171,446
607	C&I Prescriptive	Premium Efficiency Motor	Motors	48,894	54,612	60,462	66,447	72,569	76,746	80,455	83,618	86,191	88,173
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use =	: Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	246,526	275,358	294,337	310,910	324,679	335,419	343,134	351,026	359,100	367,359
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	102,208	114,161	122,030	128,901	134,610	139,062	142,261	145,533	148,880	152,304
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

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Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
617	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	208,081	230,533	253,501	276,998	301,035	325,625	336,352	346,585	356,268	365,341
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	438,880	486,236	534,680	584,239	634,938	686,803	709,428	731,011	751,433	770,570
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	866,891	960,429	1,056,119	1,154,009	1,254,152	1,356,597	1,401,286	1,443,917	1,484,256	1,522,057
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	145,184	160,850	176,875	193,270	210,041	227,199	234,683	241,823	248,578	254,909
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	322,350	357,132	392,714	429,114	466,352	504,446	521,064	536,916	551,915	565,972
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	614,223	680,499	748,298	817,657	888,611	961,198	992,862	1,023,067	1,051,649	1,078,432
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	378,072	418,867	460,599	503,292	546,966	591,645	611,135	629,728	647,321	663,806
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	873,085	967,292	1,063,665	1,162,255	1,263,113	1,366,290	1,411,299	1,454,235	1,494,862	1,532,933
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	74,255	82,267	90,464	98,849	107,426	116,202	120,030	123,681	127,136	130,374
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	5,131	5,685	6,251	6,831	7,423	8,030	8,294	8,547	8,785	9,009
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	1,966,105	2,196,052	2,431,288	2,671,934	2,918,115	3,086,083	3,235,249	3,362,442	3,465,876	3,545,591
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	707,132	783,432	861,487	941,338	1,023,025	1,057,556	1,090,365	1,121,258	1,150,035	1,176,486
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	3,005,644	3,357,171	3,716,784	4,084,667	4,461,011	4,717,789	4,945,824	5,140,268	5,298,390	5,420,253
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	287,878	321,547	355,991	391,226	427,272	451,866	473,707	492,331	507,476	519,148
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	825,283	878,546	921,896	954,542	976,497	998,956	1,021,932	1,045,437	1,069,482	1,094,080
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	1,312,866	1,397,597	1,466,558	1,518,492	1,553,417	1,589,146	1,625,696	1,663,087	1,701,338	1,740,469
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	136,986	142,320	145,594	148,942	152,368	155,872	159,457	163,125	166,877	170,715
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	263,059	273,303	279,588	286,019	292,597	299,327	306,212	313,255	320,459	327,830
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	773,320	863,764	956,288	1,050,941	1,147,770	1,246,827	1,315,171	1,376,173	1,428,585	1,471,708
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	444,846	455,078	465,545	476,252	487,206	498,412	509,875	521,602	533,599	545,872
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	1,038,151	1,062,029	1,086,455	1,111,444	1,137,007	1,163,158	1,189,911	1,217,279	1,245,276	1,273,917
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	11,418,078	12,154,989	12,754,745	13,206,420	13,510,167	13,820,901	14,138,782	14,463,974	14,796,645	15,136,968
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	700,941	717,063	733,555	750,427	767,687	785,343	803,406	821,885	840,788	860,126
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	7,686,201	8,182,260	8,585,993	8,890,042	9,094,513	9,303,687	9,517,672	9,736,578	9,960,520	10,189,612
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,229,341	1,373,119	1,520,205	1,670,673	1,824,602	1,929,627	2,022,895	2,102,425	2,167,099	2,216,942
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	508,464	520,159	532,123	544,361	556,882	569,690	582,793	596,197	609,910	623,937
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	993,034	1,015,874	1,039,239	1,063,142	1,087,594	1,112,609	1,138,199	1,164,377	1,191,158	1,218,555
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,319,470	1,349,817	1,380,863	1,412,623	1,445,113	1,478,351	1,512,353	1,547,137	1,582,721	1,619,124
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,980,722	2,026,279	2,072,883	2,120,560	2,169,333	2,219,227	2,270,270	2,322,486	2,375,903	2,430,549
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	57,761	64,516	68,963	72,846	76,072	78,589	80,396	82,245	84,137	86,072
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	259,053	289,350	309,293	326,709	341,178	352,464	360,570	368,863	377,347	386,026
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	438,592	489,887	523,652	553,138	577,634	596,742	610,467	624,508	638,871	653,565
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	785,981	877,905	938,414	991,254	1,035,153	1,069,395	1,093,991	1,119,153	1,144,893	1,171,226
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	182,167	195,701	207,446	217,108	224,520	229,684	234,966	240,371	245,899	251,555
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	896,026	962,596	1,020,368	1,067,891	1,104,346	1,129,746	1,155,730	1,182,312	1,209,505	1,237,324
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	665,324	714,754	757,652	792,939	820,008	838,868	858,162	877,900	898,091	918,748
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	16,324	17,537	18,589	19,455	20,119	20,582	21,055	21,540	22,035	22,542
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	486,324	522,455	553,811	579,605	599,391	613,177	627,280	641,708	656,467	671,566
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	530,404	569,811	604,009	632,140	653,720	668,756	684,137	699,872	715,969	732,437
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	57,957	62,263	66,000	69,074	71,432	73,075	74,755	76,475	78,234	80,033
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	468,253	503,042	533,233	558,068	577,119	590,393	603,972	617,863	632,074	646,612
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	134,754	144,766	153,454	160,602	166,084	169,904	173,812	177,809	181,899	186,083
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	202,234	217,259	230,298	241,024	249,252	254,985	260,850	266,849	272,987	279,265
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	204,405	228,312	252,768	277,787	303,381	329,564	347,629	363,753	377,606	389,005
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	38,649	43,169	47,793	52,524	57,363	62,314	65,730	68,779	71,398	73,553
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	7,506	7,798	7,978	8,161	8,349	8,541	8,738	8,938	9,144	9,354
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	46,983	52,478	58,099	63,850	69,732	75,751	79,903	83,609	86,793	89,413
690	C&I Prescriptive	180W LPS	Lighting - exterior	61,004	68,138	75,437	82,904	90,542	98,356	103,748	108,560	112,694	116,096
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	3,583	4,002	4,431	4,870	5,318	5,777	6,094	6,377	6,620	6,819
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	62,101	69,364	76,794	84,395	92,171	100,125	105,614	110,512	114,721	118,184
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	19,215	21,463	23,762	26,114	28,520	30,981	32,679	34,195	35,497	36,569

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	20,840	23,277	25,771	28,321	30,931	33,600	35,442	37,086	38,498	39,661
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	25,041	27,970	30,966	34,031	37,166	40,374	42,587	44,562	46,259	47,656
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	14,491	16,186	17,920	19,694	21,508	23,365	24,645	25,788	26,771	27,579
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	15,081	16,845	18,649	20,495	22,384	24,316	25,648	26,838	27,860	28,701
698	C&I Prescriptive	Premium Efficiency Motor	Motors	3,750	4,189	4,637	5,096	5,566	5,886	6,171	6,414	6,611	6,763
699	C&I Prescriptive	Premium Efficiency Motor	Motors	16,780	18,742	20,750	22,804	24,905	26,338	27,611	28,697	29,580	30,260
700	C&I Prescriptive	Premium Efficiency Motor	Motors	49,819	55,646	61,607	67,704	73,942	78,198	81,978	85,201	87,822	89,842
701	C&I Prescriptive	Premium Efficiency Motor	Motors	68,961	77,026	85,277	93,717	102,352	108,244	113,476	117,937	121,565	124,361
702	C&I Prescriptive	Premium Efficiency Motor	Motors	70,114	78,314	86,702	95,284	104,063	110,053	115,373	119,909	123,597	126,440
703	C&I Prescriptive	Premium Efficiency Motor	Motors	131,901	147,327	163,109	179,253	195,769	207,037	217,044	225,577	232,517	237,864
704	C&I Prescriptive	Premium Efficiency Motor	Motors	143,378	160,147	177,301	194,850	212,803	225,052	235,930	245,206	252,748	258,562
705	C&I Prescriptive	Premium Efficiency Motor	Motors	255,508	285,391	315,961	347,235	379,228	401,056	420,441	436,971	450,413	460,772
706	C&I Prescriptive	Premium Efficiency Motor	Motors	168,464	188,166	208,322	228,942	250,036	264,428	277,209	288,107	296,970	303,800
707	C&I Prescriptive	Premium Efficiency Motor	Motors	135,635	151,498	167,726	184,327	201,311	212,898	223,189	231,963	239,099	244,598
708	C&I Prescriptive	Premium Efficiency Motor	Motors	2,102	2,348	2,600	2,857	3,120	3,300	3,460	3,596	3,706	3,791
709	C&I Prescriptive	Premium Efficiency Motor	Motors	14,594	16,300	18,046	19,833	21,660	22,907	24,014	24,958	25,726	26,317
710	C&I Prescriptive	Premium Efficiency Motor	Motors	43,942	49,081	54,339	59,717	65,219	68,973	72,307	75,150	77,462	79,243
711	C&I Prescriptive	Premium Efficiency Motor	Motors	49,744	55,562	61,513	67,602	73,831	78,080	81,854	85,072	87,689	89,706
712	C&I Prescriptive	Premium Efficiency Motor	Motors	48,465	54,133	59,932	65,864	71,932	76,073	79,750	82,885	85,435	87,400
713	C&I Prescriptive	Premium Efficiency Motor	Motors	75,684	84,536	93,591	102,854	112,331	118,797	124,539	129,435	133,417	136,485
714	C&I Prescriptive	Premium Efficiency Motor	Motors	52,797	58,972	65,289	71,751	78,362	82,872	86,878	90,294	93,071	95,212
715	C&I Prescriptive	Premium Efficiency Motor	Motors	72,564	81,051	89,732	98,614	107,700	113,899	119,405	124,099	127,916	130,859
716	C&I Prescriptive	Premium Efficiency Motor	Motors	51,572	57,604	63,774	70,087	76,544	80,950	84,863	88,199	90,912	93,003
717	C&I Prescriptive	Premium Efficiency Motor	Motors	70,581	78,836	87,281	95,919	104,757	110,787	116,142	120,708	124,421	127,283
718	C&I Prescriptive	Premium Efficiency Motor	Motors	6,463	7,218	7,992	8,783	9,592	10,144	10,634	11,052	11,392	11,654
719	C&I Prescriptive	Premium Efficiency Motor	Motors	27,043	30,205	33,441	36,751	40,137	42,447	44,499	46,248	47,671	48,768
720	C&I Prescriptive	Premium Efficiency Motor	Motors	102,807	114,831	127,131	139,714	152,587	161,370	169,170	175,821	181,229	185,397
721	C&I Prescriptive	Premium Efficiency Motor	Motors	129,619	144,779	160,287	176,152	192,382	203,456	213,290	221,675	228,494	233,749
722	C&I Prescriptive	Premium Efficiency Motor	Motors	148,268	165,609	183,348	201,496	220,061	232,728	243,977	253,568	261,369	267,380
723	C&I Prescriptive	Premium Efficiency Motor	Motors	197,212	220,278	243,873	268,011	292,705	309,553	324,515	337,274	347,649	355,645
724	C&I Prescriptive	Premium Efficiency Motor	Motors	212,444	237,291	262,709	288,711	315,312	333,462	349,580	363,323	374,500	383,113
725	C&I Prescriptive	Premium Efficiency Motor	Motors	429,567	479,807	531,203	583,781	637,568	674,267	706,857	734,647	757,246	774,663
726	C&I Prescriptive	Premium Efficiency Motor	Motors	357,669	399,500	442,294	486,072	530,856	561,413	588,549	611,687	630,504	645,005
727	C&I Prescriptive	Premium Efficiency Motor	Motors	300,101	335,200	371,105	407,837	445,413	471,052	493,820	513,234	529,022	541,190
728	C&I Prescriptive	Premium Efficiency Motor	Motors	3,767	4,207	4,658	5,119	5,590	5,912	6,198	6,442	6,640	6,793
729	C&I Prescriptive	Premium Efficiency Motor	Motors	24,797	27,698	30,664	33,700	36,805	38,923	40,804	42,409	43,713	44,719
730	C&I Prescriptive	Premium Efficiency Motor	Motors	99,383	111,007	122,897	135,062	147,506	155,996	163,536	169,966	175,194	179,224
731	C&I Prescriptive	Premium Efficiency Motor	Motors	114,885	128,321	142,067	156,128	170,513	180,328	189,044	196,477	202,521	207,179
732	C&I Prescriptive	Premium Efficiency Motor	Motors	113,826	127,138	140,757	154,689	168,942	178,666	187,302	194,665	200,654	205,269
733	C&I Prescriptive	Premium Efficiency Motor	Motors	111,729	124,796	138,164	151,839	165,829	175,374	183,851	191,079	196,957	201,487
734	C&I Prescriptive	Premium Efficiency Motor	Motors	77,480	86,542	95,812	105,296	114,997	121,616	127,495	132,507	136,583	139,725
735	C&I Prescriptive	Premium Efficiency Motor	Motors	130,511	145,775	161,390	177,364	193,706	204,856	214,757	223,201	230,067	235,358
736	C&I Prescriptive	Premium Efficiency Motor	Motors	128,075	143,054	158,377	174,053	190,090	201,031	210,748	219,034	225,772	230,964
737	C&I Prescriptive	Premium Efficiency Motor	Motors	170,355	190,279	210,662	231,513	252,843	267,397	280,322	291,343	300,305	307,212
738	C&I Prescriptive	Premium Efficiency Motor	Motors	30,041	33,555	37,149	40,826	44,587	47,154	49,433	51,376	52,957	54,175
739	C&I Prescriptive	Premium Efficiency Motor	Motors	117,406	131,137	145,184	159,554	174,255	184,285	193,193	200,788	206,964	211,725
740	C&I Prescriptive	Premium Efficiency Motor	Motors	331,275	370,019	409,655	450,202	491,682	519,983	545,116	566,548	583,975	597,407
741	C&I Prescriptive	Premium Efficiency Motor	Motors	442,511	494,265	547,210	601,372	656,780	694,585	728,158	756,785	780,065	798,006
742	C&I Prescriptive	Premium Efficiency Motor	Motors	466,748	521,337	577,182	634,310	692,753	732,628	768,040	798,235	822,790	841,714
743	C&I Prescriptive	Premium Efficiency Motor	Motors	795,380	888,404	983,568	1,080,920	1,180,512	1,248,463	1,308,807	1,360,263	1,402,106	1,434,355
744	C&I Prescriptive	Premium Efficiency Motor	Motors	854,051	953,937	1,056,121	1,160,654	1,267,592	1,340,556	1,405,351	1,460,602	1,505,533	1,540,160
745	C&I Prescriptive	Premium Efficiency Motor	Motors	2,205,351	2,463,279	2,727,139	2,997,069	3,273,206	3,461,614	3,628,931	3,771,601	3,887,622	3,977,037
746	C&I Prescriptive	Premium Efficiency Motor	Motors	2,310,551	2,580,783	2,857,231	3,140,036	3,429,346	3,626,741	3,802,040	3,951,516	4,073,071	4,166,751
747	C&I Prescriptive	Premium Efficiency Motor	Motors	2,042,279	2,281,135	2,525,485	2,775,454	3,031,173	3,205,649	3,360,594	3,492,715	3,600,156	3,682,960
748	C&I Prescriptive	Premium Efficiency Motor	Motors	18,217	20,347	22,527	24,757	27,038	28,594	29,976	31,155	32,113	32,851
749	C&I Prescriptive	Premium Efficiency Motor	Motors	113,629	126,918	140,514	154,421	168,649	178,357	186,978	194,329	200,306	204,913
750	C&I Prescriptive	Premium Efficiency Motor	Motors	294,542	328,990	364,230	400,282	437,162	462,325	484,672	503,726	519,222	531,164
751	C&I Prescriptive	Premium Efficiency Motor	Motors	335,081	374,271	414,362	455,375	497,331	525,958	551,380	573,057	590,685	604,271
752	C&I Prescriptive	Premium Efficiency Motor	Motors	327,760	366,093	405,308	445,425	486,465	514,466	539,332	560,536	577,779	591,068
753	C&I Prescriptive	Premium Efficiency Motor	Motors	448,572	501,035	554,704	609,608	665,775	704,098	738,130	767,150	790,748	808,935
754	C&I Prescriptive	Premium Efficiency Motor	Motors	310,411	346,715	383,855	421,848	460,715	487,234	510,785	530,866	547,197	559,782
755	C&I Prescriptive	Premium Efficiency Motor	Motors	772,963	863,365	955,847	1,050,456	1,147,240	1,213,276	1,271,920	1,321,925	1,362,589	1,393,929
756	C&I Prescriptive	Premium Efficiency Motor	Motors	1,008,296	1,126,221	1,246,860	1,370,272	1,496,524	1,582,664	1,659,162	1,724,392	1,777,437	1,818,318
757	C&I Prescriptive	Premium Efficiency Motor	Motors	1,293,788	1,445,103	1,599,899	1,758,256	1,920,254	2,030,785	2,128,943	2,212,642	2,280,706	2,333,163
758	C&I Prescriptive	Premium Efficiency Motor	Motors	9,992	11,161	12,356	13,579	14,831	15,684	16,442	17,089	17,614	18,020
759	C&I Prescriptive	Premium Efficiency Motor	Motors	69,960	78,142	86,513	95,076	103,836	109,813	115,120	119,646	123,327	126,163
760	C&I Prescriptive	Premium Efficiency Motor	Motors	283,418	316,565	350,474	385,164	420,652	444,864	466,367	484,702	499,612	511,103
761	C&I Prescriptive	Premium Efficiency Motor	Motors	420,064	469,193	519,451	570,866	623,463	659,350	691,220	718,395	740,494	757,525
762	C&I Prescriptive	Premium Efficiency Motor	Motors	395,976	442,288	489,665	538,131	587,712	621,541	651,584	677,201	698,032	714,087
763	C&I Prescriptive	Premium Efficiency Motor	Motors	706,593	789,233	873,774	960,259	1,048,733	1,109,099	1,162,707	1,208,419	1,245,592	1,274,240
764	C&I Prescriptive	Premium Efficiency Motor	Motors	691,148	771,982	854,675	939,270	1,025,810	1,084,856	1,137,293	1,182,005	1,218,365	1,246,388
765	C&I Prescriptive	Premium Efficiency Motor	Motors	1,760,418	1,966,309	2,176,935	2,392,406	2,612,832	2,763,228	2,896,788	3,010,675	3,103,288	3,174,664
766	C&I Prescriptive	Premium Efficiency Motor	Motors	966,795	1,079,867	1,195,540	1,313,873	1,434,928	1,517,523	1,590,872	1,653,417	1,704,279	1,743,477
767	C&I Prescriptive	Premium Efficiency Motor	Motors	730,965	816,456	903,912	993,381	1,084,907	1,147,354	1,202,812	1,250,100	1,288,555	1,318,192
768	C&I Prescriptive	Premium Efficiency Motor	Motors	3,664	4,093	4,531	4,980	5,439	5,752	6,030	6,267	6,460	6,608
769	C&I Prescriptive	Premium Efficiency Motor	Motors	45,343	50,647	56,072	61,622	67,299	71,173	74,613	77,547	79,932	81,770
770	C&I Prescriptive	Premium Efficiency Motor	Motors	237,398	265,163	293,567	322,624	352,349	372,630	390,641	405,999	418,488	428,114

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
771	C&I Prescriptive	Premium Efficiency Motor	Motors	260,323	290,769	321,915	353,778	386,374	408,614	428,364	445,205	458,901	469,455
772	C&I Prescriptive	Premium Efficiency Motor	Motors	247,234	276,150	305,730	335,991	366,948	388,070	406,827	422,822	435,828	445,852
773	C&I Prescriptive	Premium Efficiency Motor	Motors	319,813	357,217	395,481	434,625	474,670	501,992	526,256	546,945	563,770	576,737
774	C&I Prescriptive	Premium Efficiency Motor	Motors	180,463	201,570	223,161	245,250	267,846	283,263	296,955	308,630	318,123	325,440
775	C&I Prescriptive	Premium Efficiency Motor	Motors	408,966	456,797	505,728	555,784	606,992	641,931	672,958	699,416	720,931	737,512
776	C&I Prescriptive	Premium Efficiency Motor	Motors	233,101	260,364	288,253	316,784	345,971	365,886	383,571	398,651	410,914	420,365
777	C&I Prescriptive	Premium Efficiency Motor	Motors	333,174	372,140	412,003	452,783	494,501	522,964	548,242	569,796	587,323	600,832
778	C&I Custum	Compressed Air-O&M	All systems	33,217,401	33,763,156	34,394,212	35,112,530	35,920,118	36,746,281	37,591,446	38,456,049	39,340,538	40,245,370
779	C&I Custum	Compressed Air - Controls	All systems	7,908,905	8,038,847	8,189,098	8,360,126	8,552,409	8,749,115	8,950,344	9,156,202	9,366,795	9,582,231
780	C&I Custum	Compressed Air - System Optimization	All systems	26,363,017	26,796,156	27,296,993	27,867,087	28,508,030	29,163,715	29,834,481	30,520,674	31,222,649	31,940,770
781	C&I Custum	Compressed Air- Sizing	All systems	9,490,686	9,646,616	9,826,918	10,032,151	10,262,891	10,498,937	10,740,413	10,987,443	11,240,154	11,498,677
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	117,966	129,991	142,294	154,879	167,754	170,669	173,886	177,414	181,259	185,428
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	6,847,531	6,960,035	7,090,122	7,238,199	7,404,677	7,574,985	7,749,209	7,927,441	8,109,772	8,296,297
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	1,608,062	1,634,482	1,665,032	1,699,806	1,738,901	1,778,896	1,819,811	1,861,666	1,904,485	1,948,288
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	996,691	1,019,615	1,043,066	1,067,056	1,091,599	1,116,706	1,142,390	1,168,665	1,195,544	1,223,042
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	10,346,628	10,584,601	10,828,046	11,077,092	11,331,865	11,592,498	11,859,125	12,131,885	12,410,918	12,696,369
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	2,419,710	2,475,364	2,532,297	2,590,540	2,650,122	2,711,075	2,773,430	2,837,219	2,902,475	2,969,232
791	C&I Custum	Power recovery	All systems	323,541	328,857	335,004	342,000	349,866	357,913	366,145	374,566	383,181	391,995
792	C&I Custum	Refinery Controls	All systems	3,241,593	3,294,852	3,356,435	3,426,534	3,505,344	3,585,967	3,668,444	3,752,818	3,839,133	3,927,433
793	C&I Custum	Energy Star Transformers	All systems	71,953	79,289	86,792	94,469	102,322	110,356	118,574	126,981	135,582	144,381
794	C&I Custum	Fans - O&M	All systems	2,636,302	2,679,616	2,729,699	2,786,709	2,850,803	2,916,372	2,983,448	3,052,067	3,122,265	3,194,077
795	C&I Custum	Fans - Controls	All systems	9,366,364	9,520,252	9,698,191	9,900,737	10,128,454	10,361,408	10,599,721	10,843,514	11,092,915	11,348,052
796	C&I Custum	Fans - System Optimization	All systems	4,440,795	4,513,756	4,598,121	4,694,152	4,802,118	4,912,567	5,025,556	5,141,143	5,259,390	5,380,356
797	C&I Custum	Fans - Improve components	All systems	2,636,302	2,679,616	2,729,699	2,786,709	2,850,803	2,916,372	2,983,448	3,052,067	3,122,265	3,194,077
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	117,966	129,991	142,294	154,879	167,754	170,669	173,886	177,414	181,259	185,428
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	6,847,531	6,960,035	7,090,122	7,238,199	7,404,677	7,574,985	7,749,209	7,927,441	8,109,772	8,296,297
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	1,608,062	1,634,482	1,665,032	1,699,806	1,738,901	1,778,896	1,819,811	1,861,666	1,904,485	1,948,288
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	996,691	1,019,615	1,043,066	1,067,056	1,091,599	1,116,706	1,142,390	1,168,665	1,195,544	1,223,042
805	C&I Custum	Fans - ASD (100+ hp)	All systems	10,346,628	10,584,601	10,828,046	11,077,092	11,331,865	11,592,498	11,859,125	12,131,885	12,410,918	12,696,369
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	2,419,710	2,475,364	2,532,297	2,590,540	2,650,122	2,711,075	2,773,430	2,837,219	2,902,475	2,969,232
807	C&I Custum	Optimize drying process	All systems	16,315,836	16,583,901	16,893,866	17,246,692	17,643,366	18,049,163	18,464,294	18,888,972	19,323,419	19,767,857
808	C&I Custum	Pumps - O&M	All systems	10,545,207	10,718,462	10,918,797	11,146,835	11,403,212	11,665,486	11,933,792	12,208,269	12,489,060	12,776,308
809	C&I Custum	Pumps - Controls	All systems	27,681,168	28,135,963	28,661,843	29,260,442	29,933,432	30,621,901	31,326,205	32,046,707	32,783,782	33,537,809
810	C&I Custum	Pumps - System Optimization	All systems	20,364,048	20,698,626	21,085,497	21,525,864	22,020,959	22,527,441	23,045,572	23,575,620	24,117,860	24,672,571
811	C&I Custum	Pumps - Sizing	All systems	10,545,207	10,718,462	10,918,797	11,146,835	11,403,212	11,665,486	11,933,792	12,208,269	12,489,060	12,776,308
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	117,966	129,991	142,294	154,879	167,754	170,669	173,886	177,414	181,259	185,428
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	6,847,531	6,960,035	7,090,122	7,238,199	7,404,677	7,574,985	7,749,209	7,927,441	8,109,772	8,296,297
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	1,608,062	1,634,482	1,665,032	1,699,806	1,738,901	1,778,896	1,819,811	1,861,666	1,904,485	1,948,288
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	996,691	1,019,615	1,043,066	1,067,056	1,091,599	1,116,706	1,142,390	1,168,665	1,195,544	1,223,042
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	10,346,628	10,584,601	10,828,046	11,077,092	11,331,865	11,592,498	11,859,125	12,131,885	12,410,918	12,696,369
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	2,419,710	2,475,364	2,532,297	2,590,540	2,650,122	2,711,075	2,773,430	2,837,219	2,902,475	2,969,232
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	216,340	219,895	224,005	228,683	233,943	239,323	244,828	250,459	256,219	262,112
822	C&I Custum	Optimization refrigeration	Refrigeration	68,142	75,088	82,195	89,464	96,901	98,585	100,444	102,481	104,702	107,110
823	C&I Custum	Bakery - process	Process	234,034	257,892	282,299	307,267	332,810	338,592	344,976	351,975	359,602	367,873
824	C&I Custum	Bakery - process (mixing)	Process	85,519	86,924	88,549	90,398	92,477	94,604	96,780	99,006	101,283	103,613
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	761,913	839,584	852,801	867,844	884,758	903,583	924,366	945,626	967,376	989,625
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	391,176	431,054	437,840	445,563	454,247	463,912	474,582	485,498	496,664	508,087
830	C&I Custum	Direct drive extruders	Machine Drive	43,370	47,792	48,544	49,400	50,363	51,435	52,618	53,828	55,066	56,332
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	171,140	188,586	191,555	194,934	198,733	202,962	207,630	212,405	217,291	222,288
832	C&I Custum	Injection molding - direct drive	Machine Drive	79,903	88,048	89,434	91,012	92,786	94,760	96,940	99,169	101,450	103,784
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	61,818	62,833	64,008	65,345	66,847	68,385	69,958	71,567	73,213	74,897
835	C&I Custum	Top-heating (glass)	Process Heating	30,197	30,810	31,519	32,244	33,985	33,744	34,520	35,314	36,126	36,957
836	C&I Custum	Process controls	Process	4,053,697	4,120,299	4,197,310	4,284,970	4,383,524	4,484,345	4,587,485	4,692,997	4,800,936	4,911,358
837	C&I Custum	Efficient electric melting	Process Heating	356,766	393,136	400,342	468,404	507,342	547,175	587,924	629,611	672,256	715,882
838	C&I Custum	Near net shape casting	Machine Drive	309,220	340,743	372,991	405,981	439,729	447,370	455,804	465,051	475,129	486,057
839	C&I Custum	Optimization process (M&T)	Process	79,525	80,831	82,342	84,062	85,995	87,973	89,997	92,067	94,184	96,350
840	C&I Custum	Scheduling	Process	22,056	22,418	22,837	23,314	23,851	24,399	24,960	25,534	26,122	26,722
841	C&I Custum	Efficient curing ovens	Process Heating	18,437	20,316	22,239	24,206	26,218	26,674	27,176	27,728	28,329	28,980
842	C&I Custum	Machinery	Machine Drive	48,103	48,894	49,808	50,848	52,017	53,214	54,438	55,690	56,971	58,281
843	C&I Custum	Optimization process (M&T)	Process	33,995	34,554	35,200	35,935	36,761	37,607	38,472	39,357	40,262	41,188
844	C&I Custum	Scheduling	Process	9,429	9,583	9,763	9,966	10,196	10,430	10,670	10,915	11,167	11,423
845	C&I Custum	Efficient curing ovens	Process Heating	2,738	3,017	3,303	3,595	3,894	3,962	4,036	4,118	4,207	4,304
846	C&I Custum	Machinery	Machine Drive	50,811	51,646	52,611	53,710	54,945	56,209	57,502	58,824	60,177	61,561
847	C&I Custum	Optimization process (M&T)	Process	25,037	25,449	25,924	26,466	27,075	27,				

4: Net kWh Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
848	C&I Custom	Scheduling	Process	8,680	8,823	8,988	9,175	9,386	9,602	9,823	10,049	10,280	10,517
849	C&I Custom	Efficient curing ovens	Process Heating	4,582	5,050	5,527	6,016	6,516	6,630	6,755	6,892	7,041	7,203
850	C&I Custom	Machinery	Machine Drive	22,991	23,369	23,805	24,302	24,861	25,433	26,018	26,617	27,229	27,855
851	C&I Custom	Scheduling	Process	10,041	10,206	10,397	10,614	10,858	11,108	11,363	11,625	11,892	12,166
852	C&I Custom	Efficient curing ovens	Process Heating	8,279	9,123	9,986	10,869	11,773	11,978	12,203	12,451	12,721	13,013
853	C&I Custom	Machinery	Machine Drive	3,256	3,310	3,372	3,442	3,521	3,602	3,685	3,770	3,857	3,945
854	C&I Custom	Efficient processes (welding, etc.)	Process	71,878	79,205	86,701	94,369	102,214	103,990	105,951	108,100	110,443	112,983
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	6,061,308	6,237,109	6,405,222	6,565,073	6,716,069	6,870,539	7,028,561	7,190,218	7,355,593	7,524,772
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart	All systems	1,563,894	1,758,025	1,797,224	1,837,935	1,880,208	1,923,452	1,967,692	2,012,949	2,059,247	2,106,609
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart	All systems	1,744,882	1,961,478	2,005,214	2,050,637	2,097,801	2,146,051	2,195,410	2,245,904	2,297,560	2,350,404
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000
865	Commercial Demand Credit	Commercial Demand Credit	All systems	760,000	760,000	760,000	760,000	760,000	760,000	760,000	760,000	760,000	760,000
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

5: Net kW Savings

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	607	1,408	2,439	3,726	5,043	6,391	7,769	9,180	10,622
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	125	289	501	766	1,036	1,313	1,597	1,886	2,183
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	62	144	249	380	515	652	793	937	1,084
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	222	515	892	1,363	1,845	2,337	2,842	3,357	3,885
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	62	144	249	380	514	652	792	936	1,083
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	13	30	52	79	107	136	165	195	226
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	9	22	38	58	78	99	121	143	165
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	0	189	439	759	1,160	1,571	1,990	2,419	2,859	3,308
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	0	53	124	215	328	444	563	684	808	935
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	0	31	72	125	190	258	327	397	469	543
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	0	25	57	99	151	204	259	315	372	430
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	0	13	30	52	80	108	137	167	197	228
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	0	6	14	25	38	52	66	80	94	109
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	43	99	172	262	355	355	355	355	355
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	8	18	32	48	66	66	66	66	66
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	(3)	(8)	(13)	(20)	(27)	(27)	(27)	(27)	(27)
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	253	586	1,015	1,552	2,100	2,100	2,100	2,100	2,100
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	14	33	58	91	132	175	218	262	308	354
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	4	10	17	27	39	52	65	78	91	105
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	1	3	6	9	13	17	22	26	31	35
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	7	16	29	45	66	87	109	131	153	176
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	3	6	11	17	24	32	40	48	57	65
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	1	2	3	5	7	9	12	14	17	19
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	50	119	210	328	477	629	785	945	1,108	1,275
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	16	38	68	106	154	204	254	306	359	413
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	5	12	20	32	46	61	76	92	108	124
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	11	25	43	66	94	123	152	181	212	243
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	268	632	1,116	1,743	2,536	3,347	4,176	5,025	5,893	6,781
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	66	156	275	430	626	826	1,031	1,240	1,455	1,674
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	26	61	108	169	246	325	406	488	573	659
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	96	222	384	587	833	1,084	1,341	1,604	1,873	2,149
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	141	282	423	564	705	846	987	1,128	1,269	1,410
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	26	52	78	104	130	156	182	208	234	260
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	15	30	45	61	76	91	106	121	136	151
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	1,086	2,490	4,255	6,406	8,945	11,541	14,198	16,916	19,696	22,540

5: Net kW Savings

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	204	467	798	1,202	1,678	2,165	2,663	3,173	3,695	4,228
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	115	264	451	680	949	1,224	1,506	1,794	2,089	2,391
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	825	1,892	3,233	4,867	6,796	8,769	10,787	12,852	14,964	17,125
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	10	23	40	60	84	108	133	159	185	211
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	1	3	6	9	12	16	19	23	27	30
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	1	2	4	6	8	10	12	15	17	20
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	4	10	17	26	37	47	58	69	81	92
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	(484)	(968)	(1,452)	(1,936)	(2,421)	(2,905)	(3,389)	(3,873)	(4,357)	(4,841)
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	(125)	(249)	(374)	(499)	(624)	(748)	(873)	(998)	(1,123)	(1,247)
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	(44)	(87)	(131)	(174)	(218)	(261)	(305)	(348)	(392)	(435)
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	22	44	66	88	110	131	153	175	197	219
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	5	10	15	20	25	30	35	40	45	50
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	2	4	6	8	10	12	14	16	18	20
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	14	32	57	88	128	170	212	255	299	344
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	5	11	19	30	43	57	71	85	100	115
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	1	3	6	9	13	17	21	25	29	34
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	6	13	23	36	52	69	86	104	122	140
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	3	7	12	18	27	35	44	53	62	71
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	1	2	3	4	6	9	11	13	15	17
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	33	75	128	193	269	348	428	509	593	679
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	6	14	24	36	50	64	79	94	110	126
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	2	5	8	12	17	22	27	32	38	43
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	19	44	76	114	159	206	253	302	351	402
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	3	7	12	19	26	33	41	49	57	65
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	1	2	3	4	6	7	9	11	12	14
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	109	250	427	643	898	1,159	1,426	1,699	1,978	2,264
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	32	74	127	191	267	345	424	506	589	674
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	8	19	32	49	68	88	108	129	150	172
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	(80)	(182)	(312)	(469)	(655)	(846)	(1,040)	(1,239)	(1,443)	(1,652)
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	30	70	119	180	251	324	398	474	552	632
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	6	14	23	35	49	63	78	93	108	124
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	3	7	12	18	25	33	40	48	56	64
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	20	46	79	119	166	214	263	313	365	418
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	81	187	324	495	702	913	913	913	913	913
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	5	12	21	32	45	58	58	58	58	58
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	198	395	593	790	988	1,185	1,383	1,581	1,778	1,976
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	93	187	280	374	467	561	654	748	841	935
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	396	791	1,187	1,582	1,978	2,373	2,769	3,164	3,560	3,955
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	28	56	84	111	139	167	195	223	251	279
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	182	423	550	696	855	947	969	991	1,014	1,037
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	304	705	917	1,160	1,425	1,579	1,615	1,652	1,690	1,729
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	385	893	1,161	1,470	1,805	2,000	2,046	2,093	2,141	2,190
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	520	1,206	1,569	1,985	2,438	2,701	2,763	2,827	2,892	2,959
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	24	55	96	147	208	271	335	401	468	537
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	47	109	189	289	411	534	661	791	923	1,059
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	63	146	252	385	546	711	880	1,052	1,229	1,409
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	87	201	348	532	754	982	1,215	1,453	1,697	1,946
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	8	17	30	46	65	85	105	126	147	169
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	15	36	62	95	134	175	216	259	302	346
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	24	41	63	89	116	144	172	201	230
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1	3	5	8	12	15	19	22	26	30
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	12	28	49	75	106	138	171	204	239	274
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	3	6	10	16	22	29	35	42	50	57
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	1	1	2	3	3	4	5	6	7
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	1	2	2	3	4	5	6	7	9
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	1	2	2	3	4	5	6	8	9
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	1	1	1	1	1	2
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	1	3	4	7	10	13	16	19	21	22
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	0	0	1	1	2	2	3	3	4	5
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	0	0	1	1	2	2	3	4	4	5
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	0	0	1	1	2	2	3	3	4	5
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	0	0	1	1	2	2	3	3	4	5
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2	4	7	11	15	19	24	28	33	38
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	25	58	98	148	207	267	329	391	456	522
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	4	9	16	24	33	43	53	63	73	84
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	34	77	132	199	278	359	441	526	612	700
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2	5	9	13	18	24	29	35	40	46
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	12	24	37	40	43	46	47	48	49	51
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	80	166	259	278	298	314	327	334	342	350
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	(56)	(116)	(180)	(194)	(208)	(219)	(228)	(233)	(238)	(244)
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	95	198	308	331	355	374	389	397	407	416
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	86	179	278	299	320	338	351	359	367	376
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	103	214	333	358	384	405	421	430	440	450
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	53	110	171	184	197	208	216	221	226	232
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	251	521	811	871	934	986	1,024	1,047	1,071	1,096
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	198	412	641	688	738	778	808	827	846	866
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	113	234	364	390	419	442	459	469	480	491
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	213	442	687	738	791	835	867	887	907	928
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	138	286	445	478	512	541	561	574	588	601
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	49	102	158	170	182	192	200	204	209	214
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	1	1	1	1	1
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	3	6	9	12	16	19	23	27	31	35
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	1	1	1	2	2	2	3	3	4
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1	3	4	5	7	9	10	12	14	16
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	8	16	25	35	46	56	67	78	90	101
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	4	8	12	17	22	27	32	37	43	48
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	22	45	70	97	125	155	185	216	247	279
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	3	6	9	12	16	19	23	27	31	35
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	1	1	1	1
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	6	13	21	28	37	45	54	63	72	82
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	46	105	179	270	377	486	598	713	830	950
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	28	65	111	167	233	300	369	440	512	586
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	23	53	90	136	189	244	300	358	417	477
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	108	247	421	634	886	1,143	1,406	1,675	1,950	2,232
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	108	248	424	639	892	1,150	1,415	1,686	1,963	2,247
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	69	158	269	406	566	731	899	1,071	1,247	1,427

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	23	53	91	137	191	246	303	361	421	481
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	4	9	13	19	24	30	36	42	48	54
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	9	18	28	39	51	63	75	87	100	113
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(1)
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	(55)	(114)	(177)	(245)	(318)	(393)	(469)	(547)	(627)	(708)
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	(0)	(0)	(1)	(1)	(1)	(2)	(2)	(2)	(2)	(3)
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(0)	(1)	(1)	(2)	(2)	(2)	(3)	(3)	(4)	(4)
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(1)	(2)	(4)	(5)	(7)	(9)	(10)	(12)	(14)	(15)
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(14)	(28)	(44)	(61)	(79)	(97)	(116)	(135)	(155)	(175)
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	(2)	(4)	(6)	(8)	(10)	(13)	(15)	(18)	(20)	(23)
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(66)	(137)	(213)	(295)	(382)	(472)	(563)	(657)	(753)	(851)
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	0	0	1	1	1	1	2	2	2	3
323	C&I Prescriptive	VAV	Chiller & Boiler	91	208	356	536	748	965	1,187	1,415	1,647	1,885
324	C&I Prescriptive	VAV	Chiller & Boiler	(59)	(135)	(231)	(347)	(485)	(626)	(770)	(917)	(1,067)	(1,222)
325	C&I Prescriptive	VAV	Chiller & Boiler	33	75	127	192	268	346	425	507	590	675
326	C&I Prescriptive	VAV	Chiller & Boiler	(43)	(100)	(170)	(257)	(358)	(462)	(569)	(678)	(789)	(903)
327	C&I Prescriptive	VAV	Chiller & Boiler	87	199	341	513	716	924	1,137	1,355	1,578	1,805
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	23	54	92	138	193	249	306	364	424	486
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	39	90	155	233	325	419	516	614	715	819
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	18	40	69	104	145	186	229	273	318	364
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	(21)	(47)	(81)	(122)	(171)	(220)	(271)	(323)	(376)	(430)
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	(33)	(76)	(130)	(195)	(272)	(351)	(432)	(515)	(600)	(686)
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	94	216	369	556	776	1,001	1,232	1,468	1,709	1,956
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	56	128	220	331	462	596	733	873	1,016	1,163
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	(0)	(0)	(0)	(1)	(1)	(1)	(1)	(2)	(2)	(2)
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	6	13	22	33	46	60	73	88	102	117
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2	4	7	11	16	20	25	29	34	39
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	13	30	51	77	107	138	170	203	236	270
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	29	67	114	172	240	310	381	454	529	605
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(43)	(98)	(168)	(253)	(354)	(456)	(561)	(669)	(778)	(891)
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(7)	(15)	(26)	(40)	(55)	(71)	(88)	(104)	(122)	(139)
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(1)	(2)	(3)	(4)	(6)	(7)	(9)	(11)	(12)	(14)
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	4	9	15	23	32	42	51	61	71	81
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	40	92	158	238	332	428	527	627	730	836
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	262	524	786	1,048	1,310	1,572	1,834	2,096	2,358	2,620
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	11	26	44	55	67	75	81	82	84	86
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	22	50	86	108	131	148	158	161	165	169
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	29	66	113	141	171	193	206	211	216	221
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	42	96	164	205	248	280	300	307	314	321
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	2	3	5	7	9	11	13	15	17
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	6	10	16	22	28	35	42	49	56
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	34	44	54	64	75	86
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7	16	27	40	56	72	89	106	123	141
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2	2	3	3	4	4	4	4	4	4
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3	4	5	6	7	7	7	7	7	8
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4	5	6	7	9	9	9	9	10	10
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5	7	9	10	12	13	13	13	13	14
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	0	0	0	0	1	1	1	1	1	2
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	0	0	1	1	1	2	2	2	3	3
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	0	0	1	1	2	2	2	3	3	4
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	0	1	1	1	2	3	3	4	5	5
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7	17	21	26	31	34	35	36	37	38
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	13	30	39	48	57	63	64	66	67	69
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	17	39	50	62	74	81	83	85	87	89
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	24	55	70	87	104	114	117	119	122	125
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	1	2	4	5	7	8	10	11	13
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	3	5	8	11	15	18	21	25	28
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	4	7	10	14	18	23	27	31	36
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	5	9	14	19	25	31	36	42	49
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	27	35	44	53	63	64	66	67	69	71
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	47	61	77	93	110	113	115	118	121	123
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	60	78	98	119	141	144	147	151	154	158
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	83	108	135	165	194	199	203	208	213	218
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	3	5	8	11	14	17	21	24	28
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	5	9	13	18	24	29	34	40	46
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	6	11	17	23	30	37	44	51	58
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	34	43	53	63	74	85
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	39	50	63	77	91	93	95	97	100	102
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	70	90	113	138	163	166	170	174	178	182
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	89	115	145	177	209	214	218	224	229	234
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	124	161	202	247	291	298	304	311	319	326
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	4	7	11	16	20	25	30	35	40
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	8	13	20	28	36	45	53	62	71
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	10	17	26	36	46	57	68	79	90
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6	13	23	35	48	62	77	91	106	122

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7	16	27	33	41	46	49	50	51	52
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	13	30	52	65	79	89	95	97	100	102
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	17	40	68	85	103	116	124	127	130	133
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	25	57	98	123	149	168	180	184	188	193
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	1	2	3	4	6	7	8	10	11
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	4	7	10	14	18	22	26	30	35
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	6	10	15	21	27	33	40	46	53
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	33	43	53	63	73	84
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	8	18	31	39	48	54	58	59	60	62
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	16	36	62	78	94	106	114	116	119	122
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	21	48	81	102	124	139	149	153	156	160
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	30	69	119	148	180	203	217	222	227	233
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	1	2	3	5	6	7	9	10	11
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	4	7	11	15	20	24	29	34	39
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	7	11	17	24	31	38	45	53	60
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5	11	19	28	40	51	63	75	87	100
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	19	44	56	69	83	90	93	95	97	99
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	35	81	104	128	153	168	172	176	180	184
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	46	105	134	166	198	217	222	227	233	238
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	65	149	190	235	281	308	315	322	330	337
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	3	5	8	12	15	18	22	25	29
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	8	14	22	30	39	48	57	66	76
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5	11	19	28	40	51	63	75	87	100
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7	15	26	38	54	69	85	101	118	135
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	11	26	44	55	66	75	80	82	84	86
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	22	50	86	107	130	147	157	161	165	169
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	29	66	113	141	171	193	206	211	216	221
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	42	96	164	205	249	281	300	307	314	321
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	2	3	5	6	8	10	12	14	16
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	6	10	15	21	28	34	41	47	54
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	24	33	43	53	63	73	84
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7	15	26	39	55	71	87	104	121	139
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	80	184	235	290	347	380	389	398	407	417
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	148	339	432	534	639	700	716	733	749	767
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	191	439	558	690	826	905	925	947	969	991
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	270	619	788	974	1,167	1,277	1,307	1,337	1,368	1,399
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6	14	25	37	52	67	82	98	114	130
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	16	36	61	92	128	166	204	243	282	323
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	20	45	77	116	162	210	258	307	358	409
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	27	61	104	157	219	283	348	415	483	553
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	6	14	25	37	52	67	82	98	114	131
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	22	51	87	131	183	236	290	345	402	460
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	16	36	62	93	130	168	206	246	286	328
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1	2	3	4	6	8	10	11	13	15
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	14	32	54	82	114	148	181	216	252	288
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	7	15	26	40	55	71	88	104	122	139
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	1	1	2	2	3	3	4	4
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	1	2	3	5	6	8	10	12	14	16
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	1	1	2	3	4	5	6	7	8
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	1	1	1	2	3	3	4	5	5
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	0	1	2	3	4	5	6	8	9	10
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	0	1	1	1	1	2	2	3	3
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2	4	7	10	15	19	23	28	32	37
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	4	10	17	25	35	45	55	66	76	87
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	3	6	11	16	23	29	36	43	50	57
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	0	1	1	2	2	3	4	4	5	6
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	3	7	12	18	26	33	41	49	57	65
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1	1	2	4	5	7	8	10	11	13
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2	6	10	15	20	26	33	39	45	52
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	4	10	17	26	36	47	58	69	80	92
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	4	8	14	21	29	38	47	56	65	74
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1	2	3	5	7	9	11	13	15	17
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	1	1	2	4	5	6	8	9	11	12
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	1	1	2	2	3	4	5	5	6
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2	5	8	12	17	22	28	33	38	44
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	5	12	20	31	43	55	68	81	94	108
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	4	8	14	21	29	38	46	55	64	73
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	0	1	1	2	3	3	4	5	6	7
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	4	9	15	22	31	40	50	59	69	79
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1	2	3	5	6	8	10	12	14	16
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
463	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	1	1	2	3	4	4	5	6	7
464	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	1	2	4	5	7	8	10	12	13
465	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	1	2	3	4	5	6	8	9	10
467	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	1	1	1	2	2	2	3
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	0	0	0	1	1	1	2	2	2	2
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	0	0	0	0	1	1	1	1	1
471	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	39	89	152	228	319	411	506	603	702	803
472	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	66	152	260	391	546	705	867	1,033	1,203	1,376
473	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	43	99	169	254	355	458	564	671	782	895
474	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	7	16	27	41	57	73	90	108	125	143
475	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	57	130	222	334	466	601	740	881	1,026	1,174
476	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	12	28	48	72	101	130	160	190	222	253
477	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1	2	3	4	5	7	9	10	12	14
479	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	2	3	5	6	8	10	12	14	16
480	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	2	3	5	7	9	11	14	16	18
482	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	1	1	1	1	2	2	2	3
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	1	1	2	3	5	6	7	9	10	11
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	1	1	2	3	3	4	5	6	7
486	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	8	18	31	47	66	85	104	124	145	166
487	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	14	31	54	81	113	146	179	213	248	284
488	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	9	20	35	52	73	95	116	139	161	185
489	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1	3	5	8	11	15	18	22	25	29
490	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	12	27	46	69	96	124	153	182	212	242
491	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	2	6	10	15	20	26	33	39	45	52
492	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	1	2	3	4	5	6	7	8	10
494	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	1	2	3	5	6	7	9	10	12
495	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	1	2	4	5	7	8	10	11	13
497	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	1	1	1	1	1	2	2
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	0	1	2	3	4	5	6	7	8	10
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	1	1	2	2	3	3	4	5	5
501	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	12	28	48	72	101	130	160	190	222	254
502	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	41	94	160	241	337	435	535	638	742	850
503	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	29	66	113	171	239	308	379	451	525	601
504	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1	3	6	9	12	16	19	23	27	31
505	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	26	60	103	155	216	279	343	408	475	544
506	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	11	26	44	66	92	118	146	174	202	231
507	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	1	1	2	3	4	4	5	6	7
509	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	3	5	7	10	13	16	19	22	25
510	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	1	2	4	5	6	8	9	11	12
512	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	0	1	1	2	3	4	5	6	7	8
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	0	1	2	3	4	5	6	8	9	10
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	0	1	1	1	2	2	2	3	3
516	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	10	23	39	58	82	105	130	154	180	206
517	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	33	76	130	196	273	353	434	517	602	689
518	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	23	54	92	138	193	249	307	365	426	487
519	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1	3	5	7	10	13	16	19	22	25
520	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	21	49	83	125	175	226	278	331	385	441
521	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	9	21	35	53	74	96	118	141	164	187
522	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1	1	2	4	5	6	8	9	11	13
524	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	2	5	9	13	18	23	28	34	39	45
525	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1	2	4	6	9	12	14	17	20	22
527	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1	2	3	4	5	7	9	10	12	14
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	0	1	1	1	2	3	3	4	4	5
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	0	0	0	0	1	1	1	1	1	2
531	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	12	26	45	68	95	123	151	180	209	240
532	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	32	73	124	187	261	337	414	493	574	657
533	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	22	50	86	129	180	232	286	340	396	453
534	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2	4	6	10	13	17	21	25	30	34
535	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	22	51	87	130	182	235	289	344	400	458
536	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	6	13	23	34	48	61	75	90	105	120
537	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	5	11	19	29	41	53	65	77	90	103
539	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	12	27	46	69	97	125	153	183	213	243

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	8	18	30	46	64	83	102	121	141	161
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	3	7	12	18	25	32	39	47	54	62
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	2	4	7	10	15	19	23	27	32	37
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	2	3	4	6	8	9	11	13	15
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	3	7	11	17	24	31	38	46	53	61
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	11	24	41	62	87	112	138	165	192	220
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	8	17	30	45	62	80	99	118	137	157
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	0	1	1	2	3	4	4	5	6	7
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	7	15	26	39	54	70	86	102	119	136
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	3	8	13	20	28	36	44	53	61	70
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	1	3	6	9	12	16	19	23	26	30
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	6	14	24	37	51	66	81	96	112	129
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	3	6	11	16	23	29	36	43	50	57
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	2	5	8	12	17	22	27	32	37	42
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	3	8	13	20	28	36	45	53	62	71
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	2	4	6	8	10	13	15	18	20
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	45	104	178	267	373	482	593	706	822	941
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	116	266	455	685	956	1,234	1,518	1,808	2,105	2,409
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	79	182	311	468	654	844	1,038	1,236	1,440	1,647
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	7	15	26	40	56	72	88	105	123	140
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	83	191	327	492	687	886	1,090	1,299	1,512	1,731
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast v	Lighting - interior	18	42	72	108	151	195	240	286	333	382
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	9	20	34	52	72	93	115	137	159	182
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	18	41	70	106	148	191	235	280	326	373
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	13	30	52	78	108	140	172	205	239	273
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast v	Lighting - interior	4	9	16	23	33	42	52	62	72	82
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	7	15	26	39	55	71	87	104	121	139
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	7	12	17	24	31	39	46	54	61
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	5	12	21	31	43	56	69	82	90	97
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast)	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
580	C&I Prescriptive	180W LPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	1	3	5	8	11	14	17	20	24	27
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	1	3	5	8	11	14	17	20	24	27
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	1	3	4	7	9	12	15	17	20	23
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	1	3	4	7	9	12	15	18	21	24
588	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	2	2	2	3	3	4
589	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	6	9	12	14	17	20	23
590	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	10	15	21	27	34	40	47	54
591	C&I Prescriptive	Premium Efficiency Motor	Motors	4	9	15	23	32	41	50	60	70	80
592	C&I Prescriptive	Premium Efficiency Motor	Motors	5	11	19	28	39	51	62	74	87	99
593	C&I Prescriptive	Premium Efficiency Motor	Motors	6	15	25	38	53	68	83	99	116	132
594	C&I Prescriptive	Premium Efficiency Motor	Motors	6	15	25	38	53	68	84	100	117	133
595	C&I Prescriptive	Premium Efficiency Motor	Motors	9	20	35	52	73	94	116	138	161	185
596	C&I Prescriptive	Premium Efficiency Motor	Motors	6	14	24	37	51	66	81	97	113	129
597	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	10	15	21	28	34	41	47	54
598	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	1	1	1	1	1	2	2
599	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	6	8	10	12	14	16
600	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	13	18	23	28	34	39	45
601	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	14	19	25	31	37	43	49
602	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	20	27	35	43	52	60	69
603	C&I Prescriptive	Premium Efficiency Motor	Motors	3	7	12	19	26	33	41	49	57	65
604	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	8	11	16	21	25	30	35	40
605	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	6	10	13	17	21	25	29	33
606	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	6	8	12	15	19	22	26	29
607	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	5	8	10	12	14	17	19
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	2	6	9	14	20	26	31	37	44	50
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	1	2	4	6	8	11	13	16	18	21
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
617	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	0	0	0	1	1	1	1	1	2	2
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	0	1	1	2	2	3	3	4	4	5
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	3	5	8	11	15	18	22	26	29	33
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	0	0	1	1	1	1	2	2	2	3
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	2	4	6	9	11	14	16	19	22	25
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	0	1	1	1	2	2	3	3	4	4
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	2	5	8	11	14	18	21	25	28	32
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	1	2	3	3	5	6	7	8	9	10
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(1)	(1)
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	17	40	68	102	142	183	226	269	313	358
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	5	10	16	22	29	35	42	49	56	64
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	55	125	214	323	451	582	715	852	993	1,136
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	2	5	8	12	16	21	26	31	36	41
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	11	25	43	65	90	117	143	171	199	228
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	19	42	73	109	152	197	242	288	336	384
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	1	2	4	6	8	10	13	15	17	18
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	4	9	15	22	31	40	49	59	64	69
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	12	28	48	73	101	131	161	192	223	256
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	10	20	32	44	47	50	52	54	55	56
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	14	30	47	65	69	73	77	79	81	83
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	1	3	6	8	12	15	19	22	26	30
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	78	161	250	269	288	304	316	323	330	338
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	75	171	293	441	616	794	977	1,164	1,356	1,551
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	26	59	101	153	213	275	338	403	469	537
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	23	53	91	114	138	156	167	171	175	179
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	45	104	178	223	270	305	326	333	341	349
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	60	138	236	296	359	405	433	443	453	464
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	91	208	355	444	539	608	650	665	680	696
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1	2	3	5	7	9	12	14	16	18
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	9	16	23	33	42	52	62	72	82
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7	15	26	40	55	71	88	105	122	140
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12	28	47	71	99	128	158	188	219	250
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3	6	11	16	23	30	37	44	51	58
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	14	32	54	81	113	146	180	214	249	285
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	10	23	40	60	84	108	133	159	185	212
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	0	1	1	1	2	3	3	4	5	5
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	7	17	29	44	61	79	98	116	135	155
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	8	19	32	48	67	86	106	127	148	169
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	1	2	3	5	7	9	12	14	16	18
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	7	16	28	42	59	76	94	112	130	149
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	2	5	8	12	17	22	27	32	37	43
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	3	7	12	18	26	33	41	48	56	64
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	3	7	12	18	26	33	41	49	57	65
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	1	2	3	5	6	8	9	11	12
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	0	1	1	2	3	3	4	5	5	6
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
690	C&I Prescriptive	180W LPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0

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Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	0	0	0	1	1	1	1	2	2	2
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	0	0	1	1	1	1	2	2	2	3
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	0	0	0	0	1	1	1	1	1	2
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	0	0	0	0	1	1	1	1	1	2
698	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	0	0	1	1	1	1
699	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	2	2	2	3	3	4
700	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	4	6	7	8	10	11
701	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	4	6	8	10	11	13	15
702	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	4	6	8	10	12	14	16
703	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	7	9	12	15	18	20	23
704	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	7	10	13	16	19	22	25
705	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	8	11	16	21	25	30	35	40
706	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	8	12	15	18	22	25	29
707	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	7	9	12	15	18	20	23
708	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	0	0	0	0	0	0
709	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	2	2	2	3	3
710	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	2	3	4	5	6	7	8	10
711	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	4	6	7	8	10	11
712	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	4	5	7	8	9	11
713	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	3	4	5	7	8	10	12	13
714	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	2	3	4	5	6	7	8	9
715	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	5	6	7	9	10	11
716	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	2	3	4	5	6	7	8	9
717	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	2	3	5	6	8	9	11	12
718	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	1	1	1	1	1	1
719	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	2	3	4	4	5	6
720	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	7	9	12	14	16	18
721	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	7	9	12	15	17	20	23
722	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	7	10	14	17	20	23	26
723	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	10	14	18	22	27	31	35
724	C&I Prescriptive	Premium Efficiency Motor	Motors	2	4	7	11	15	20	24	29	33	38
725	C&I Prescriptive	Premium Efficiency Motor	Motors	3	7	12	18	25	33	40	48	56	64
726	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	10	15	21	27	34	40	47	53
727	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	13	18	23	28	34	39	45
728	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	0	0	1	1	1	1
729	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	2	3	3	4	5	5
730	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	7	9	11	13	15	18
731	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	10	13	15	18	20
732	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	10	13	15	18	20
733	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	10	13	15	18	20
734	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	4	6	7	9	10	12	14
735	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	6	8	10	12	15	17	19
736	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	4	5	8	10	12	14	17	19
737	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	7	10	13	16	19	22	25
738	C&I Prescriptive	Premium Efficiency Motor	Motors	0	1	1	2	2	3	4	5	5	6
739	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	7	9	12	15	18	20	23
740	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	20	28	36	44	52	61	70
741	C&I Prescriptive	Premium Efficiency Motor	Motors	4	10	18	27	37	48	59	70	82	93
742	C&I Prescriptive	Premium Efficiency Motor	Motors	5	11	19	28	39	50	62	74	86	99
743	C&I Prescriptive	Premium Efficiency Motor	Motors	7	16	27	41	57	73	90	107	125	143
744	C&I Prescriptive	Premium Efficiency Motor	Motors	7	17	29	44	61	79	97	115	134	154
745	C&I Prescriptive	Premium Efficiency Motor	Motors	14	32	54	82	114	147	181	216	251	288
746	C&I Prescriptive	Premium Efficiency Motor	Motors	13	30	52	78	109	140	173	206	240	274
747	C&I Prescriptive	Premium Efficiency Motor	Motors	12	27	46	69	96	124	153	182	212	242
748	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	1	2	2	3	3	4
749	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	4	6	9	12	14	17	20	23
750	C&I Prescriptive	Premium Efficiency Motor	Motors	3	7	12	18	25	32	39	47	54	62
751	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	20	28	36	45	53	62	71
752	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	20	27	35	44	52	60	69
753	C&I Prescriptive	Premium Efficiency Motor	Motors	4	9	15	23	32	41	51	61	71	81
754	C&I Prescriptive	Premium Efficiency Motor	Motors	3	6	11	16	22	29	35	42	49	56
755	C&I Prescriptive	Premium Efficiency Motor	Motors	5	11	19	29	40	52	64	76	88	101
756	C&I Prescriptive	Premium Efficiency Motor	Motors	6	13	23	34	47	61	75	90	105	120
757	C&I Prescriptive	Premium Efficiency Motor	Motors	7	17	29	44	61	79	97	115	134	154
758	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	1	1	2	2	2	3	3	4
759	C&I Prescriptive	Premium Efficiency Motor	Motors	1	3	5	8	11	14	17	20	23	27
760	C&I Prescriptive	Premium Efficiency Motor	Motors	4	9	15	23	32	42	51	61	71	81
761	C&I Prescriptive	Premium Efficiency Motor	Motors	6	13	23	34	48	62	76	91	105	121
762	C&I Prescriptive	Premium Efficiency Motor	Motors	5	13	21	32	45	58	72	85	99	114
763	C&I Prescriptive	Premium Efficiency Motor	Motors	8	19	33	50	69	90	110	131	153	175
764	C&I Prescriptive	Premium Efficiency Motor	Motors	8	19	32	49	68	88	108	128	150	171
765	C&I Prescriptive	Premium Efficiency Motor	Motors	16	36	61	92	129	166	205	244	284	325
766	C&I Prescriptive	Premium Efficiency Motor	Motors	10	22	38	58	80	104	127	152	177	202
767	C&I Prescriptive	Premium Efficiency Motor	Motors	7	17	29	43	61	78	96	115	134	153
768	C&I Prescriptive	Premium Efficiency Motor	Motors	0	0	0	0	1	1	1	1	1	1
769	C&I Prescriptive	Premium Efficiency Motor	Motors	1	2	3	5	7	9	11	13	15	17
770	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	19	27	35	43	51	60	68

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
771	C&I Prescriptive	Premium Efficiency Motor	Motors	4	8	14	21	30	38	47	56	65	75
772	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	20	28	36	45	53	62	71
773	C&I Prescriptive	Premium Efficiency Motor	Motors	4	9	15	23	31	41	50	59	69	79
774	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	8	13	18	23	28	34	39	45
775	C&I Prescriptive	Premium Efficiency Motor	Motors	4	8	14	21	30	39	48	57	66	76
776	C&I Prescriptive	Premium Efficiency Motor	Motors	2	5	9	14	19	25	31	37	43	49
777	C&I Prescriptive	Premium Efficiency Motor	Motors	3	8	13	20	28	36	44	52	61	70
778	C&I Custum	Compressed Air-O&M	All systems	411	822	1,234	1,645	2,056	2,477	2,907	3,347	3,797	4,258
779	C&I Custum	Compressed Air - Controls	All systems	98	196	294	392	490	590	692	797	904	1,014
780	C&I Custum	Compressed Air - System Optimization	All systems	326	653	979	1,305	1,632	1,966	2,307	2,656	3,014	3,379
781	C&I Custum	Compressed Air- Sizing	All systems	117	235	352	470	587	708	831	956	1,085	1,217
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	1	3	4	5	7	8	9	11	12	14
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	85	170	254	339	424	511	599	690	783	878
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	20	40	60	80	100	120	141	162	184	206
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	20	40	60	80	100	120	121	122	124	127
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	207	414	621	827	1,034	1,246	1,256	1,270	1,290	1,315
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	48	97	145	194	242	291	297	297	302	307
791	C&I Custum	Power recovery	All systems	4	8	12	16	20	24	28	33	37	41
792	C&I Custum	Refinery Controls	All systems	40	80	120	161	201	242	284	327	371	416
793	C&I Custum	Energy Star Transformers	All systems	1	2	2	3	4	5	6	7	8	8
794	C&I Custum	Fans - O&M	All systems	33	65	98	131	163	197	231	266	301	338
795	C&I Custum	Fans - Controls	All systems	116	232	348	464	580	698	820	944	1,071	1,201
796	C&I Custum	Fans - System Optimization	All systems	55	110	165	220	275	331	389	447	508	569
797	C&I Custum	Fans - Improve components	All systems	33	65	98	131	163	197	231	266	301	338
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	1	3	4	5	7	8	9	11	12	14
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	85	170	254	339	424	511	599	690	783	878
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	20	40	60	80	100	120	141	162	184	206
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	20	40	60	80	100	120	121	122	124	127
805	C&I Custum	Fans - ASD (100+ hp)	All systems	207	414	621	827	1,034	1,246	1,256	1,270	1,290	1,315
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	48	97	145	194	242	291	297	297	302	307
807	C&I Custum	Optimize drying process	All systems	202	404	606	808	1,010	1,216	1,428	1,644	1,865	2,092
808	C&I Custum	Pumps - O&M	All systems	131	261	392	522	653	786	923	1,063	1,206	1,352
809	C&I Custum	Pumps - Controls	All systems	343	685	1,028	1,371	1,713	2,064	2,422	2,789	3,165	3,548
810	C&I Custum	Pumps - System Optimization	All systems	252	504	756	1,008	1,260	1,518	1,782	2,052	2,328	2,610
811	C&I Custum	Pumps - Sizing	All systems	131	261	392	522	653	786	923	1,063	1,206	1,352
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	1	3	4	5	7	8	9	11	12	14
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	85	170	254	339	424	511	599	690	783	878
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	20	40	60	80	100	120	141	162	184	206
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	20	40	60	80	100	120	121	122	124	127
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	207	414	621	827	1,034	1,246	1,256	1,270	1,290	1,315
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	48	97	145	194	242	291	294	297	302	307
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	3	5	8	11	13	16	19	22	25	28
822	C&I Custum	Optimization refrigeration	Refrigeration	1	2	2	3	4	5	5	6	7	8
823	C&I Custum	Bakery - process	Process	3	5	8	11	13	16	19	22	24	27
824	C&I Custum	Bakery - process (mixing)	Process	1	2	3	4	5	6	7	9	10	11
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	9	17	26	34	43	52	61	70	80	89
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	4	9	13	18	22	27	31	36	41	46
830	C&I Custum	Direct drive extruders	Machine Drive	0	1	1	2	2	3	3	4	5	5
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	2	4	6	8	10	12	14	16	18	20
832	C&I Custum	Injection molding - direct drive	Machine Drive	1	2	3	4	5	5	6	7	8	9
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	1	2	2	3	4	5	5	6	7	8
835	C&I Custum	Top-heating (glass)	Process Heating	0	1	1	2	2	3	3	4	4	4
836	C&I Custum	Process controls	Process	50	100	151	201	251	302	355	408	463	520
837	C&I Custum	Efficient electric melting	Process Heating	4	8	12	16	20	24	29	33	37	42
838	C&I Custum	Near net shape casting	Machine Drive	3	7	10	14	17	21	25	28	32	36
839	C&I Custum	Optimization process (M&T)	Process	1	2	3	4	5	6	7	8	9	10
840	C&I Custum	Scheduling	Process	0	1	1	1	1	2	2	2	3	3
841	C&I Custum	Efficient curing ovens	Process Heating	0	0	1	1	1	1	1	2	2	2
842	C&I Custum	Machinery	Machine Drive	1	1	2	2	3	4	4	5	5	6
843	C&I Custum	Optimization process (M&T)	Process	0	1	1	2	2	3	3	3	4	4
844	C&I Custum	Scheduling	Process	0	0	0	0	1	1	1	1	1	1
845	C&I Custum	Efficient curing ovens	Process Heating	0	0	0	0	0	0	0	0	0	0
846	C&I Custum	Machinery	Machine Drive	1	1	2	3	3	4	4	5	6	7
847	C&I Custum	Optimization process (M&T)	Process	0	1	1	1	2	2	2	3	3	3

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
848	C&I Custom	Scheduling	Process	0	0	0	0	1	1	1	1	1	1
849	C&I Custom	Efficient curing ovens	Process Heating	0	0	0	0	0	0	0	0	0	1
850	C&I Custom	Machinery	Machine Drive	0	1	1	1	1	2	2	2	3	3
851	C&I Custom	Scheduling	Process	0	0	0	0	1	1	1	1	1	1
852	C&I Custom	Efficient curing ovens	Process Heating	0	0	0	0	0	1	1	1	1	1
853	C&I Custom	Machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
854	C&I Custom	Efficient processes (welding, etc.)	Process	1	2	2	3	4	5	6	7	8	8
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	5,499	11,250	17,264	23,552	30,123	36,845	43,721	50,756	57,953	65,315
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	0	0	1,771	3,576	5,416	7,298	9,223	11,192	13,207	15,268
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	0	0	1,976	3,990	6,042	8,142	10,290	12,487	14,735	17,035
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	47,500	47,500	47,500	47,500	47,500	47,500	47,500	47,500	47,500	47,500
865	Commercial Demand Credit	Commercial Demand Credit	All systems	38,000	38,000	38,000	38,000	38,000	38,000	38,000	38,000	38,000	38,000
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

5: Net kW Savings

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	12,098	13,000	13,744	14,293	14,622	14,958	15,302	15,654	16,014	16,383
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	2,486	2,672	2,824	2,937	3,005	3,074	3,145	3,217	3,291	3,367
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	1,234	1,326	1,402	1,458	1,492	1,526	1,561	1,597	1,634	1,671
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	4,425	4,755	5,027	5,228	5,348	5,471	5,597	5,725	5,857	5,992
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	1,234	1,326	1,402	1,458	1,491	1,525	1,560	1,596	1,633	1,671
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	258	277	293	304	311	318	326	333	341	349
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	188	202	214	222	227	233	238	244	249	255
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	3,767	4,238	4,718	5,210	5,714	6,229	6,755	7,294	7,846	8,220
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	1,065	1,198	1,334	1,474	1,616	1,761	1,910	2,063	2,219	2,325
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	618	695	774	855	938	1,022	1,109	1,197	1,287	1,349
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	490	551	614	677	743	810	878	948	1,020	1,069
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	260	292	325	359	394	429	466	503	541	567
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	124	140	155	172	188	205	223	240	258	271
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	355	355	355	355	355	355	312	256	183	93
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	66	66	66	66	66	66	58	47	34	17
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	(27)	(27)	(27)	(27)	(27)	(27)	(24)	(20)	(14)	(7)
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	1,847
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	402	450	500	551	603	656	710	766	823	881
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	119	134	148	163	179	195	211	227	244	261
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	40	45	50	55	60	65	71	76	82	88
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	200	224	249	274	300	326	354	381	410	439
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	74	83	92	102	111	121	131	141	152	163
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	22	24	27	30	32	35	38	41	44	47
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	1,446	1,620	1,799	1,982	2,169	2,360	2,556	2,756	2,961	3,171
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	468	525	583	642	702	764	828	893	959	1,027
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	141	158	175	193	211	230	249	269	289	309
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	275	307	341	375	410	445	482	519	557	596
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	7,690	8,619	9,570	10,543	11,538	12,556	13,597	14,662	15,752	16,867
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	1,898	2,128	2,362	2,603	2,848	3,099	3,356	3,619	3,888	4,164
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	747	838	930	1,025	1,121	1,220	1,321	1,425	1,531	1,639
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	2,430	2,718	3,013	3,314	3,623	3,938	4,261	4,591	4,929	5,274
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	1,551	1,692	1,833	1,974	2,115	2,256	2,397	2,538	2,679	2,819
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	286	311	337	363	389	415	441	467	493	519
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	167	182	197	212	227	242	257	273	288	303
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	24,364	25,936	27,216	28,180	28,828	29,491	30,169	30,863	31,573	32,299

5: Net kW Savings

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
ID	Program	Efficient Technology	HVAC System and/or End-use										
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	4,570	4,865	5,105	5,286	5,408	5,532	5,659	5,789	5,923	6,059
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	2,585	2,751	2,887	2,989	3,058	3,128	3,200	3,274	3,349	3,426
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	18,511	19,706	20,678	21,410	21,903	22,406	22,922	23,449	23,988	24,540
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	239	267	295	314	331	345	356	364	373	381
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	34	38	42	45	48	50	51	52	54	55
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	22	25	27	29	31	32	33	34	35	35
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	104	116	129	137	144	151	155	159	163	166
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	(5,325)	(5,809)	(5,809)	(5,809)	(5,809)	(5,809)	(5,809)	(5,809)	(5,809)	(5,809)
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	(1,372)	(1,497)	(1,497)	(1,497)	(1,497)	(1,497)	(1,497)	(1,497)	(1,497)	(1,497)
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	(479)	(522)	(522)	(522)	(522)	(522)	(522)	(522)	(522)	(522)
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	241	263	285	307	329	350	372	394	416	438
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	55	60	65	70	75	80	85	90	95	100
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	22	24	26	28	30	32	34	36	38	40
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	390	437	485	534	585	636	689	743	798	855
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	131	147	163	179	196	213	231	249	268	287
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	38	43	48	52	57	62	68	73	78	84
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	159	178	197	217	238	259	280	302	325	348
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	81	91	101	111	121	132	143	154	166	177
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	20	22	24	27	29	32	35	37	40	43
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	766	856	948	1,041	1,137	1,203	1,261	1,311	1,351	1,382
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	142	158	175	193	211	223	233	243	250	256
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	49	55	60	66	72	77	80	84	86	88
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	434	462	485	502	514	526	538	550	563	576
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	71	75	79	82	84	86	88	90	92	94
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	15	16	17	18	18	18	19	19	20	20
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	2,556	2,855	3,051	3,223	3,366	3,477	3,557	3,639	3,723	3,808
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	761	850	908	959	1,002	1,035	1,059	1,083	1,108	1,133
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	194	217	232	245	256	264	271	277	283	290
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	(1,865)	(2,083)	(2,226)	(2,352)	(2,456)	(2,537)	(2,595)	(2,655)	(2,716)	(2,779)
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	714	767	813	851	880	900	921	942	963	986
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	140	150	159	167	173	177	181	185	189	193
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	72	78	82	86	89	91	93	95	98	100
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	472	507	537	562	581	595	608	622	637	651
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	913	913	913	913	913	913	913	913	833	726
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	58	58	58	58	58	58	58	58	53	46
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	2,173	2,371	2,568	2,766	2,964	3,161	3,359	3,556	3,556	3,556
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	1,028	1,121	1,215	1,308	1,402	1,495	1,589	1,682	1,776	1,869
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	4,351	4,747	5,142	5,538	5,933	6,329	6,724	7,120	7,515	7,911
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	279	279	279	279	279	279	279	279	279	279
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	1,061	1,086	1,111	1,136	1,162	1,189	1,216	1,244	1,273	1,302
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	1,769	1,809	1,851	1,894	1,937	1,982	2,027	2,074	2,122	2,170
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	2,240	2,292	2,345	2,399	2,454	2,510	2,568	2,627	2,687	2,749
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	3,027	3,096	3,167	3,240	3,315	3,391	3,469	3,549	3,630	3,714
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	608	680	729	773	810	838	857	877	897	918
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,198	1,340	1,438	1,524	1,596	1,652	1,690	1,729	1,769	1,809
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	1,594	1,783	1,914	2,028	2,198	2,249	2,300	2,353	2,407	2,467
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	2,201	2,462	2,643	2,801	2,934	3,036	3,106	3,177	3,250	3,325
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	191	206	219	230	239	244	250	256	261	267
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	392	423	450	472	489	501	512	524	536	548
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	260	281	299	314	325	333	341	348	356	365
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	34	37	39	41	42	43	44	45	46	47
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	310	334	356	373	387	396	405	414	424	433
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	64	69	74	77	80	82	84	86	88	90
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	8	8	9	9	9	10	10	10	10	11
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	10	11	12	12	12	13	13	13	14
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	10	11	11	12	12	13	13	13	13	14
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2	2	2	2	2	2	2	3	3	3
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	24	25	25	26	27	27	28	29	29	30
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	5	6	7	7	8	9	9	9	10	10
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	5	6	7	7	8	9	9	10	10	10
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	5	6	6	7	8	8	9	9	10	10
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	5	6	6	7	8	8	9	9	10	10
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	43	48	53	58	64	69	75	80	86	92
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	589	658	728	800	874	949	1,027	1,106	1,186	1,269
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	94	106	117	128	140	152	165	177	190	204
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	791	883	978	1,075	1,174	1,275	1,378	1,484	1,593	1,704
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	52	58	65	71	78	84	91	98	105	113
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	52	53	54	55	57	58	59	61	62	64
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	358	366	374	383	392	401	410	419	429	439
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	(249)	(255)	(261)	(267)	(273)	(279)	(286)	(292)	(299)	(306)
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	426	435	445	456	466	477	488	499	510	522
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	384	393	402	411	421	431	440	451	461	472
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	461	471	482	493	505	516	528	540	553	565
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	237	242	248	254	259	265	272	278	284	291
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,121	1,147	1,173	1,200	1,228	1,256	1,285	1,314	1,345	1,376
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	885	906	927	948	970	992	1,015	1,038	1,062	1,087
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	503	514	526	538	550	563	576	589	603	617
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	950	971	994	1,017	1,040	1,064	1,088	1,113	1,139	1,165
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	615	629	644	658	673	689	705	721	738	755
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	219	224	229	234	239	245	251	256	262	268
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	358	0	0	0	0	401	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1	1	1	1	1	1	1	1	1	1
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	36	37	38	39	40	41	42	43	44	45
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	4	4	4	4	4	4	5	5	5	5
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	16	17	17	18	18	19	19	20	20	20
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	105	109	113	116	118	121	124	127	130	133
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	50	52	53	55	56	57	59	60	61	63
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	290	301	310	319	326	334	341	349	357	365
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	36	38	39	40	41	42	43	44	45	46
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1	1	1	1	1	1	1	1	1	1
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	85	88	91	94	96	98	100	102	105	107
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,073	1,198	1,326	1,458	1,592	1,684	1,765	1,834	1,891	1,934
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	662	739	818	899	982	1,039	1,089	1,132	1,166	1,193
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	538	601	666	732	799	845	886	921	949	971
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	2,520	2,815	3,117	3,425	3,741	3,956	4,147	4,310	4,443	4,545
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	2,537	2,834	3,137	3,448	3,765	3,982	4,174	4,339	4,472	4,575
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	1,611	1,800	1,993	2,190	2,392	2,529	2,651	2,756	2,840	2,906

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	543	607	672	739	807	853	894	929	958	980
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	56	58	60	62	63	64	66	67	69	71
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	117	122	125	129	132	135	138	141	144	148
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	(737)	(763)	(787)	(809)	(827)	(846)	(866)	(886)	(906)	(927)
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(4)	(4)
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	0	1	1	1	1	1	1	1	1	1
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(6)	(6)
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(16)	(17)	(17)	(18)	(18)	(18)	(19)	(19)	(20)	(20)
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(182)	(189)	(195)	(200)	(205)	(209)	(214)	(219)	(224)	(229)
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	(24)	(25)	(25)	(26)	(27)	(27)	(28)	(29)	(29)	(30)
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	(885)	(917)	(946)	(972)	(994)	(1,017)	(1,040)	(1,064)	(1,089)	(1,114)
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	3	3	3	3	3	3	3	3	3	4
323	C&I Prescriptive	VAV	Chiller & Boiler	2,037	2,169	2,276	2,357	2,411	2,466	2,523	2,581	2,640	2,701
324	C&I Prescriptive	VAV	Chiller & Boiler	(1,320)	(1,406)	(1,475)	(1,527)	(1,562)	(1,598)	(1,635)	(1,673)	(1,711)	(1,751)
325	C&I Prescriptive	VAV	Chiller & Boiler	730	777	815	844	864	883	904	925	946	968
326	C&I Prescriptive	VAV	Chiller & Boiler	(976)	(1,039)	(1,090)	(1,129)	(1,155)	(1,182)	(1,209)	(1,237)	(1,265)	(1,294)
327	C&I Prescriptive	VAV	Chiller & Boiler	1,951	2,077	2,180	2,257	2,309	2,362	2,416	2,472	2,529	2,587
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	525	559	586	607	621	635	650	665	680	696
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	885	942	988	1,023	1,047	1,071	1,096	1,121	1,147	1,173
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	394	419	440	455	466	477	487	499	510	522
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	(465)	(495)	(519)	(537)	(550)	(562)	(575)	(589)	(602)	(616)
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	(742)	(789)	(828)	(858)	(877)	(898)	(918)	(939)	(961)	(983)
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	2,114	2,250	2,362	2,445	2,501	2,559	2,618	2,678	2,740	2,803
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,257	1,338	1,404	1,454	1,488	1,522	1,557	1,593	1,629	1,667
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	(2)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	126	134	141	146	149	153	156	160	163	167
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	42	45	47	49	50	51	53	54	55	56
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	292	311	326	338	346	354	362	370	378	387
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	654	696	731	757	774	792	810	829	848	867
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(963)	(1,025)	(1,076)	(1,114)	(1,139)	(1,166)	(1,192)	(1,220)	(1,248)	(1,277)
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(150)	(160)	(168)	(174)	(178)	(182)	(186)	(191)	(195)	(199)
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	(15)	(16)	(17)	(18)	(18)	(19)	(19)	(20)	(20)	(20)
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	88	93	98	101	104	106	109	111	114	116
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	903	962	1,009	1,045	1,069	1,094	1,119	1,145	1,171	1,198
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	2,882	3,144	3,406	3,668	3,930	4,192	4,454	4,716	4,978	5,240
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	88	90	92	94	97	99	101	103	106	108
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	173	177	181	185	189	194	198	203	207	212
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	226	231	237	242	248	253	259	265	271	277
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	328	336	344	351	360	368	376	385	394	403
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	19	21	23	24	25	26	27	27	28	29
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	63	70	75	79	83	85	87	89	91	94
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	97	108	116	122	128	132	135	138	141	145
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	159	178	190	201	209	216	221	226	232	237
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4	5	5	5	5	5	5	5	5	5
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	8	8	8	8	9	9	9	9	9	10
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	10	10	11	11	11	11	12	12	12	12
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	14	14	15	15	15	16	16	16	17	17
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2	2	2	2	2	2	2	3	3	3
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3	4	4	4	4	5	5	5	5	5
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4	5	5	5	6	6	6	6	6	6
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6	7	7	7	8	8	8	8	8	9
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	39	40	40	41	42	43	44	45	46	47
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	70	72	74	75	77	79	81	83	84	86
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	91	93	95	97	99	102	104	106	109	111
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	128	131	134	137	140	143	146	150	153	157
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	14	16	17	18	19	20	20	21	21	22
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	32	36	38	40	42	44	45	46	47	48
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	41	45	48	51	53	55	56	58	59	60
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	55	61	65	69	72	75	76	78	80	82
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	72	74	76	77	79	81	83	85	87	89
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	126	129	132	135	138	141	145	148	151	155
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	161	165	169	173	177	181	185	189	194	198
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	223	228	233	239	244	250	255	261	267	273
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	31	35	37	39	41	42	43	44	45	46
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	52	58	62	65	68	71	72	74	76	77
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	66	73	78	83	87	89	91	94	96	98
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	95	107	114	120	126	130	133	136	139	142
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	104	107	109	112	114	117	119	122	125	128
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	186	191	195	199	204	209	214	218	223	229
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	239	245	250	256	262	268	274	281	287	294
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	333	341	349	357	365	374	382	391	400	409
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	45	50	53	56	59	61	62	64	65	67
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	80	90	96	101	106	109	112	114	117	120
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	102	114	121	128	134	138	142	145	148	152
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	137	153	164	173	181	187	191	196	200	205

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	54	55	56	57	59	60	61	63	64	66
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	104	107	109	112	114	117	119	122	125	128
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	136	139	142	146	149	153	156	160	163	167
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	197	202	206	211	216	221	226	231	236	242
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12	14	15	16	16	17	17	18	18	18
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	39	44	47	49	52	53	55	56	57	58
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	60	67	72	76	79	82	83	85	87	89
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	95	106	113	119	125	129	132	135	138	141
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	63	65	66	68	69	71	72	74	76	77
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	125	127	130	133	136	140	143	146	149	153
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	163	167	171	175	179	183	187	191	196	200
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	238	243	249	255	261	267	273	279	285	292
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	13	14	15	16	17	18	18	18	19	19
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	44	49	52	55	58	60	61	62	64	65
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	68	76	82	86	90	93	95	97	99	102
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	113	126	135	142	149	154	157	161	165	168
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	101	104	106	108	111	114	116	119	122	124
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	188	192	197	201	206	211	216	220	226	231
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	243	249	255	261	267	273	279	285	292	299
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	345	353	361	369	378	387	396	405	414	423
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	33	37	39	41	43	45	46	47	48	49
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	86	96	102	108	113	117	119	122	125	128
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	113	126	135	142	149	154	157	161	165	168
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	153	170	182	192	201	208	212	217	222	227
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	87	90	92	94	96	98	100	103	105	107
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	172	176	180	185	189	193	198	202	207	212
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	226	231	236	242	247	253	259	265	271	277
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	329	336	344	352	360	368	377	386	395	404
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	18	20	22	23	24	25	25	26	26	27
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	61	68	73	77	80	83	85	87	89	91
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	95	106	113	120	125	129	132	135	138	141
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	157	175	187	198	206	213	218	223	228	234
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	426	436	446	456	467	477	488	500	511	523
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	784	802	821	840	859	879	899	920	941	962
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,014	1,037	1,061	1,085	1,110	1,136	1,162	1,188	1,216	1,244
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,431	1,464	1,498	1,532	1,568	1,604	1,640	1,678	1,717	1,756
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	147	164	176	186	194	200	205	210	214	219
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	365	408	436	460	481	497	508	520	532	544
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	462	516	552	583	609	629	643	658	673	689
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	624	698	746	788	822	850	869	889	910	931
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	147	158	168	176	182	186	190	194	199	203
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	520	558	592	619	640	655	670	686	701	717
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	370	397	421	441	456	466	477	488	499	511
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17	18	19	20	21	22	22	23	23	24
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	325	349	370	388	401	410	420	429	439	449
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	157	169	179	187	194	198	203	207	212	217
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	5	5	5	5	6	6	6	6	6	6
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	18	20	21	22	23	23	24	24	25	25
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	9	9	10	10	10	11	11	11	11	12
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	6	6	7	7	7	7	8	8	8	8
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	11	13	14	15	17	18	19	20	21	22
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	3	4	4	4	5	5	6	6	6	6
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	41	44	47	49	51	52	53	55	56	57
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	99	106	112	118	122	125	127	130	133	136
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	64	69	73	77	79	81	83	85	87	89
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	6	7	7	8	8	8	8	9	9	9
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	73	79	83	87	90	92	95	97	99	101
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	15	16	17	17	18	18	19	19	20	20
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	58	63	66	69	72	73	75	77	79	80
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	104	111	118	123	128	131	134	137	140	143
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	84	90	95	100	103	105	108	110	113	115
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	19	21	22	23	24	25	25	26	26	27
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	14	16	17	19	21	23	24	25	26	27
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	7	8	8	9	10	11	12	12	13	13
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	50	53	56	59	61	62	64	65	67	68
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	122	131	139	145	150	154	157	161	165	168
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	83	89	94	99	102	105	107	109	112	115
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	8	8	9	9	9	10	10	10	10	10
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	89	96	101	106	110	112	115	118	120	123
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	18	19	20	21	22	23	23	24	24	25
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	8	8	9	9	10	10	10	10	11	11
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	15	16	17	18	18	19	19	20	20	21
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	12	12	13	14	14	15	15	15	16	16
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	3	3	3	4	4	4	4	4	4	4
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	3	3	3	4	4	4	5	5	5	5
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	1	1	2	2	2	2	2	2	2	2
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	907	974	1,032	1,080	1,117	1,143	1,169	1,196	1,224	1,252
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,554	1,669	1,770	1,852	1,915	1,959	2,004	2,051	2,098	2,146
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,010	1,085	1,150	1,204	1,245	1,274	1,303	1,333	1,363	1,395
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	162	174	184	193	199	204	209	213	218	223
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	1,326	1,425	1,510	1,580	1,634	1,672	1,710	1,750	1,790	1,831
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	286	307	326	341	353	361	369	378	386	395
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	15	17	18	18	19	19	20	20	21	21
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	18	19	20	21	22	23	23	24	24	25
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	20	22	23	24	25	26	26	27	28	28
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	3	3	3	4	4	4	4	4	4	4
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	13	14	16	18	19	21	22	23	24	25
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	7	8	9	10	11	12	12	13	14	14
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	187	201	213	223	231	236	241	247	253	258
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	321	345	365	382	395	405	414	423	433	443
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	209	224	237	249	257	263	269	275	282	288
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	32	35	37	39	40	41	42	43	44	45
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	274	294	312	326	337	345	353	361	370	378
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	58	63	66	69	72	73	75	77	79	80
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	11	12	12	13	13	14	14	14	15	15
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	13	14	15	16	16	16	17	17	18	18
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	14	15	16	17	18	18	19	19	19	20
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	2	2	2	3	3	3	3	3	3	3
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	11	12	14	15	16	18	19	19	20	21
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	6	7	8	8	9	10	10	11	11	12
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	287	308	326	341	353	361	370	378	387	396
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	959	1,031	1,092	1,143	1,182	1,210	1,237	1,266	1,295	1,325
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	679	729	773	809	836	856	875	895	916	937
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	35	37	39	41	43	44	45	46	47	48
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	614	660	699	732	757	774	792	810	829	848
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	261	281	298	311	322	329	337	345	353	361
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	8	8	9	9	10	10	10	10	11	11
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	28	30	32	34	35	36	36	37	38	39
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	14	15	16	17	17	18	18	19	19	19
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	9	9	10	10	11	11	11	11	12	12
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	11	13	14	16	17	19	20	20	21	22
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	4	4	4	5	5	6	6	6	7	7
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	232	249	264	277	286	293	299	306	313	321
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	777	835	885	926	958	980	1,003	1,026	1,049	1,073
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	550	591	626	655	678	693	709	726	742	759
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	28	30	32	33	35	35	36	37	38	39
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	498	535	567	593	613	627	642	657	672	687
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	212	227	241	252	261	267	273	279	286	292
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	14	15	16	17	17	18	18	19	19	20
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	51	55	58	61	63	64	66	67	69	70
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	25	27	29	30	31	32	33	34	34	35
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	16	17	18	19	19	20	20	20	21	21
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	6	6	7	8	8	9	10	10	11	11
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	2	2	2	2	3	3	3	3	3	3
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	270	291	308	322	333	341	349	357	365	373
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	742	797	845	885	915	936	957	979	1,002	1,025
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	512	550	583	610	631	646	660	676	691	707
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	38	41	43	45	47	48	49	50	52	53
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	517	556	589	617	638	652	667	683	699	715
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	135	145	154	161	167	171	174	178	183	187
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	116	125	132	138	143	146	150	153	157	160
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	275	295	313	327	338	346	354	362	371	379

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	182	196	207	217	225	230	235	240	246	252
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	70	75	80	83	86	88	90	92	95	97
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	41	46	51	56	61	67	70	74	76	79
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	17	19	21	23	25	27	29	30	31	32
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	68	74	78	82	84	86	88	90	92	95
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	248	266	282	296	306	313	320	327	335	343
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	177	190	202	211	218	223	229	234	239	245
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	8	8	9	9	10	10	10	10	11	11
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	154	165	175	183	189	194	198	203	207	212
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	79	85	90	94	98	100	102	104	107	109
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	34	37	39	41	42	43	44	45	46	47
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	145	156	165	173	179	183	187	192	196	200
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	65	70	74	77	80	82	83	85	87	89
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	48	51	54	57	59	60	61	63	64	66
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	80	90	99	109	119	130	137	143	148	153
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	23	25	28	31	34	37	39	40	42	43
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,063	1,142	1,210	1,266	1,310	1,340	1,371	1,402	1,434	1,467
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	2,720	2,923	3,098	3,242	3,353	3,430	3,509	3,590	3,672	3,757
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	1,860	1,998	2,118	2,217	2,293	2,345	2,399	2,454	2,511	2,569
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	158	170	180	189	195	200	204	209	214	219
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,954	2,099	2,225	2,329	2,409	2,464	2,521	2,579	2,638	2,699
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	431	463	491	513	531	543	556	568	582	595
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	206	221	234	245	254	259	265	271	278	284
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	421	452	479	502	519	531	543	555	568	581
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	309	331	351	368	380	389	398	407	417	426
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	93	100	106	111	114	117	120	122	125	128
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	156	175	193	213	232	252	266	278	289	298
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	69	78	86	94	103	112	118	124	128	132
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	103	107	109	112	115	117	120	123	125	128
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ball	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
580	C&I Prescriptive	180W LPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	31	34	38	42	45	49	52	54	57	58
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	31	34	38	42	45	49	52	54	57	58
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	26	29	32	36	39	42	44	47	48	50
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	27	30	33	37	40	43	46	48	50	51
588	C&I Prescriptive	Premium Efficiency Motor	Motors	4	5	5	6	7	7	7	8	8	8
589	C&I Prescriptive	Premium Efficiency Motor	Motors	26	29	32	35	38	40	42	44	45	46
590	C&I Prescriptive	Premium Efficiency Motor	Motors	61	68	75	82	90	95	100	104	107	109
591	C&I Prescriptive	Premium Efficiency Motor	Motors	90	101	112	123	134	142	148	154	159	163
592	C&I Prescriptive	Premium Efficiency Motor	Motors	112	125	138	152	166	176	184	191	197	202
593	C&I Prescriptive	Premium Efficiency Motor	Motors	149	167	185	203	222	235	246	256	263	269
594	C&I Prescriptive	Premium Efficiency Motor	Motors	151	168	186	205	223	236	248	257	265	271
595	C&I Prescriptive	Premium Efficiency Motor	Motors	208	233	258	283	309	327	343	356	367	376
596	C&I Prescriptive	Premium Efficiency Motor	Motors	145	162	180	198	216	228	239	249	256	262
597	C&I Prescriptive	Premium Efficiency Motor	Motors	61	68	75	83	91	96	100	104	108	110
598	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	3	3	3	3	3	4	4	4
599	C&I Prescriptive	Premium Efficiency Motor	Motors	18	21	23	25	27	29	30	32	33	33
600	C&I Prescriptive	Premium Efficiency Motor	Motors	50	56	62	69	75	79	83	86	89	91
601	C&I Prescriptive	Premium Efficiency Motor	Motors	55	62	68	75	82	86	91	94	97	99
602	C&I Prescriptive	Premium Efficiency Motor	Motors	78	87	96	106	116	122	128	133	137	140
603	C&I Prescriptive	Premium Efficiency Motor	Motors	74	82	91	100	109	116	121	126	130	133
604	C&I Prescriptive	Premium Efficiency Motor	Motors	46	51	56	62	68	72	75	78	80	82
605	C&I Prescriptive	Premium Efficiency Motor	Motors	38	42	47	51	56	59	62	65	67	68
606	C&I Prescriptive	Premium Efficiency Motor	Motors	33	37	41	45	49	52	55	57	59	60
607	C&I Prescriptive	Premium Efficiency Motor	Motors	22	24	27	30	32	34	36	37	38	39
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use =	: Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	56	63	67	71	74	77	78	80	82	84
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	23	26	28	29	31	32	32	33	34	35
614	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controle	Hot water	0	0	0	0	0	0	0	0	0	0

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Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
617	C&I Prescriptive	Domestic hot water circulation pump controls	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	2	2	2	3	3	3	3	3	3	3
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	6	6	7	8	8	9	9	9	10	10
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	37	41	45	49	54	58	60	62	63	65
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	3	3	4	4	4	5	5	5	5	5
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	28	31	34	37	40	43	45	46	47	48
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	5	5	6	6	7	7	7	8	8	8
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	36	40	44	48	52	56	58	60	61	63
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	11	12	14	15	16	18	18	19	19	20
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	(1)	(1)	(1)	(1)	(1)	(2)	(2)	(2)	(2)	(2)
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	404	452	500	550	600	635	666	692	713	729
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	71	79	87	95	103	106	110	113	116	118
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	1,282	1,432	1,586	1,743	1,903	2,013	2,110	2,193	2,261	2,313
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	46	52	57	63	69	73	76	79	82	84
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	246	262	275	285	291	298	305	312	319	326
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	415	442	464	480	491	503	514	526	538	551
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	19	20	20	21	21	22	22	23	23	24
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	73	76	78	80	82	84	85	87	89	92
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	289	322	357	392	428	465	491	514	533	549
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	58	59	60	62	63	65	66	68	69	71
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	85	87	89	91	93	95	98	100	102	104
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	32	34	36	37	38	39	40	41	42	43
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	346	354	362	370	379	387	396	405	415	424
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,677	1,785	1,873	1,940	1,984	2,030	2,077	2,124	2,173	2,223
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	606	677	750	824	900	952	998	1,037	1,069	1,094
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	183	187	191	196	200	205	209	214	219	224
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	357	365	374	382	391	400	409	419	428	438
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	474	485	496	508	519	531	544	556	569	582
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	712	728	745	762	780	798	816	835	854	874
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	21	23	25	26	27	28	29	30	30	31
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	93	104	111	117	123	127	130	133	136	139
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	158	176	188	199	208	215	219	224	230	235
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	283	316	337	356	372	384	393	402	412	421
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	65	70	75	78	81	83	84	86	88	90
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	322	346	367	384	397	406	415	425	435	445
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	239	257	272	285	295	302	308	316	323	330
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	6	6	7	7	7	7	8	8	8	8
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	175	188	199	208	215	220	225	231	236	241
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	191	205	217	227	235	240	246	252	257	263
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	21	22	24	25	26	26	27	27	28	29
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	168	181	192	201	207	212	217	222	227	232
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	48	52	55	58	60	61	62	64	65	67
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	73	78	83	87	90	92	94	96	98	100
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	73	82	91	100	109	118	125	131	136	140
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	14	16	17	19	21	22	24	25	26	26
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	6	6	7	7	7	7	7	7	8	8
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
690	C&I Prescriptive	180W LPS	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	0	0	0	0	0	0	0	0	0	0

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Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	3	3	3	3	4	4	4	4	5	5
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	3	3	4	4	4	5	5	5	6	6
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	2	2	2	2	3	3	3	3	3	3
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	2	2	2	2	3	3	3	3	3	3
698	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	2	2	2	2	2
699	C&I Prescriptive	Premium Efficiency Motor	Motors	4	5	5	6	6	7	7	7	8	8
700	C&I Prescriptive	Premium Efficiency Motor	Motors	12	14	15	17	18	20	20	21	22	22
701	C&I Prescriptive	Premium Efficiency Motor	Motors	17	19	21	23	26	27	28	29	30	31
702	C&I Prescriptive	Premium Efficiency Motor	Motors	18	20	22	24	26	27	29	30	31	32
703	C&I Prescriptive	Premium Efficiency Motor	Motors	26	30	33	36	39	41	43	45	47	48
704	C&I Prescriptive	Premium Efficiency Motor	Motors	29	32	36	39	43	45	47	49	51	52
705	C&I Prescriptive	Premium Efficiency Motor	Motors	46	51	56	62	68	72	75	78	80	82
706	C&I Prescriptive	Premium Efficiency Motor	Motors	33	37	41	45	49	52	54	56	58	59
707	C&I Prescriptive	Premium Efficiency Motor	Motors	26	30	33	36	39	42	44	45	47	48
708	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	1	1	1
709	C&I Prescriptive	Premium Efficiency Motor	Motors	4	4	5	5	6	6	6	6	7	7
710	C&I Prescriptive	Premium Efficiency Motor	Motors	11	12	14	15	16	17	18	19	19	20
711	C&I Prescriptive	Premium Efficiency Motor	Motors	12	14	15	17	18	20	20	21	22	22
712	C&I Prescriptive	Premium Efficiency Motor	Motors	12	14	15	16	18	19	20	21	21	22
713	C&I Prescriptive	Premium Efficiency Motor	Motors	15	17	19	21	22	24	25	26	27	27
714	C&I Prescriptive	Premium Efficiency Motor	Motors	11	12	13	14	16	17	17	18	19	19
715	C&I Prescriptive	Premium Efficiency Motor	Motors	13	14	16	18	19	20	21	22	23	23
716	C&I Prescriptive	Premium Efficiency Motor	Motors	10	11	12	14	15	16	17	17	18	18
717	C&I Prescriptive	Premium Efficiency Motor	Motors	14	15	17	19	20	22	23	24	24	25
718	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	2	3	3	3	3
719	C&I Prescriptive	Premium Efficiency Motor	Motors	7	7	8	9	10	10	11	11	12	12
720	C&I Prescriptive	Premium Efficiency Motor	Motors	21	23	26	28	31	32	34	35	36	37
721	C&I Prescriptive	Premium Efficiency Motor	Motors	26	29	32	35	39	41	43	45	46	47
722	C&I Prescriptive	Premium Efficiency Motor	Motors	30	33	37	40	44	47	49	51	53	54
723	C&I Prescriptive	Premium Efficiency Motor	Motors	40	45	49	54	59	63	66	68	70	72
724	C&I Prescriptive	Premium Efficiency Motor	Motors	43	48	53	58	64	68	71	74	76	78
725	C&I Prescriptive	Premium Efficiency Motor	Motors	72	81	90	98	107	114	119	124	128	131
726	C&I Prescriptive	Premium Efficiency Motor	Motors	60	67	74	82	89	94	99	103	106	108
727	C&I Prescriptive	Premium Efficiency Motor	Motors	50	56	62	69	75	79	83	86	89	91
728	C&I Prescriptive	Premium Efficiency Motor	Motors	1	1	1	1	1	1	1	2	2	2
729	C&I Prescriptive	Premium Efficiency Motor	Motors	6	7	7	8	9	9	10	10	11	11
730	C&I Prescriptive	Premium Efficiency Motor	Motors	20	22	25	27	30	31	33	34	35	36
731	C&I Prescriptive	Premium Efficiency Motor	Motors	23	26	29	31	34	36	38	39	41	42
732	C&I Prescriptive	Premium Efficiency Motor	Motors	23	26	28	31	34	36	38	39	40	41
733	C&I Prescriptive	Premium Efficiency Motor	Motors	23	25	28	31	34	36	37	39	40	41
734	C&I Prescriptive	Premium Efficiency Motor	Motors	16	18	19	21	23	25	26	27	28	28
735	C&I Prescriptive	Premium Efficiency Motor	Motors	22	25	27	30	33	35	36	38	39	40
736	C&I Prescriptive	Premium Efficiency Motor	Motors	22	24	27	29	32	34	35	37	38	39
737	C&I Prescriptive	Premium Efficiency Motor	Motors	29	32	35	39	43	45	47	49	50	52
738	C&I Prescriptive	Premium Efficiency Motor	Motors	7	8	8	9	10	11	11	12	12	12
739	C&I Prescriptive	Premium Efficiency Motor	Motors	26	30	33	36	39	42	44	45	47	48
740	C&I Prescriptive	Premium Efficiency Motor	Motors	79	88	98	107	117	124	130	135	139	142
741	C&I Prescriptive	Premium Efficiency Motor	Motors	105	118	130	143	157	166	174	180	186	190
742	C&I Prescriptive	Premium Efficiency Motor	Motors	111	124	138	151	165	175	183	190	196	201
743	C&I Prescriptive	Premium Efficiency Motor	Motors	162	181	200	220	240	254	266	276	285	292
744	C&I Prescriptive	Premium Efficiency Motor	Motors	174	194	215	236	258	272	286	297	306	313
745	C&I Prescriptive	Premium Efficiency Motor	Motors	325	363	402	441	482	510	535	556	573	586
746	C&I Prescriptive	Premium Efficiency Motor	Motors	310	346	383	421	460	486	510	530	546	558
747	C&I Prescriptive	Premium Efficiency Motor	Motors	274	306	338	372	406	430	450	468	482	494
748	C&I Prescriptive	Premium Efficiency Motor	Motors	4	5	5	6	6	6	7	7	7	7
749	C&I Prescriptive	Premium Efficiency Motor	Motors	26	29	32	35	38	40	42	44	45	46
750	C&I Prescriptive	Premium Efficiency Motor	Motors	70	78	87	95	104	110	116	120	124	127
751	C&I Prescriptive	Premium Efficiency Motor	Motors	80	89	99	109	119	125	131	137	141	144
752	C&I Prescriptive	Premium Efficiency Motor	Motors	78	87	97	106	116	123	129	134	138	141
753	C&I Prescriptive	Premium Efficiency Motor	Motors	91	102	113	124	135	143	150	156	161	164
754	C&I Prescriptive	Premium Efficiency Motor	Motors	63	70	78	86	94	99	104	108	111	114
755	C&I Prescriptive	Premium Efficiency Motor	Motors	114	127	141	155	169	179	187	195	201	205
756	C&I Prescriptive	Premium Efficiency Motor	Motors	135	151	167	184	201	212	222	231	238	244
757	C&I Prescriptive	Premium Efficiency Motor	Motors	173	194	214	236	257	272	285	297	306	313
758	C&I Prescriptive	Premium Efficiency Motor	Motors	4	5	5	6	6	7	7	7	8	8
759	C&I Prescriptive	Premium Efficiency Motor	Motors	30	34	37	41	45	47	50	52	53	55
760	C&I Prescriptive	Premium Efficiency Motor	Motors	92	103	114	125	136	144	151	157	162	166
761	C&I Prescriptive	Premium Efficiency Motor	Motors	136	152	168	185	202	214	224	233	240	246
762	C&I Prescriptive	Premium Efficiency Motor	Motors	128	143	159	174	191	202	211	220	226	232
763	C&I Prescriptive	Premium Efficiency Motor	Motors	197	221	244	268	293	310	325	338	348	356
764	C&I Prescriptive	Premium Efficiency Motor	Motors	193	216	239	263	287	303	318	330	341	348
765	C&I Prescriptive	Premium Efficiency Motor	Motors	367	410	454	499	545	576	604	628	647	662
766	C&I Prescriptive	Premium Efficiency Motor	Motors	229	255	283	311	339	359	376	391	403	412
767	C&I Prescriptive	Premium Efficiency Motor	Motors	173	193	214	235	256	271	284	296	305	312
768	C&I Prescriptive	Premium Efficiency Motor	Motors	2	2	2	2	2	2	3	3	3	3
769	C&I Prescriptive	Premium Efficiency Motor	Motors	20	22	24	27	29	31	32	34	35	35
770	C&I Prescriptive	Premium Efficiency Motor	Motors	77	86	95	105	114	121	127	132	136	139

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Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
771	C&I Prescriptive	Premium Efficiency Motor	Motors	84	94	104	115	125	132	139	144	149	152
772	C&I Prescriptive	Premium Efficiency Motor	Motors	80	90	99	109	119	126	132	137	141	145
773	C&I Prescriptive	Premium Efficiency Motor	Motors	89	100	111	121	133	140	147	153	158	161
774	C&I Prescriptive	Premium Efficiency Motor	Motors	50	56	62	69	75	79	83	86	89	91
775	C&I Prescriptive	Premium Efficiency Motor	Motors	85	95	105	116	127	134	140	146	150	154
776	C&I Prescriptive	Premium Efficiency Motor	Motors	55	62	68	75	82	86	91	94	97	99
777	C&I Prescriptive	Premium Efficiency Motor	Motors	79	88	97	107	117	124	130	135	139	142
778	C&I Custum	Compressed Air-O&M	All systems	4,318	4,389	4,471	4,565	4,670	4,777	4,887	4,999	5,114	5,232
779	C&I Custum	Compressed Air - Controls	All systems	1,028	1,045	1,065	1,087	1,112	1,137	1,164	1,190	1,218	1,246
780	C&I Custum	Compressed Air - System Optimization	All systems	3,427	3,484	3,549	3,623	3,706	3,791	3,878	3,968	4,059	4,152
781	C&I Custum	Compressed Air- Sizing	All systems	1,234	1,254	1,277	1,304	1,334	1,365	1,396	1,428	1,461	1,495
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	15	17	18	20	22	22	23	23	24	24
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	890	905	922	941	963	985	1,007	1,031	1,054	1,079
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	209	212	216	221	226	231	237	242	248	253
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	130	133	136	139	142	145	149	152	155	159
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	1,345	1,376	1,408	1,440	1,473	1,507	1,542	1,577	1,613	1,651
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	315	322	329	337	345	352	361	369	377	386
791	C&I Custum	Power recovery	All systems	42	43	44	44	45	47	48	49	50	51
792	C&I Custum	Refinery Controls	All systems	421	428	436	445	456	466	477	488	499	511
793	C&I Custum	Energy Star Transformers	All systems	9	10	11	12	13	14	15	17	18	19
794	C&I Custum	Fans - O&M	All systems	343	348	355	362	371	379	388	397	406	415
795	C&I Custum	Fans - Controls	All systems	1,218	1,238	1,261	1,287	1,317	1,347	1,378	1,410	1,442	1,475
796	C&I Custum	Fans - System Optimization	All systems	577	587	598	610	624	639	653	668	684	699
797	C&I Custum	Fans- Improve components	All systems	343	348	355	362	371	379	388	397	406	415
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	15	17	18	20	22	22	23	23	24	24
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	890	905	922	941	963	985	1,007	1,031	1,054	1,079
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	209	212	216	221	226	231	237	242	248	253
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	130	133	136	139	142	145	149	152	155	159
805	C&I Custum	Fans - ASD (100+ hp)	All systems	1,345	1,376	1,408	1,440	1,473	1,507	1,542	1,577	1,613	1,651
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	315	322	329	337	345	352	361	369	377	386
807	C&I Custum	Optimize drying process	All systems	2,121	2,156	2,196	2,242	2,294	2,346	2,400	2,456	2,512	2,570
808	C&I Custum	Pumps - O&M	All systems	1,371	1,393	1,419	1,449	1,482	1,517	1,551	1,587	1,624	1,661
809	C&I Custum	Pumps - Controls	All systems	3,599	3,658	3,726	3,804	3,891	3,981	4,072	4,166	4,262	4,360
810	C&I Custum	Pumps - System Optimization	All systems	2,647	2,691	2,741	2,798	2,863	2,929	2,996	3,065	3,135	3,207
811	C&I Custum	Pumps - Sizing	All systems	1,371	1,393	1,419	1,449	1,482	1,517	1,551	1,587	1,624	1,661
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	15	17	18	20	22	22	23	23	24	24
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	890	905	922	941	963	985	1,007	1,031	1,054	1,079
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	209	212	216	221	226	231	237	242	248	253
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	130	133	136	139	142	145	149	152	155	159
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	1,345	1,376	1,408	1,440	1,473	1,507	1,542	1,577	1,613	1,651
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	315	322	329	337	345	352	361	369	377	386
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	28	29	29	30	30	31	32	33	33	34
822	C&I Custum	Optimization refrigeration	Refrigeration	9	10	11	12	13	13	13	13	14	14
823	C&I Custum	Bakery - process	Process	30	34	37	40	43	44	45	46	47	48
824	C&I Custum	Bakery - process (mixing)	Process	11	11	12	12	12	12	13	13	13	13
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	99	109	111	113	115	117	120	123	126	129
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	51	56	57	58	59	60	62	63	65	66
830	C&I Custum	Direct drive extruders	Machine Drive	6	6	6	6	7	7	7	7	7	7
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	22	25	25	25	26	26	27	28	28	29
832	C&I Custum	Injection molding - direct drive	Machine Drive	10	11	12	12	12	12	13	13	13	13
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	8	8	8	8	9	9	9	9	10	10
835	C&I Custum	Top-heating (glass)	Process Heating	4	4	4	4	4	4	4	5	5	5
836	C&I Custum	Process controls	Process	527	536	546	557	570	583	596	610	624	638
837	C&I Custum	Efficient electric melting	Process Heating	46	51	56	61	66	71	76	82	87	93
838	C&I Custum	Near net shape casting	Machine Drive	40	44	48	53	57	58	59	60	62	63
839	C&I Custum	Optimization process (M&T)	Process	10	11	11	11	11	11	12	12	12	13
840	C&I Custum	Scheduling	Process	3	3	3	3	3	3	3	3	3	3
841	C&I Custum	Efficient curing ovens	Process Heating	2	3	3	3	3	3	4	4	4	4
842	C&I Custum	Machinery	Machine Drive	6	6	6	7	7	7	7	7	7	8
843	C&I Custum	Optimization process (M&T)	Process	4	4	5	5	5	5	5	5	5	5
844	C&I Custum	Scheduling	Process	1	1	1	1	1	1	1	1	1	1
845	C&I Custum	Efficient curing ovens	Process Heating	0	0	0	0	1	1	1	1	1	1
846	C&I Custum	Machinery	Machine Drive	7	7	7	7	7	7	7	8	8	8
847	C&I Custum	Optimization process (M&T)	Process	3	3	3	3	4	4	4	4	4	4

5: Net kW Savings

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
848	C&I Custom	Scheduling	Process	1	1	1	1	1	1	1	1	1	1
849	C&I Custom	Efficient curing ovens	Process Heating	1	1	1	1	1	1	1	1	1	1
850	C&I Custom	Machinery	Machine Drive	3	3	3	3	3	3	3	3	4	4
851	C&I Custom	Scheduling	Process	1	1	1	1	1	1	1	2	2	2
852	C&I Custom	Efficient curing ovens	Process Heating	1	1	1	1	2	2	2	2	2	2
853	C&I Custom	Machinery	Machine Drive	0	0	0	0	0	0	0	0	1	1
854	C&I Custom	Efficient processes (welding, etc.)	Process	9	10	11	12	13	14	14	14	14	15
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	67,348	69,301	71,169	72,945	74,623	76,339	78,095	79,891	81,729	83,609
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	17,377	19,534	19,969	20,422	20,891	21,372	21,863	22,366	22,881	23,407
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	19,388	21,794	22,280	22,785	23,309	23,845	24,393	24,954	25,528	26,116
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	47,500	47,500	47,500	47,500	47,500	47,500	47,500	47,500	47,500	47,500
865	Commercial Demand Credit	Commercial Demand Credit	All systems	38,000	38,000	38,000	38,000	38,000	38,000	38,000	38,000	38,000	38,000
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

7: Incentive Costs

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
ID	Program	Efficient Technology	HVAC System and/or End-use									
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	197,314	266,767	351,719	450,491	472,374	495,320	519,380	544,609
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	43,451	58,746	77,453	99,204	104,023	109,076	114,374	119,930
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	10,478	14,166	18,677	23,922	25,084	26,302	27,580	28,919
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	71,798	97,071	127,982	163,923	171,886	180,235	188,990	198,170
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	88,807	120,067	158,301	202,757	212,606	222,933	233,762	245,117
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	18,817	25,440	33,541	42,961	45,048	47,236	49,530	51,936
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	14,131	19,104	25,188	32,262	33,829	35,472	37,195	39,002
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	0	215,298	291,082	383,775	491,551	515,428	540,465	566,718	594,246
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	0	157,041	212,318	279,929	358,542	375,958	394,220	413,369	433,449
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	0	80,687	109,088	143,827	184,218	193,166	202,549	212,388	222,705
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	0	17,110	23,132	30,499	39,064	40,961	42,951	45,037	47,225
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	0	13,552	18,322	24,157	30,941	32,444	34,020	35,672	37,405
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	0	7,664	10,361	13,661	17,497	18,347	19,239	20,173	21,153
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	42,058	56,862	74,969	96,023	100,687	105,578	110,706	116,084
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	256,581	346,895	457,363	585,804	614,259	644,097	675,384	708,191
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	102,509	138,591	182,725	234,039	245,408	257,329	269,828	282,935
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	59,515	80,464	106,087	135,880	142,480	149,401	156,658	164,268
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	120,986	163,572	215,661	276,225	289,643	0	0	0
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	18,935	25,599	33,751	43,230	45,330	0	0	0
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	4,981	6,734	8,878	11,371	11,924	0	0	0
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existi	Gas Furnace / Central AC	0	179,965	243,312	320,793	410,881	430,840	0	0	0
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	9,997	13,885	18,918	25,174	32,582	34,165	35,825	37,565	39,389
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	5,884	8,172	11,134	14,816	19,176	20,108	21,085	22,109	23,183
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	3,331	4,627	6,304	8,389	10,858	11,385	11,938	12,518	13,126
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	8,553	11,879	16,185	21,537	27,875	29,229	30,649	32,138	33,699
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	7,234	10,048	13,690	18,217	23,578	24,723	25,924	27,183	28,504
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	2,898	4,025	5,484	7,297	9,444	9,903	10,384	10,889	11,418
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	40,132	55,740	75,945	101,058	130,799	137,153	143,815	150,801	158,126
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	38,552	53,546	72,955	97,080	125,651	131,754	138,154	144,865	151,902
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	16,694	23,187	31,592	42,038	54,410	57,053	59,824	62,730	65,777
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	8,462	11,441	15,084	19,321	23,979	25,144	26,365	27,646	28,989
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	77,025	106,982	145,762	193,962	251,045	263,239	276,026	289,434	303,493
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	37,298	51,804	70,583	93,923	121,565	127,470	133,662	140,154	146,962
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	40,254	55,910	76,177	101,367	131,199	137,572	144,254	151,262	158,609
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	46,044	62,251	82,075	105,124	130,471	136,808	143,454	150,422	157,729
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	303,682	311,274	319,056	327,033	335,209	343,589	352,178	360,983	370,007
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	127,537	130,725	133,993	137,343	140,777	144,296	147,903	151,601	155,391
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	94,627	96,993	99,417	101,903	104,450	107,062	109,738	112,482	115,294
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	763,262	1,011,751	1,303,770	1,628,602	1,969,855	2,065,541	2,165,874	2,271,082	2,381,399

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	143,173	189,785	244,562	305,495	369,507	387,456	406,277	426,011	446,705	468,404
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	80,967	107,327	138,304	172,762	208,963	219,113	229,756	240,917	252,619	264,890
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	579,903	768,697	990,564	1,237,362	1,496,635	1,569,334	1,645,565	1,725,498	1,809,314	1,897,201
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	83,523	110,715	142,671	178,217	215,560	226,031	237,011	248,523	260,595	273,254
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	11,545	15,304	19,721	24,635	29,796	31,244	32,761	34,353	36,022	37,771
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	8,201	10,872	14,009	17,500	21,167	22,195	23,273	24,403	25,589	26,832
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	63,571	84,267	108,589	135,644	164,066	172,036	180,392	189,155	198,343	207,978
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	15,074	15,451	15,838	16,233	16,639	17,055	17,482	17,919	18,367	18,826
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	2,828	2,898	2,971	3,045	3,121	3,199	3,279	3,361	3,445	3,531
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	1,599	1,639	1,680	1,722	1,765	1,809	1,854	1,901	1,948	1,997
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	2,331	3,237	4,411	5,869	7,597	7,966	8,353	8,758	9,184	9,630
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	1,827	2,538	3,458	4,601	5,955	6,244	6,547	6,866	7,199	7,549
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	1,033	1,435	1,955	2,602	3,368	3,531	3,703	3,883	4,071	4,269
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	5,594	7,770	10,586	14,087	18,232	19,118	20,046	21,020	22,041	23,112
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	2,689	3,735	5,088	6,771	8,764	9,189	9,636	10,104	10,595	11,109
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	5,543	7,699	10,490	13,959	18,066	18,944	19,864	20,829	21,841	22,902
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	5,301	7,363	10,031	13,349	17,277	18,116	18,996	19,919	20,887	21,901
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	4,226	5,870	7,997	10,642	13,774	14,443	15,145	15,880	16,652	17,460
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	20,710	28,765	39,192	52,152	67,500	70,779	74,217	77,822	81,602	85,566
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	54,980	76,363	104,044	138,449	179,194	187,898	197,026	206,596	216,632	227,154
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	29,504	40,978	55,832	74,295	96,160	100,831	105,728	110,864	116,249	121,896
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	630	875	1,193	1,587	2,054	2,152	2,258	2,368	2,483	2,604
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	98	136	186	247	320	336	352	369	387	406
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	2,811	3,905	5,320	7,080	9,163	9,608	10,075	10,564	11,077	11,615
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	1,590	2,208	3,009	4,004	5,182	5,434	5,697	5,974	6,264	6,569
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	7,462	10,364	14,121	18,791	24,321	25,502	26,741	28,040	29,402	30,830
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	38,899	39,871	40,868	41,890	42,937	44,011	45,111	46,239	47,395	48,579
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	22,631	23,196	23,776	24,371	24,980	25,605	26,245	26,901	27,573	28,263
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	12,999	13,324	13,657	13,999	14,349	14,707	15,075	15,452	15,838	16,234
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	9,919	13,777	18,771	24,978	32,329	33,900	35,546	37,273	39,084	40,982
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	8,849	12,290	16,745	22,283	28,840	30,241	31,710	33,250	34,866	36,559
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	3,665	5,090	6,935	9,228	11,944	12,524	13,133	13,771	14,439	15,141
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	7,553	10,490	14,293	19,019	24,616	25,812	27,066	28,381	29,759	31,205
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	9,111	12,654	17,241	22,943	29,694	31,137	32,649	34,235	35,898	37,642
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	2,870	3,987	5,432	7,228	9,355	9,809	10,286	10,785	11,309	11,859
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	7,653	10,144	13,072	16,329	19,751	20,710	21,716	22,771	23,877	25,037
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	1,422	1,885	2,429	3,034	3,848	4,035	4,231	4,437	4,652	4,878
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	1,092	1,447	1,865	2,329	2,818	2,954	3,098	3,248	3,406	3,572
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	10,902	14,451	18,622	23,262	28,136	29,503	30,936	32,438	34,014	35,666
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	1,285	1,703	2,195	2,742	3,316	3,477	3,646	3,823	4,009	4,204
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	1,214	1,609	2,073	2,590	3,132	3,284	3,444	3,611	3,787	3,971
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	23,307	30,895	39,812	49,731	60,152	63,073	66,137	69,350	72,718	76,251
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	4,372	5,795	7,468	9,329	11,283	11,831	12,406	13,009	13,641	14,303
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	2,472	3,277	4,223	5,275	6,381	6,691	7,016	7,357	7,714	8,089
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	17,708	23,473	30,248	37,784	45,701	47,921	50,249	52,690	55,249	57,933
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	59,337	78,655	101,357	126,610	153,140	160,579	168,379	176,558	185,134	194,127
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	11,131	14,754	19,013	23,750	28,726	30,121	31,585	33,119	34,728	36,415
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	6,295	8,344	10,752	13,431	16,245	17,034	17,862	18,729	19,639	20,593
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	39,404	52,233	67,309	84,078	101,696	106,636	111,816	117,247	122,942	128,914
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	68,605	92,754	122,291	156,634	194,401	203,844	0	0	0	0
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	12,224	16,527	21,790	27,910	34,639	36,322	0	0	0	0
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	812,335	832,644	853,460	874,796	896,666	919,083	942,060	965,611	989,752	1,014,495
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	66,587	68,252	69,958	71,707	73,500	75,337	77,221	79,151	81,130	83,158
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	314,345	322,204	330,259	338,515	346,978	355,652	364,544	373,657	382,999	392,574
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	33,083	33,910	34,758	35,627	36,517	37,430	38,366	39,325	40,308	41,316
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	33,391	45,144	59,520	76,235	94,617	99,213	104,032	109,086	114,385	119,941
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	38,292	51,770	68,256	87,424	108,504	113,774	119,301	125,096	131,172	137,544
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	44,042	59,544	78,506	100,552	124,797	130,860	137,216	143,881	150,870	158,199
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	46,206	62,470	82,364	105,494	130,930	137,290	143,959	150,952	158,284	165,973
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	44,514	60,183	79,348	101,631	126,136	132,263	138,688	145,425	152,489	159,896
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	53,825	72,771	95,945	122,889	152,520	159,928	167,697	175,843	184,384	193,341
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	58,384	78,935	104,072	133,298	165,439	173,475	181,902	190,737	200,003	209,718
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	62,830	84,946	111,997	143,448	178,037	186,685	195,753	205,262	215,232	225,687
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	17,404	23,529	31,022	39,734	49,315	51,710	54,222	56,856	59,618	62,514
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	23,861	32,259	42,532	54,476	67,611	70,896	74,339	77,951	81,737	85,707
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	14,872	20,106	26,509	33,953	42,140	44,187	46,334	48,584	50,944	53,419
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	3,877	5,242	6,911	8,852	10,986	11,520	12,080	12,666	13,282	13,927
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	22,865	30,913	40,758	52,204	64,791	67,938	71,238	74,699	78,327	82,132
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,200	1,622	2,139	2,739	3,400	3,565	3,738	3,920	4,110	4,310
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,027	1,388	1,830	2,344	2,909	3,051	3,199	3,354	3,517	3,688
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	700	946	1,248	1,598	1,983	2,080	2,181	2,287	2,398	2,514
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,128	1,525	2,011	2,575	3,196	3,352	3,514	3,685	3,864	4,052
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	85	115	152	195	242	253	266	279	292	306
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	423	572	754	966	1,199	1,257	1,318	1,382	1,449	1,520
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	277	374	493	631	784	822	862	903	947	993
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	220	298	392	502	624	654	686	719	754	791
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	404	546	720	923	1,145	1,201	1,259	1,320	1,385	1,452
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	396	535	706	904	1,122	1,176	1,234	1,293	1,356	1,422
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2,869	3,804	4,901	6,123	7,406	7,765	8,142	8,538	8,953	9,388
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	16,244	21,533	27,748	34,661	41,924	43,961	46,096	48,335	50,683	53,145
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2,765	3,665	4,723	5,899	7,136	7,482	7,846	8,227	8,626	9,045
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	16,033	21,253	27,387	34,210	41,379	43,389	45,496	47,706	50,024	52,453
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	2,743	3,636	4,685	5,852	7,078	7,422	7,783	8,161	8,557	8,973
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	11,107	12,231	13,460	14,804	16,270	17,060	17,889	18,758	19,669	20,625
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	31,364	34,538	38,010	41,803	45,944	48,175	50,516	52,969	55,542	58,240
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	6,115	6,734	7,410	8,150	8,957	9,392	9,849	10,327	10,829	11,355
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	24,046	26,480	29,141	32,050	35,224	36,935	38,729	40,611	42,583	44,652
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	12,207	13,442	14,793	16,270	17,881	18,750	19,660	20,615	21,617	22,667
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	11,543	12,711	13,989	15,385	16,909	17,730	18,592	19,495	20,442	21,435
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,969	3,270	3,599	3,958	4,350	4,561	4,783	5,015	5,258	5,514
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	4,862	5,354	5,892	6,480	7,122	7,468	7,831	8,211	8,610	9,028
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	11,616	12,791	14,077	15,482	17,015	17,842	18,708	19,617	20,570	21,569
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	3,155	3,475	3,824	4,205	4,622	4,846	5,082	5,329	5,588	5,859
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	11,983	13,196	14,522	15,972	17,553	18,406	19,300	20,238	21,221	22,252
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	11,291	12,433	13,683	15,049	16,539	17,343	18,185	19,068	19,995	20,966
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	4,445	4,894	5,386	5,924	6,511	6,827	7,159	7,506	7,871	8,253
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	399	439	483	532	584	613	642	674	706	741
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1,178	1,297	1,428	1,570	1,726	1,810	1,898	1,990	2,086	2,188
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	140	154	170	187	205	215	226	237	248	260
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1,183	1,302	1,433	1,576	1,732	1,816	1,905	1,997	2,094	2,196
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2,645	2,913	3,206	3,526	3,875	4,063	4,261	4,468	4,685	4,912
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	285	314	346	380	418	438	459	482	505	530
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,326	1,461	1,608	1,768	1,943	2,037	2,136	2,240	2,349	2,463
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	709	781	859	945	1,039	1,089	1,142	1,197	1,256	1,317
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	60	67	73	81	89	93	97	102	107	112
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2,014	2,217	2,440	2,684	2,949	3,093	3,243	3,401	3,566	3,739
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2,655	2,924	3,218	3,539	3,889	4,078	4,276	4,484	4,702	4,930
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	24,978	33,110	42,666	53,297	64,464	67,596	70,879	74,322	77,932	81,718
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	13,373	17,727	22,844	28,535	34,514	36,191	37,949	39,792	41,725	43,752
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	12,311	16,319	21,029	26,269	31,773	33,317	34,935	36,632	38,411	40,277
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	53,874	71,413	92,024	114,952	139,039	145,793	152,875	160,300	168,087	176,252
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	6,273	8,315	10,715	13,385	16,189	16,976	17,800	18,665	19,572	20,522
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	50,252	66,612	85,837	107,224	129,691	135,991	142,597	149,523	156,786	164,402
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	34,036	45,117	58,139	72,624	87,841	92,108	96,583	101,274	106,193	111,352

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	11,405	15,119	19,482	24,336	29,436	30,865	32,365	33,937	35,585	37,314
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	2,702	2,975	3,274	3,601	3,958	4,150	4,351	4,563	4,784	5,017
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	16,272	17,918	19,720	21,688	23,836	24,993	26,207	27,480	28,815	30,215
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	576	635	698	768	844	885	928	973	1,021	1,070
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	57,069	62,844	69,162	76,064	83,597	87,658	91,916	96,381	101,063	105,972
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	376	414	455	501	550	577	605	635	665	698
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2,014	2,218	2,441	2,684	2,950	3,093	3,243	3,401	3,566	3,739
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	434	478	526	578	636	667	699	733	769	806
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2,396	2,638	2,904	3,193	3,510	3,680	3,859	4,046	4,243	4,449
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	12,610	13,887	15,282	16,808	18,472	19,370	20,311	21,297	22,332	23,416
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	555	611	672	740	813	852	894	937	983	1,030
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	48,357	53,250	58,603	64,452	70,835	74,276	77,884	81,667	85,634	89,794
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	7,856	8,651	9,521	10,471	11,508	12,067	12,653	13,268	13,912	14,588
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1,542	1,698	1,869	2,055	2,259	2,369	2,484	2,604	2,731	2,863
323	C&I Prescriptive	VAV	Chiller & Boiler	14,932	19,794	25,507	31,861	38,538	40,410	42,372	44,431	46,589	48,852
324	C&I Prescriptive	VAV	Chiller & Boiler	4,185	5,547	7,148	8,929	10,800	11,325	11,875	12,452	13,057	13,691
325	C&I Prescriptive	VAV	Chiller & Boiler	839	1,112	1,432	1,789	2,164	2,269	2,380	2,495	2,616	2,744
326	C&I Prescriptive	VAV	Chiller & Boiler	8,445	11,194	14,425	18,019	21,794	22,853	23,963	25,127	26,348	27,628
327	C&I Prescriptive	VAV	Chiller & Boiler	3,337	4,423	5,699	7,119	8,611	9,029	9,468	9,928	10,410	10,916
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	17,637	23,379	30,127	37,633	45,519	47,730	50,048	52,479	55,029	57,702
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	2,029	2,689	3,465	4,329	5,236	5,490	5,757	6,036	6,329	6,637
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	2,971	3,939	5,075	6,340	7,668	8,041	8,431	8,841	9,270	9,721
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	6,192	8,209	10,578	13,213	15,982	16,758	17,572	18,426	19,321	20,259
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	7,784	10,318	13,296	16,608	20,088	21,064	22,087	23,160	24,285	25,465
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	3,178	4,212	5,428	6,780	8,201	8,599	9,017	9,455	9,914	10,396
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	4,290	5,687	7,328	9,154	11,072	11,609	12,173	12,765	13,385	14,035
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	100	133	171	214	259	272	285	299	313	328
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	9,697	12,854	16,564	20,691	25,026	26,242	27,516	28,853	30,255	31,724
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	3,337	4,424	5,701	7,121	8,613	9,032	9,471	9,931	10,413	10,919
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	21,495	28,493	36,717	45,864	55,475	58,169	60,995	63,958	67,065	70,322
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2,236	2,964	3,819	4,771	5,770	6,051	6,344	6,653	6,976	7,315
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	2,679	3,551	4,575	5,715	6,913	7,249	7,601	7,970	8,357	8,763
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,693	2,244	2,892	3,613	4,369	4,582	4,804	5,038	5,282	5,539
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	904	1,198	1,544	1,928	2,332	2,445	2,564	2,689	2,819	2,956
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	3,389	4,493	5,789	7,232	8,747	9,172	9,617	10,084	10,574	11,088
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	270	358	461	576	697	731	766	804	843	884
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	416,065	426,466	437,128	448,056	459,258	470,739	482,507	494,570	506,934	519,606
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	864	1,145	1,475	1,843	2,229	2,338	2,451	2,570	2,695	2,826
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,164	1,543	1,988	2,483	3,004	3,150	3,303	3,463	3,631	3,808
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,383	1,834	2,363	2,951	3,743	3,925	4,116	4,316	4,525	4,744
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,560	2,068	2,664	3,328	4,026	4,221	4,426	4,641	4,867	5,103
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,916	2,540	3,273	4,088	4,944	5,185	5,437	5,701	5,977	6,268
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,855	5,110	6,585	8,225	9,949	10,432	10,939	11,470	12,027	12,611
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,854	6,435	8,292	10,358	12,529	13,137	13,775	14,444	15,146	15,882
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,200	8,218	10,590	13,229	16,001	16,778	17,593	18,447	19,344	20,283
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	83	110	142	177	215	225	236	247	260	272
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	103	136	176	219	265	278	292	306	321	336
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	120	159	205	256	310	325	341	357	374	393
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	130	173	222	278	336	352	369	387	406	426
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	119	158	204	254	308	323	338	355	372	390
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	122	162	209	261	316	331	347	364	382	400
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	112	148	191	238	288	302	317	332	348	365
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	94	124	160	200	241	253	265	278	292	306
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	441	585	754	942	1,139	1,194	1,252	1,313	1,377	1,444
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	553	733	945	1,180	1,428	1,497	1,570	1,646	1,726	1,810
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	648	859	1,106	1,382	1,672	1,753	1,838	1,927	2,021	2,119
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	707	937	1,208	1,509	1,825	1,914	2,007	2,104	2,206	2,313
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,136	1,506	1,941	2,424	2,932	3,075	3,224	3,381	3,545	3,717
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,470	1,949	2,511	3,137	3,794	3,979	4,172	4,374	4,587	4,810
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,380	1,829	2,357	2,944	3,561	3,734	3,915	4,105	4,305	4,514
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,229	1,629	2,099	2,622	3,172	3,326	3,488	3,657	3,835	4,021
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,499	1,986	2,560	3,197	3,867	4,055	4,252	4,459	4,675	4,902
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,802	2,389	3,079	3,846	4,652	4,878	5,115	5,363	5,624	5,897
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,093	2,775	3,576	4,467	5,402	5,665	5,940	6,229	6,531	6,848
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,244	2,974	3,832	4,787	5,790	6,071	6,366	6,676	7,000	7,340
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,018	2,675	3,448	4,307	5,209	5,462	5,727	6,006	6,297	6,603
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,430	1,896	2,443	3,052	3,691	3,870	4,058	4,256	4,462	4,679
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,094	1,450	1,868	2,333	2,822	2,960	3,103	3,254	3,412	3,578
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	897	1,188	1,531	1,913	2,314	2,426	2,544	2,668	2,797	2,933
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,641	3,501	4,511	5,635	6,816	7,147	7,495	7,859	8,240	8,641
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,247	4,304	5,546	6,928	8,380	8,787	9,213	9,661	10,130	10,622
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,787	5,021	6,470	8,082	9,775	10,250	10,748	11,270	11,817	12,391
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,099	5,434	7,002	8,747	10,579	11,093	11,632	12,197	12,790	13,411
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,940	5,223	6,731	8,408	10,169	10,663	11,181	11,725	12,294	12,891
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,674	4,870	6,276	7,840	9,482	9,943	10,426	10,932	11,463	12,020
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,297	4,370	5,631	7,035	8,509	8,922	9,355	9,810	10,286	10,786
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,668	3,537	4,557	5,693	6,886	7,220	7,571	7,939	8,324	8,728

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	349	463	597	745	902	945	991	1,039	1,090	1,143
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	467	619	798	997	1,205	1,264	1,325	1,390	1,457	1,528
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	554	735	947	1,183	1,430	1,500	1,573	1,649	1,729	1,813
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	623	826	1,064	1,329	1,607	1,685	1,767	1,853	1,943	2,038
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	822	1,090	1,405	1,754	2,122	2,225	2,333	2,447	2,565	2,690
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,601	2,123	2,735	3,417	4,133	4,334	4,544	4,765	4,996	5,239
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,997	2,648	3,412	4,262	5,155	5,406	5,668	5,943	6,232	6,535
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,418	3,205	4,131	5,160	6,241	6,544	6,862	7,195	7,545	7,911
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	411	545	703	878	1,062	1,113	1,167	1,224	1,284	1,346
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	559	740	954	1,192	1,441	1,512	1,585	1,662	1,743	1,827
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	665	881	1,136	1,418	1,716	1,799	1,886	1,978	2,074	2,175
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	752	997	1,285	1,605	1,941	2,035	2,134	2,238	2,347	2,461
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	862	1,143	1,472	1,839	2,225	2,333	2,446	2,565	2,689	2,820
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,789	2,372	3,057	3,818	4,618	4,843	5,078	5,324	5,583	5,854
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,274	3,015	3,885	4,853	5,869	6,155	6,454	6,767	7,096	7,440
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,931	3,885	5,006	6,253	7,563	7,931	8,316	8,720	9,144	9,588
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	947	1,255	1,617	2,020	2,443	2,562	2,686	2,817	2,953	3,097
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,209	1,603	2,065	2,580	3,120	3,272	3,431	3,597	3,772	3,955
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,421	1,884	2,428	3,032	3,668	3,846	4,033	4,229	4,434	4,650
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,565	2,074	2,673	3,338	4,038	4,234	4,440	4,655	4,882	5,119
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,110	2,797	3,604	4,502	5,446	5,710	5,987	6,278	6,583	6,903
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,389	4,493	5,790	7,232	8,748	9,173	9,618	10,085	10,575	11,089
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,442	4,562	5,879	7,344	8,883	9,314	9,767	10,241	10,739	11,260
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,203	4,246	5,471	6,835	8,267	8,668	9,089	9,531	9,994	10,479
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	630	836	1,077	1,345	1,627	1,706	1,789	1,876	1,967	2,062
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	855	1,133	1,460	1,823	2,206	2,313	2,425	2,543	2,666	2,796
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,017	1,348	1,737	2,170	2,624	2,752	2,886	3,026	3,173	3,327
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,150	1,524	1,964	2,453	2,967	3,112	3,263	3,421	3,587	3,762
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,335	1,769	2,280	2,848	3,445	3,612	3,788	3,971	4,164	4,367
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,755	3,652	4,706	5,878	7,110	7,455	7,817	8,197	8,595	9,013
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,495	4,633	5,971	7,458	9,021	9,459	9,919	10,400	10,906	11,435
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,497	5,961	7,681	9,595	11,605	12,169	12,760	13,380	14,030	14,711
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,667	6,186	7,972	9,958	12,045	12,630	13,244	13,887	14,561	15,269
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,909	7,833	10,094	12,609	15,251	15,992	16,769	17,583	18,438	19,333
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,935	9,193	11,846	14,797	17,898	18,767	19,679	20,634	21,637	22,688
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,605	10,081	12,991	16,228	19,628	20,581	21,581	22,629	23,729	24,881
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,110	14,727	18,978	23,706	28,674	30,067	31,527	33,058	34,664	36,348
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	16,732	22,180	28,582	35,703	43,184	45,281	47,481	49,787	52,206	54,742
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	15,922	21,106	27,198	33,974	41,092	43,089	45,182	47,376	49,678	52,091
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	14,572	19,316	24,891	31,092	37,607	39,434	41,350	43,358	45,464	47,673
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	18,335	24,304	31,319	39,121	47,319	49,617	52,028	54,555	57,205	59,984
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	43,232	57,307	73,848	92,247	111,576	116,995	122,679	128,638	134,886	141,438
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	28,855	38,249	49,289	61,569	74,470	78,087	81,880	85,858	90,028	94,401
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v.	Lighting - interior	2,678	3,550	4,575	5,714	6,912	7,248	7,600	7,969	8,356	8,762
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v.	Lighting - interior	32,825	43,512	56,071	70,041	84,717	88,832	93,147	97,671	102,416	107,391
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,312	4,391	5,658	7,068	8,549	8,964	9,399	9,856	10,335	10,837
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	848	1,124	1,448	1,809	2,187	2,294	2,405	2,522	2,644	2,773
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1,808	2,396	3,088	3,857	4,666	4,892	5,130	5,379	5,640	5,914
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v.	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v.	Lighting - interior	1,340	1,777	2,289	2,860	3,459	3,627	3,803	3,988	4,182	4,385
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	359	476	614	767	928	973	1,020	1,069	1,121	1,176
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,474	1,953	2,517	3,144	3,803	3,988	4,182	4,385	4,598	4,821
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	608	807	1,039	1,298	1,570	1,647	1,727	1,810	1,898	1,991
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,428	4,544	5,855	7,314	8,847	9,277	9,727	10,200	10,695	11,215
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	5,459	7,237	9,325	11,649	14,089	14,774	15,491	16,244	17,033	17,860
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,252	4,311	5,555	6,939	8,393	8,801	9,228	9,677	10,147	10,640
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v.	Lighting - interior	677	897	1,156	1,444	1,746	1,831	1,920	2,013	2,111	2,214
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v.	Lighting - interior	4,921	6,523	8,406	10,501	12,701	13,318	13,965	14,643	15,354	16,100
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	82	109	141	176	212	223	233	245	257	269
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	7,179	9,516	12,263	15,318	18,527	19,427	20,371	21,360	22,398	23,486
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	6,786	8,995	11,591	14,479	17,513	18,364	19,256	20,191	21,172	22,201
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v.	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v.	Lighting - interior	8,755	11,605	14,955	18,681	22,595	23,692	24,843	26,050	27,315	28,642
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	696	923	1,189	1,485	1,797	1,884	1,972	2,071	2,178	2,278
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,215	1,610	2,075	2,592	3,136	3,288	3,448	3,615	3,791	3,975
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	832	1,103	1,421	1,775	2,147	2,251	2,360	2,475	2,595	2,721
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	4,843	6,420	8,273	10,334	12,500	13,107	13,744	14,411	15,111	15,845
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	7,978	10,575	13,628	17,023	20,590	21,590	22,639	23,738	24,892	26,101
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	5,089	6,746	8,693	10,859	13,134	13,772	14,441	15,142	15,878	16,649
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v.	Lighting - interior	935	1,240	1,598	1,996	2,414	2,531	2,654	2,783	2,918	3,060
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v.	Lighting - interior	7,066	9,366	12,070	15,077	18,236	19,122	20,051	21,025	22,046	23,117
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	120	159	205	256	310	325	341	357	375	393
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,148	1,522	1,961	2,449	2,963	3,106	3,257	3,416	3,581	3,755
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	1,151	1,526	1,967	2,457	2,971	3,116	3,267	3,426	3,592	3,767
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	1,427	1,891	2,437	3,044	3,682	3,861	4,048	4,245	4,451	4,667
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	131	174	224	280	339	356	373	391	410	430
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	281	372	479	599	724	759	796	835	876	918
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	185	245	316	395	478	501	526	551	578	606
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	80,049	106,110	136,736	170,804	206,593	216,629	227,151	238,185	249,755	261,887
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	75,528	100,117	129,014	161,157	194,925	204,394	214,322	224,733	235,650	247,096
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	44,029	58,364	75,209	93,947	113,633	119,153	124,940	131,009	137,373	144,046
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	18,293	24,248	31,247	39,032	47,211	49,504	51,909	54,430	57,074	59,846
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	87,052	115,393	148,699	185,747	224,668	235,581	247,025	259,024	271,606	284,799
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,759	2,332	3,005	3,753	4,540	4,761	4,992	5,234	5,488	5,755
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,067	2,740	3,531	4,410	5,335	5,594	5,865	6,150	6,449	6,762
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	1,139	1,509	1,945	2,430	2,939	3,081	3,231	3,388	3,553	3,725
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	2,324	3,081	3,970	4,959	5,999	6,290	6,595	6,916	7,252	7,604
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	82	109	140	175	212	223	233	245	257	269
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,215	1,610	2,075	2,592	3,135	3,287	3,446	3,614	3,789	3,974
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	979	1,297	1,672	2,088	2,526	2,648	2,777	2,912	3,053	3,202
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	20,421	27,069	34,881	43,572	52,702	55,262	57,946	60,761	63,713	66,807
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	19,456	25,790	33,233	41,513	50,212	52,651	55,208	57,890	60,702	63,651
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	11,370	15,071	19,422	24,260	29,344	30,769	32,264	33,831	35,474	37,198
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	4,481	5,940	7,655	9,562	11,566	12,128	12,717	13,334	13,982	14,661
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	22,299	29,559	38,090	47,580	57,550	60,345	63,276	66,350	69,573	72,953
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	437	580	747	933	1,128	1,183	1,241	1,301	1,364	1,431
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,771	2,347	3,025	3,778	4,570	4,792	5,025	5,269	5,525	5,793
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	1,026	1,360	1,752	2,189	2,648	2,776	2,911	3,053	3,201	3,356
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	2,001	2,653	3,418	4,270	5,165	5,416	5,679	5,955	6,244	6,547
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	76	100	129	162	195	205	215	225	236	248
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,257	1,667	2,148	2,683	3,245	3,402	3,568	3,741	3,923	4,113
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	998	1,323	1,705	2,130	2,576	2,701	2,833	2,970	3,115	3,266
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	23,721	31,443	40,518	50,613	61,219	64,193	67,311	70,580	74,009	77,604
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	53,120	70,414	90,738	113,345	137,095	143,754	150,737	158,059	165,737	173,787
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	35,224	46,692	60,169	75,160	90,908	95,324	99,955	104,810	109,901	115,240
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	3,607	4,781	6,161	7,696	9,308	9,761	10,235	10,732	11,253	11,800
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	41,236	54,661	70,437	87,987	106,423	111,593	117,013	122,697	128,657	134,907
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,494	4,632	5,969	7,456	9,018	9,456	9,916	10,397	10,902	11,432
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	964	1,278	1,647	2,057	2,488	2,609	2,736	2,868	3,008	3,154
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	1,845	2,445	3,151	3,936	4,761	4,992	5,235	5,489	5,756	6,035
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	1,473	1,952	2,515	3,142	3,800	3,985	4,178	4,381	4,594	4,817
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	350	464	598	747	903	947	993	1,042	1,092	1,145
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	998	1,322	1,704	2,129	2,575	2,700	2,831	2,968	3,113	3,264
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	441	584	753	940	1,137	1,192	1,250	1,311	1,375	1,442
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	19,221	25,478	32,832	41,012	49,606	52,016	54,542	57,192	59,970	62,883
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	43,044	57,057	73,525	91,844	111,089	116,485	122,143	128,076	134,298	140,821
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	28,543	37,835	48,755	60,902	73,664	77,242	80,994	84,928	89,054	93,379
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	2,923	3,874	4,992	6,236	7,543	7,909	8,293	8,696	9,118	9,561
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	33,414	44,292	57,076	71,296	86,235	90,424	94,817	99,422	104,252	109,316
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,831	3,753	4,837	6,042	7,307	7,662	8,035	8,425	8,834	9,263
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,742	2,309	2,975	3,717	4,495	4,714	4,943	5,183	5,435	5,699
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	3,333	4,418	5,694	7,112	8,602	9,020	9,458	9,918	10,400	10,905
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	2,661	3,527	4,545	5,677	6,867	7,200	7,550	7,917	8,301	8,705
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	633	838	1,080	1,350	1,633	1,712	1,795	1,882	1,974	2,069
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	495	657	846	1,057	1,279	1,341	1,406	1,474	1,546	1,621
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	219	290	374	467	565	592	621	651	683	716
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	21,647	28,694	36,976	46,189	55,867	58,581	61,426	64,410	67,539	70,819
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	39,734	52,670	67,873	84,783	102,548	107,529	112,753	118,230	123,973	129,995
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	25,695	34,060	43,891	54,826	66,314	69,535	72,913	76,455	80,169	84,063
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	3,843	5,093	6,564	8,199	9,917	10,399	10,904	11,433	11,989	12,571
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	33,594	44,530	57,383	71,680	86,700	90,911	95,327	99,958	104,813	109,904
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,237	1,640	2,114	2,640	3,193	3,349	3,511	3,682	3,861	4,048
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	13,811	18,307	23,591	29,468	35,643	37,374	39,189	41,093	43,089	45,182
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	17,394	23,057	29,711	37,114	44,891	47,071	49,358	51,755	54,269	56,905

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	18,458	24,468	31,530	39,385	47,638	49,952	52,379	54,923	57,591	60,388
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	2,758	3,656	4,711	5,885	7,118	7,464	7,827	8,207	8,606	9,024
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	3,471	4,601	5,929	7,407	8,959	9,394	9,850	10,329	10,830	11,357
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,988	2,636	3,396	4,243	5,132	5,381	5,642	5,916	6,204	6,505
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	6,268	8,309	10,707	13,375	16,178	16,964	17,788	18,652	19,558	20,508
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	15,187	20,132	25,942	32,406	39,196	41,100	43,096	45,190	47,385	49,686
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	10,171	13,483	17,374	21,703	26,251	27,526	28,863	30,265	31,735	33,276
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	896	1,188	1,531	1,913	2,314	2,426	2,544	2,667	2,797	2,933
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	11,398	15,108	19,469	24,320	29,416	30,845	32,343	33,914	35,561	37,289
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	1,256	1,666	2,146	2,681	3,243	3,400	3,565	3,739	3,920	4,111
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	4,657	6,173	7,955	9,937	12,019	12,603	13,215	13,857	14,530	15,236
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	10,516	13,940	17,964	22,439	27,141	28,459	29,842	31,291	32,811	34,405
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	7,500	9,941	12,811	16,003	19,356	20,296	21,282	22,316	23,400	24,536
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	2,143	2,840	3,660	4,572	5,530	5,799	6,081	6,376	6,686	7,010
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	7,709	10,219	13,169	16,450	19,896	20,863	21,876	22,939	24,053	25,222
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,072	4,072	5,248	6,555	7,929	8,314	8,718	9,141	9,585	10,051
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	99,693	132,149	170,290	212,718	257,290	269,788	282,893	296,635	311,044	326,153
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	170,695	226,267	291,573	364,218	440,536	461,935	484,373	507,902	532,573	558,443
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	109,417	145,039	186,901	233,467	282,387	296,104	310,487	325,569	341,384	357,966
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	18,681	24,763	31,910	39,861	48,213	50,555	53,011	55,586	58,286	61,117
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	148,690	197,098	253,985	317,265	383,744	402,385	421,931	442,426	463,917	486,451
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	3,503	4,643	5,983	7,474	9,040	9,479	9,940	10,423	10,929	11,460
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	28,725	38,077	49,067	61,292	74,135	77,736	81,512	85,471	89,623	93,976
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	31,253	41,428	53,385	66,685	80,658	84,576	88,685	92,992	97,510	102,246
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	36,640	48,568	62,587	78,180	94,561	99,155	103,971	109,022	114,317	119,870
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	4,087	5,417	6,981	8,720	10,547	11,059	11,597	12,160	12,751	13,370
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	15,381	20,388	26,273	32,818	39,695	41,623	43,645	45,765	47,988	50,319
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	9,649	12,790	16,482	20,589	24,903	26,112	27,381	28,711	30,105	31,568
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	2,224	2,948	3,798	4,745	5,739	6,018	6,310	6,616	6,938	7,275
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	4,568	6,055	7,802	9,746	11,788	12,361	12,961	13,591	14,251	14,943
580	C&I Prescriptive	180W LPS	Lighting - exterior	3,752	4,974	6,410	8,007	9,685	10,155	10,648	11,165	11,708	12,277
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	1,829	2,425	3,124	3,903	4,720	4,950	5,190	5,442	5,707	5,984
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	4,243	5,624	7,247	9,052	10,949	11,481	12,039	12,624	13,237	13,880
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	4,278	5,671	7,307	9,128	11,041	11,577	12,139	12,729	13,347	13,996
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	1,853	2,456	3,165	3,954	4,783	5,015	5,259	5,514	5,782	6,063
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	1,269	1,682	2,167	2,707	3,274	3,433	3,600	3,775	3,958	4,150
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	2,499	3,312	4,269	5,332	6,449	6,763	7,091	7,436	7,797	8,175
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	2,491	3,302	4,256	5,316	6,430	6,742	7,070	7,413	7,773	8,151
588	C&I Prescriptive	Premium Efficiency Motor	Motors	165	218	281	351	425	446	467	490	514	539
589	C&I Prescriptive	Premium Efficiency Motor	Motors	504	668	861	1,076	1,301	1,364	1,431	1,500	1,573	1,649
590	C&I Prescriptive	Premium Efficiency Motor	Motors	1,658	2,198	2,832	3,538	4,279	4,487	4,705	4,933	5,173	5,424
591	C&I Prescriptive	Premium Efficiency Motor	Motors	2,070	2,744	3,536	4,417	5,343	5,602	5,874	6,160	6,459	6,773
592	C&I Prescriptive	Premium Efficiency Motor	Motors	3,161	4,190	5,399	6,744	8,157	8,553	8,969	9,404	9,861	10,340
593	C&I Prescriptive	Premium Efficiency Motor	Motors	4,241	5,621	7,244	9,049	10,945	11,476	12,034	12,618	13,231	13,874
594	C&I Prescriptive	Premium Efficiency Motor	Motors	5,428	7,195	9,272	11,582	14,008	14,689	15,402	16,150	16,935	17,758
595	C&I Prescriptive	Premium Efficiency Motor	Motors	8,899	11,796	15,200	18,988	22,966	24,082	25,252	26,478	27,764	29,113
596	C&I Prescriptive	Premium Efficiency Motor	Motors	9,072	12,026	15,496	19,357	23,413	24,551	25,743	26,994	28,305	29,680
597	C&I Prescriptive	Premium Efficiency Motor	Motors	4,633	6,141	7,914	9,885	11,957	12,537	13,146	13,785	14,454	15,157
598	C&I Prescriptive	Premium Efficiency Motor	Motors	121	161	207	259	313	328	344	361	378	397
599	C&I Prescriptive	Premium Efficiency Motor	Motors	541	717	924	1,154	1,396	1,464	1,535	1,610	1,688	1,770
600	C&I Prescriptive	Premium Efficiency Motor	Motors	1,690	2,240	2,887	3,606	4,362	4,574	4,796	5,029	5,273	5,529
601	C&I Prescriptive	Premium Efficiency Motor	Motors	2,055	2,724	3,510	4,384	5,303	5,560	5,831	6,114	6,411	6,722
602	C&I Prescriptive	Premium Efficiency Motor	Motors	3,141	4,163	5,365	6,702	8,106	8,500	8,913	9,346	9,799	10,275
603	C&I Prescriptive	Premium Efficiency Motor	Motors	3,743	4,961	6,393	7,986	9,659	10,128	10,620	11,136	11,677	12,244
604	C&I Prescriptive	Premium Efficiency Motor	Motors	3,393	4,498	5,796	7,240	8,757	9,182	9,628	10,096	10,586	11,100
605	C&I Prescriptive	Premium Efficiency Motor	Motors	3,860	5,116	6,593	8,235	9,961	10,445	10,952	11,484	12,042	12,627
606	C&I Prescriptive	Premium Efficiency Motor	Motors	3,782	5,014	6,461	8,071	9,762	10,236	10,733	11,255	11,801	12,375
607	C&I Prescriptive	Premium Efficiency Motor	Motors	2,273	3,013	3,883	4,851	5,867	6,152	6,451	6,764	7,093	7,437
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	2,619	3,471	4,473	5,588	6,758	7,087	7,431	7,792	8,170	8,567
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	1,435	1,902	2,451	3,062	3,703	3,883	4,072	4,270	4,477	4,694
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
617	C&I Prescriptive	Domestic hot water circulation pump control	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	536	590	649	714	784	823	862	904	948	994
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	311	342	377	414	455	478	501	525	551	577
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	356	392	431	474	521	546	573	601	630	660
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	562	619	682	750	824	864	906	950	996	1,044
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	6,549	7,211	7,936	8,728	9,593	10,059	10,547	11,060	11,597	12,160
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	3,995	4,400	4,842	5,325	5,853	6,137	6,435	6,748	7,075	7,419
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	456	503	553	608	669	701	735	771	808	847
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	571	629	692	761	837	878	920	965	1,012	1,061
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	1,177	1,296	1,427	1,569	1,724	1,808	1,896	1,988	2,085	2,186
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	112	123	135	149	164	172	180	189	198	208
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	17,590	23,316	30,046	37,532	45,396	47,602	49,914	52,338	54,881	57,547
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	5,187	5,712	6,286	6,914	7,599	7,968	8,355	8,761	9,186	9,632
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	29,079	38,545	49,671	62,046	75,047	78,692	82,515	86,523	90,726	95,133
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	3,395	4,501	5,800	7,245	8,763	9,189	9,635	10,103	10,594	11,109
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	19,128	25,355	32,674	40,814	49,366	51,764	54,279	56,915	59,680	62,579
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	12,828	17,005	21,913	27,372	33,108	34,716	36,403	38,171	40,025	41,969
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	2,567	3,403	4,385	5,478	6,625	6,947	7,285	7,639	8,010	8,399
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	1,661	2,201	2,837	3,544	4,286	4,494	4,713	4,942	5,182	5,433
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	801	1,062	1,368	1,709	2,067	2,167	2,273	2,383	2,499	2,620
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	1,594	1,756	1,932	2,125	2,336	2,449	2,568	2,693	2,824	2,961
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	3,614	3,979	4,379	4,816	5,293	5,550	5,820	6,103	6,399	6,710
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	18,744	24,846	32,017	39,994	48,375	50,724	53,188	55,772	58,481	61,322
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	10,168	11,197	12,323	13,552	14,895	15,618	16,377	17,172	18,006	18,881
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	4,200	4,624	5,089	5,597	6,152	6,450	6,764	7,092	7,437	7,798
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	6,805	9,020	11,624	14,520	17,562	18,416	19,310	20,248	21,232	22,263
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	12,727	16,870	21,740	27,156	32,846	34,442	36,115	37,869	39,708	41,637
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,473	1,953	2,517	3,144	3,803	3,987	4,181	4,384	4,597	4,820
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,515	2,009	2,589	3,234	3,911	4,101	4,300	4,509	4,728	4,958
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,828	2,424	3,123	3,901	4,719	4,948	5,188	5,440	5,705	5,982
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,132	2,826	3,641	4,548	5,501	5,769	6,049	6,343	6,651	6,974
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,310	1,736	2,237	2,794	3,380	3,544	3,716	3,896	4,086	4,284
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,602	4,775	6,153	7,686	9,296	9,748	10,222	10,718	11,239	11,785
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,972	6,590	8,492	10,608	12,831	13,454	14,108	14,793	15,512	16,265
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,942	9,202	11,859	14,813	17,917	18,787	19,700	20,657	21,660	22,712
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	5,134	6,805	8,770	10,955	13,250	13,894	14,568	15,276	16,018	16,796
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	16,889	22,387	28,848	36,036	43,586	45,704	47,924	50,252	52,693	55,252
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	11,756	15,583	20,081	25,084	30,340	31,814	33,360	34,980	36,679	38,461
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	579	767	988	1,235	1,493	1,566	1,642	1,722	1,805	1,893
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	11,115	14,734	18,986	23,717	28,686	30,080	31,541	33,073	34,680	36,364
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	3,025	4,010	5,167	6,455	7,807	8,187	8,584	9,001	9,439	9,897
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	2,431	3,222	4,152	5,186	6,273	6,578	6,897	7,232	7,583	7,952
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	10,443	13,843	17,838	22,283	26,952	28,261	29,634	31,073	32,583	34,166
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	4,806	6,371	8,210	10,256	12,405	13,007	13,639	14,302	14,996	15,725
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	2,805	3,718	4,791	5,985	7,239	7,591	7,960	8,346	8,752	9,177
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	6,039	8,005	10,315	12,885	15,585	16,342	17,136	17,968	18,841	19,756
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,613	2,139	2,756	3,443	4,164	4,366	4,578	4,801	5,034	5,278
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	134	177	228	285	345	362	379	397	417	437
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	373	495	637	796	963	1,010	1,059	1,110	1,164	1,221
690	C&I Prescriptive	180W LPS	Lighting - exterior	395	524	675	843	1,019	1,069	1,121	1,175	1,232	1,292
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	83	110	142	177	214	225	235	247	259	271
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	421	559	720	899	1,088	1,141	1,196	1,254	1,315	1,379
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	266	352	454	567	686	719	754	791	829	869

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	159	211	272	340	411	431	452	473	496	521
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	147	195	251	313	379	398	417	437	458	481
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	168	222	286	358	432	453	475	499	523	548
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	169	224	289	361	436	457	480	503	527	553
698	C&I Prescriptive	Premium Efficiency Motor	Motors	36	48	61	77	93	97	102	107	112	117
699	C&I Prescriptive	Premium Efficiency Motor	Motors	80	106	137	171	207	217	227	238	250	262
700	C&I Prescriptive	Premium Efficiency Motor	Motors	341	451	582	727	879	922	966	1,013	1,063	1,114
701	C&I Prescriptive	Premium Efficiency Motor	Motors	389	516	664	830	1,004	1,053	1,104	1,157	1,214	1,273
702	C&I Prescriptive	Premium Efficiency Motor	Motors	495	656	845	1,055	1,276	1,338	1,403	1,471	1,543	1,618
703	C&I Prescriptive	Premium Efficiency Motor	Motors	735	975	1,256	1,569	1,898	1,990	2,087	2,188	2,294	2,406
704	C&I Prescriptive	Premium Efficiency Motor	Motors	1,035	1,372	1,768	2,209	2,672	2,802	2,938	3,080	3,230	3,387
705	C&I Prescriptive	Premium Efficiency Motor	Motors	1,949	2,584	3,329	4,159	5,030	5,275	5,531	5,800	6,081	6,377
706	C&I Prescriptive	Premium Efficiency Motor	Motors	2,051	2,719	3,504	4,377	5,294	5,551	5,821	6,104	6,400	6,711
707	C&I Prescriptive	Premium Efficiency Motor	Motors	2,009	2,663	3,432	4,287	5,186	5,438	5,702	5,979	6,269	6,574
708	C&I Prescriptive	Premium Efficiency Motor	Motors	32	42	54	68	82	86	90	95	99	104
709	C&I Prescriptive	Premium Efficiency Motor	Motors	110	146	188	235	285	299	313	328	344	361
710	C&I Prescriptive	Premium Efficiency Motor	Motors	368	488	628	785	950	996	1,044	1,095	1,148	1,204
711	C&I Prescriptive	Premium Efficiency Motor	Motors	464	615	792	989	1,196	1,255	1,316	1,379	1,446	1,517
712	C&I Prescriptive	Premium Efficiency Motor	Motors	488	648	834	1,042	1,261	1,322	1,386	1,454	1,524	1,598
713	C&I Prescriptive	Premium Efficiency Motor	Motors	770	1,020	1,314	1,642	1,986	2,083	2,184	2,290	2,401	2,518
714	C&I Prescriptive	Premium Efficiency Motor	Motors	787	1,044	1,345	1,680	2,032	2,131	2,234	2,343	2,457	2,576
715	C&I Prescriptive	Premium Efficiency Motor	Motors	1,325	1,756	2,263	2,827	3,419	3,585	3,759	3,942	4,134	4,334
716	C&I Prescriptive	Premium Efficiency Motor	Motors	1,145	1,517	1,955	2,442	2,954	3,098	3,248	3,406	3,571	3,745
717	C&I Prescriptive	Premium Efficiency Motor	Motors	1,438	1,906	2,456	3,068	3,711	3,891	4,080	4,279	4,487	4,704
718	C&I Prescriptive	Premium Efficiency Motor	Motors	58	77	99	124	150	157	165	173	181	190
719	C&I Prescriptive	Premium Efficiency Motor	Motors	118	156	201	251	304	319	334	350	367	385
720	C&I Prescriptive	Premium Efficiency Motor	Motors	548	726	936	1,169	1,414	1,482	1,554	1,630	1,709	1,792
721	C&I Prescriptive	Premium Efficiency Motor	Motors	537	712	918	1,146	1,386	1,454	1,524	1,598	1,676	1,758
722	C&I Prescriptive	Premium Efficiency Motor	Motors	824	1,093	1,408	1,759	2,128	2,231	2,339	2,453	2,572	2,697
723	C&I Prescriptive	Premium Efficiency Motor	Motors	1,116	1,479	1,906	2,381	2,880	3,020	3,167	3,320	3,482	3,651
724	C&I Prescriptive	Premium Efficiency Motor	Motors	1,551	2,056	2,649	3,309	4,003	4,197	4,401	4,615	4,839	5,074
725	C&I Prescriptive	Premium Efficiency Motor	Motors	3,093	4,100	5,283	6,599	7,982	8,370	8,776	9,202	9,649	10,118
726	C&I Prescriptive	Premium Efficiency Motor	Motors	3,752	4,973	6,409	8,005	9,683	10,153	10,646	11,163	11,706	12,274
727	C&I Prescriptive	Premium Efficiency Motor	Motors	3,830	5,077	6,542	8,172	9,884	10,364	10,868	11,396	11,949	12,530
728	C&I Prescriptive	Premium Efficiency Motor	Motors	53	71	91	114	138	145	152	159	167	175
729	C&I Prescriptive	Premium Efficiency Motor	Motors	176	233	300	375	454	476	499	523	549	575
730	C&I Prescriptive	Premium Efficiency Motor	Motors	669	887	1,143	1,428	1,727	1,811	1,899	1,991	2,088	2,190
731	C&I Prescriptive	Premium Efficiency Motor	Motors	861	1,141	1,471	1,837	2,222	2,330	2,444	2,562	2,687	2,817
732	C&I Prescriptive	Premium Efficiency Motor	Motors	923	1,223	1,576	1,969	2,381	2,497	2,618	2,746	2,879	3,019
733	C&I Prescriptive	Premium Efficiency Motor	Motors	1,149	1,523	1,962	2,451	2,964	3,108	3,259	3,418	3,584	3,758
734	C&I Prescriptive	Premium Efficiency Motor	Motors	1,168	1,549	1,996	2,493	3,015	3,162	3,315	3,476	3,645	3,822
735	C&I Prescriptive	Premium Efficiency Motor	Motors	2,249	2,981	3,841	4,799	5,804	6,086	6,382	6,692	7,017	7,357
736	C&I Prescriptive	Premium Efficiency Motor	Motors	2,449	3,246	4,183	5,225	6,320	6,627	6,949	7,286	7,640	8,011
737	C&I Prescriptive	Premium Efficiency Motor	Motors	2,990	3,963	5,107	6,380	7,816	8,091	8,484	8,896	9,328	9,782
738	C&I Prescriptive	Premium Efficiency Motor	Motors	252	333	430	537	649	681	714	748	785	823
739	C&I Prescriptive	Premium Efficiency Motor	Motors	461	611	787	984	1,190	1,247	1,308	1,372	1,438	1,508
740	C&I Prescriptive	Premium Efficiency Motor	Motors	2,160	2,864	3,690	4,609	5,575	5,846	6,130	6,428	6,740	7,068
741	C&I Prescriptive	Premium Efficiency Motor	Motors	2,340	3,102	3,997	4,993	6,039	6,332	6,640	6,963	7,301	7,655
742	C&I Prescriptive	Premium Efficiency Motor	Motors	3,140	4,162	5,364	6,700	8,104	8,498	8,911	9,344	9,797	10,273
743	C&I Prescriptive	Premium Efficiency Motor	Motors	4,525	5,998	7,729	9,654	11,677	12,244	12,839	13,463	14,117	14,803
744	C&I Prescriptive	Premium Efficiency Motor	Motors	6,260	8,297	10,692	13,356	16,155	16,940	17,763	18,625	19,530	20,479
745	C&I Prescriptive	Premium Efficiency Motor	Motors	13,875	18,392	23,700	29,605	35,808	37,548	39,372	41,284	43,290	45,392
746	C&I Prescriptive	Premium Efficiency Motor	Motors	19,318	25,607	32,998	41,220	49,857	52,279	54,818	57,481	60,273	63,201
747	C&I Prescriptive	Premium Efficiency Motor	Motors	20,774	27,537	35,485	44,326	53,614	56,218	58,949	61,813	64,815	67,964
748	C&I Prescriptive	Premium Efficiency Motor	Motors	241	319	412	514	622	652	684	717	752	788
749	C&I Prescriptive	Premium Efficiency Motor	Motors	752	996	1,284	1,604	1,940	2,034	2,133	2,236	2,345	2,459
750	C&I Prescriptive	Premium Efficiency Motor	Motors	2,352	3,118	4,018	5,019	6,071	6,366	6,675	7,000	7,340	7,696
751	C&I Prescriptive	Premium Efficiency Motor	Motors	2,979	3,949	5,088	6,356	7,688	8,061	8,453	8,863	9,294	9,745
752	C&I Prescriptive	Premium Efficiency Motor	Motors	3,151	4,177	5,383	6,724	8,133	8,528	8,942	9,376	9,832	10,309
753	C&I Prescriptive	Premium Efficiency Motor	Motors	4,630	6,137	7,908	9,878	11,948	12,529	13,137	13,775	14,444	15,146
754	C&I Prescriptive	Premium Efficiency Motor	Motors	4,699	6,229	8,027	10,027	12,128	12,717	13,334	13,982	14,661	15,373
755	C&I Prescriptive	Premium Efficiency Motor	Motors	11,639	15,428	19,881	24,834	30,038	31,497	33,027	34,632	36,314	38,078
756	C&I Prescriptive	Premium Efficiency Motor	Motors	15,366	20,369	26,248	32,788	39,658	41,584	43,604	45,722	47,943	50,272
757	C&I Prescriptive	Premium Efficiency Motor	Motors	18,099	23,991	30,916	38,618	46,710	48,979	51,358	53,853	56,469	59,212
758	C&I Prescriptive	Premium Efficiency Motor	Motors	160	213	274	342	414	434	455	477	500	525
759	C&I Prescriptive	Premium Efficiency Motor	Motors	596	791	1,019	1,273	1,539	1,614	1,693	1,775	1,861	1,951
760	C&I Prescriptive	Premium Efficiency Motor	Motors	2,514	3,333	4,295	5,365	6,489	6,805	7,135	7,482	7,845	8,226
761	C&I Prescriptive	Premium Efficiency Motor	Motors	3,125	4,143	5,338	6,668	8,065	8,457	8,868	9,299	9,751	10,224
762	C&I Prescriptive	Premium Efficiency Motor	Motors	3,624	4,804	6,191	7,734	9,354	9,808	10,285	10,784	11,308	11,858
763	C&I Prescriptive	Premium Efficiency Motor	Motors	5,605	7,430	9,574	11,960	14,466	15,168	15,905	16,678	17,488	18,337
764	C&I Prescriptive	Premium Efficiency Motor	Motors	6,966	9,233	11,898	14,863	17,977	18,850	19,766	20,726	21,733	22,788
765	C&I Prescriptive	Premium Efficiency Motor	Motors	15,677	20,781	26,779	33,451	40,460	42,425	44,486	46,647	48,913	51,289
766	C&I Prescriptive	Premium Efficiency Motor	Motors	14,257	18,898	24,353	30,421	36,795	38,582	40,456	42,421	44,482	46,643
767	C&I Prescriptive	Premium Efficiency Motor	Motors	13,114	17,384	22,401	27,982	33,846	35,490	37,214	39,021	40,917	42,904
768	C&I Prescriptive	Premium Efficiency Motor	Motors	93	123	159	198	240	252	264	277	290	304
769	C&I Prescriptive	Premium Efficiency Motor	Motors	575	762	982	1,227	1,484	1,556	1,632	1,711	1,794	1,881
770	C&I Prescriptive	Premium Efficiency Motor	Motors	2,580	3,419	4,406	5,504	6,657	6,981	7,320	7,675	8,048	8,439

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
771	C&I Prescriptive	Premium Efficiency Motor	Motors	3,148	4,174	5,378	6,718	8,126	8,520	8,934	9,368	9,823	10,301
772	C&I Prescriptive	Premium Efficiency Motor	Motors	3,234	4,287	5,524	6,900	8,346	8,752	9,177	9,622	10,090	10,580
773	C&I Prescriptive	Premium Efficiency Motor	Motors	4,539	6,016	7,753	9,684	11,714	12,283	12,879	13,505	14,161	14,849
774	C&I Prescriptive	Premium Efficiency Motor	Motors	3,757	4,980	6,417	8,015	9,695	10,166	10,660	11,178	11,721	12,290
775	C&I Prescriptive	Premium Efficiency Motor	Motors	8,717	11,554	14,889	18,599	22,496	23,589	24,734	25,936	27,196	28,517
776	C&I Prescriptive	Premium Efficiency Motor	Motors	6,266	8,306	10,703	13,369	16,171	16,956	17,780	18,643	19,549	20,499
777	C&I Prescriptive	Premium Efficiency Motor	Motors	8,221	10,897	14,042	17,541	21,216	22,246	23,327	24,460	25,648	26,894
778	C&I Custum	Compressed Air-O&M	All systems	94,875	97,247	99,678	102,170	104,725	109,812	115,146	120,739	126,604	132,754
779	C&I Custum	Compressed Air - Controls	All systems	102,618	105,183	107,813	110,508	113,271	118,773	124,542	130,592	136,936	143,587
780	C&I Custum	Compressed Air - System Optimization	All systems	139,689	143,181	146,760	150,429	154,190	161,680	169,534	177,769	186,404	195,458
781	C&I Custum	Compressed Air- Sizing	All systems	15,517	15,905	16,302	16,710	17,128	17,960	18,832	19,747	20,706	21,712
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	4,336	4,445	4,556	4,670	4,787	5,019	5,263	5,519	5,787	6,068
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	8,310	8,518	8,731	8,949	9,172	9,618	10,085	10,575	11,089	11,627
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	32,371	33,180	34,009	34,860	35,731	37,467	39,287	41,195	43,196	45,294
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	42,129	43,182	44,261	45,368	46,502	48,761	51,130	53,613	56,218	58,948
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	107,804	110,499	113,262	116,094	118,996	124,776	130,837	137,192	143,857	150,844
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	50,710	51,978	53,278	54,609	55,975	58,694	61,545	64,534	67,669	70,956
791	C&I Custum	Power recovery	All systems	8,890	9,112	9,340	9,574	9,813	10,290	10,790	11,314	11,863	12,440
792	C&I Custum	Refinery Controls	All systems	44,536	45,649	46,790	47,960	49,159	51,547	54,051	56,677	59,430	62,316
793	C&I Custum	Energy Star Transformers	All systems	2,106	2,159	2,213	2,268	2,325	2,438	2,556	2,680	2,810	2,947
794	C&I Custum	Fans - O&M	All systems	4,310	4,418	4,528	4,642	4,768	4,989	5,231	5,485	5,752	6,031
795	C&I Custum	Fans - Controls	All systems	263,965	270,565	277,329	284,262	291,368	305,522	320,362	335,924	352,242	369,352
796	C&I Custum	Fans - System Optimization	All systems	115,245	118,127	121,080	124,107	127,209	133,389	139,868	146,662	153,786	161,256
797	C&I Custum	Fans- Improve components	All systems	20,408	20,918	21,441	21,977	22,527	23,621	24,768	25,971	27,233	28,556
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	4,336	4,445	4,556	4,670	4,787	5,019	5,263	5,519	5,787	6,068
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	8,310	8,518	8,731	8,949	9,172	9,618	10,085	10,575	11,089	11,627
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	32,371	33,180	34,009	34,860	35,731	37,467	39,287	41,195	43,196	45,294
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	42,129	43,182	44,261	45,368	46,502	48,761	51,130	53,613	56,218	58,948
805	C&I Custum	Fans - ASD (100+ hp)	All systems	107,804	110,499	113,262	116,094	118,996	124,776	130,837	137,192	143,857	150,844
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	50,710	51,978	53,278	54,609	55,975	58,694	61,545	64,534	67,669	70,956
807	C&I Custum	Optimize drying process	All systems	373,602	382,942	392,515	402,328	412,386	432,418	453,423	475,448	498,543	522,759
808	C&I Custum	Pumps - O&M	All systems	17,241	17,672	18,114	18,567	19,031	19,955	20,925	21,941	23,007	24,124
809	C&I Custum	Pumps - Controls	All systems	180,478	184,990	189,615	194,355	199,214	208,891	219,038	229,678	240,834	252,533
810	C&I Custum	Pumps - System Optimization	All systems	373,038	382,364	391,923	401,722	411,765	431,766	452,739	474,731	497,791	521,971
811	C&I Custum	Pumps - Sizing	All systems	81,632	83,673	85,764	87,908	90,106	94,483	99,073	103,885	108,931	114,223
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	4,336	4,445	4,556	4,670	4,787	5,019	5,263	5,519	5,787	6,068
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	8,310	8,518	8,731	8,949	9,172	9,618	10,085	10,575	11,089	11,627
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	32,371	33,180	34,009	34,860	35,731	37,467	39,287	41,195	43,196	45,294
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	42,129	43,182	44,261	45,368	46,502	48,761	51,130	53,613	56,218	58,948
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	107,804	110,499	113,262	116,094	118,996	124,776	130,837	137,192	143,857	150,844
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	50,710	51,978	53,278	54,609	55,975	58,694	61,545	64,534	67,669	70,956
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	618	633	649	665	682	715	750	786	825	865
822	C&I Custum	Optimization refrigeration	Refrigeration	2,393	2,453	2,515	2,577	2,642	2,770	2,905	3,046	3,194	3,349
823	C&I Custum	Bakery - process	Process	2,571	2,635	2,701	2,769	2,838	2,976	3,120	3,272	3,431	3,598
824	C&I Custum	Bakery - process (mixing)	Process	140	143	147	151	154	162	170	178	187	196
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	1,137	1,166	1,195	1,225	1,255	1,316	1,380	1,447	1,518	1,591
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	10,785	11,054	11,331	11,614	11,904	12,483	13,089	13,725	14,391	15,090
830	C&I Custum	Direct drive extruders	Machine Drive	2,232	2,288	2,345	2,404	2,464	2,583	2,709	2,840	2,975	3,123
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	4,718	4,836	4,957	5,081	5,208	5,461	5,726	6,005	6,296	6,602
832	C&I Custum	Injection molding - direct drive	Machine Drive	3,231	3,312	3,395	3,479	3,566	3,740	3,921	4,112	4,311	4,521
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	479	491	503	515	528	554	581	609	639	670
835	C&I Custum	Top-heating (glass)	Process Heating	289	296	303	311	319	334	350	367	385	404
836	C&I Custum	Process controls	Process	4,951	5,074	5,201	5,331	5,464	5,730	6,008	6,300	6,606	6,927
837	C&I Custum	Efficient electric melting	Process Heating	9,836	10,082	10,334	10,592	10,857	11,385	11,938	12,517	13,125	13,763
838	C&I Custum	Near net shape casting	Machine Drive	2,186	2,240	2,296	2,354	2,412	2,530	2,653	2,781	2,917	3,058
839	C&I Custum	Optimization process (M&T)	Process	421	432	443	454	465	488	511	536	562	590
840	C&I Custum	Scheduling	Process	369	379	388	398	408	427	448	470	493	517
841	C&I Custum	Efficient curing ovens	Process Heating	617	632	648	664	681	714	749	785	823	863
842	C&I Custum	Machinery	Machine Drive	793	813	833	854	875	918	963	1,009	1,058	1,110
843	C&I Custum	Optimization process (M&T)	Process	180	185	189	194	199	208	219	229	240	252
844	C&I Custum	Scheduling	Process	158	162	166	170	174	183	192	201	211	221
845	C&I Custum	Efficient curing ovens	Process Heating	92	94	96	99	101	106	111	117	122	128
846	C&I Custum	Machinery	Machine Drive	838	859	880	902	925	970	1,017	1,066	1,118	1,172
847	C&I Custum	Optimization process (M&T)	Process	133	136	139	143	146	154	161	169	177	186

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
848	C&I Custom	Scheduling	Process	145	149	153	157	160	168	176	185	194	203
849	C&I Custom	Efficient curing ovens	Process Heating	153	157	161	165	169	177	186	195	205	214
850	C&I Custom	Machinery	Machine Drive	225	230	236	242	248	260	273	286	300	315
851	C&I Custom	Scheduling	Process	184	189	193	198	203	213	223	234	245	257
852	C&I Custom	Efficient curing ovens	Process Heating	277	284	291	298	306	321	336	352	370	388
853	C&I Custom	Machinery	Machine Drive	107	110	113	116	119	124	130	137	143	150
854	C&I Custom	Efficient processes (welding, etc.)	Process	1,202	1,232	1,263	1,295	1,327	1,391	1,459	1,530	1,604	1,682
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	915,395	1,050,857	1,197,571	1,356,327	1,527,962	1,686,299	1,854,430	2,032,883	2,222,214	2,423,007
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	0	0	404,771	422,845	441,717	463,173	485,672	509,263	534,001	559,940
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	0	0	390,102	407,521	425,709	446,387	468,071	490,807	514,648	539,647
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	1,998,750	2,048,719	2,099,937	2,152,435	2,206,246	2,261,402	2,317,937	2,375,886	2,435,283	2,496,165
865	Commercial Demand Credit	Commercial Demand Credit	All systems	205,000	210,125	215,378	220,763	226,262	231,939	237,737	243,681	249,773	256,017
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	598,802	627,889	658,389	690,370	723,905	759,068	795,940	834,603	875,144	917,654
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	131,864	138,269	144,986	152,028	159,413	167,157	175,276	183,790	192,718	202,079
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	31,797	33,342	34,961	36,660	38,440	40,307	42,265	44,318	46,471	48,729
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	217,890	228,474	239,572	251,210	263,412	276,207	289,624	303,693	318,445	333,913
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	269,509	282,600	296,327	310,721	325,815	341,641	358,236	375,638	393,884	413,017
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	57,104	59,878	62,787	65,837	69,035	72,388	75,904	79,591	83,457	87,511
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	42,883	44,966	47,150	49,440	51,842	54,360	57,001	59,770	62,673	65,717
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	653,379	685,117	718,397	753,293	789,884	828,253	868,485	910,672	954,908	1,001,292
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	476,581	499,731	524,005	549,459	576,149	604,135	633,481	664,253	696,519	730,352
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	244,866	256,760	269,232	282,310	296,023	310,403	325,481	341,291	357,869	375,253
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	51,924	54,447	57,091	59,865	62,772	65,822	69,019	72,372	75,887	79,573
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	41,127	43,125	45,219	47,416	49,719	52,134	54,667	57,322	60,107	63,026
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	23,258	24,388	25,572	26,815	28,117	29,483	30,915	32,417	33,991	35,642
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	127,636	133,835	140,336	147,153	154,301	161,796	169,656	177,897	186,538	195,599
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	778,662	816,486	856,147	897,734	941,342	987,067	1,035,014	1,085,290	1,138,008	1,193,286
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	311,090	326,201	342,046	358,661	376,083	394,352	413,507	433,593	454,655	476,740
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	180,614	189,387	198,587	208,233	218,348	228,954	240,076	251,738	263,966	276,788
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	43,309	45,413	47,619	49,932	52,357	54,901	57,567	60,364	63,296	66,370
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	25,490	26,728	28,026	29,388	30,815	32,312	33,882	35,527	37,253	39,063
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	14,432	15,133	15,868	16,639	17,448	18,295	19,184	20,116	21,093	22,117
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	37,052	38,852	40,739	42,718	44,793	46,969	49,250	51,643	54,151	56,782
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	31,340	32,862	34,459	36,132	37,888	39,728	41,658	43,681	45,803	48,028
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	12,554	13,164	13,803	14,474	15,177	15,914	16,687	17,497	18,347	19,239
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	173,861	182,306	191,162	200,448	210,184	220,394	231,100	242,325	254,096	266,439
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	167,018	175,131	183,638	192,558	201,911	211,719	222,003	232,787	244,095	255,952
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	72,323	75,836	79,520	83,382	87,433	91,680	96,133	100,803	105,699	110,833
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	31,874	33,422	35,045	36,748	38,533	40,404	42,367	44,425	46,583	48,846
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	333,694	349,903	366,900	384,722	403,410	423,005	443,553	465,098	487,690	511,380
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	161,586	169,436	177,666	186,296	195,345	204,834	214,784	225,217	236,157	247,628
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	174,392	182,863	191,746	201,060	210,827	221,067	231,806	243,066	254,873	267,253
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	173,425	181,849	190,682	199,944	209,657	219,841	230,519	241,717	253,458	265,770
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	388,739	398,458	408,419	418,630	429,095	439,823	450,818	462,089	473,641	485,482
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	163,258	167,339	171,523	175,811	180,206	184,711	189,329	194,062	198,914	203,886
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	121,130	124,159	127,263	130,444	133,705	137,048	140,474	143,986	147,586	151,275
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	2,618,371	2,745,559	2,878,924	3,018,768	3,165,405	3,319,164	3,480,393	3,649,453	3,826,725	4,012,608

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	491,156	515,014	540,031	566,263	593,769	622,612	652,855	684,567	717,820	752,688
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	277,757	291,249	305,397	320,232	335,787	352,098	369,201	387,135	405,940	425,658
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	1,989,358	2,085,991	2,187,318	2,293,567	2,404,977	2,521,799	2,644,295	2,772,742	2,907,428	3,048,656
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	286,527	300,445	315,039	330,342	346,389	363,214	380,858	399,358	418,757	439,098
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	39,606	41,530	43,547	45,663	47,881	50,206	52,645	55,202	57,884	60,696
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	28,135	29,502	30,935	32,438	34,013	35,665	37,398	39,214	41,119	43,117
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	218,080	228,673	239,781	251,429	263,642	276,448	289,877	303,957	318,722	334,204
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	19,296	19,779	20,273	20,780	21,300	21,832	22,378	22,937	23,511	24,099
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	3,620	3,710	3,803	3,898	3,995	4,095	4,198	4,303	4,410	4,520
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	2,047	2,098	2,151	2,204	2,259	2,316	2,374	2,433	2,494	2,556
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	10,098	10,588	11,102	11,642	12,207	12,800	13,422	14,074	14,757	15,474
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	7,915	8,300	8,703	9,126	9,569	10,034	10,521	11,032	11,568	12,130
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	4,476	4,694	4,922	5,161	5,411	5,674	5,950	6,239	6,542	6,860
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	24,235	25,412	26,646	27,940	29,298	30,721	32,213	33,778	35,419	37,139
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	11,649	12,215	12,808	13,430	14,083	14,767	15,484	16,236	17,025	17,852
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	24,014	25,181	26,404	27,687	29,031	30,442	31,920	33,471	35,097	36,802
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	22,965	24,081	25,250	26,477	27,763	29,112	30,526	32,009	33,563	35,194
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	18,309	19,198	20,130	21,108	22,134	23,209	24,336	25,518	26,758	28,058
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	89,722	94,080	98,650	103,442	108,467	113,736	119,260	125,053	131,128	137,497
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	238,188	249,759	261,891	274,612	287,951	301,938	316,605	331,984	348,110	365,020
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	127,817	134,026	140,536	147,363	154,521	162,027	169,897	178,150	186,804	195,878
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	2,730	2,863	3,002	3,148	3,301	3,461	3,629	3,805	3,990	4,184
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	425	446	468	491	514	539	566	593	622	652
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	12,180	12,771	13,392	14,042	14,724	15,439	16,189	16,976	17,800	18,665
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	6,888	7,222	7,573	7,941	8,327	8,731	9,155	9,600	10,066	10,555
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	32,328	33,898	35,545	37,271	39,082	40,980	42,971	45,058	47,247	49,542
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	49,794	51,039	52,315	53,623	54,963	56,337	57,746	59,189	60,669	62,186
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	28,969	29,693	30,436	31,197	31,977	32,776	33,595	34,435	35,296	36,178
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	16,640	17,056	17,482	17,919	18,367	18,827	19,297	19,780	20,274	20,781
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	42,973	45,060	47,249	49,544	51,951	54,474	57,120	59,895	62,804	65,855
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	38,335	40,197	42,150	44,197	46,344	48,595	50,956	53,431	56,026	58,748
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	15,876	16,648	17,456	18,304	19,193	20,126	21,103	22,128	23,203	24,330
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	32,721	34,310	35,977	37,724	39,557	41,478	43,493	45,605	47,821	50,144
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	39,470	41,388	43,398	45,506	47,717	50,034	52,465	55,013	57,686	60,488
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	12,435	13,039	13,672	14,336	15,032	15,763	16,528	17,331	18,173	19,056
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	26,253	27,528	28,865	30,267	31,738	33,279	34,896	36,591	38,368	40,232
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	4,878	5,115	5,364	5,624	5,898	6,184	6,484	6,799	7,130	7,476
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	3,745	3,927	4,118	4,318	4,528	4,748	4,978	5,220	5,474	5,739
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	37,399	39,215	41,120	43,118	45,212	47,408	49,711	52,126	54,658	57,313
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	4,408	4,622	4,846	5,082	5,329	5,588	5,859	6,144	6,442	6,755
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	4,164	4,366	4,578	4,800	5,033	5,278	5,534	5,803	6,085	6,381
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	79,955	83,838	87,911	92,181	96,659	101,354	106,277	111,440	116,853	122,529
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	14,998	15,726	16,490	17,291	18,131	19,012	19,936	20,904	21,919	22,984
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	8,482	8,894	9,326	9,779	10,254	10,752	11,274	11,822	12,396	12,998
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	60,747	63,698	66,792	70,036	73,438	77,006	80,746	84,668	88,781	93,094
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	203,557	213,444	223,813	234,684	246,084	258,038	270,572	283,715	297,496	311,947
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	38,183	40,038	41,983	44,022	46,161	48,403	50,754	53,219	55,805	58,515
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	21,593	22,642	23,742	24,895	26,105	27,373	28,702	30,097	31,558	33,091
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	135,176	141,742	148,627	155,847	163,417	171,355	179,679	188,407	197,559	207,155
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	1,039,858	1,065,854	1,092,501	1,119,813	1,147,808	1,176,504	1,205,916	1,236,064	1,266,966	1,298,640
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	85,237	87,368	89,553	91,791	94,086	96,438	98,849	101,320	103,853	106,450
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	402,388	412,448	422,759	433,328	444,161	455,265	466,647	478,313	490,271	502,528
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	42,349	43,408	44,493	45,605	46,745	47,914	49,112	50,340	51,598	52,888
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	125,767	131,876	138,282	144,999	152,042	159,428	167,172	175,293	183,807	192,736
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	144,225	151,231	158,577	166,280	174,357	182,827	191,707	201,020	210,784	221,023
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	165,883	173,941	182,390	191,250	200,540	210,281	220,496	231,206	242,437	254,213
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	174,035	182,489	191,353	200,648	210,395	220,614	231,331	242,568	254,350	266,706
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	167,663	175,807	184,347	193,302	202,691	212,537	222,861	233,687	245,038	256,941
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	202,732	212,580	222,906	233,734	245,087	256,992	269,476	282,565	296,291	310,683
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	219,905	230,587	241,787	253,532	265,847	278,761	292,302	306,500	321,389	337,000
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	236,650	248,145	260,199	272,838	286,091	299,988	314,560	329,840	345,862	362,662
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	65,550	68,735	72,073	75,574	79,245	83,095	87,131	91,363	95,801	100,455
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	89,871	94,236	98,814	103,613	108,646	113,924	119,458	125,260	131,345	137,725
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	56,014	58,735	61,588	64,579	67,716	71,006	74,455	78,071	81,864	85,840
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	14,603	15,313	16,057	16,837	17,654	18,512	19,411	20,354	21,343	22,379
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	86,121	90,305	94,691	99,291	104,114	109,171	114,474	120,035	125,866	131,980
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	4,519	4,739	4,969	5,210	5,463	5,729	6,007	6,299	6,605	6,926
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	3,867	4,055	4,252	4,458	4,675	4,902	5,140	5,390	5,652	5,926
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	2,636	2,764	2,899	3,039	3,187	3,342	3,504	3,674	3,853	4,040
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	4,249	4,455	4,671	4,898	5,136	5,386	5,647	5,922	6,209	6,511
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	321	337	353	370	388	407	427	448	469	492
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	1,594	1,671	1,752	1,837	1,927	2,020	2,118	2,221	2,329	2,442
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	1,042	1,092	1,145	1,201	1,259	1,320	1,384	1,452	1,522	1,596
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	829	869	911	956	1,002	1,051	1,102	1,155	1,212	1,270
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	1,522	1,596	1,674	1,755	1,840	1,930	2,024	2,122	2,225	2,333
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	1,491	1,564	1,640	1,719	1,803	1,890	1,982	2,079	2,179	2,285
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	9,844	10,322	10,823	11,349	11,900	12,478	13,084	13,720	14,386	15,085
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	55,727	58,434	61,272	64,248	67,369	70,642	74,073	77,671	81,444	85,400
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	9,485	9,946	10,429	10,935	11,466	12,023	12,607	13,220	13,862	14,535
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	55,001	57,673	60,475	63,412	66,492	69,722	73,109	76,660	80,384	84,289
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	9,409	9,866	10,345	10,848	11,375	11,927	12,506	13,114	13,751	14,419
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	21,626	22,677	23,778	24,934	26,145	27,415	28,746	30,143	31,607	33,142
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	61,069	64,036	67,146	70,408	73,828	77,414	81,175	85,118	89,252	93,588
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	11,906	12,484	13,091	13,727	14,394	15,093	15,826	16,595	17,401	18,246
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	46,821	49,095	51,480	53,980	56,602	59,352	62,235	65,258	68,428	71,752
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	23,768	24,922	26,133	27,402	28,733	30,129	31,593	33,127	34,737	36,424
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	22,476	23,568	24,713	25,913	27,172	28,491	29,875	31,327	32,848	34,444
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	5,782	6,063	6,357	6,666	6,990	7,329	7,685	8,058	8,450	8,860
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	9,467	9,927	10,409	10,914	11,444	12,000	12,583	13,195	13,835	14,508
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	22,617	23,716	24,868	26,076	27,342	28,670	30,063	31,523	33,055	34,660
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	6,144	6,442	6,755	7,083	7,427	7,788	8,166	8,563	8,979	9,415
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	23,332	24,466	25,654	26,900	28,207	29,577	31,014	32,520	34,100	35,757
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	21,984	23,052	24,172	25,346	26,577	27,868	29,222	30,641	32,130	33,691
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	8,654	9,075	9,515	9,978	10,462	10,971	11,503	12,062	12,648	13,263
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	777	814	854	895	939	985	1,032	1,083	1,135	1,190
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	2,294	2,406	2,522	2,645	2,773	2,908	3,049	3,197	3,353	3,516
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	273	286	300	315	330	346	363	380	399	418
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	2,302	2,414	2,532	2,655	2,784	2,919	3,060	3,209	3,365	3,529
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	5,151	5,401	5,663	5,938	6,227	6,529	6,847	7,179	7,528	7,894
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	555	582	611	640	671	704	738	774	812	851
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2,583	2,708	2,840	2,978	3,122	3,274	3,433	3,600	3,775	3,958
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	1,381	1,448	1,518	1,592	1,669	1,750	1,835	1,924	2,018	2,116
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	118	123	129	136	142	149	156	164	172	180
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	3,921	4,111	4,311	4,520	4,740	4,970	5,211	5,464	5,730	6,008
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	5,170	5,421	5,684	5,960	6,250	6,553	6,872	7,206	7,556	7,923
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	85,687	89,850	94,214	98,791	103,589	108,621	113,897	119,430	125,231	131,314
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	45,877	48,106	50,443	52,893	55,462	58,156	60,981	63,943	67,049	70,306
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	42,234	44,285	46,436	48,692	51,057	53,537	56,138	58,865	61,724	64,722
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	184,813	193,791	203,204	213,075	223,425	234,278	245,658	257,590	270,103	283,223
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	21,519	22,564	23,661	24,810	26,015	27,279	28,604	29,993	31,450	32,978
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	172,388	180,762	189,542	198,749	208,404	218,527	229,142	240,275	251,943	264,182
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	116,761	122,432	128,380	134,616	141,154	148,011	155,201	162,740	170,645	178,934

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	39,126	41,027	43,020	45,110	47,301	49,598	52,008	54,534	57,183	59,960
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	5,260	5,516	5,784	6,065	6,359	6,668	6,992	7,332	7,688	8,061
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	31,683	33,222	34,835	36,528	38,302	40,162	42,113	44,159	46,304	48,553
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	1,122	1,177	1,234	1,294	1,357	1,422	1,492	1,564	1,640	1,720
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	111,119	116,517	122,177	128,112	134,335	140,860	147,702	154,877	162,400	170,289
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	732	767	804	843	884	927	972	1,020	1,069	1,121
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	3,921	4,112	4,311	4,521	4,740	4,971	5,212	5,465	5,731	6,009
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	845	886	929	974	1,022	1,071	1,123	1,178	1,235	1,295
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4,665	4,892	5,129	5,379	5,640	5,914	6,201	6,502	6,818	7,149
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	24,554	25,747	26,997	28,309	29,684	31,126	32,637	34,223	35,885	37,628
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	1,080	1,133	1,188	1,246	1,306	1,370	1,436	1,506	1,579	1,656
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	94,156	98,729	103,525	108,554	113,827	119,356	125,154	131,233	137,608	144,292
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	15,297	16,040	16,819	17,636	18,493	19,391	20,333	21,320	22,356	23,442
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	3,003	3,148	3,301	3,462	3,630	3,806	3,991	4,185	4,388	4,601
323	C&I Prescriptive	VAV	Chiller & Boiler	51,225	53,713	56,322	59,058	61,927	64,935	68,089	71,397	74,865	78,501
324	C&I Prescriptive	VAV	Chiller & Boiler	14,356	15,053	15,784	16,551	17,355	18,198	19,082	20,009	20,981	22,000
325	C&I Prescriptive	VAV	Chiller & Boiler	2,877	3,017	3,163	3,317	3,478	3,647	3,824	4,010	4,204	4,409
326	C&I Prescriptive	VAV	Chiller & Boiler	28,970	30,377	31,852	33,400	35,022	36,723	38,507	40,378	42,339	44,395
327	C&I Prescriptive	VAV	Chiller & Boiler	11,446	12,002	12,585	13,196	13,837	14,509	15,214	15,953	16,728	17,541
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	60,504	63,443	66,525	69,757	73,145	76,698	80,424	84,330	88,427	92,722
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	6,959	7,297	7,652	8,024	8,413	8,822	9,250	9,700	10,171	10,665
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	10,193	10,688	11,207	11,752	12,322	12,921	13,549	14,207	14,897	15,620
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	21,243	22,275	23,357	24,492	25,682	26,929	28,237	29,609	31,047	32,555
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	26,702	27,999	29,359	30,785	32,280	33,848	35,493	37,217	39,024	40,920
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	10,901	11,430	11,986	12,568	13,178	13,818	14,490	15,193	15,931	16,705
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	14,717	15,431	16,181	16,967	17,791	18,655	19,562	20,512	21,508	22,553
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	344	361	379	397	416	436	458	480	503	528
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	33,265	34,881	36,575	38,352	40,215	42,168	44,217	46,365	48,617	50,978
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	11,449	12,005	12,589	13,200	13,841	14,514	15,219	15,958	16,733	17,546
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	73,738	77,320	81,076	85,014	89,144	93,474	98,014	102,775	107,768	113,002
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	7,670	8,042	8,433	8,843	9,272	9,720	10,195	10,690	11,210	11,754
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	9,189	9,635	10,103	10,594	11,108	11,648	12,214	12,807	13,429	14,082
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	5,808	6,090	6,386	6,696	7,021	7,362	7,720	8,095	8,488	8,901
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	3,100	3,251	3,408	3,574	3,748	3,930	4,120	4,321	4,531	4,751
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	11,626	12,191	12,783	13,404	14,055	14,738	15,454	16,205	16,992	17,817
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	926	971	1,019	1,068	1,120	1,174	1,232	1,291	1,354	1,420
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	532,598	545,913	559,561	573,550	587,898	602,596	617,650	633,082	648,919	665,142
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,963	3,107	3,258	3,416	3,582	3,756	3,939	4,130	4,331	4,541
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,993	4,187	4,390	4,603	4,827	5,061	5,307	5,565	5,835	6,119
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,745	4,976	5,217	5,471	5,736	6,015	6,307	6,614	6,935	7,272
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,351	5,611	5,883	6,169	6,469	6,783	7,112	7,458	7,820	8,200
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,572	6,892	7,226	7,577	7,945	8,331	8,736	9,160	9,605	10,072
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	13,224	13,866	14,540	15,246	15,987	16,763	17,578	18,431	19,327	20,266
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	16,653	17,462	18,310	19,200	20,132	21,110	22,136	23,211	24,339	25,521
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	21,268	22,302	23,385	24,521	25,712	26,961	28,270	29,644	31,084	32,593
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	285	299	314	329	345	362	379	398	417	437
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	353	370	388	407	426	447	469	491	515	540
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	412	432	453	475	498	522	547	574	602	631
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	447	468	491	515	540	566	594	623	653	685
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	409	429	450	472	495	519	544	570	598	627
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	420	440	462	484	508	532	558	585	614	643
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	383	401	421	441	463	485	509	534	559	587
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	321	337	353	370	388	407	427	447	469	492
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,514	1,588	1,665	1,745	1,830	1,919	2,012	2,110	2,213	2,320
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,897	1,990	2,086	2,188	2,294	2,405	2,522	2,645	2,773	2,908
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,222	2,330	2,443	2,562	2,686	2,817	2,954	3,097	3,248	3,405
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,426	2,544	2,667	2,797	2,933	3,075	3,224	3,381	3,545	3,718
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,898	4,087	4,285	4,494	4,712	4,941	5,181	5,432	5,696	5,973
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5,043	5,288	5,545	5,815	6,097	6,393	6,704	7,029	7,371	7,729
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,733	4,963	5,204	5,457	5,722	6,000	6,291	6,597	6,917	7,253
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,216	4,421	4,636	4,861	5,097	5,345	5,604	5,876	6,162	6,461
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,141	5,390	5,652	5,927	6,215	6,516	6,833	7,165	7,513	7,878
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,183	6,484	6,799	7,129	7,475	7,838	8,219	8,618	9,037	9,476
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,181	7,530	7,896	8,279	8,681	9,103	9,545	10,009	10,495	11,005
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,696	8,070	8,462	8,873	9,304	9,756	10,230	10,727	11,248	11,795
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,924	7,260	7,613	7,983	8,371	8,777	9,204	9,651	10,119	10,611
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,906	5,145	5,394	5,657	5,931	6,219	6,521	6,838	7,170	7,519
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,752	3,934	4,125	4,325	4,535	4,756	4,987	5,229	5,483	5,749
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,075	3,225	3,382	3,546	3,718	3,899	4,088	4,287	4,495	4,713
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	9,060	9,500	9,962	10,446	10,953	11,485	12,043	12,628	13,242	13,885
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	11,138	11,679	12,247	12,842	13,465	14,119	14,805	15,524	16,279	17,069
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	12,993	13,624	14,286	14,980	15,708	16,471	17,271	18,109	18,989	19,912
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	14,062	14,745	15,462	16,213	17,000	17,826	18,692	19,600	20,552	21,550
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	13,518	14,174	14,863	15,585	16,342	17,135	17,968	18,841	19,756	20,715
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12,604	13,216	13,858	14,531	15,237	15,978	16,754	17,567	18,421	19,316
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,310	11,859	12,435	13,039	13,673	14,337	15,033	15,763	16,529	17,332
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	9,152	9,597	10,063	10,552	11,065	11,602	12,166	12,757	13,376	14,026

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,198	1,257	1,318	1,382	1,449	1,519	1,593	1,670	1,751	1,836
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,602	1,680	1,762	1,847	1,937	2,031	2,130	2,233	2,342	2,456
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,901	1,994	2,090	2,192	2,298	2,410	2,527	2,650	2,779	2,914
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,136	2,240	2,349	2,463	2,583	2,708	2,840	2,978	3,122	3,274
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,821	2,958	3,101	3,252	3,410	3,576	3,749	3,931	4,122	4,323
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5,494	5,760	6,040	6,334	6,641	6,964	7,302	7,657	8,029	8,419
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,852	7,185	7,534	7,900	8,284	8,686	9,108	9,551	10,015	10,501
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,296	8,699	9,121	9,564	10,029	10,516	11,027	11,562	12,124	12,713
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,411	1,480	1,552	1,627	1,706	1,789	1,876	1,967	2,063	2,163
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,916	2,009	2,107	2,209	2,316	2,429	2,547	2,671	2,800	2,936
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,281	2,391	2,507	2,629	2,757	2,891	3,031	3,179	3,333	3,495
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,580	2,706	2,837	2,975	3,119	3,271	3,430	3,596	3,771	3,954
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,957	3,101	3,251	3,409	3,575	3,748	3,930	4,121	4,322	4,531
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,139	6,437	6,750	7,077	7,421	7,782	8,160	8,556	8,972	9,407
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,802	8,181	8,578	8,995	9,432	9,890	10,370	10,874	11,402	11,956
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	10,053	10,542	11,054	11,591	12,154	12,744	13,363	14,012	14,693	15,407
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,247	3,405	3,570	3,744	3,926	4,116	4,316	4,526	4,746	4,976
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,147	4,349	4,560	4,781	5,014	5,257	5,513	5,780	6,061	6,356
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,875	5,112	5,360	5,621	5,894	6,180	6,480	6,795	7,125	7,471
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,367	5,628	5,901	6,188	6,489	6,804	7,134	7,481	7,844	8,225
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,238	7,590	7,959	8,345	8,751	9,176	9,621	10,089	10,579	11,093
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,628	12,192	12,785	13,406	14,057	14,740	15,456	16,206	16,994	17,819
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,807	12,381	12,982	13,613	14,274	14,967	15,694	16,457	17,256	18,094
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	10,988	11,522	12,082	12,669	13,284	13,929	14,606	15,315	16,059	16,839
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,163	2,268	2,378	2,493	2,614	2,741	2,874	3,014	3,161	3,314
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,932	3,074	3,223	3,380	3,544	3,716	3,897	4,086	4,285	4,493
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,488	3,658	3,836	4,022	4,217	4,422	4,637	4,862	5,098	5,346
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,944	4,136	4,337	4,548	4,768	5,000	5,243	5,498	5,765	6,045
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,579	4,801	5,034	5,279	5,535	5,804	6,086	6,382	6,692	7,017
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	9,451	9,910	10,391	10,896	11,425	11,980	12,562	13,172	13,812	14,483
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	11,991	12,573	13,184	13,824	14,496	15,200	15,938	16,713	17,524	18,376
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	15,426	16,175	16,961	17,784	18,648	19,554	20,504	21,500	22,544	23,639
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	16,010	16,788	17,604	18,459	19,355	20,296	21,281	22,315	23,399	24,536
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	20,272	21,257	22,290	23,372	24,508	25,698	26,946	28,255	29,628	31,067
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	23,790	24,945	26,157	27,428	28,760	30,157	31,622	33,158	34,769	36,457
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	26,090	27,357	28,686	30,080	31,541	33,073	34,679	36,364	38,130	39,982
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	38,114	39,965	41,906	43,942	46,076	48,315	50,662	53,122	55,703	58,409
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	57,401	60,189	63,113	66,178	69,393	72,764	76,298	80,004	83,990	87,965
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	54,621	57,274	60,056	62,974	66,032	69,240	72,603	76,130	79,828	83,706
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	49,988	52,417	54,963	57,633	60,432	63,368	66,446	69,673	73,058	76,606
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	62,897	65,952	69,156	72,515	76,038	79,731	83,604	87,665	91,924	96,389
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	148,309	155,513	163,067	170,988	179,294	188,003	197,135	206,711	216,752	227,280
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	98,987	103,795	108,837	114,124	119,667	125,480	131,575	137,967	144,668	151,696
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	9,187	9,634	10,101	10,592	11,107	11,646	12,212	12,805	13,427	14,079
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	112,607	118,077	123,813	129,827	136,133	142,746	149,680	156,951	164,574	172,569
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	11,363	11,915	12,494	13,101	13,737	14,404	15,104	15,838	16,607	17,414
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,908	3,049	3,197	3,352	3,515	3,686	3,865	4,053	4,249	4,456
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	6,202	6,503	6,819	7,150	7,497	7,861	8,243	8,644	9,064	9,504
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	4,598	4,821	5,055	5,301	5,559	5,829	6,112	6,409	6,720	7,046
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,233	1,293	1,356	1,422	1,491	1,563	1,639	1,719	1,802	1,890
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	5,055	5,301	5,558	5,828	6,112	6,408	6,720	7,046	7,388	7,747
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	2,087	2,189	2,295	2,407	2,523	2,646	2,775	2,909	3,051	3,199
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	11,759	12,331	12,930	13,558	14,216	14,907	15,631	16,390	17,186	18,021
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	18,728	19,638	20,592	21,592	22,641	23,740	24,894	26,103	27,371	28,700
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	11,156	11,698	12,267	12,862	13,487	14,142	14,829	15,550	16,305	17,097
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	2,321	2,434	2,552	2,676	2,806	2,943	3,086	3,235	3,393	3,557
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	16,882	17,702	18,562	19,464	20,409	21,401	22,440	23,530	24,673	25,872
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	282	296	310	325	341	358	375	393	412	432
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	24,627	25,823	27,077	28,393	29,772	31,218	32,735	34,325	35,992	37,740
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	23,279	24,410	25,596	26,839	28,143	29,510	30,943	32,446	34,022	35,675
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	30,033	31,492	33,022	34,626	36,308	38,072	39,921	41,860	43,894	46,026
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,388	2,504	2,626	2,753	2,887	3,027	3,174	3,329	3,490	3,660
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	4,168	4,370	4,583	4,805	5,039	5,283	5,540	5,809	6,091	6,387
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	2,853	2,992	3,137	3,290	3,450	3,617	3,793	3,977	4,170	4,373
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	16,615	17,422	18,268	19,156	20,086	21,062	22,085	23,158	24,282	25,462
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	27,368	28,698	30,092	31,554	33,086	34,693	36,379	38,146	39,999	41,942
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,458	18,306	19,195	20,128	21,105	22,130	23,205	24,333	25,515	26,754
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	3,209	3,364	3,528	3,699	3,879	4,067	4,265	4,472	4,689	4,917
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	24,240	25,417	26,652	27,946	29,304	30,727	32,220	33,785	35,426	37,147
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	412	432	453	475	498	522	548	574	602	631
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	3,938	4,129	4,330	4,540	4,761	4,992	5,234	5,489	5,755	6,035
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	3,950	4,141	4,343	4,553	4,775	5,007	5,250	5,505	5,772	6,053
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	4,894	5,132	5,381	5,642	5,917	6,204	6,505	6,821	7,153	7,500
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	451	473	496	520	545	572	599	628	659	691
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	963	1,010	1,059	1,110	1,164	1,220	1,280	1,342	1,407	1,475
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	635	666	699	732	768	805	844	885	929	974
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	274,608	287,947	301,934	316,601	331,980	348,106	365,015	382,745	401,337	420,832
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	259,099	271,685	284,882	298,720	313,230	328,445	344,400	361,129	378,671	397,064
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	151,043	158,380	166,073	174,140	182,599	191,469	200,770	210,522	220,748	231,471
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	62,753	65,802	68,998	72,350	75,864	79,549	83,413	87,465	91,714	96,169
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	298,633	313,139	328,350	344,300	361,024	378,561	396,950	416,231	436,450	457,650
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	6,035	6,328	6,635	6,957	7,295	7,650	8,021	8,411	8,820	9,248
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	7,091	7,435	7,796	8,175	8,572	8,989	9,425	9,883	10,363	10,866
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	3,906	4,096	4,295	4,504	4,722	4,952	5,192	5,444	5,709	5,986
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	7,973	8,361	8,767	9,193	9,639	10,107	10,598	11,113	11,653	12,219
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	282	296	310	325	341	358	375	393	412	432
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	4,167	4,369	4,581	4,804	5,037	5,282	5,538	5,807	6,089	6,385
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,357	3,520	3,691	3,871	4,059	4,256	4,462	4,679	4,906	5,145
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	70,053	73,455	77,024	80,765	84,688	88,802	93,115	97,638	102,381	107,354
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	66,743	69,985	73,384	76,949	80,687	84,606	88,716	93,025	97,544	102,282
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	39,004	40,899	42,886	44,969	47,153	49,444	51,845	54,364	57,005	59,774
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	15,373	16,120	16,903	17,724	18,585	19,488	20,435	21,427	22,468	23,559
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	76,496	80,212	84,108	88,194	92,478	96,970	101,680	106,620	111,799	117,229
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,500	1,573	1,649	1,729	1,813	1,901	1,994	2,091	2,192	2,299
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	6,075	6,370	6,679	7,004	7,344	7,701	8,075	8,467	8,878	9,309
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	3,520	3,690	3,870	4,058	4,255	4,462	4,678	4,905	5,144	5,394
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	6,865	7,199	7,549	7,915	8,300	8,703	9,126	9,569	10,034	10,521
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	260	272	286	299	314	329	345	362	380	398
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	4,313	4,522	4,742	4,972	5,214	5,467	5,733	6,011	6,303	6,609
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,424	3,591	3,765	3,948	4,140	4,341	4,552	4,773	5,005	5,248
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	81,373	85,326	89,471	93,817	98,374	103,152	108,163	113,417	118,926	124,703
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	182,229	191,081	200,363	210,095	220,301	231,002	242,223	253,989	266,326	279,263
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	120,837	126,707	132,862	139,315	146,083	153,179	160,619	168,421	176,603	185,181
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	12,373	12,974	13,604	14,265	14,958	15,684	16,446	17,245	18,083	18,961
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	141,460	148,331	155,536	163,092	171,014	179,321	188,031	197,165	206,742	216,785
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	11,987	12,569	13,180	13,820	14,491	15,195	15,933	16,707	17,519	18,370
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	3,307	3,468	3,636	3,813	3,998	4,192	4,396	4,609	4,833	5,068
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	6,328	6,636	6,958	7,296	7,650	8,022	8,412	8,820	9,249	9,698
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	5,051	5,297	5,554	5,824	6,107	6,403	6,714	7,041	7,383	7,741
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,201	1,259	1,320	1,385	1,452	1,522	1,596	1,674	1,755	1,840
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	3,422	3,588	3,763	3,946	4,137	4,338	4,549	4,770	5,002	5,245
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,512	1,585	1,662	1,743	1,827	1,916	2,009	2,107	2,209	2,316
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	65,937	69,140	72,499	76,020	79,713	83,585	87,645	91,903	96,367	101,048
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	147,662	154,834	162,355	170,242	178,511	187,182	196,275	205,809	215,806	226,289
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	97,915	102,672	107,659	112,888	118,372	124,122	130,151	136,473	143,102	150,053
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	10,026	10,513	11,024	11,559	12,120	12,709	13,327	13,974	14,653	15,364
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	114,626	120,194	126,032	132,154	138,574	145,305	152,363	159,764	167,525	175,662
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	9,713	10,185	10,680	11,199	11,743	12,313	12,911	13,538	14,196	14,885
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	5,975	6,266	6,570	6,889	7,224	7,575	7,943	8,328	8,733	9,157
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	11,434	11,990	12,572	13,183	13,823	14,495	15,199	15,937	16,711	17,523
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	9,127	9,571	10,036	10,523	11,034	11,570	12,132	12,722	13,340	13,988
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,170	2,275	2,386	2,502	2,623	2,751	2,884	3,024	3,171	3,325
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,699	1,782	1,869	1,959	2,055	2,154	2,259	2,369	2,484	2,604
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	751	787	825	865	907	952	998	1,046	1,097	1,150
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	74,259	77,867	81,649	85,615	89,774	94,134	98,707	103,502	108,529	113,801
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	136,309	142,930	149,873	157,153	164,787	172,791	181,185	189,986	199,214	208,891
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	88,146	92,428	96,918	101,625	106,562	111,738	117,166	122,857	128,825	135,082
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	13,182	13,822	14,493	15,197	15,936	16,710	17,521	18,373	19,265	20,201
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	115,243	120,841	126,711	132,866	139,320	146,087	153,183	160,624	168,426	176,608
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,245	4,451	4,667	4,894	5,132	5,381	5,642	5,916	6,204	6,505
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	47,377	49,678	52,091	54,622	57,275	60,057	62,974	66,033	69,241	72,604
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	59,670	62,568	65,607	68,794	72,136	75,640	79,314	83,167	87,207	91,443

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	63,321	66,397	69,623	73,005	76,551	80,269	84,168	88,257	92,544	97,039
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	9,462	9,921	10,403	10,909	11,439	11,994	12,577	13,188	13,828	14,500
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	11,908	12,487	13,093	13,729	14,396	15,095	15,829	16,598	17,404	18,249
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	6,821	7,153	7,500	7,864	8,246	8,647	9,067	9,507	9,969	10,453
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	21,504	22,548	23,644	24,792	25,996	27,259	28,583	29,972	31,428	32,954
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	52,100	54,631	57,284	60,067	62,985	66,044	69,252	72,616	76,144	79,842
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	34,893	36,588	38,365	40,229	42,183	44,232	46,380	48,633	50,996	53,473
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	3,075	3,225	3,381	3,546	3,718	3,898	4,088	4,286	4,495	4,713
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	39,100	40,999	42,991	45,079	47,269	49,565	51,973	54,497	57,144	59,920
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	4,310	4,520	4,739	4,969	5,211	5,464	5,729	6,008	6,299	6,605
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	15,976	16,752	17,566	18,419	19,314	20,252	21,236	22,267	23,349	24,483
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	36,076	37,829	39,666	41,593	43,614	45,732	47,953	50,283	52,725	55,286
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	25,728	26,978	28,288	29,662	31,103	32,614	34,198	35,859	37,601	39,428
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	7,351	7,708	8,082	8,475	8,887	9,318	9,771	10,246	10,743	11,265
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	26,447	27,731	29,078	30,491	31,972	33,525	35,153	36,861	38,652	40,529
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	10,539	11,051	11,588	12,151	12,741	13,360	14,009	14,689	15,403	16,151
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	341,996	358,608	376,027	394,293	413,446	433,529	454,587	476,669	499,823	524,102
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	585,569	614,013	643,839	675,113	707,907	742,294	778,350	816,159	855,804	897,374
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	375,355	393,587	412,706	432,753	453,774	475,816	498,929	523,165	548,577	575,224
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	64,086	67,199	70,463	73,886	77,475	81,238	85,185	89,322	93,661	98,211
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	510,081	534,858	560,839	588,081	616,648	646,601	678,010	710,944	745,478	781,690
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	12,016	12,600	13,212	13,854	14,527	15,233	15,972	16,748	17,562	18,415
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	98,541	103,328	108,347	113,610	119,129	124,915	130,983	137,345	144,017	151,013
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	107,213	112,421	117,881	123,608	129,612	135,908	142,509	149,432	156,690	164,302
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	125,693	131,799	138,201	144,914	151,953	159,334	167,074	175,189	183,699	192,622
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	14,019	14,700	15,415	16,163	16,948	17,772	18,635	19,540	20,489	21,485
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	52,763	55,326	58,014	60,832	63,787	66,885	70,134	73,541	77,113	80,859
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	33,101	34,709	36,395	38,163	40,017	41,961	43,999	46,136	48,377	50,727
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	7,628	7,999	8,387	8,795	9,222	9,670	10,139	10,632	11,148	11,690
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	15,669	16,430	17,228	18,065	18,942	19,863	20,827	21,839	22,900	24,012
580	C&I Prescriptive	180W LPS	Lighting - exterior	12,873	13,498	14,154	14,841	15,562	16,318	17,111	17,942	18,814	19,727
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	6,275	6,579	6,899	7,234	7,585	7,954	8,340	8,745	9,170	9,616
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	14,554	15,261	16,002	16,779	17,595	18,449	19,345	20,285	21,270	22,304
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	14,676	15,388	16,136	16,920	17,742	18,603	19,507	20,455	21,448	22,490
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	6,357	6,666	6,990	7,329	7,685	8,059	8,450	8,861	9,291	9,742
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	4,352	4,563	4,785	5,017	5,261	5,517	5,784	6,065	6,360	6,669
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	8,573	8,989	9,426	9,883	10,364	10,867	11,395	11,948	12,529	13,137
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	8,547	8,962	9,397	9,853	10,332	10,834	11,360	11,912	12,491	13,097
588	C&I Prescriptive	Premium Efficiency Motor	Motors	565	592	621	651	683	716	751	787	825	866
589	C&I Prescriptive	Premium Efficiency Motor	Motors	1,730	1,814	1,902	1,994	2,091	2,192	2,299	2,411	2,528	2,651
590	C&I Prescriptive	Premium Efficiency Motor	Motors	5,688	5,964	6,254	6,557	6,876	7,210	7,560	7,927	8,313	8,716
591	C&I Prescriptive	Premium Efficiency Motor	Motors	7,102	7,447	7,808	8,188	8,585	9,002	9,440	9,898	10,379	10,883
592	C&I Prescriptive	Premium Efficiency Motor	Motors	10,842	11,369	11,921	12,500	13,108	13,744	14,412	15,112	15,846	16,616
593	C&I Prescriptive	Premium Efficiency Motor	Motors	14,548	15,254	15,995	16,772	17,587	18,441	19,337	20,276	21,261	22,294
594	C&I Prescriptive	Premium Efficiency Motor	Motors	18,620	19,525	20,473	21,468	22,510	23,604	24,750	25,953	27,213	28,535
595	C&I Prescriptive	Premium Efficiency Motor	Motors	30,527	32,010	33,565	35,195	36,905	38,698	40,577	42,548	44,615	46,782
596	C&I Prescriptive	Premium Efficiency Motor	Motors	31,122	32,633	34,219	35,881	37,624	39,451	41,368	43,377	45,484	47,693
597	C&I Prescriptive	Premium Efficiency Motor	Motors	15,893	16,665	17,474	18,323	19,213	20,146	21,125	22,151	23,227	24,356
598	C&I Prescriptive	Premium Efficiency Motor	Motors	416	436	457	480	503	527	553	580	608	638
599	C&I Prescriptive	Premium Efficiency Motor	Motors	1,856	1,946	2,041	2,140	2,244	2,353	2,467	2,587	2,713	2,844
600	C&I Prescriptive	Premium Efficiency Motor	Motors	5,798	6,079	6,375	6,684	7,009	7,349	7,706	8,081	8,473	8,885
601	C&I Prescriptive	Premium Efficiency Motor	Motors	7,049	7,391	7,750	8,127	8,521	8,935	9,369	9,824	10,302	10,802
602	C&I Prescriptive	Premium Efficiency Motor	Motors	10,775	11,298	11,847	12,422	13,026	13,658	14,322	15,018	15,747	16,512
603	C&I Prescriptive	Premium Efficiency Motor	Motors	12,839	13,462	14,116	14,802	15,521	16,275	17,065	17,894	18,764	19,675
604	C&I Prescriptive	Premium Efficiency Motor	Motors	11,640	12,205	12,798	13,420	14,071	14,755	15,472	16,223	17,011	17,838
605	C&I Prescriptive	Premium Efficiency Motor	Motors	13,240	13,883	14,558	15,265	16,006	16,784	17,599	18,454	19,350	20,290
606	C&I Prescriptive	Premium Efficiency Motor	Motors	12,976	13,606	14,267	14,960	15,687	16,449	17,248	18,085	18,964	19,885
607	C&I Prescriptive	Premium Efficiency Motor	Motors	7,799	8,177	8,575	8,991	9,428	9,886	10,366	10,870	11,398	11,951
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	8,983	9,420	9,877	10,357	10,860	11,388	11,941	12,521	13,129	13,767
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	4,922	5,162	5,412	5,675	5,951	6,240	6,543	6,861	7,194	7,544
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
617	C&I Prescriptive	Domestic hot water circulation pump control	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	1,043	1,093	1,146	1,202	1,261	1,322	1,386	1,453	1,524	1,598
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	605	635	666	698	732	767	805	844	885	928
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	692	726	761	798	837	878	920	965	1,012	1,061
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	1,095	1,148	1,204	1,262	1,324	1,388	1,456	1,526	1,600	1,678
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	12,751	13,370	14,020	14,701	15,415	16,164	16,949	17,772	18,635	19,541
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	7,779	8,157	8,554	8,969	9,405	9,862	10,341	10,843	11,370	11,922
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	889	932	977	1,025	1,074	1,126	1,181	1,239	1,299	1,362
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	1,112	1,166	1,223	1,283	1,345	1,410	1,479	1,550	1,626	1,705
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	2,292	2,403	2,520	2,643	2,771	2,905	3,047	3,195	3,350	3,512
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	218	228	239	251	263	276	289	303	318	334
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	60,342	63,273	66,346	69,569	72,949	76,492	80,208	84,104	88,189	92,473
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	10,100	10,591	11,105	11,645	12,210	12,803	13,425	14,077	14,761	15,478
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	99,754	104,599	109,680	115,008	120,595	126,452	132,595	139,036	145,789	152,871
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	11,648	12,214	12,807	13,429	14,082	14,766	15,483	16,235	17,024	17,851
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	65,619	68,806	72,148	75,653	79,328	83,181	87,222	91,459	95,901	100,560
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	44,008	46,145	48,387	50,737	53,202	55,786	58,496	61,338	64,317	67,441
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	8,807	9,234	9,683	10,153	10,647	11,164	11,706	12,275	12,871	13,496
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	5,697	5,974	6,264	6,568	6,888	7,222	7,573	7,941	8,326	8,731
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	2,748	2,881	3,021	3,168	3,322	3,483	3,652	3,829	4,016	4,211
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	3,105	3,255	3,413	3,579	3,753	3,935	4,127	4,327	4,537	4,758
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	7,036	7,378	7,736	8,112	8,506	8,919	9,352	9,807	10,283	10,782
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	64,300	67,424	70,699	74,133	77,734	81,510	85,469	89,621	93,974	98,539
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	19,798	20,760	21,768	22,826	23,934	25,097	26,316	27,595	28,935	30,340
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	8,177	8,574	8,991	9,427	9,885	10,365	10,869	11,397	11,950	12,531
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	23,344	24,478	25,667	26,914	28,221	29,592	31,030	32,537	34,118	35,775
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	43,660	45,781	48,004	50,336	52,781	55,345	58,034	60,853	63,808	66,908
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,055	5,300	5,557	5,827	6,111	6,407	6,719	7,045	7,387	7,746
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,199	5,451	5,716	5,994	6,285	6,590	6,910	7,246	7,598	7,967
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,272	6,577	6,896	7,231	7,583	7,951	8,337	8,742	9,167	9,612
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,313	7,668	8,040	8,431	8,840	9,270	9,720	10,192	10,687	11,206
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,492	4,710	4,939	5,179	5,431	5,695	5,971	6,261	6,565	6,884
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12,357	12,957	13,587	14,247	14,939	15,664	16,425	17,223	18,060	18,937
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	17,055	17,884	18,752	19,663	20,618	21,620	22,670	23,771	24,926	26,137
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	23,816	24,973	26,186	27,458	28,791	30,190	31,656	33,194	34,806	36,497
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,612	18,468	19,365	20,305	21,292	22,326	23,410	24,547	25,740	26,990
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	57,936	60,750	63,701	66,796	70,040	73,442	77,010	80,751	84,673	88,786
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	40,329	42,288	44,342	46,496	48,755	51,123	53,606	56,210	58,941	61,804
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,985	2,082	2,183	2,289	2,400	2,516	2,639	2,767	2,901	3,042
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	38,130	39,983	41,925	43,961	46,097	48,336	50,684	53,146	55,727	58,434
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	10,378	10,882	11,411	11,965	12,546	13,155	13,794	14,465	15,167	15,904
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	8,338	8,743	9,168	9,613	10,080	10,570	11,083	11,621	12,186	12,778
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	35,825	37,565	39,390	41,303	43,310	45,414	47,619	49,933	52,358	54,901
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	16,489	17,290	18,129	19,010	19,933	20,902	21,917	22,982	24,098	25,269
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	9,623	10,090	10,580	11,094	11,633	12,198	12,790	13,412	14,063	14,746
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	20,716	21,722	22,777	23,884	25,044	26,261	27,536	28,874	30,276	31,747
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	5,535	5,804	6,086	6,381	6,691	7,016	7,357	7,714	8,089	8,482
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	458	481	504	528	554	581	609	639	670	702
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	1,280	1,342	1,408	1,476	1,548	1,623	1,702	1,784	1,871	1,962
690	C&I Prescriptive	180W LPS	Lighting - exterior	1,355	1,421	1,490	1,562	1,638	1,718	1,801	1,889	1,980	2,076
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	285	298	313	328	344	361	378	397	416	436
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	1,446	1,516	1,590	1,667	1,748	1,833	1,922	2,015	2,113	2,216
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	912	956	1,002	1,051	1,102	1,156	1,212	1,271	1,332	1,397

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	546	572	600	629	660	692	726	761	798	837
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	504	528	554	581	609	639	670	702	737	772
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	575	603	632	663	695	729	764	801	840	881
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	580	608	638	669	701	735	771	808	848	889
698	C&I Prescriptive	Premium Efficiency Motor	Motors	123	129	135	142	149	156	164	172	180	189
699	C&I Prescriptive	Premium Efficiency Motor	Motors	275	288	302	317	332	348	365	383	402	421
700	C&I Prescriptive	Premium Efficiency Motor	Motors	1,168	1,225	1,285	1,347	1,413	1,481	1,553	1,629	1,708	1,791
701	C&I Prescriptive	Premium Efficiency Motor	Motors	1,334	1,399	1,467	1,538	1,613	1,692	1,774	1,860	1,950	2,045
702	C&I Prescriptive	Premium Efficiency Motor	Motors	1,696	1,779	1,865	1,956	2,051	2,150	2,255	2,364	2,479	2,600
703	C&I Prescriptive	Premium Efficiency Motor	Motors	2,522	2,645	2,773	2,908	3,049	3,198	3,353	3,516	3,687	3,866
704	C&I Prescriptive	Premium Efficiency Motor	Motors	3,552	3,724	3,905	4,095	4,294	4,502	4,721	4,950	5,191	5,443
705	C&I Prescriptive	Premium Efficiency Motor	Motors	6,687	7,011	7,352	7,709	8,083	8,476	8,888	9,320	9,772	10,247
706	C&I Prescriptive	Premium Efficiency Motor	Motors	7,037	7,379	7,737	8,113	8,507	8,920	9,354	9,808	10,284	10,784
707	C&I Prescriptive	Premium Efficiency Motor	Motors	6,893	7,228	7,579	7,947	8,333	8,738	9,162	9,607	10,074	10,563
708	C&I Prescriptive	Premium Efficiency Motor	Motors	109	114	120	126	132	138	145	152	159	167
709	C&I Prescriptive	Premium Efficiency Motor	Motors	379	397	416	436	458	480	503	528	553	580
710	C&I Prescriptive	Premium Efficiency Motor	Motors	1,262	1,323	1,388	1,455	1,526	1,600	1,678	1,759	1,845	1,934
711	C&I Prescriptive	Premium Efficiency Motor	Motors	1,590	1,668	1,749	1,834	1,923	2,016	2,114	2,217	2,324	2,437
712	C&I Prescriptive	Premium Efficiency Motor	Motors	1,676	1,757	1,843	1,932	2,026	2,124	2,227	2,336	2,449	2,568
713	C&I Prescriptive	Premium Efficiency Motor	Motors	2,640	2,768	2,903	3,044	3,191	3,346	3,509	3,679	3,858	4,046
714	C&I Prescriptive	Premium Efficiency Motor	Motors	2,701	2,832	2,970	3,114	3,266	3,424	3,591	3,765	3,948	4,140
715	C&I Prescriptive	Premium Efficiency Motor	Motors	4,545	4,766	4,997	5,240	5,494	5,761	6,041	6,335	6,642	6,965
716	C&I Prescriptive	Premium Efficiency Motor	Motors	3,927	4,117	4,317	4,527	4,747	4,978	5,219	5,473	5,739	6,018
717	C&I Prescriptive	Premium Efficiency Motor	Motors	4,933	5,173	5,424	5,687	5,964	6,253	6,557	6,875	7,209	7,560
718	C&I Prescriptive	Premium Efficiency Motor	Motors	199	209	219	229	241	252	265	277	291	305
719	C&I Prescriptive	Premium Efficiency Motor	Motors	404	424	444	466	488	512	537	563	590	619
720	C&I Prescriptive	Premium Efficiency Motor	Motors	1,879	1,970	2,066	2,166	2,272	2,382	2,498	2,619	2,746	2,880
721	C&I Prescriptive	Premium Efficiency Motor	Motors	1,843	1,932	2,026	2,125	2,228	2,336	2,450	2,569	2,693	2,824
722	C&I Prescriptive	Premium Efficiency Motor	Motors	2,828	2,966	3,110	3,261	3,419	3,585	3,759	3,942	4,133	4,334
723	C&I Prescriptive	Premium Efficiency Motor	Motors	3,828	4,014	4,209	4,414	4,628	4,853	5,089	5,336	5,595	5,867
724	C&I Prescriptive	Premium Efficiency Motor	Motors	5,321	5,579	5,850	6,134	6,432	6,745	7,072	7,416	7,776	8,154
725	C&I Prescriptive	Premium Efficiency Motor	Motors	10,610	11,125	11,665	12,232	12,826	13,449	14,103	14,788	15,506	16,259
726	C&I Prescriptive	Premium Efficiency Motor	Motors	12,870	13,496	14,151	14,839	15,559	16,315	17,108	17,939	18,810	19,724
727	C&I Prescriptive	Premium Efficiency Motor	Motors	13,138	13,776	14,445	15,147	15,883	16,654	17,463	18,312	19,201	20,134
728	C&I Prescriptive	Premium Efficiency Motor	Motors	183	192	202	211	222	232	244	255	268	281
729	C&I Prescriptive	Premium Efficiency Motor	Motors	603	633	663	696	729	765	802	841	882	925
730	C&I Prescriptive	Premium Efficiency Motor	Motors	2,296	2,407	2,524	2,647	2,776	2,910	3,052	3,200	3,355	3,518
731	C&I Prescriptive	Premium Efficiency Motor	Motors	2,954	3,098	3,248	3,406	3,571	3,745	3,927	4,117	4,317	4,527
732	C&I Prescriptive	Premium Efficiency Motor	Motors	3,165	3,319	3,480	3,650	3,827	4,013	4,208	4,412	4,626	4,851
733	C&I Prescriptive	Premium Efficiency Motor	Motors	3,940	4,132	4,332	4,543	4,764	4,995	5,238	5,492	5,759	6,039
734	C&I Prescriptive	Premium Efficiency Motor	Motors	4,008	4,203	4,407	4,621	4,845	5,081	5,327	5,586	5,858	6,142
735	C&I Prescriptive	Premium Efficiency Motor	Motors	7,715	8,090	8,483	8,895	9,327	9,780	10,255	10,753	11,275	11,823
736	C&I Prescriptive	Premium Efficiency Motor	Motors	8,401	8,809	9,236	9,685	10,156	10,649	11,166	11,709	12,277	12,874
737	C&I Prescriptive	Premium Efficiency Motor	Motors	10,257	10,755	11,277	11,825	12,400	13,002	13,633	14,296	14,990	15,718
738	C&I Prescriptive	Premium Efficiency Motor	Motors	863	905	949	995	1,043	1,094	1,147	1,203	1,261	1,322
739	C&I Prescriptive	Premium Efficiency Motor	Motors	1,581	1,658	1,739	1,823	1,912	2,004	2,102	2,204	2,311	2,423
740	C&I Prescriptive	Premium Efficiency Motor	Motors	7,411	7,771	8,148	8,544	8,959	9,394	9,851	10,329	10,831	11,357
741	C&I Prescriptive	Premium Efficiency Motor	Motors	8,027	8,417	8,826	9,255	9,704	10,176	10,670	11,188	11,732	12,302
742	C&I Prescriptive	Premium Efficiency Motor	Motors	10,772	11,296	11,844	12,420	13,023	13,655	14,319	15,014	15,744	16,508
743	C&I Prescriptive	Premium Efficiency Motor	Motors	15,522	16,276	17,066	17,895	18,764	19,676	20,632	21,634	22,685	23,787
744	C&I Prescriptive	Premium Efficiency Motor	Motors	21,473	22,517	23,610	24,757	25,960	27,221	28,543	29,929	31,383	32,908
745	C&I Prescriptive	Premium Efficiency Motor	Motors	47,597	49,909	52,334	54,876	57,541	60,337	63,267	66,341	69,563	72,942
746	C&I Prescriptive	Premium Efficiency Motor	Motors	66,271	69,490	72,865	76,405	80,116	84,008	88,088	92,367	96,854	101,559
747	C&I Prescriptive	Premium Efficiency Motor	Motors	71,265	74,727	78,356	82,163	86,154	90,338	94,727	99,328	104,153	109,212
748	C&I Prescriptive	Premium Efficiency Motor	Motors	827	867	909	953	999	1,048	1,099	1,152	1,208	1,267
749	C&I Prescriptive	Premium Efficiency Motor	Motors	2,578	2,704	2,835	2,973	3,117	3,268	3,427	3,594	3,768	3,951
750	C&I Prescriptive	Premium Efficiency Motor	Motors	8,070	8,462	8,873	9,304	9,756	10,230	10,727	11,248	11,794	12,367
751	C&I Prescriptive	Premium Efficiency Motor	Motors	10,219	10,715	11,236	11,781	12,354	12,954	13,583	14,243	14,935	15,660
752	C&I Prescriptive	Premium Efficiency Motor	Motors	10,810	11,335	11,886	12,463	13,069	13,703	14,369	15,067	15,799	16,566
753	C&I Prescriptive	Premium Efficiency Motor	Motors	15,882	16,653	17,462	18,310	19,200	20,132	21,110	22,136	23,211	24,339
754	C&I Prescriptive	Premium Efficiency Motor	Motors	16,120	16,903	17,724	18,585	19,488	20,435	21,427	22,468	23,559	24,704
755	C&I Prescriptive	Premium Efficiency Motor	Motors	39,927	41,867	43,901	46,033	48,269	50,614	53,072	55,650	58,353	61,188
756	C&I Prescriptive	Premium Efficiency Motor	Motors	52,714	55,275	57,960	60,775	63,727	66,823	70,069	73,472	77,041	80,783
757	C&I Prescriptive	Premium Efficiency Motor	Motors	62,088	65,104	68,266	71,582	75,059	78,706	82,529	86,537	90,741	95,149
758	C&I Prescriptive	Premium Efficiency Motor	Motors	550	577	605	634	665	698	731	767	804	843
759	C&I Prescriptive	Premium Efficiency Motor	Motors	2,046	2,146	2,250	2,359	2,474	2,594	2,720	2,852	2,990	3,136
760	C&I Prescriptive	Premium Efficiency Motor	Motors	8,626	9,045	9,484	9,945	10,428	10,935	11,466	12,023	12,607	13,219
761	C&I Prescriptive	Premium Efficiency Motor	Motors	10,721	11,242	11,788	12,360	12,961	13,590	14,250	14,943	15,668	16,429
762	C&I Prescriptive	Premium Efficiency Motor	Motors	12,433	13,037	13,671	14,335	15,031	15,761	16,527	17,330	18,171	19,054
763	C&I Prescriptive	Premium Efficiency Motor	Motors	19,228	20,162	21,142	22,169	23,245	24,375	25,559	26,800	28,102	29,467
764	C&I Prescriptive	Premium Efficiency Motor	Motors	23,895	25,056	26,273	27,549	28,888	30,291	31,762	33,305	34,923	36,619
765	C&I Prescriptive	Premium Efficiency Motor	Motors	53,780	56,392	59,132	62,004	65,016	68,174	71,486	74,958	78,599	82,417
766	C&I Prescriptive	Premium Efficiency Motor	Motors	48,908	51,284	53,775	56,387	59,126	61,998	65,010	68,168	71,479	74,951
767	C&I Prescriptive	Premium Efficiency Motor	Motors	44,988	47,174	49,465	51,868	54,387	57,029	59,799	62,704	65,750	68,944
768	C&I Prescriptive	Premium Efficiency Motor	Motors	319	334	351	368	385	404	424	444	466	489
769	C&I Prescriptive	Premium Efficiency Motor	Motors	1,973	2,068	2,169	2,274	2,385	2,501	2,622	2,749	2,883	3,023
770	C&I Prescriptive	Premium Efficiency Motor	Motors	8,849	9,279	9,730	10,202	10,698	11,217	11,762	12,334	12,933	13,561

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
771	C&I Prescriptive	Premium Efficiency Motor	Motors	10,801	11,326	11,876	12,453	13,057	13,692	14,357	15,054	15,785	16,552
772	C&I Prescriptive	Premium Efficiency Motor	Motors	11,094	11,633	12,198	12,790	13,412	14,063	14,746	15,463	16,214	17,001
773	C&I Prescriptive	Premium Efficiency Motor	Motors	15,570	16,326	17,119	17,951	18,823	19,737	20,696	21,701	22,755	23,861
774	C&I Prescriptive	Premium Efficiency Motor	Motors	12,887	13,513	14,169	14,857	15,579	16,336	17,129	17,961	18,834	19,749
775	C&I Prescriptive	Premium Efficiency Motor	Motors	29,902	31,354	32,877	34,475	36,149	37,905	39,746	41,677	43,701	45,824
776	C&I Prescriptive	Premium Efficiency Motor	Motors	21,494	22,539	23,633	24,781	25,985	27,247	28,571	29,959	31,414	32,940
777	C&I Prescriptive	Premium Efficiency Motor	Motors	28,201	29,570	31,007	32,513	34,092	35,748	37,485	39,306	41,215	43,217
778	C&I Custom	Compressed Air-O&M	All systems	139,202	145,964	153,054	160,489	168,284	176,459	185,030	194,018	203,443	213,325
779	C&I Custom	Compressed Air - Controls	All systems	150,562	157,876	165,544	173,586	182,018	190,859	200,130	209,851	220,045	230,734
780	C&I Custom	Compressed Air - System Optimization	All systems	204,953	214,908	225,347	236,294	247,772	259,807	272,427	285,660	299,536	314,086
781	C&I Custom	Compressed Air- Sizing	All systems	22,767	23,872	25,032	26,248	27,523	28,860	30,262	31,732	33,273	34,889
782	C&I Custom	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custom	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custom	Comp Air - Motor practices-1 (1-5 HP)	All systems	6,362	6,672	6,996	7,335	7,692	8,065	8,457	8,868	9,299	9,750
785	C&I Custom	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custom	Comp Air - ASD (6-100 hp)	All systems	12,192	12,785	13,406	14,057	14,739	15,455	16,206	16,993	17,819	18,684
787	C&I Custom	Comp Air - Motor practices-1 (6-100 HP)	All systems	47,494	49,802	52,221	54,757	57,417	60,206	63,131	66,197	69,413	72,784
788	C&I Custom	Comp Air - Replace 100+ HP motor	All systems	61,812	64,814	67,963	71,264	74,725	78,355	82,161	86,152	90,337	94,725
789	C&I Custom	Comp Air - ASD (100+ hp)	All systems	158,172	165,855	173,911	182,359	191,217	200,506	210,245	220,458	231,166	242,395
790	C&I Custom	Comp Air - Motor practices-1 (100+ HP)	All systems	74,403	78,017	81,806	85,780	89,947	94,316	98,898	103,702	108,739	114,021
791	C&I Custom	Power recovery	All systems	13,044	13,677	14,342	15,038	15,769	16,535	17,338	18,180	19,063	19,989
792	C&I Custom	Refinery Controls	All systems	65,343	68,517	71,846	75,336	78,995	82,832	86,856	91,075	95,499	100,138
793	C&I Custom	Energy Star Transformers	All systems	3,090	3,240	3,398	3,563	3,736	3,917	4,107	4,307	4,516	4,735
794	C&I Custom	Fans - O&M	All systems	6,324	6,631	6,953	7,291	7,645	8,017	8,406	8,814	9,243	9,692
795	C&I Custom	Fans - Controls	All systems	387,293	406,106	425,832	446,517	468,207	490,950	514,798	539,804	566,025	593,520
796	C&I Custom	Fans - System Optimization	All systems	169,089	177,303	185,915	194,946	204,416	214,345	224,757	235,675	247,122	259,126
797	C&I Custom	Fans- Improve components	All systems	29,943	31,397	32,922	34,522	36,198	37,957	39,800	41,734	43,761	45,887
798	C&I Custom	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custom	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custom	Fans - Motor practices-1 (1-5 HP)	All systems	6,362	6,672	6,996	7,335	7,692	8,065	8,457	8,868	9,299	9,750
801	C&I Custom	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custom	Fans - ASD (6-100 hp)	All systems	12,192	12,785	13,406	14,057	14,739	15,455	16,206	16,993	17,819	18,684
803	C&I Custom	Fans - Motor practices-1 (6-100 HP)	All systems	47,494	49,802	52,221	54,757	57,417	60,206	63,131	66,197	69,413	72,784
804	C&I Custom	Fans - Replace 100+ HP motor	All systems	61,812	64,814	67,963	71,264	74,725	78,355	82,161	86,152	90,337	94,725
805	C&I Custom	Fans - ASD (100+ hp)	All systems	158,172	165,855	173,911	182,359	191,217	200,506	210,245	220,458	231,166	242,395
806	C&I Custom	Fans - Motor practices-1 (100+ HP)	All systems	74,403	78,017	81,806	85,780	89,947	94,316	98,898	103,702	108,739	114,021
807	C&I Custom	Optimize drying process	All systems	548,152	574,779	602,699	631,975	662,673	694,862	728,615	764,008	801,119	840,034
808	C&I Custom	Pumps - O&M	All systems	25,296	26,525	27,813	29,164	30,581	32,067	33,624	35,258	36,970	38,766
809	C&I Custom	Pumps - Controls	All systems	264,800	277,662	291,150	305,292	320,122	335,672	351,977	369,074	387,002	405,801
810	C&I Custom	Pumps - System Optimization	All systems	547,326	573,912	601,790	631,022	661,674	693,815	727,517	762,856	799,912	838,767
811	C&I Custom	Pumps - Sizing	All systems	119,771	125,589	131,689	138,086	144,794	151,827	159,202	166,935	175,044	183,547
812	C&I Custom	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custom	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custom	Pumps - Motor practices-1 (1-5 HP)	All systems	6,362	6,672	6,996	7,335	7,692	8,065	8,457	8,868	9,299	9,750
815	C&I Custom	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custom	Pumps - ASD (6-100 hp)	All systems	12,192	12,785	13,406	14,057	14,739	15,455	16,206	16,993	17,819	18,684
817	C&I Custom	Pumps - Motor practices-1 (6-100 HP)	All systems	47,494	49,802	52,221	54,757	57,417	60,206	63,131	66,197	69,413	72,784
818	C&I Custom	Pumps - Replace 100+ HP motor	All systems	61,812	64,814	67,963	71,264	74,725	78,355	82,161	86,152	90,337	94,725
819	C&I Custom	Pumps - ASD (100+ hp)	All systems	158,172	165,855	173,911	182,359	191,217	200,506	210,245	220,458	231,166	242,395
820	C&I Custom	Pumps - Motor practices-1 (100+ HP)	All systems	74,403	78,017	81,806	85,780	89,947	94,316	98,898	103,702	108,739	114,021
821	C&I Custom	Efficient refrigeration - operations	Refrigeration	907	951	997	1,045	1,096	1,149	1,205	1,264	1,325	1,389
822	C&I Custom	Optimization refrigeration	Refrigeration	3,512	3,682	3,861	4,049	4,245	4,452	4,668	4,895	5,132	5,382
823	C&I Custom	Bakery - process	Process	3,772	3,956	4,148	4,349	4,560	4,782	5,014	5,258	5,513	5,781
824	C&I Custom	Bakery - process (mixing)	Process	205	215	226	237	248	260	273	286	300	314
825	C&I Custom	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custom	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custom	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custom	O&M - extruders / injection molding	Machine Drive	1,669	1,750	1,835	1,924	2,017	2,115	2,218	2,326	2,439	2,557
829	C&I Custom	Extruders / injection molding - multipump	Machine Drive	15,824	16,592	17,398	18,243	19,129	20,059	21,033	22,055	23,126	24,249
830	C&I Custom	Direct value extruders	Machine Drive	3,275	3,434	3,601	3,776	3,959	4,151	4,353	4,564	4,786	5,019
831	C&I Custom	Injection molding - impulse cooling	Machine Drive	6,923	7,259	7,612	7,981	8,369	8,776	9,202	9,649	10,118	10,609
832	C&I Custom	Injection molding - direct drive	Machine Drive	4,741	4,971	5,212	5,465	5,731	6,009	6,301	6,607	6,928	7,265
833	C&I Custom	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custom	Process controls	Process	702	736	772	809	849	890	933	979	1,026	1,076
835	C&I Custom	Top-heating (glass)	Process Heating	424	444	466	488	512	537	563	590	619	649
836	C&I Custom	Process controls	Process	7,263	7,616	7,986	8,374	8,781	9,207	9,655	10,124	10,615	11,131
837	C&I Custom	Efficient electric melting	Process Heating	14,432	15,133	15,868	16,638	17,447	18,294	19,183	20,115	21,092	22,116
838	C&I Custom	Near net shape casting	Machine Drive	3,207	3,363	3,526	3,697	3,877	4,065	4,262	4,470	4,687	4,914
839	C&I Custom	Optimization process (M&T)	Process	618	648	680	713	747	784	822	862	904	947
840	C&I Custom	Scheduling	Process	542	568	596	625	655	687	720	755	792	830
841	C&I Custom	Efficient curing ovens	Process Heating	905	949	995	1,043	1,094	1,147	1,203	1,261	1,322	1,387
842	C&I Custom	Machinery	Machine Drive	1,164	1,220	1,279	1,342	1,407	1,475	1,547	1,622	1,701	1,783
843	C&I Custom	Optimization process (M&T)	Process	264	277	291	305	320	335	351	368	386	405
844	C&I Custom	Scheduling	Process	232	243	255	267	280	294	308	323	339	355
845	C&I Custom	Efficient curing ovens	Process Heating	134	141	148	155	162	170	179	187	196	206
846	C&I Custom	Machinery	Machine Drive	1,229	1,289	1,351	1,417	1,486	1,558	1,634	1,713	1,796	1,884
847	C&I Custom	Optimization process (M&T)	Process	195	204	214	224	235	247	259	271	284	298

7: Incentive Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
848	C&I Custom	Scheduling	Process	213	224	234	246	258	270	283	297	312	327
849	C&I Custom	Efficient curing ovens	Process Heating	225	236	247	259	272	285	299	313	329	345
850	C&I Custom	Machinery	Machine Drive	330	346	363	380	399	418	438	460	482	505
851	C&I Custom	Scheduling	Process	270	283	297	311	326	342	359	376	394	414
852	C&I Custom	Efficient curing ovens	Process Heating	406	426	447	468	491	515	540	566	594	623
853	C&I Custom	Machinery	Machine Drive	158	165	173	182	190	200	209	220	230	241
854	C&I Custom	Efficient processes (welding, etc.)	Process	1,764	1,850	1,939	2,034	2,132	2,236	2,345	2,458	2,578	2,703
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	2,549,075	2,679,438	2,814,136	2,953,199	3,096,651	3,247,071	3,404,797	3,570,185	3,743,607	3,925,453
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	587,139	615,659	645,565	676,923	709,805	744,283	780,437	818,347	858,098	899,780
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	565,861	593,347	622,169	652,391	684,081	717,310	752,153	788,689	827,000	867,171
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	2,558,569	2,622,533	2,688,097	2,755,299	2,824,181	2,894,786	2,967,156	3,041,334	3,117,368	3,195,302
865	Commercial Demand Credit	Commercial Demand Credit	All systems	262,417	268,978	275,702	282,595	289,660	296,901	304,324	311,932	319,730	327,723
Education Program													
Information Program													
Portfolio Administration													
Evaluation, Measurement, and Verification													

8: Administrative Costs

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	118,389	160,060	211,031	270,295	283,424	297,192	311,628	326,765	342,638
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	26,071	35,247	46,472	59,522	62,414	65,445	68,624	71,958	75,453
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	6,287	8,499	11,206	14,353	15,050	15,781	16,548	17,352	18,194
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	17,950	24,268	31,996	40,981	42,971	45,059	47,248	49,543	51,949
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	0	53,284	72,040	94,981	121,654	127,564	133,760	140,257	147,070	154,214
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	0	11,290	15,264	20,125	25,776	27,029	28,341	29,718	31,162	32,675
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	0	8,478	11,463	15,113	19,357	20,297	21,283	22,317	23,401	24,538
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	0	129,179	174,649	230,265	294,930	309,257	324,279	340,031	356,548	373,867
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	0	94,224	127,391	167,958	215,125	225,575	236,532	248,022	260,069	272,702
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	0	48,412	65,453	86,296	110,531	115,900	121,529	127,433	133,623	140,113
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	0	10,266	13,879	18,299	23,438	24,577	25,771	27,022	28,335	29,711
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	0	8,131	10,993	14,494	18,564	19,466	20,412	21,403	22,443	23,533
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	0	4,598	6,217	8,197	10,498	11,008	11,543	12,104	12,692	13,308
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	0	10,514	14,215	18,742	24,006	25,172	26,395	27,677	29,021	30,431
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	0	153,949	208,137	274,418	351,482	368,556	386,458	405,230	424,914	445,555
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	0	61,505	83,155	109,635	140,424	147,245	154,397	161,897	169,761	178,007
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	0	35,709	48,278	63,652	81,528	85,488	89,641	93,995	98,561	103,348
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	72,592	98,143	129,397	165,735	173,786	0	0	0	0
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	11,361	15,360	20,251	25,938	27,198	0	0	0	0
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	2,988	4,040	5,327	6,823	7,154	0	0	0	0
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	107,979	145,987	192,476	246,529	258,504	0	0	0	0
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	5,998	8,331	11,351	15,104	19,549	20,499	21,495	22,539	23,634	24,782
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	3,530	4,903	6,681	8,890	11,506	12,065	12,651	13,265	13,910	14,585
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	1,999	2,776	3,783	5,033	6,515	6,831	7,163	7,511	7,876	8,258
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	5,132	7,127	9,711	12,922	16,725	17,537	18,389	19,283	20,219	21,201
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	4,340	6,029	8,214	10,930	14,147	14,834	15,554	16,310	17,102	17,933
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	1,739	2,415	3,290	4,378	5,667	5,942	6,231	6,533	6,851	7,183
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	24,079	33,444	45,567	60,635	78,480	82,292	86,289	90,481	94,876	99,484
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	23,131	32,127	43,773	58,248	75,391	79,053	82,893	86,919	91,141	95,568
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	10,016	13,912	18,955	25,223	32,646	34,232	35,895	37,638	39,466	41,383
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	2,116	2,860	3,771	4,830	5,995	6,286	6,591	6,912	7,247	7,599
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	46,215	64,189	87,457	116,377	150,627	157,944	165,616	173,660	182,096	190,941
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	22,379	31,083	42,350	56,354	72,939	76,482	80,197	84,093	88,177	92,461
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	24,153	33,546	45,706	60,820	78,719	82,543	86,553	90,757	95,166	99,788
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	11,511	15,563	20,519	26,281	32,618	34,202	35,863	37,606	39,432	41,348
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	182,209	186,765	191,434	196,220	201,125	206,153	211,307	216,590	222,004	227,555
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	76,522	78,435	80,396	82,406	84,466	86,578	88,742	90,961	93,235	95,565
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	56,776	58,196	59,650	61,142	62,670	64,237	65,843	67,489	69,176	70,906
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	457,957	607,051	782,262	977,161	1,181,913	1,239,324	1,299,525	1,362,649	1,428,840	1,498,246

8: Administrative Costs

Measure			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
ID	Program	Efficient Technology	HVAC System and/or End-use										
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	85,904	113,871	146,737	183,297	221,704	232,474	243,766	255,607	268,023	281,042
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	48,580	64,396	82,983	103,657	125,378	131,468	137,854	144,550	151,572	158,934
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	347,942	461,218	594,339	742,417	897,981	941,600	987,339	1,035,299	1,085,588	1,138,321
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	50,114	66,429	85,603	106,930	129,336	135,619	142,206	149,114	156,357	163,952
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	6,927	9,182	11,833	14,781	17,878	18,746	19,657	20,612	21,613	22,663
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	4,921	6,523	8,406	10,500	12,700	13,317	13,964	14,642	15,353	16,099
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	38,143	50,560	65,153	81,386	98,440	103,221	108,235	113,493	119,006	124,787
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	9,045	9,271	9,503	9,740	9,984	10,233	10,489	10,751	11,020	11,296
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	1,697	1,739	1,782	1,827	1,873	1,920	1,968	2,017	2,067	2,119
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	959	983	1,008	1,033	1,059	1,086	1,113	1,140	1,169	1,198
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	1,398	1,942	2,646	3,522	4,558	4,779	5,012	5,255	5,510	5,778
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	1,096	1,523	2,075	2,761	3,573	3,746	3,928	4,119	4,319	4,529
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	620	861	1,173	1,561	2,021	2,119	2,222	2,330	2,443	2,561
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	3,356	4,662	6,352	8,452	10,939	11,471	12,028	12,612	13,225	13,867
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	1,613	2,241	3,053	4,063	5,258	5,514	5,782	6,062	6,357	6,666
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	3,326	4,619	6,294	8,375	10,840	11,366	11,919	12,498	13,105	13,741
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	3,181	4,418	6,019	8,009	10,366	10,870	11,398	11,951	12,532	13,141
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	2,536	3,522	4,798	6,385	8,264	8,666	9,087	9,528	9,991	10,476
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	12,426	17,259	23,515	31,291	40,500	42,467	44,530	46,693	48,961	51,339
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	32,988	45,818	62,426	83,069	107,516	112,739	118,215	123,958	129,979	136,293
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	17,702	24,587	33,499	44,577	57,696	60,498	63,437	66,519	69,750	73,138
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	378	525	716	952	1,232	1,292	1,355	1,421	1,490	1,562
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	59	82	112	148	192	201	211	221	232	243
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	1,687	2,343	3,192	4,248	5,498	5,765	6,045	6,339	6,646	6,969
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	954	1,325	1,805	2,402	3,109	3,260	3,418	3,585	3,759	3,941
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	4,477	6,219	8,473	11,274	14,593	15,301	16,045	16,824	17,641	18,498
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	23,339	23,923	24,521	25,134	25,762	26,406	27,066	27,743	28,437	29,148
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	13,578	13,918	14,266	14,622	14,988	15,363	15,747	16,140	16,544	16,958
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	7,799	7,994	8,194	8,399	8,609	8,824	9,045	9,271	9,503	9,740
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	5,952	8,266	11,263	14,987	19,398	20,340	21,328	22,364	23,450	24,589
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	5,309	7,374	10,047	13,370	17,304	18,145	19,026	19,950	20,919	21,935
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	2,199	3,054	4,161	5,537	7,166	7,515	7,880	8,262	8,664	9,085
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	4,532	6,294	8,576	11,411	14,770	15,487	16,240	17,028	17,856	18,723
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	5,466	7,592	10,345	13,766	17,817	18,682	19,590	20,541	21,539	22,585
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	1,722	2,392	3,259	4,337	5,613	5,886	6,171	6,471	6,786	7,115
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	4,592	6,087	7,843	9,797	11,850	12,426	13,030	13,662	14,326	15,022
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	853	1,131	1,457	1,821	2,202	2,309	2,421	2,539	2,662	2,791
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	655	868	1,119	1,398	1,691	1,773	1,859	1,949	2,044	2,143
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	6,541	8,671	11,173	13,957	16,882	17,702	18,561	19,463	20,408	21,400
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	771	1,022	1,317	1,645	1,990	2,086	2,188	2,294	2,405	2,522
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	728	965	1,244	1,554	1,879	1,971	2,066	2,167	2,272	2,382
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	13,984	18,537	23,887	29,839	36,091	37,844	39,682	41,610	43,631	45,750
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	2,623	3,477	4,481	5,597	6,770	7,099	7,444	7,805	8,184	8,582
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	1,483	1,966	2,534	3,165	3,829	4,015	4,210	4,414	4,628	4,853
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	10,625	14,084	18,149	22,670	27,421	28,753	30,149	31,614	33,150	34,760
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	35,602	47,193	60,814	75,966	91,884	96,347	101,027	105,935	111,080	116,476
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	6,678	8,853	11,408	14,250	17,236	18,073	18,951	19,871	20,837	21,849
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	3,777	5,006	6,451	8,059	9,747	10,221	10,717	11,238	11,783	12,356
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	23,643	31,340	40,385	50,447	61,017	63,981	67,089	70,348	73,765	77,349
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	41,163	55,652	73,375	93,980	116,641	122,307	0	0	0	0
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	7,335	9,916	13,074	16,746	20,784	21,793	0	0	0	0
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	487,401	499,586	512,076	524,878	538,000	551,450	565,236	579,367	593,851	608,697
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	39,952	40,951	41,975	43,024	44,100	45,202	46,333	47,491	48,678	49,895
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	188,607	193,322	198,155	203,109	208,187	213,391	218,726	224,194	229,799	235,544
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	19,850	20,346	20,855	21,376	21,910	22,458	23,020	23,595	24,185	24,790
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	8,348	11,286	14,880	19,059	23,654	24,803	26,008	27,271	28,596	29,985
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	9,573	12,942	17,064	21,856	27,126	28,444	29,825	31,274	32,793	34,386
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	11,010	14,886	19,626	25,138	31,199	32,715	34,304	35,970	37,718	39,550
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	11,552	15,618	20,591	26,373	32,733	34,323	35,990	37,738	39,571	41,493
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	11,129	15,046	19,837	25,408	31,534	33,066	34,672	36,356	38,122	39,974
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	13,456	18,193	23,986	30,722	38,130	39,982	41,924	43,961	46,096	48,335
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	14,596	19,734	26,018	33,325	41,360	43,369	45,475	47,684	50,001	52,429
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	15,708	21,236	27,999	35,862	44,509	46,671	48,938	51,315	53,808	56,422
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	4,351	5,882	7,756	9,934	12,329	12,928	13,556	14,214	14,904	15,628
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	5,965	8,065	10,633	13,619	16,903	17,724	18,585	19,488	20,434	21,427
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	3,718	5,027	6,627	8,488	10,535	11,047	11,583	12,146	12,736	13,355
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	969	1,310	1,728	2,213	2,747	2,880	3,020	3,167	3,320	3,482
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	5,716	7,728	10,189	13,051	16,198	16,985	17,810	18,675	19,582	20,533
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	300	406	535	685	850	891	935	980	1,028	1,077
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	257	347	458	586	727	763	800	839	879	922
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	175	237	312	399	496	520	545	572	599	629
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	282	381	503	644	799	838	879	921	966	1,013
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	21	29	38	49	60	63	66	70	73	77
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	106	143	189	241	300	314	330	346	362	380
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	69	93	123	158	196	205	215	226	237	248
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	55	74	98	126	156	163	171	180	188	198
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	101	137	180	231	286	300	315	330	346	363
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	99	134	176	226	280	294	308	323	339	356
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,722	2,282	2,941	3,674	4,443	4,659	4,885	5,123	5,372	5,633
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	9,747	12,920	16,649	20,797	25,155	26,377	27,658	29,001	30,410	31,887
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,659	2,199	2,834	3,540	4,281	4,489	4,707	4,936	5,176	5,427
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	9,620	12,752	16,432	20,526	24,827	26,033	27,298	28,624	30,014	31,472
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	1,646	2,181	2,811	3,511	4,247	4,453	4,670	4,897	5,134	5,384
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	6,664	7,339	8,076	8,882	9,762	10,236	10,733	11,255	11,801	12,375
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	18,818	20,723	22,806	25,082	27,566	28,905	30,309	31,782	33,325	34,944
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	3,669	4,040	4,446	4,890	5,374	5,635	5,909	6,196	6,497	6,813
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	14,428	15,888	17,485	19,230	21,134	22,161	23,238	24,366	25,550	26,791
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	7,324	8,065	8,876	9,762	10,729	11,250	11,796	12,369	12,970	13,600
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	6,926	7,627	8,394	9,231	10,145	10,638	11,155	11,697	12,265	12,861
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	1,782	1,962	2,159	2,375	2,610	2,737	2,870	3,009	3,155	3,308
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,917	3,212	3,535	3,888	4,273	4,481	4,698	4,927	5,166	5,417
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	6,969	7,675	8,446	9,289	10,209	10,705	11,225	11,770	12,342	12,942
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	1,893	2,085	2,294	2,523	2,773	2,908	3,049	3,197	3,353	3,515
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	7,190	7,917	8,713	9,583	10,532	11,044	11,580	12,143	12,732	13,351
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	6,774	7,460	8,210	9,029	9,924	10,406	10,911	11,441	11,997	12,580
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	2,667	2,937	3,232	3,554	3,906	4,096	4,295	4,504	4,723	4,952
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	239	264	290	319	351	368	385	404	424	444
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	707	778	857	942	1,036	1,086	1,139	1,194	1,252	1,313
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	84	93	102	112	123	129	135	142	149	156
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	710	781	860	946	1,039	1,090	1,143	1,198	1,256	1,317
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,587	1,748	1,924	2,116	2,325	2,438	2,556	2,681	2,811	2,947
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	171	188	207	228	251	263	276	289	303	318
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	796	876	965	1,061	1,166	1,222	1,282	1,344	1,409	1,478
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	425	468	516	567	623	653	685	718	753	790
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	36	40	44	48	53	56	58	61	64	67
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,208	1,330	1,464	1,610	1,770	1,856	1,946	2,040	2,139	2,243
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,593	1,754	1,931	2,123	2,334	2,447	2,566	2,690	2,821	2,958
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	14,987	19,866	25,600	31,978	38,679	40,557	42,528	44,593	46,759	49,031
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	8,024	10,636	13,706	17,121	20,709	21,715	22,769	23,875	25,035	26,251
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	7,387	9,792	12,618	15,761	19,064	19,990	20,961	21,979	23,047	24,166
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	32,324	42,848	55,215	68,971	83,423	87,476	91,725	96,180	100,852	105,751
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	3,764	4,989	6,429	8,031	9,714	10,185	10,680	11,199	11,743	12,313
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	30,151	39,967	51,502	64,334	77,815	81,594	85,558	89,714	94,072	98,641
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	20,422	27,070	34,883	43,574	52,705	55,265	57,950	60,764	63,716	66,811

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	6,843	9,071	11,689	14,602	17,661	18,519	19,419	20,362	21,351	22,388
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	1,621	1,785	1,964	2,161	2,375	2,490	2,611	2,738	2,871	3,010
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	9,763	10,751	11,832	13,013	14,301	14,996	15,724	16,488	17,289	18,129
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	346	381	419	461	507	531	557	584	612	642
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	34,241	37,707	41,497	45,638	50,158	52,595	55,150	57,829	60,638	63,583
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	225	248	273	300	330	346	363	381	399	419
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1,208	1,331	1,464	1,610	1,770	1,856	1,946	2,041	2,140	2,244
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	260	287	316	347	381	400	419	440	461	484
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1,438	1,583	1,742	1,916	2,106	2,208	2,315	2,428	2,546	2,669
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	7,566	8,332	9,169	10,085	11,083	11,622	12,186	12,778	13,399	14,050
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	333	367	403	444	488	511	536	562	590	618
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	29,014	31,950	35,162	38,671	42,501	44,566	46,730	49,000	51,381	53,876
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	4,714	5,191	5,712	6,283	6,905	7,240	7,592	7,961	8,347	8,753
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	925	1,019	1,121	1,233	1,355	1,421	1,490	1,563	1,638	1,718
323	C&I Prescriptive	VAV	Chiller & Boiler	8,959	11,876	15,304	19,117	23,123	24,246	25,423	26,658	27,953	29,311
324	C&I Prescriptive	VAV	Chiller & Boiler	2,511	3,328	4,289	5,358	6,480	6,795	7,125	7,471	7,834	8,215
325	C&I Prescriptive	VAV	Chiller & Boiler	503	667	859	1,074	1,299	1,362	1,428	1,497	1,570	1,646
326	C&I Prescriptive	VAV	Chiller & Boiler	5,067	6,716	8,655	10,811	13,077	13,712	14,378	15,076	15,809	16,577
327	C&I Prescriptive	VAV	Chiller & Boiler	2,002	2,654	3,420	4,272	5,167	5,418	5,681	5,957	6,246	6,549
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	10,582	14,028	18,076	22,580	27,311	28,638	30,029	31,488	33,017	34,621
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,217	1,613	2,079	2,597	3,141	3,294	3,454	3,622	3,798	3,982
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,783	2,363	3,045	3,804	4,601	4,824	5,059	5,305	5,562	5,832
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	3,715	4,925	6,347	7,928	9,589	10,055	10,543	11,055	11,592	12,156
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	4,670	6,191	7,977	9,965	12,053	12,638	13,252	13,896	14,571	15,279
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	1,907	2,527	3,257	4,068	4,921	5,160	5,410	5,673	5,949	6,238
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	2,574	3,412	4,397	5,492	6,643	6,966	7,304	7,659	8,031	8,421
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	60	80	103	129	155	163	171	179	188	197
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	5,818	7,712	9,938	12,414	15,016	15,745	16,510	17,312	18,153	19,034
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	2,002	2,654	3,421	4,273	5,168	5,419	5,682	5,958	6,246	6,551
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	12,897	17,096	22,030	27,519	33,285	34,902	36,597	38,375	40,239	42,193
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	1,341	1,778	2,291	2,862	3,462	3,630	3,807	3,992	4,185	4,389
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,607	2,130	2,745	3,429	4,148	4,349	4,560	4,782	5,014	5,258
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,016	1,347	1,735	2,168	2,622	2,749	2,883	3,023	3,169	3,323
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	542	719	926	1,157	1,399	1,467	1,539	1,613	1,692	1,774
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	2,033	2,696	3,474	4,339	5,248	5,503	5,770	6,051	6,345	6,653
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	162	215	277	346	418	439	460	482	506	530
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	249,639	255,880	262,277	268,834	275,555	282,443	289,504	296,742	304,161	311,765
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	518	687	885	1,106	1,338	1,471	1,617	1,542	1,617	1,696
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	698	926	1,193	1,490	1,802	1,890	1,982	2,078	2,179	2,285
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	830	1,100	1,418	1,771	2,142	2,246	2,355	2,469	2,589	2,715
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	936	1,241	1,599	1,997	2,415	2,533	2,656	2,785	2,920	3,062
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,150	1,524	1,964	2,453	2,967	3,111	3,262	3,420	3,586	3,761
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,313	3,066	3,951	4,935	5,969	6,259	6,563	6,882	7,216	7,567
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,913	3,861	4,975	6,215	7,517	7,882	8,265	8,667	9,088	9,529
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,720	4,931	6,354	7,937	9,600	10,067	10,556	11,068	11,606	12,170
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	50	66	85	106	129	135	142	148	156	163
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	62	82	105	132	159	167	175	184	192	202
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	72	95	123	154	186	195	204	214	225	236
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	78	104	133	167	202	211	222	232	244	256
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	72	95	122	153	185	194	203	213	223	234
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	73	97	125	157	190	199	208	219	229	240
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	67	89	114	143	173	181	190	199	209	219
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	56	74	96	120	145	152	159	167	175	184
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	265	351	452	565	683	717	751	788	826	866
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	332	440	567	708	857	898	942	987	1,035	1,086
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	389	515	664	829	1,003	1,052	1,103	1,156	1,213	1,271
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	424	562	725	905	1,095	1,148	1,204	1,262	1,324	1,388
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	682	904	1,164	1,455	1,759	1,845	1,934	2,028	2,127	2,230
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	882	1,169	1,507	1,882	2,277	2,387	2,503	2,625	2,752	2,886
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	828	1,097	1,414	1,766	2,137	2,240	2,349	2,463	2,583	2,708
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	737	977	1,260	1,573	1,903	1,996	2,093	2,194	2,301	2,413
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	899	1,192	1,536	1,918	2,320	2,433	2,551	2,675	2,805	2,941
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,081	1,434	1,847	2,308	2,791	2,927	3,069	3,218	3,374	3,538
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,256	1,665	2,145	2,680	3,241	3,399	3,564	3,737	3,919	4,109
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,346	1,784	2,299	2,872	3,474	3,643	3,820	4,005	4,200	4,404
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,211	1,605	2,069	2,584	3,125	3,277	3,436	3,603	3,778	3,962
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	858	1,137	1,466	1,831	2,215	2,322	2,435	2,553	2,677	2,807
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	656	870	1,121	1,400	1,693	1,776	1,862	1,952	2,047	2,147
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	538	713	919	1,148	1,388	1,456	1,526	1,601	1,678	1,760
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,585	2,101	2,707	3,381	4,090	4,288	4,497	4,715	4,944	5,184
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,948	2,582	3,328	4,157	5,028	5,272	5,528	5,797	6,078	6,373
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,272	3,012	3,882	4,849	5,865	6,150	6,449	6,762	7,090	7,435
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,460	3,260	4,201	5,248	6,348	6,656	6,979	7,318	7,674	8,047
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,364	3,134	4,038	5,045	6,102	6,398	6,709	7,035	7,376	7,735
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,204	2,922	3,766	4,704	5,689	5,966	6,256	6,559	6,878	7,212
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,978	2,622	3,379	4,221	5,105	5,353	5,613	5,886	6,172	6,471
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,601	2,122	2,734	3,416	4,131	4,332	4,542	4,763	4,994	5,237

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	210	278	358	447	541	567	595	624	654	686
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	280	371	479	598	723	758	795	834	874	917
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	333	441	568	710	858	900	944	989	1,037	1,088
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	374	495	638	797	964	1,011	1,060	1,112	1,166	1,223
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	493	654	843	1,053	1,273	1,335	1,400	1,468	1,539	1,614
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	961	1,274	1,641	2,050	2,480	2,600	2,726	2,859	2,998	3,143
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,198	1,589	2,047	2,557	3,093	3,243	3,401	3,566	3,739	3,921
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,451	1,923	2,478	3,096	3,745	3,926	4,117	4,317	4,527	4,747
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	247	327	422	527	637	668	700	735	770	808
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	335	444	572	715	865	907	951	997	1,046	1,096
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	399	529	681	851	1,029	1,079	1,132	1,187	1,244	1,305
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	451	598	771	963	1,165	1,221	1,281	1,343	1,408	1,476
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	517	686	883	1,104	1,335	1,400	1,468	1,539	1,614	1,692
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,074	1,423	1,834	2,291	2,771	2,906	3,047	3,195	3,350	3,513
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,365	1,809	2,331	2,912	3,522	3,693	3,872	4,060	4,257	4,464
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,758	2,331	3,004	3,752	4,538	4,758	4,990	5,232	5,486	5,753
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	568	753	970	1,212	1,466	1,537	1,612	1,690	1,772	1,858
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	725	962	1,239	1,548	1,872	1,963	2,058	2,158	2,263	2,373
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	853	1,130	1,457	1,819	2,201	2,308	2,420	2,537	2,660	2,790
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	939	1,244	1,604	2,003	2,423	2,540	2,664	2,793	2,929	3,071
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,266	1,678	2,163	2,701	3,267	3,426	3,592	3,767	3,950	4,142
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,034	2,696	3,474	4,339	5,249	5,504	5,771	6,051	6,345	6,653
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,065	2,737	3,527	4,406	5,330	5,589	5,860	6,145	6,443	6,756
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,922	2,548	3,283	4,101	4,960	5,201	5,454	5,718	5,996	6,288
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	378	501	646	807	976	1,024	1,073	1,125	1,180	1,237
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	513	680	876	1,094	1,323	1,388	1,455	1,526	1,600	1,678
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	610	809	1,042	1,302	1,575	1,651	1,731	1,815	1,904	1,996
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	690	914	1,178	1,472	1,780	1,867	1,958	2,053	2,152	2,257
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	801	1,062	1,368	1,709	2,067	2,167	2,273	2,383	2,499	2,620
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,653	2,191	2,823	3,527	4,266	4,473	4,690	4,918	5,157	5,408
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,097	2,780	3,582	4,475	5,413	5,675	5,951	6,240	6,543	6,861
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,698	3,576	4,609	5,757	6,963	7,301	7,656	8,028	8,418	8,827
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,800	3,712	4,783	5,975	7,227	7,578	7,946	8,332	8,737	9,161
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,546	4,700	6,057	7,565	9,151	9,595	10,061	10,550	11,063	11,600
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,161	5,516	7,107	8,878	10,739	11,260	11,807	12,381	12,982	13,613
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,563	6,049	7,795	9,737	11,777	12,349	12,949	13,578	14,237	14,929
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,666	8,836	11,387	14,224	17,204	18,040	18,916	19,835	20,799	21,809
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	10,039	13,308	17,149	21,422	25,910	27,169	28,489	29,872	31,323	32,845
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	9,553	12,663	16,319	20,384	24,655	25,853	27,109	28,426	29,807	31,254
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,743	11,589	14,935	18,655	22,564	23,660	24,810	26,015	27,279	28,604
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	11,001	14,582	18,791	23,473	28,391	29,770	31,217	32,733	34,323	35,990
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	25,939	34,384	44,309	55,348	66,945	70,197	73,607	77,183	80,932	84,863
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	17,313	22,949	29,573	36,941	44,682	46,852	49,128	51,515	54,017	56,641
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,607	2,130	2,745	3,429	4,147	4,349	4,560	4,781	5,013	5,257
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	19,695	26,107	33,642	42,024	50,830	53,299	55,888	58,603	61,450	64,434
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,987	2,634	3,395	4,241	5,129	5,378	5,640	5,913	6,201	6,502
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	509	674	869	1,085	1,312	1,376	1,443	1,513	1,587	1,664
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	1,085	1,438	1,853	2,314	2,799	2,935	3,078	3,227	3,384	3,549
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	804	1,066	1,374	1,716	2,075	2,176	2,282	2,393	2,509	2,631
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	216	286	368	460	557	584	612	642	673	706
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	884	1,172	1,510	1,887	2,282	2,393	2,509	2,631	2,759	2,893
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	365	484	624	779	942	988	1,036	1,086	1,139	1,194
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2,057	2,726	3,513	4,389	5,308	5,566	5,836	6,120	6,417	6,729
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,276	4,342	5,595	6,989	8,454	8,864	9,295	9,746	10,220	10,716
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	1,951	2,587	3,333	4,163	5,036	5,281	5,537	5,806	6,086	6,384
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	406	538	694	866	1,048	1,099	1,152	1,208	1,267	1,328
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	2,953	3,914	5,044	6,300	7,621	7,991	8,379	8,786	9,213	9,660
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	49	65	84	105	127	134	140	147	154	161
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	4,307	5,710	7,358	9,191	11,116	11,656	12,223	12,816	13,439	14,092
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	4,072	5,397	6,955	8,688	10,508	11,018	11,554	12,115	12,703	13,320
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	5,253	6,963	8,973	11,208	13,557	14,215	14,906	15,630	16,389	17,185
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	418	554	713	891	1,078	1,130	1,185	1,243	1,303	1,367
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	729	966	1,245	1,555	1,881	1,973	2,069	2,169	2,274	2,385
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	499	662	852	1,065	1,288	1,351	1,416	1,485	1,557	1,633
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	2,906	3,852	4,964	6,201	7,500	7,864	8,246	8,647	9,067	9,507
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	4,787	6,345	8,177	10,214	12,354	12,954	13,583	14,243	14,935	15,660
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,053	4,047	5,216	6,515	7,880	8,263	8,665	9,085	9,527	9,990
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	561	744	959	1,197	1,448	1,519	1,592	1,670	1,751	1,836
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	4,240	5,620	7,242	9,046	10,942	11,473	12,030	12,615	13,227	13,870
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	72	96	123	154	186	195	204	214	225	236
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	689	913	1,176	1,470	1,778	1,864	1,954	2,049	2,149	2,253
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	691	916	1,180	1,474	1,783	1,869	1,960	2,055	2,155	2,260
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	856	1,135	1,462	1,826	2,209	2,316	2,429	2,547	2,671	2,800
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	79	105	135	168	204	213	224	235	246	258
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	168	223	288	359	435	456	478	501	525	551
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	111	147	190	237	287	301	315	331	347	364
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	48,029	63,666	82,042	102,482	123,956	129,977	136,291	142,911	149,853	157,132
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	45,317	60,070	77,408	96,694	116,955	122,636	128,593	134,840	141,390	148,258
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	26,418	35,018	45,126	56,368	68,180	71,492	74,964	78,606	82,424	86,428
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	10,976	14,549	18,748	23,419	28,326	29,702	31,145	32,658	34,244	35,908
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	52,231	69,236	89,219	111,448	134,801	141,349	148,215	155,414	162,964	170,880
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,055	1,399	1,803	2,252	2,724	2,856	2,995	3,141	3,293	3,453
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,240	1,644	2,118	2,646	3,201	3,356	3,519	3,690	3,869	4,057
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	683	906	1,167	1,458	1,763	1,849	1,939	2,033	2,132	2,235
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	1,395	1,849	2,382	2,976	3,599	3,774	3,957	4,150	4,351	4,562
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	49	65	84	105	127	134	140	147	154	161
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	729	966	1,245	1,555	1,881	1,972	2,068	2,168	2,274	2,384
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	587	778	1,003	1,253	1,515	1,589	1,666	1,747	1,832	1,921
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	12,252	16,241	20,929	26,143	31,621	33,157	34,768	36,457	38,228	40,084
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	11,673	15,474	19,940	24,908	30,127	31,591	33,125	34,734	36,421	38,190
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	6,822	9,043	11,653	14,556	17,606	18,462	19,358	20,299	21,285	22,319
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	2,689	3,564	4,593	5,737	6,939	7,277	7,630	8,001	8,389	8,797
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	13,379	17,735	22,854	28,548	34,530	36,207	37,966	39,810	41,744	43,772
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	262	348	448	560	677	710	744	781	819	858
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,062	1,408	1,815	2,267	2,742	2,875	3,015	3,161	3,315	3,476
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	616	816	1,051	1,313	1,589	1,666	1,747	1,832	1,921	2,014
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	1,201	1,592	2,051	2,562	3,099	3,250	3,407	3,573	3,746	3,928
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	45	60	78	97	117	123	129	135	142	149
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	754	1,000	1,289	1,610	1,947	2,041	2,141	2,245	2,354	2,468
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	599	794	1,023	1,278	1,546	1,621	1,700	1,782	1,869	1,960
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	14,232	18,866	24,311	30,368	36,731	38,516	40,386	42,348	44,405	46,562
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	31,872	42,249	54,443	68,007	82,257	86,252	90,442	94,835	99,442	104,272
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	21,135	28,015	36,101	45,096	54,545	57,195	59,973	62,886	65,941	69,144
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	2,164	2,869	3,697	4,618	5,585	5,856	6,141	6,439	6,752	7,080
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	24,742	32,796	42,262	52,792	63,854	66,956	70,208	73,618	77,194	80,944
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,097	2,779	3,581	4,474	5,411	5,674	5,949	6,238	6,541	6,859
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	578	767	988	1,234	1,493	1,565	1,641	1,721	1,805	1,892
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	1,107	1,467	1,891	2,362	2,857	2,995	3,141	3,293	3,453	3,621
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	884	1,171	1,509	1,885	2,280	2,391	2,507	2,629	2,757	2,890
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	210	278	359	448	542	568	596	625	655	687
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	599	793	1,022	1,277	1,545	1,620	1,698	1,781	1,868	1,958
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	264	350	452	564	682	715	750	787	825	865
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	11,533	15,287	19,699	24,607	29,764	31,209	32,725	34,315	35,982	37,730
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	25,826	34,234	44,115	55,106	66,653	69,891	73,286	76,846	80,579	84,493
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	17,126	22,701	29,253	36,541	44,198	46,345	48,596	50,957	53,432	56,028
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	1,754	2,324	2,995	3,742	4,526	4,745	4,976	5,218	5,471	5,737
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	20,048	26,575	34,246	42,778	51,741	54,255	56,890	59,653	62,551	65,590
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	1,699	2,252	2,902	3,625	4,384	4,597	4,821	5,055	5,300	5,558
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,045	1,385	1,785	2,230	2,697	2,828	2,966	3,110	3,261	3,419
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	2,000	2,651	3,416	4,267	5,161	5,412	5,675	5,951	6,240	6,543
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	1,596	2,116	2,727	3,406	4,120	4,320	4,530	4,750	4,981	5,223
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	380	503	648	810	980	1,027	1,077	1,129	1,184	1,242
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	297	394	508	634	767	804	843	884	927	972
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	131	174	224	280	339	355	373	391	410	430
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	12,988	17,217	22,186	27,713	33,520	35,148	36,856	38,646	40,523	42,492
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	23,841	31,602	40,724	50,870	61,529	64,518	67,652	70,938	74,384	77,997
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	15,417	20,436	26,334	32,896	39,789	41,721	43,748	45,873	48,101	50,438
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	2,306	3,056	3,938	4,919	5,950	6,239	6,542	6,860	7,193	7,543
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	20,156	26,718	34,430	43,008	52,020	54,547	57,196	59,975	62,888	65,943
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	742	984	1,268	1,584	1,916	2,009	2,107	2,209	2,316	2,429
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	8,286	10,984	14,154	17,681	21,386	22,424	23,514	24,656	25,854	27,109
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	10,436	13,834	17,827	22,268	26,934	28,243	29,615	31,053	32,562	34,143

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	11,075	14,681	18,918	23,631	28,583	29,971	31,427	32,954	34,554	36,233
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	1,655	2,194	2,827	3,531	4,271	4,478	4,696	4,924	5,163	5,414
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,083	2,761	3,558	4,444	5,375	5,636	5,910	6,197	6,498	6,814
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,193	1,581	2,038	2,546	3,079	3,229	3,385	3,550	3,722	3,903
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,761	4,986	6,424	8,025	9,707	10,178	10,673	11,191	11,735	12,305
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	9,112	12,079	15,565	19,443	23,518	24,660	25,858	27,114	28,431	29,812
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	6,103	8,090	10,425	13,022	15,750	16,515	17,318	18,159	19,041	19,966
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	538	713	919	1,148	1,388	1,456	1,526	1,600	1,678	1,760
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	6,839	9,065	11,681	14,592	17,649	18,507	19,406	20,348	21,337	22,373
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	754	999	1,288	1,609	1,946	2,040	2,139	2,243	2,352	2,466
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	2,794	3,704	4,773	5,962	7,211	7,562	7,929	8,314	8,718	9,142
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	6,310	8,364	10,778	13,464	16,285	17,076	17,905	18,775	19,687	20,643
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	4,500	5,965	7,686	9,602	11,613	12,178	12,769	13,389	14,040	14,722
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	1,286	1,704	2,196	2,743	3,318	3,479	3,648	3,826	4,011	4,206
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	4,626	6,131	7,901	9,870	11,938	12,518	13,126	13,763	14,432	15,133
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,843	2,443	3,149	3,933	4,757	4,988	5,231	5,485	5,751	6,030
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	59,816	79,289	102,174	127,631	154,374	161,873	169,736	177,981	186,626	195,692
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	102,417	135,760	174,944	218,531	264,321	277,161	290,624	304,741	319,544	335,066
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	65,650	87,023	112,141	140,080	169,432	177,662	186,292	195,342	204,830	214,780
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	11,209	14,858	19,146	23,917	28,928	30,333	31,807	33,352	34,972	36,670
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	89,214	118,259	152,391	190,359	230,247	241,431	253,158	265,456	278,350	291,871
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	2,102	2,786	3,590	4,484	5,424	5,688	5,964	6,254	6,557	6,876
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	17,235	22,846	29,440	36,775	44,841	46,641	48,907	51,283	53,774	56,386
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	18,752	24,857	32,031	40,011	48,395	50,746	53,211	55,795	58,506	61,348
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	21,984	29,141	37,552	46,908	56,737	59,493	62,383	65,413	68,590	71,922
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	2,452	3,250	4,188	5,232	6,328	6,636	6,958	7,296	7,650	8,022
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	9,228	12,233	15,764	19,691	23,817	24,974	26,187	27,459	28,793	30,192
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	5,789	7,674	9,889	12,353	14,942	15,667	16,428	17,226	18,063	18,941
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	1,334	1,769	2,279	2,847	3,443	3,611	3,786	3,970	4,163	4,365
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	2,741	3,633	4,681	5,848	7,073	7,416	7,777	8,154	8,550	8,966
580	C&I Prescriptive	180W LPS	Lighting - exterior	2,251	2,984	3,846	4,804	5,811	6,093	6,389	6,699	7,025	7,366
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	1,097	1,455	1,875	2,342	2,832	2,970	3,114	3,265	3,424	3,590
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	2,546	3,374	4,348	5,431	6,570	6,889	7,223	7,574	7,942	8,328
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	2,567	3,402	4,384	5,477	6,624	6,946	7,284	7,637	8,008	8,397
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	1,112	1,474	1,899	2,372	2,870	3,009	3,155	3,308	3,469	3,638
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	761	1,009	1,300	1,624	1,964	2,060	2,160	2,265	2,375	2,490
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	1,499	1,987	2,561	3,199	3,870	4,058	4,255	4,461	4,678	4,905
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	1,495	1,981	2,553	3,190	3,858	4,045	4,242	4,448	4,664	4,890
588	C&I Prescriptive	Premium Efficiency Motor	Motors	99	131	169	211	255	267	280	294	308	323
589	C&I Prescriptive	Premium Efficiency Motor	Motors	303	401	517	645	781	819	858	900	944	990
590	C&I Prescriptive	Premium Efficiency Motor	Motors	995	1,319	1,699	2,123	2,567	2,692	2,823	2,960	3,104	3,255
591	C&I Prescriptive	Premium Efficiency Motor	Motors	1,242	1,646	2,122	2,650	3,206	3,361	3,525	3,696	3,875	4,064
592	C&I Prescriptive	Premium Efficiency Motor	Motors	1,896	2,514	3,239	4,046	4,894	5,132	5,381	5,643	5,917	6,204
593	C&I Prescriptive	Premium Efficiency Motor	Motors	2,544	3,373	4,346	5,429	6,567	6,886	7,220	7,571	7,939	8,324
594	C&I Prescriptive	Premium Efficiency Motor	Motors	3,257	4,317	5,563	6,949	8,405	8,813	9,241	9,690	10,161	10,655
595	C&I Prescriptive	Premium Efficiency Motor	Motors	5,339	7,077	9,120	11,393	13,780	14,449	15,151	15,887	16,659	17,468
596	C&I Prescriptive	Premium Efficiency Motor	Motors	5,443	7,215	9,298	11,614	14,048	14,730	15,446	16,196	16,983	17,808
597	C&I Prescriptive	Premium Efficiency Motor	Motors	2,780	3,685	4,748	5,931	7,174	7,522	7,888	8,271	8,673	9,094
598	C&I Prescriptive	Premium Efficiency Motor	Motors	73	96	124	155	188	197	207	217	227	238
599	C&I Prescriptive	Premium Efficiency Motor	Motors	325	430	555	693	838	879	921	966	1,013	1,062
600	C&I Prescriptive	Premium Efficiency Motor	Motors	1,014	1,344	1,732	2,164	2,617	2,744	2,877	3,017	3,164	3,317
601	C&I Prescriptive	Premium Efficiency Motor	Motors	1,233	1,634	2,106	2,631	3,182	3,336	3,498	3,668	3,846	4,033
602	C&I Prescriptive	Premium Efficiency Motor	Motors	1,884	2,498	3,219	4,021	4,864	5,100	5,348	5,607	5,880	6,165
603	C&I Prescriptive	Premium Efficiency Motor	Motors	2,246	2,977	3,836	4,791	5,795	6,077	6,372	6,682	7,006	7,346
604	C&I Prescriptive	Premium Efficiency Motor	Motors	2,036	2,699	3,477	4,344	5,254	5,509	5,777	6,058	6,352	6,660
605	C&I Prescriptive	Premium Efficiency Motor	Motors	2,316	3,070	3,956	4,941	5,977	6,267	6,571	6,890	7,225	7,576
606	C&I Prescriptive	Premium Efficiency Motor	Motors	2,269	3,008	3,877	4,842	5,857	6,142	6,440	6,753	7,081	7,425
607	C&I Prescriptive	Premium Efficiency Motor	Motors	1,364	1,808	2,330	2,910	3,520	3,691	3,871	4,059	4,256	4,462
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	1,571	2,083	2,684	3,353	4,055	4,252	4,458	4,675	4,902	5,140
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	k Cooking	861	1,141	1,471	1,837	2,222	2,330	2,443	2,562	2,686	2,817
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
617	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	321	354	389	428	471	494	517	543	569	597
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	187	205	226	249	273	287	300	315	330	346
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	213	235	259	284	313	328	344	360	378	396
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	337	372	409	450	494	518	543	570	598	627
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	3,929	4,327	4,762	5,237	5,756	6,035	6,328	6,636	6,958	7,296
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	2,397	2,640	2,905	3,195	3,512	3,682	3,861	4,049	4,245	4,451
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	274	302	332	365	401	421	441	462	485	508
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	343	377	415	457	502	527	552	579	607	637
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	706	778	856	941	1,035	1,085	1,138	1,193	1,251	1,312
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	67	74	81	89	98	103	108	113	119	125
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	10,554	13,990	18,028	22,519	27,238	28,561	29,948	31,403	32,928	34,528
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	3,112	3,427	3,772	4,148	4,559	4,781	5,013	5,256	5,512	5,779
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	17,447	23,127	29,802	37,228	45,028	47,215	49,509	51,914	54,435	57,080
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	2,037	2,701	3,480	4,347	5,258	5,513	5,781	6,062	6,356	6,665
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	11,477	15,213	19,604	24,489	29,620	31,059	32,567	34,149	35,808	37,547
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	7,697	10,203	13,148	16,423	19,865	20,830	21,842	22,902	24,015	25,181
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	1,540	2,042	2,631	3,287	3,975	4,168	4,371	4,583	4,806	5,039
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	996	1,321	1,702	2,126	2,572	2,697	2,828	2,965	3,109	3,260
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	481	637	821	1,025	1,240	1,300	1,364	1,430	1,499	1,572
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	957	1,053	1,159	1,275	1,401	1,469	1,541	1,616	1,694	1,776
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	2,168	2,388	2,628	2,890	3,176	3,330	3,492	3,662	3,839	4,026
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	11,246	14,908	19,210	23,997	29,025	30,435	31,913	33,463	35,089	36,793
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	6,101	6,718	7,394	8,131	8,937	9,371	9,826	10,303	10,804	11,329
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2,520	2,775	3,054	3,358	3,691	3,870	4,058	4,255	4,462	4,679
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	4,083	5,412	6,974	8,712	10,537	11,049	11,586	12,149	12,739	13,358
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	7,636	10,122	13,044	16,294	19,708	20,665	21,669	22,721	23,825	24,982
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	884	1,172	1,510	1,886	2,282	2,392	2,509	2,630	2,758	2,892
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	909	1,205	1,553	1,940	2,347	2,461	2,580	2,705	2,837	2,975
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,097	1,454	1,874	2,341	2,831	2,969	3,113	3,264	3,423	3,589
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,279	1,695	2,185	2,729	3,301	3,461	3,629	3,806	3,990	4,184
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	786	1,042	1,342	1,676	2,028	2,126	2,230	2,338	2,451	2,571
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,161	2,865	3,692	4,612	5,578	5,849	6,133	6,431	6,743	7,071
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,983	3,954	5,095	6,365	7,699	8,073	8,465	8,876	9,307	9,759
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,165	5,521	7,115	8,888	10,750	11,272	11,820	12,394	12,996	13,627
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	3,080	4,083	5,262	6,573	7,950	8,336	8,741	9,166	9,611	10,078
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	10,133	13,432	17,309	21,621	26,152	27,422	28,754	30,151	31,616	33,151
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	7,054	9,350	12,049	15,051	18,204	19,089	20,016	20,988	22,008	23,077
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	347	460	593	741	896	940	985	1,033	1,083	1,136
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	6,669	8,840	11,392	14,230	17,212	18,048	18,925	19,844	20,808	21,818
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	1,815	2,406	3,100	3,873	4,684	4,912	5,151	5,401	5,663	5,938
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	1,458	1,933	2,491	3,112	3,764	3,947	4,138	4,339	4,550	4,771
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	6,266	8,306	10,703	13,370	16,171	16,957	17,780	18,644	19,550	20,499
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	2,884	3,823	4,926	6,153	7,443	7,804	8,183	8,581	8,998	9,435
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	1,683	2,231	2,875	3,591	4,344	4,555	4,776	5,008	5,251	5,506
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	3,623	4,803	6,189	7,731	9,351	9,805	10,282	10,781	11,305	11,854
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	968	1,283	1,654	2,066	2,498	2,620	2,747	2,880	3,020	3,167
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	80	106	137	171	207	217	227	238	250	262
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	224	297	382	478	578	606	635	666	699	733
690	C&I Prescriptive	180W LPS	Lighting - exterior	237	314	405	506	612	641	672	705	739	775
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	50	66	85	106	128	135	141	148	155	163
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	253	335	432	540	653	684	718	752	789	827
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	159	211	272	340	411	431	452	474	497	522

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	95	127	163	204	246	258	271	284	298	312
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	88	117	151	188	227	239	250	262	275	288
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	101	133	172	215	259	272	285	299	314	329
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	101	134	173	216	262	274	288	302	316	332
698	C&I Prescriptive	Premium Efficiency Motor	Motors	22	29	37	46	56	58	61	64	67	70
699	C&I Prescriptive	Premium Efficiency Motor	Motors	48	64	82	103	124	130	136	143	150	157
700	C&I Prescriptive	Premium Efficiency Motor	Motors	204	271	349	436	527	553	580	608	638	669
701	C&I Prescriptive	Premium Efficiency Motor	Motors	233	309	399	498	602	632	662	694	728	764
702	C&I Prescriptive	Premium Efficiency Motor	Motors	297	393	507	633	766	803	842	883	926	971
703	C&I Prescriptive	Premium Efficiency Motor	Motors	441	585	754	941	1,139	1,194	1,252	1,313	1,376	1,443
704	C&I Prescriptive	Premium Efficiency Motor	Motors	621	823	1,061	1,325	1,603	1,681	1,763	1,848	1,938	2,032
705	C&I Prescriptive	Premium Efficiency Motor	Motors	1,169	1,550	1,998	2,495	3,018	3,165	3,319	3,480	3,649	3,826
706	C&I Prescriptive	Premium Efficiency Motor	Motors	1,231	1,631	2,102	2,626	3,176	3,331	3,493	3,662	3,840	4,027
707	C&I Prescriptive	Premium Efficiency Motor	Motors	1,206	1,598	2,059	2,572	3,111	3,263	3,421	3,587	3,761	3,944
708	C&I Prescriptive	Premium Efficiency Motor	Motors	19	25	33	41	49	52	54	57	60	62
709	C&I Prescriptive	Premium Efficiency Motor	Motors	66	88	113	141	171	179	188	197	207	217
710	C&I Prescriptive	Premium Efficiency Motor	Motors	221	293	377	471	570	597	626	657	689	722
711	C&I Prescriptive	Premium Efficiency Motor	Motors	278	369	475	594	718	753	789	828	868	910
712	C&I Prescriptive	Premium Efficiency Motor	Motors	293	389	501	625	756	793	832	872	914	959
713	C&I Prescriptive	Premium Efficiency Motor	Motors	462	612	789	985	1,192	1,250	1,310	1,374	1,441	1,511
714	C&I Prescriptive	Premium Efficiency Motor	Motors	472	626	807	1,008	1,219	1,279	1,341	1,406	1,474	1,546
715	C&I Prescriptive	Premium Efficiency Motor	Motors	795	1,054	1,358	1,696	2,052	2,151	2,256	2,365	2,480	2,601
716	C&I Prescriptive	Premium Efficiency Motor	Motors	687	910	1,173	1,465	1,772	1,859	1,949	2,044	2,143	2,247
717	C&I Prescriptive	Premium Efficiency Motor	Motors	863	1,144	1,474	1,841	2,227	2,335	2,448	2,567	2,692	2,823
718	C&I Prescriptive	Premium Efficiency Motor	Motors	35	46	59	74	90	94	99	104	109	114
719	C&I Prescriptive	Premium Efficiency Motor	Motors	71	94	121	151	182	191	200	210	220	231
720	C&I Prescriptive	Premium Efficiency Motor	Motors	329	436	561	701	848	889	933	978	1,025	1,075
721	C&I Prescriptive	Premium Efficiency Motor	Motors	322	427	551	688	832	872	915	959	1,006	1,055
722	C&I Prescriptive	Premium Efficiency Motor	Motors	495	656	845	1,055	1,277	1,339	1,404	1,472	1,543	1,618
723	C&I Prescriptive	Premium Efficiency Motor	Motors	670	888	1,144	1,429	1,728	1,812	1,900	1,992	2,089	2,191
724	C&I Prescriptive	Premium Efficiency Motor	Motors	931	1,234	1,590	1,986	2,402	2,518	2,641	2,769	2,903	3,045
725	C&I Prescriptive	Premium Efficiency Motor	Motors	1,856	2,460	3,170	3,959	4,789	5,022	5,266	5,521	5,790	6,071
726	C&I Prescriptive	Premium Efficiency Motor	Motors	2,251	2,984	3,845	4,803	5,810	6,092	6,388	6,698	7,023	7,365
727	C&I Prescriptive	Premium Efficiency Motor	Motors	2,298	3,046	3,925	4,903	5,930	6,219	6,521	6,837	7,169	7,518
728	C&I Prescriptive	Premium Efficiency Motor	Motors	32	42	55	68	83	87	91	95	100	105
729	C&I Prescriptive	Premium Efficiency Motor	Motors	106	140	180	225	272	286	299	314	329	345
730	C&I Prescriptive	Premium Efficiency Motor	Motors	402	532	686	857	1,036	1,087	1,139	1,195	1,253	1,314
731	C&I Prescriptive	Premium Efficiency Motor	Motors	517	685	883	1,102	1,333	1,398	1,466	1,537	1,612	1,690
732	C&I Prescriptive	Premium Efficiency Motor	Motors	554	734	946	1,181	1,429	1,498	1,571	1,647	1,727	1,811
733	C&I Prescriptive	Premium Efficiency Motor	Motors	689	914	1,177	1,471	1,779	1,865	1,956	2,051	2,150	2,255
734	C&I Prescriptive	Premium Efficiency Motor	Motors	701	929	1,197	1,496	1,809	1,897	1,989	2,086	2,187	2,293
735	C&I Prescriptive	Premium Efficiency Motor	Motors	1,349	1,789	2,305	2,879	3,482	3,652	3,829	4,015	4,210	4,414
736	C&I Prescriptive	Premium Efficiency Motor	Motors	1,469	1,948	2,510	3,135	3,792	3,976	4,169	4,372	4,584	4,807
737	C&I Prescriptive	Premium Efficiency Motor	Motors	1,794	2,308	3,064	3,828	4,630	4,855	5,090	5,338	5,597	5,869
738	C&I Prescriptive	Premium Efficiency Motor	Motors	151	200	258	322	389	408	428	449	471	494
739	C&I Prescriptive	Premium Efficiency Motor	Motors	277	367	472	590	714	748	785	823	863	905
740	C&I Prescriptive	Premium Efficiency Motor	Motors	1,296	1,718	2,214	2,766	3,345	3,508	3,678	3,857	4,044	4,241
741	C&I Prescriptive	Premium Efficiency Motor	Motors	1,404	1,861	2,398	2,996	3,623	3,799	3,984	4,178	4,380	4,593
742	C&I Prescriptive	Premium Efficiency Motor	Motors	1,884	2,497	3,218	4,020	4,863	5,099	5,346	5,606	5,878	6,164
743	C&I Prescriptive	Premium Efficiency Motor	Motors	2,715	3,599	4,637	5,793	7,006	7,347	7,704	8,078	8,470	8,882
744	C&I Prescriptive	Premium Efficiency Motor	Motors	3,756	4,978	6,415	8,014	9,693	10,164	10,658	11,175	11,718	12,287
745	C&I Prescriptive	Premium Efficiency Motor	Motors	8,325	11,035	14,220	17,763	21,485	22,529	23,623	24,771	25,974	27,235
746	C&I Prescriptive	Premium Efficiency Motor	Motors	11,591	15,364	19,799	24,732	29,914	31,367	32,891	34,488	36,164	37,920
747	C&I Prescriptive	Premium Efficiency Motor	Motors	12,464	16,522	21,291	26,596	32,168	33,731	35,369	37,088	38,889	40,778
748	C&I Prescriptive	Premium Efficiency Motor	Motors	145	192	247	309	373	391	410	430	451	473
749	C&I Prescriptive	Premium Efficiency Motor	Motors	451	598	770	962	1,164	1,220	1,280	1,342	1,407	1,475
750	C&I Prescriptive	Premium Efficiency Motor	Motors	1,411	1,871	2,411	3,012	3,643	3,820	4,005	4,200	4,404	4,618
751	C&I Prescriptive	Premium Efficiency Motor	Motors	1,787	2,369	3,053	3,814	4,613	4,837	5,072	5,318	5,576	5,847
752	C&I Prescriptive	Premium Efficiency Motor	Motors	1,891	2,506	3,230	4,034	4,880	5,117	5,365	5,626	5,899	6,186
753	C&I Prescriptive	Premium Efficiency Motor	Motors	2,778	3,682	4,745	5,927	7,169	7,517	7,882	8,265	8,667	9,088
754	C&I Prescriptive	Premium Efficiency Motor	Motors	2,819	3,737	4,816	6,016	7,277	7,630	8,001	8,389	8,797	9,224
755	C&I Prescriptive	Premium Efficiency Motor	Motors	6,983	9,257	11,929	14,901	18,023	18,898	19,816	20,779	21,788	22,847
756	C&I Prescriptive	Premium Efficiency Motor	Motors	9,220	12,221	15,749	19,673	23,795	24,951	26,163	27,433	28,766	30,163
757	C&I Prescriptive	Premium Efficiency Motor	Motors	10,859	14,395	18,549	23,171	28,026	29,387	30,815	32,312	33,881	35,527
758	C&I Prescriptive	Premium Efficiency Motor	Motors	96	128	164	205	248	260	273	286	300	315
759	C&I Prescriptive	Premium Efficiency Motor	Motors	358	474	611	764	924	968	1,016	1,065	1,117	1,171
760	C&I Prescriptive	Premium Efficiency Motor	Motors	1,509	2,000	2,577	3,219	3,894	4,083	4,281	4,489	4,707	4,936
761	C&I Prescriptive	Premium Efficiency Motor	Motors	1,875	2,486	3,203	4,001	4,839	5,074	5,321	5,579	5,850	6,135
762	C&I Prescriptive	Premium Efficiency Motor	Motors	2,175	2,883	3,715	4,640	5,612	5,885	6,171	6,471	6,785	7,115
763	C&I Prescriptive	Premium Efficiency Motor	Motors	3,363	4,458	5,745	7,176	8,679	9,101	9,543	10,007	10,493	11,002
764	C&I Prescriptive	Premium Efficiency Motor	Motors	4,179	5,540	7,139	8,918	10,786	11,310	11,860	12,436	13,040	13,673
765	C&I Prescriptive	Premium Efficiency Motor	Motors	9,406	12,469	16,067	20,070	24,276	25,455	26,692	27,988	29,348	30,773
766	C&I Prescriptive	Premium Efficiency Motor	Motors	8,554	11,339	14,612	18,252	22,077	23,149	24,274	25,453	26,689	27,986
767	C&I Prescriptive	Premium Efficiency Motor	Motors	7,869	10,430	13,441	16,789	20,307	21,294	22,328	23,413	24,550	25,743
768	C&I Prescriptive	Premium Efficiency Motor	Motors	56	74	95	119	144	151	158	166	174	182
769	C&I Prescriptive	Premium Efficiency Motor	Motors	345	457	589	736	890	934	979	1,027	1,076	1,129
770	C&I Prescriptive	Premium Efficiency Motor	Motors	1,548	2,052	2,644	3,302	3,994	4,188	4,392	4,605	4,829	5,063

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
771	C&I Prescriptive	Premium Efficiency Motor	Motors	1,889	2,504	3,227	4,031	4,875	5,112	5,361	5,621	5,894	6,180
772	C&I Prescriptive	Premium Efficiency Motor	Motors	1,940	2,572	3,314	4,140	5,008	5,251	5,506	5,773	6,054	6,348
773	C&I Prescriptive	Premium Efficiency Motor	Motors	2,723	3,610	4,652	5,811	7,028	7,370	7,728	8,103	8,496	8,909
774	C&I Prescriptive	Premium Efficiency Motor	Motors	2,254	2,988	3,850	4,809	5,817	6,100	6,396	6,707	7,032	7,374
775	C&I Prescriptive	Premium Efficiency Motor	Motors	5,230	6,933	8,933	11,159	13,498	14,153	14,841	15,562	16,317	17,110
776	C&I Prescriptive	Premium Efficiency Motor	Motors	3,759	4,983	6,422	8,022	9,702	10,174	10,668	11,186	11,729	12,299
777	C&I Prescriptive	Premium Efficiency Motor	Motors	4,932	6,538	8,425	10,524	12,730	13,348	13,996	14,676	15,389	16,137
778	C&I Custom	Compressed Air-O&M	All systems	56,925	58,348	59,807	61,302	62,835	65,887	69,087	72,443	75,962	79,652
779	C&I Custom	Compressed Air - Controls	All systems	61,571	63,110	64,688	66,305	67,963	71,264	74,725	78,355	82,161	86,152
780	C&I Custom	Compressed Air - System Optimization	All systems	83,813	85,909	88,056	90,258	92,514	97,008	101,720	106,661	111,842	117,275
781	C&I Custom	Compressed Air- Sizing	All systems	9,310	9,543	9,781	10,026	10,277	10,776	11,299	11,848	12,424	13,027
782	C&I Custom	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custom	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custom	Comp Air - Motor practices-1 (1-5 HP)	All systems	2,602	2,667	2,734	2,802	2,872	3,011	3,158	3,311	3,472	3,641
785	C&I Custom	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custom	Comp Air - ASD (6-100 hp)	All systems	4,986	5,111	5,238	5,369	5,503	5,771	6,051	6,345	6,653	6,976
787	C&I Custom	Comp Air - Motor practices-1 (6-100 HP)	All systems	19,422	19,908	20,406	20,916	21,439	22,480	23,572	24,717	25,918	27,177
788	C&I Custom	Comp Air - Replace 100+ HP motor	All systems	25,277	25,909	26,557	27,221	27,901	29,257	30,678	32,168	33,731	35,369
789	C&I Custom	Comp Air - ASD (100+ hp)	All systems	64,683	66,300	67,957	69,656	71,398	74,866	78,502	82,315	86,314	90,507
790	C&I Custom	Comp Air - Motor practices-1 (100+ HP)	All systems	30,426	31,187	31,967	32,766	33,585	35,216	36,927	38,721	40,601	42,574
791	C&I Custom	Power recovery	All systems	5,334	5,467	5,604	5,744	5,888	6,174	6,474	6,788	7,118	7,464
792	C&I Custom	Refinery Controls	All systems	26,721	27,390	28,074	28,776	29,496	30,928	32,431	34,006	35,658	37,390
793	C&I Custom	Energy Star Transformers	All systems	1,264	1,295	1,328	1,361	1,395	1,463	1,534	1,608	1,686	1,768
794	C&I Custom	Fans - O&M	All systems	2,586	2,651	2,717	2,785	2,855	2,993	3,139	3,291	3,451	3,619
795	C&I Custom	Fans - Controls	All systems	158,379	162,339	166,397	170,557	174,821	183,313	192,217	201,554	211,345	221,611
796	C&I Custom	Fans - System Optimization	All systems	69,147	70,876	72,648	74,464	76,326	80,033	83,921	87,997	92,272	96,754
797	C&I Custom	Fans- Improve components	All systems	12,245	12,551	12,865	13,186	13,516	14,172	14,861	15,583	16,340	17,133
798	C&I Custom	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custom	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custom	Fans - Motor practices-1 (1-5 HP)	All systems	2,602	2,667	2,734	2,802	2,872	3,011	3,158	3,311	3,472	3,641
801	C&I Custom	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custom	Fans - ASD (6-100 hp)	All systems	4,986	5,111	5,238	5,369	5,503	5,771	6,051	6,345	6,653	6,976
803	C&I Custom	Fans - Motor practices-1 (6-100 HP)	All systems	19,422	19,908	20,406	20,916	21,439	22,480	23,572	24,717	25,918	27,177
804	C&I Custom	Fans - Replace 100+ HP motor	All systems	25,277	25,909	26,557	27,221	27,901	29,257	30,678	32,168	33,731	35,369
805	C&I Custom	Fans - ASD (100+ hp)	All systems	64,683	66,300	67,957	69,656	71,398	74,866	78,502	82,315	86,314	90,507
806	C&I Custom	Fans - Motor practices-1 (100+ HP)	All systems	30,426	31,187	31,967	32,766	33,585	35,216	36,927	38,721	40,601	42,574
807	C&I Custom	Optimize drying process	All systems	224,161	229,765	235,509	241,397	247,432	259,451	272,054	285,269	299,126	313,656
808	C&I Custom	Pumps - O&M	All systems	10,345	10,603	10,868	11,140	11,419	11,973	12,555	13,165	13,804	14,475
809	C&I Custom	Pumps - Controls	All systems	108,287	110,994	113,769	116,613	119,528	125,335	131,423	137,807	144,501	151,520
810	C&I Custom	Pumps - System Optimization	All systems	223,823	229,419	235,154	241,033	247,059	259,060	271,643	284,839	298,675	313,183
811	C&I Custom	Pumps - Sizing	All systems	48,979	50,204	51,459	52,745	54,064	56,690	59,444	62,331	65,359	68,534
812	C&I Custom	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custom	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custom	Pumps - Motor practices-1 (1-5 HP)	All systems	2,602	2,667	2,734	2,802	2,872	3,011	3,158	3,311	3,472	3,641
815	C&I Custom	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custom	Pumps - ASD (6-100 hp)	All systems	4,986	5,111	5,238	5,369	5,503	5,771	6,051	6,345	6,653	6,976
817	C&I Custom	Pumps - Motor practices-1 (6-100 HP)	All systems	19,422	19,908	20,406	20,916	21,439	22,480	23,572	24,717	25,918	27,177
818	C&I Custom	Pumps - Replace 100+ HP motor	All systems	25,277	25,909	26,557	27,221	27,901	29,257	30,678	32,168	33,731	35,369
819	C&I Custom	Pumps - ASD (100+ hp)	All systems	64,683	66,300	67,957	69,656	71,398	74,866	78,502	82,315	86,314	90,507
820	C&I Custom	Pumps - Motor practices-1 (100+ HP)	All systems	30,426	31,187	31,967	32,766	33,585	35,216	36,927	38,721	40,601	42,574
821	C&I Custom	Efficient refrigeration - operations	Refrigeration	371	380	390	399	409	429	450	472	495	519
822	C&I Custom	Optimization refrigeration	Refrigeration	1,436	1,472	1,509	1,546	1,585	1,662	1,743	1,828	1,916	2,009
823	C&I Custom	Bakery - process	Process	1,543	1,581	1,621	1,661	1,703	1,785	1,872	1,963	2,059	2,159
824	C&I Custom	Bakery - process (mixing)	Process	84	86	88	90	93	97	102	107	112	117
825	C&I Custom	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custom	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custom	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custom	O&M - extruders / injection molding	Machine Drive	682	699	717	735	753	790	828	868	911	955
829	C&I Custom	Extruders / injection molding - multipump	Machine Drive	6,471	6,633	6,798	6,968	7,143	7,490	7,853	8,235	8,635	9,054
830	C&I Custom	Direct drive extruders	Machine Drive	1,339	1,373	1,407	1,442	1,478	1,550	1,625	1,704	1,787	1,874
831	C&I Custom	Injection molding - impulse cooling	Machine Drive	2,831	2,902	2,974	3,049	3,125	3,277	3,436	3,603	3,778	3,961
832	C&I Custom	Injection molding - direct drive	Machine Drive	1,939	1,987	2,037	2,088	2,140	2,244	2,353	2,467	2,587	2,713
833	C&I Custom	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custom	Process controls	Process	287	294	302	309	317	332	348	365	383	402
835	C&I Custom	Top-heating (glass)	Process Heating	173	178	182	187	191	201	210	220	231	242
836	C&I Custom	Process controls	Process	2,970	3,045	3,121	3,199	3,279	3,438	3,605	3,780	3,964	4,156
837	C&I Custom	Efficient electric melting	Process Heating	5,902	6,049	6,200	6,355	6,514	6,831	7,163	7,510	7,875	8,258
838	C&I Custom	Near net shape casting	Machine Drive	1,311	1,344	1,378	1,412	1,447	1,518	1,592	1,669	1,750	1,835
839	C&I Custom	Optimization process (M&T)	Process	253	259	266	272	279	293	307	322	337	354
840	C&I Custom	Scheduling	Process	222	227	233	239	245	256	269	282	296	310
841	C&I Custom	Efficient curing ovens	Process Heating	370	379	389	398	408	428	449	471	494	518
842	C&I Custom	Machinery	Machine Drive	476	488	500	512	525	551	578	606	635	666
843	C&I Custom	Optimization process (M&T)	Process	108	111	114	116	119	125	131	138	144	151
844	C&I Custom	Scheduling	Process	95	97	100	102	105	110	115	121	126	133
845	C&I Custom	Efficient curing ovens	Process Heating	55	56	58	59	61	64	67	70	73	77
846	C&I Custom	Machinery	Machine Drive	503	515	528	541	555	582	610	640	671	703
847	C&I Custom	Optimization process (M&T)	Process	80	82	84	86	88	92	97	101	106	111

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
848	C&I Custom	Scheduling	Process	87	89	92	94	96	101	106	111	116	122
849	C&I Custom	Efficient curing ovens	Process Heating	92	94	97	99	102	106	112	117	123	129
850	C&I Custom	Machinery	Machine Drive	135	138	142	145	149	156	164	172	180	189
851	C&I Custom	Scheduling	Process	110	113	116	119	122	128	134	140	147	154
852	C&I Custom	Efficient curing ovens	Process Heating	166	170	175	179	183	192	202	211	222	233
853	C&I Custom	Machinery	Machine Drive	64	66	68	69	71	75	78	82	86	90
854	C&I Custom	Efficient processes (welding, etc.)	Process	721	739	758	777	796	835	875	918	963	1,009
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	228,849	262,714	299,393	339,082	381,991	421,575	463,608	508,221	555,554	605,752
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart I	All systems	0	0	101,193	105,711	110,429	115,793	121,418	127,316	133,500	139,985
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart I	All systems	0	0	97,526	101,880	106,427	111,597	117,018	122,702	128,662	134,912
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	0	0	0	0	0	0	0	0	0	0
865	Commercial Demand Credit	Commercial Demand Credit	All systems	205,000	210,125	215,378	220,763	226,262	231,939	237,737	243,681	249,773	256,017
Education Program				535,754	694,661	850,125	1,000,118	1,163,089	1,218,293	1,233,452	1,292,008	1,353,375	1,417,688
Information Program				535,754	694,661	850,125	1,000,118	1,163,089	1,218,293	1,233,452	1,292,008	1,353,375	1,417,688
Portfolio Administration				1,071,508	1,389,323	1,700,250	2,000,235	2,326,178	2,436,586	2,466,904	2,584,017	2,706,750	2,835,375
Evaluation, Measurement, and Verification				1,071,508	1,389,323	1,700,250	2,000,235	2,326,178	2,436,586	2,466,904	2,584,017	2,706,750	2,835,375

8: Administrative Costs

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
ID	Program	Efficient Technology	HVAC System and/or End-use										
1	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	359,281	376,733	395,033	414,222	434,343	455,441	477,564	500,762	525,086	550,592
2	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	79,118	82,962	86,991	91,217	95,648	100,294	105,166	110,274	115,631	121,247
3	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	19,078	20,005	20,977	21,996	23,064	24,184	25,359	26,591	27,883	29,237
4	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	54,473	57,119	59,893	62,802	65,853	69,052	72,406	75,923	79,611	83,478
5	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Gas Furnace / Central AC	161,705	169,560	177,796	186,433	195,489	204,985	214,942	225,383	236,331	247,810
6	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Elec Res / Central AC	34,263	35,927	37,672	39,502	41,421	43,433	45,543	47,755	50,074	52,507
7	Residential HVAC Diagnostics & Tune-I	Central AC (Correct charge, Existing)	Heat Pump / Central AC	25,730	26,980	28,290	29,664	31,105	32,616	34,200	35,862	37,604	39,430
8	Residential Multifamily	Central AC (Correct charge, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
9	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Gas Furnace / Central AC	392,028	411,070	431,038	451,976	473,930	496,952	521,091	546,403	572,945	600,775
10	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Elec Res / Central AC	285,949	299,839	314,403	329,675	345,689	362,481	380,089	398,552	417,911	438,211
11	Residential HVAC Diagnostics & Tune-I	Increase duct sizes or add new ducts	Heat Pump / Central AC	146,919	154,056	161,539	169,386	177,614	186,242	195,288	204,775	214,721	225,152
12	Residential Multifamily	Increase duct sizes or add new ducts	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
13	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Gas Furnace / Central AC	31,155	32,668	34,255	35,919	37,663	39,493	41,411	43,423	45,532	47,744
14	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Elec Res / Central AC	24,676	25,875	27,132	28,450	29,832	31,281	32,800	34,393	36,064	37,816
15	Residential HVAC Diagnostics & Tune-I	Increase blower speed	Heat Pump / Central AC	13,955	14,633	15,343	16,089	16,870	17,690	18,549	19,450	20,395	21,385
16	Residential Multifamily	Increase blower speed	Gas Furnace / Central AC - MF	31,909	33,459	35,084	36,788	38,575	40,449	42,414	44,474	46,635	48,900
17	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Gas Furnace / Central AC	467,197	489,892	513,688	538,640	564,805	592,240	621,008	651,174	682,805	715,972
18	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Elec Res / Central AC	186,654	195,721	205,228	215,197	225,650	236,611	248,104	260,156	272,793	286,044
19	Residential HVAC Diagnostics & Tune-I	Duct Leakage 5%	Heat Pump / Central AC	108,368	113,632	119,152	124,940	131,009	137,373	144,046	151,043	158,379	166,073
20	Residential Multifamily	Duct Leakage 5%	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
21	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
22	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
23	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
24	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
25	Residential New HVAC	Size AC units to 100% of Manual J	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
26	Residential New HVAC	Size AC units to 100% of Manual J	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
27	Residential New HVAC	Size AC units to 100% of Manual J	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
28	Residential Multifamily	Size AC units to 100% of Manual J	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
29	Residential New HVAC	Duct Insulation R-8	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
30	Residential New HVAC	Duct Insulation R-8	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
31	Residential New HVAC	Duct Insulation R-8	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
32	Residential Multifamily	Duct Insulation R-8	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
33	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
34	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
35	Residential New HVAC	ENERGY STAR Central AC (16 SEER, Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
36	Residential Multifamily	ENERGY STAR Central AC (16 SEER, Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
37	Residential New HVAC	ENERGY STAR Central AC (14 SEER, Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
38	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	25,985	27,248	28,571	29,959	31,414	32,940	34,540	36,218	37,977	39,822
39	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	15,294	16,037	16,816	17,633	18,489	19,387	20,329	21,316	22,352	23,438
40	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	8,659	9,080	9,521	9,984	10,469	10,977	11,510	12,069	12,656	13,270
41	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
42	Home Energy Performance	Ceiling Insulation (R-30)	Gas Furnace / Central AC	22,231	23,311	24,444	25,631	26,876	28,181	29,550	30,986	32,491	34,069
43	Home Energy Performance	Ceiling Insulation (R-30)	Elec Res / Central AC	18,804	19,717	20,675	21,679	22,733	23,837	24,995	26,209	27,482	28,817
44	Home Energy Performance	Ceiling Insulation (R-30)	Heat Pump / Central AC	7,532	7,898	8,282	8,684	9,106	9,548	10,012	10,498	11,008	11,543
45	Residential Multifamily	Ceiling Insulation (R-30)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
46	Home Energy Performance	R-11 Wall Insulation	Gas Furnace / Central AC	104,317	109,384	114,697	120,269	126,111	132,236	138,660	145,395	152,458	159,863
47	Home Energy Performance	R-11 Wall Insulation	Elec Res / Central AC	100,211	105,078	110,183	115,535	121,147	127,032	133,202	139,672	146,457	153,571
48	Home Energy Performance	R-11 Wall Insulation	Heat Pump / Central AC	43,394	45,502	47,712	50,029	52,460	55,008	57,680	60,482	63,419	66,500
49	Residential Multifamily	R-11 Wall Insulation	Gas Furnace / Central AC - MF	7,968	8,355	8,761	9,187	9,633	10,101	10,592	11,106	11,646	12,211
50	Home Energy Performance	Efficient Basement Insulation (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
51	Home Energy Performance	Efficient Basement Insulation (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
52	Home Energy Performance	Efficient Basement Insulation (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
53	Home Energy Performance	Infiltration = 0.35 ACH	Gas Furnace / Central AC	200,216	209,942	220,140	230,833	242,046	253,803	266,132	279,059	292,614	306,828
54	Home Energy Performance	Infiltration = 0.35 ACH	Elec Res / Central AC	96,952	101,661	106,600	111,778	117,207	122,901	128,870	135,130	141,694	148,577
55	Home Energy Performance	Infiltration = 0.35 ACH	Heat Pump / Central AC	104,635	109,718	115,048	120,636	126,496	132,640	139,083	145,839	152,924	160,352
56	Residential Multifamily	Infiltration = 0.35 ACH	Gas Furnace / Central AC - MF	43,356	45,462	47,670	49,986	52,414	54,960	57,630	60,429	63,365	66,443
57	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
58	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
59	Home Energy Performance	Single Pane Win. w/ Storm Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
60	Residential Multifamily	Single Pane Win. w/ Storm Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
61	Residential Low Income	Low-E Windows (Existing)	Gas Furnace / Central AC	233,243	239,075	245,051	251,178	257,457	263,894	270,491	277,253	284,185	291,289
62	Residential Low Income	Low-E Windows (Existing)	Elec Res / Central AC	97,955	100,403	102,914	105,486	108,124	110,827	113,597	116,437	119,348	122,332
63	Residential Low Income	Low-E Windows (Existing)	Heat Pump / Central AC	72,678	74,495	76,358	78,267	80,223	82,229	84,285	86,392	88,551	90,765
64	Residential Multifamily	Low-E Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
65	Home Energy Performance	Efficient Windows (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
66	Home Energy Performance	Efficient Windows (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
67	Home Energy Performance	Efficient Windows (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
68	Residential Multifamily	Efficient Windows (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
69	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
70	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
71	Home Energy Performance	Solar Shading on E & W Win. (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
72	Residential Multifamily	Solar Shading on E & W Win. (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
73	Home Energy Performance	Planting Trees on E & W (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
74	Home Energy Performance	Planting Trees on E & W (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
75	Home Energy Performance	Planting Trees on E & W (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
76	Residential Multifamily	Planting Trees on E & W (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
77	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	1,571,023	1,647,335	1,727,355	1,811,261	1,899,243	1,991,499	2,088,236	2,189,672	2,296,035	2,407,565

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
78	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Elec Res / Central AC	294,694	309,009	324,019	339,758	356,262	373,567	391,713	410,740	430,692	451,613
79	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Heat Pump / Central AC	166,654	174,750	183,238	192,139	201,472	211,259	221,520	232,281	243,564	255,395
80	Residential Lighting & Appliances	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC - MF	1,193,615	1,251,595	1,312,391	1,376,140	1,442,986	1,513,079	1,586,577	1,663,645	1,744,457	1,829,194
81	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
82	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
83	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
84	Residential Lighting & Appliances	ENERGY STAR Refrigerator (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
85	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC	171,916	180,267	189,024	198,205	207,833	217,929	228,515	239,615	251,254	263,459
86	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Elec Res / Central AC	23,764	24,918	26,128	27,398	28,728	30,124	31,587	33,121	34,730	36,417
87	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Heat Pump / Central AC	16,881	17,701	18,561	19,463	20,408	21,399	22,439	23,529	24,672	25,870
88	Residential Lighting & Appliances	ENERGY STAR Dishwasher (Existing)	Gas Furnace / Central AC - MF	130,848	137,204	143,869	150,857	158,185	165,869	173,926	182,374	191,233	200,522
89	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
90	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
91	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
92	Residential Lighting & Appliances	ENERGY STAR Clotheswasher (Post-2006) (	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
93	Residential Low Income	Programmable Thermostat (Existing)	Gas Furnace / Central AC	11,578	11,867	12,164	12,468	12,780	13,099	13,427	13,762	14,107	14,459
94	Residential Low Income	Programmable Thermostat (Existing)	Elec Res / Central AC	2,172	2,226	2,282	2,339	2,397	2,457	2,519	2,582	2,646	2,712
95	Residential Low Income	Programmable Thermostat (Existing)	Heat Pump / Central AC	1,228	1,259	1,290	1,323	1,356	1,390	1,424	1,460	1,496	1,534
96	Residential Multifamily	Programmable Thermostat (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
97	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC	6,059	6,353	6,661	6,985	7,324	7,680	8,053	8,444	8,854	9,285
98	Home Energy Performance	Faucet Aerators (Existing)	Elec Res / Central AC	4,749	4,980	5,222	5,475	5,741	6,020	6,313	6,619	6,941	7,278
99	Home Energy Performance	Faucet Aerators (Existing)	Heat Pump / Central AC	2,686	2,816	2,953	3,096	3,247	3,405	3,570	3,743	3,925	4,116
100	Home Energy Performance	Faucet Aerators (Existing)	Gas Furnace / Central AC - MF	14,541	15,247	15,988	16,764	17,579	18,432	19,328	20,267	21,251	22,283
101	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC	6,989	7,329	7,685	8,058	8,450	8,860	9,290	9,742	10,215	10,711
102	Home Energy Performance	Low Flow Shower Heads (Existing)	Elec Res / Central AC	14,409	15,109	15,842	16,612	17,419	18,265	19,152	20,083	21,058	22,081
103	Home Energy Performance	Low Flow Shower Heads (Existing)	Heat Pump / Central AC	13,779	14,448	15,150	15,886	16,658	17,467	18,315	19,205	20,138	21,116
104	Home Energy Performance	Low Flow Shower Heads (Existing)	Gas Furnace / Central AC - MF	10,985	11,519	12,078	12,665	13,280	13,925	14,602	15,311	16,055	16,835
105	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC	53,833	56,448	59,190	62,065	65,080	68,241	71,556	75,032	78,677	82,498
106	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Elec Res / Central AC	142,913	149,855	157,134	164,767	172,771	181,163	189,963	199,190	208,866	219,012
107	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Heat Pump / Central AC	76,690	80,416	84,322	88,418	92,713	97,216	101,938	106,890	112,082	117,527
108	Home Energy Performance	Hot Water Pipe Insulation (Existing)	Gas Furnace / Central AC - MF	1,638	1,718	1,801	1,889	1,980	2,077	2,172	2,283	2,394	2,510
109	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC	255	268	281	294	309	324	339	356	373	391
110	Home Energy Performance	Hot Water Insulation (Existing)	Elec Res / Central AC	7,308	7,663	8,035	8,425	8,835	9,264	9,714	10,185	10,680	11,199
111	Home Energy Performance	Hot Water Insulation (Existing)	Heat Pump / Central AC	4,133	4,333	4,544	4,765	4,996	5,239	5,493	5,760	6,040	6,333
112	Home Energy Performance	Hot Water Insulation (Existing)	Gas Furnace / Central AC - MF	19,397	20,339	21,327	22,363	23,449	24,588	25,782	27,035	28,348	29,725
113	Residential Low Income	Doors R-4 (Existing)	Gas Furnace / Central AC	29,876	30,623	31,389	32,174	32,978	33,802	34,647	35,514	36,401	37,311
114	Residential Low Income	Doors R-4 (Existing)	Elec Res / Central AC	17,381	17,816	18,261	18,718	19,186	19,666	20,157	20,661	21,178	21,707
115	Residential Low Income	Doors R-4 (Existing)	Heat Pump / Central AC	9,984	10,234	10,489	10,752	11,020	11,296	11,588	11,868	12,165	12,469
116	Residential Multifamily	Doors R-4 (Existing)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
117	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	25,784	27,036	28,349	29,726	31,170	32,685	34,272	35,937	37,683	39,513
118	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	23,001	24,118	25,290	26,518	27,806	29,157	30,573	32,058	33,616	35,249
119	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	9,526	9,989	10,474	10,982	11,516	12,075	12,662	13,277	13,922	14,598
120	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
121	Home Energy Performance	Ceiling Insulation (R-38)	Gas Furnace / Central AC	19,632	20,586	21,586	22,634	23,734	24,887	26,096	27,363	28,692	30,086
122	Home Energy Performance	Ceiling Insulation (R-38)	Elec Res / Central AC	23,682	24,833	26,039	27,304	28,630	30,021	31,479	33,008	34,611	36,293
123	Home Energy Performance	Ceiling Insulation (R-38)	Heat Pump / Central AC	7,461	7,823	8,203	8,602	9,019	9,458	9,917	10,399	10,904	11,433
124	Residential Multifamily	Ceiling Insulation (R-38)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
125	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Gas Furnace / Central AC	15,752	16,517	17,319	18,160	19,043	19,968	20,937	21,955	23,021	24,139
126	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	2,927	3,069	3,218	3,375	3,539	3,710	3,891	4,080	4,278	4,486
127	Residential Lighting & Appliances	ENERGY STAR Window AC (10.8 EER, Exis	Elec Res / Central AC	2,247	2,356	2,471	2,591	2,717	2,849	2,987	3,132	3,284	3,444
128	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
129	Residential New HVAC	Ground Source Heat Pump	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
130	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Gas Furnace / Central AC	22,439	23,529	24,672	25,871	27,127	28,445	29,827	31,276	32,795	34,388
131	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	2,645	2,773	2,908	3,049	3,197	3,353	3,515	3,686	3,865	4,053
132	Residential Lighting & Appliances	ENERGY STAR Ceiling Fan	Elec Res / Central AC	2,498	2,619	2,747	2,880	3,020	3,167	3,321	3,482	3,651	3,828
133	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC	47,973	50,303	52,747	55,309	57,995	60,812	63,766	66,864	70,112	73,517
134	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Elec Res / Central AC	8,999	9,436	9,894	10,375	10,879	11,407	11,961	12,542	13,152	13,790
135	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Heat Pump / Central AC	5,089	5,336	5,595	5,867	6,152	6,451	6,764	7,093	7,437	7,799
136	Residential Lighting & Appliances	ENERGY STAR De-humidifier (Existing)	Gas Furnace / Central AC - MF	36,448	38,219	40,075	42,022	44,063	46,203	48,448	50,801	53,269	55,856
137	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC	122,134	128,067	134,288	140,811	147,650	154,823	162,343	170,229	178,498	187,168
138	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Elec Res / Central AC	22,910	24,023	25,190	26,413	27,696	29,042	30,452	31,932	33,483	35,109
139	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Heat Pump / Central AC	12,956	13,585	14,245	14,937	15,663	16,424	17,221	18,058	18,935	19,855
140	Residential Lighting & Appliances	ENERGY STAR Freezer (Existing)	Gas Furnace / Central AC - MF	81,106	85,045	89,176	93,508	98,050	102,813	107,807	113,044	118,535	124,293
141	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
142	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
143	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
144	Home Energy Performance	Home Performance with ENERGY STAR (Exi	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
145	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
146	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Heat Pump / Central AC	0	0	0	0	0	0	0	0	0	0
147	ENERGY STAR Homes Program	ENERGY STAR Home (New)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
148	Residential New HVAC	Existing Home (8.2/8.5 HSPF 14 SEER)	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
149	Residential Appliance Recycling	Refrigerator recycling	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
150	Residential Low Income	Standard Refrigerator (Existing) - NAECA	Gas Furnace / Central AC	623,915	639,512	655,500	671,888	688,685	705,902	723,550	741,638	760,179	779,184
151	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Elec Res / Central AC	0	0	0	0	0	0	0	0	0	0
152	Residential Lighting & Appliances	Heat pump water heater, EF=2.9	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0
153	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0	0
154	Residential Lighting & Appliances	High Efficiency Water Heater - Gas, EF = 0.6:	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
ID	Program	Efficient Technology	HVAC System and/or End-use									
155	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
156	Residential Lighting & Appliances	Point of Use Water Heat	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
157	Home Energy Performance	Whole House Fan	Gas Furnace / Central AC	0	0	0	0	0	0	0	0	0
158	Residential Low Income	Ceiling Insulation (R-30)	Gas Furnace / Central AC	51,142	52,421	53,732	55,075	56,452	57,863	59,310	60,792	62,312
159	Residential Low Income	R-11 Wall Insulation	Gas Furnace / Central AC	241,433	247,469	253,655	259,997	266,497	273,159	279,988	286,988	294,163
160	Residential Low Income	Compact fluorescent lamp (CFL)	Gas Furnace / Central AC	25,409	26,045	26,696	27,363	28,047	28,748	29,467	30,204	30,959
161	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	31,442	32,969	34,571	36,250	38,011	39,857	41,793	43,823	45,952
162	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	36,056	37,808	39,644	41,570	43,589	45,707	47,927	50,255	52,696
163	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	41,471	43,485	45,598	47,812	50,135	52,570	55,124	57,802	60,609
164	Residential Multifamily	Integral CFL, screw-in	Gas Furnace / Central AC - MF	43,509	45,622	47,838	50,162	52,599	55,154	57,833	60,642	63,588
165	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	41,916	43,952	46,087	48,325	50,673	53,134	55,715	58,422	61,259
166	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	50,683	53,145	55,726	58,433	61,272	64,248	67,369	70,641	74,073
167	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	54,976	57,647	60,447	63,383	66,462	69,690	73,075	76,625	80,347
168	Residential Multifamily	Modular CFL, pin based	Gas Furnace / Central AC - MF	59,162	62,036	65,050	68,210	71,523	74,997	78,640	82,460	86,465
169	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	16,388	17,184	18,018	18,894	19,811	20,774	21,783	22,841	23,950
170	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	22,468	23,559	24,703	25,903	27,162	28,481	29,864	31,315	32,836
171	Residential Multifamily	1 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	14,003	14,684	15,397	16,145	16,929	17,751	18,614	19,518	20,466
172	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	3,651	3,828	4,014	4,209	4,414	4,628	4,853	5,089	5,336
173	Residential Multifamily	2 4' T8 32 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	21,530	22,576	23,673	24,823	26,029	27,293	28,619	30,009	31,466
174	Residential Multifamily	2 4' Super T8 28 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,130	1,185	1,242	1,303	1,366	1,432	1,502	1,575	1,651
175	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
176	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	967	1,014	1,063	1,115	1,169	1,225	1,285	1,347	1,413
177	Residential Multifamily	1 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	659	691	725	760	797	835	876	919	963
178	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
179	Residential Multifamily	2 8' T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	1,062	1,114	1,168	1,225	1,284	1,346	1,412	1,480	1,552
180	Residential Multifamily	2 8' Super T8 59 watt lamps with electronic ballast	Gas Furnace / Central AC - MF	80	84	88	93	97	102	107	112	117
181	Residential Multifamily	Occupancy sensor - Assume control 3 2-lamp	Gas Furnace / Central AC - MF	398	418	438	459	482	505	530	555	582
182	Residential Multifamily	Timeclock - Controlling 4 - 70W (95W w/ballast)	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
183	Residential Multifamily	Photocell - Assume in conjunction with time-c	Gas Furnace / Central AC - MF	0	0	0	0	0	0	0	0	0
184	Residential Multifamily	LED Exit Sign (new)	Gas Furnace / Central AC - MF	260	273	286	300	315	330	346	363	381
185	Residential Multifamily	LED Exit Sign (retrofit kit)	Gas Furnace / Central AC - MF	207	217	228	239	251	263	275	289	303
186	Residential Multifamily	Electroluminescent Exit Sign (New)	Gas Furnace / Central AC - MF	381	399	418	439	460	482	506	530	556
187	Residential Multifamily	Electroluminescent Exit Sign Retrofit Kit	Gas Furnace / Central AC - MF	373	391	410	430	451	473	496	520	545
188	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
189	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
190	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
191	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
192	C&I Prescriptive	Boiler-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
193	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
194	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
195	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
196	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
197	C&I Prescriptive	Boiler-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0
198	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
199	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
200	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
201	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
202	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
203	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
204	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
205	C&I Prescriptive	Ceiling Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0
206	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
207	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
208	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
209	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
210	C&I Prescriptive	Ceiling Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0
211	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
212	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
213	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
214	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	5,906	6,193	6,494	6,809	7,140	7,487	7,851	8,232	8,632
215	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	33,436	35,060	36,763	38,549	40,422	42,385	44,444	46,603	48,866
216	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	5,691	5,967	6,257	6,561	6,880	7,214	7,564	7,932	8,317
217	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	33,001	34,604	36,285	38,047	39,895	41,833	43,865	45,996	48,230
218	C&I Prescriptive	Chiller Efficiency	Chiller & Boiler	5,645	5,920	6,207	6,509	6,825	7,156	7,504	7,868	8,251
219	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
220	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
221	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
222	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
223	C&I Prescriptive	Chiller-Reset	Chiller & Boiler	0	0	0	0	0	0	0	0	0
224	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
225	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
226	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
227	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
228	C&I Prescriptive	Chiller-Reset	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0
229	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
230	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0
231	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
232	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	12,976	13,606	14,267	14,960	15,687	16,449	17,248	18,086	18,964	19,885
233	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	36,642	38,421	40,288	42,245	44,297	46,449	48,705	51,071	53,551	56,153
234	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	7,144	7,491	7,855	8,236	8,636	9,056	9,495	9,957	10,440	10,948
235	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	28,092	29,457	30,888	32,388	33,961	35,611	37,341	39,155	41,057	43,051
236	C&I Retro-commissioning	Cleaned Coil	Chiller & Boiler	14,261	14,953	15,680	16,441	17,240	18,078	18,956	19,876	20,842	21,854
237	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	13,486	14,141	14,828	15,548	16,303	17,095	17,925	18,796	19,709	20,666
238	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	3,469	3,638	3,814	3,999	4,194	4,397	4,611	4,835	5,070	5,316
239	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	5,680	5,956	6,245	6,549	6,867	7,200	7,550	7,917	8,301	8,705
240	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	13,570	14,229	14,921	15,645	16,405	17,202	18,038	18,914	19,833	20,796
241	C&I Retro-commissioning	Cleaned Coil	PTAC w Elec Heat	3,686	3,865	4,053	4,250	4,456	4,673	4,900	5,138	5,387	5,649
242	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	13,999	14,679	15,393	16,140	16,924	17,746	18,608	19,512	20,460	21,454
243	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	13,191	13,831	14,503	15,208	15,946	16,721	17,533	18,385	19,278	20,214
244	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	5,193	5,445	5,709	5,987	6,277	6,582	6,902	7,237	7,589	7,958
245	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
246	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
247	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
248	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
249	C&I Prescriptive	Cool Roof	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
250	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
251	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
252	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
253	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
254	C&I Prescriptive	Cool Roof	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
255	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
256	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
257	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
258	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
259	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
260	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
261	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
262	C&I Retro-commissioning	Economizer Lim	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
263	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
264	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
265	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
266	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
267	C&I Retro-commissioning	Economizer Lim	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
268	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
269	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
270	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
271	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
272	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
273	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
274	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
275	C&I Prescriptive	No Econ	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
276	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
277	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
278	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
279	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
280	C&I Prescriptive	Floor Insulation	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
281	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
282	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
283	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
284	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
285	C&I Prescriptive	Floor Insulation	PTAC w Elec Heat	0	0	0	0	0	0	0	0	0	0
286	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
287	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
288	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
289	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	466	489	512	537	563	591	619	650	681	714
290	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1,376	1,443	1,513	1,587	1,664	1,745	1,830	1,918	2,012	2,109
291	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	164	172	180	189	198	208	218	228	239	251
292	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	0	0	0	0	0	0	0	0	0	0
293	C&I Retro-commissioning	Optimized OA	Chiller & Boiler	1,381	1,449	1,519	1,593	1,670	1,751	1,836	1,925	2,019	2,117
294	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	3,090	3,241	3,398	3,563	3,736	3,918	4,108	4,307	4,517	4,736
295	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
296	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	333	349	366	384	403	422	443	464	487	511
297	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	1,550	1,625	1,704	1,787	1,873	1,964	2,060	2,160	2,265	2,375
298	C&I Retro-commissioning	Optimized OA	PTAC w Elec Heat	828	869	911	955	1,001	1,050	1,101	1,155	1,211	1,269
299	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	71	74	78	81	85	90	94	98	103	108
300	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	2,352	2,467	2,586	2,712	2,844	2,982	3,127	3,279	3,438	3,605
301	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	3,102	3,253	3,411	3,576	3,750	3,932	4,123	4,323	4,533	4,754
302	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	51,412	53,910	56,528	59,274	62,154	65,173	68,338	71,658	75,139	78,789
303	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	27,526	28,864	30,266	31,736	33,277	34,894	36,589	38,366	40,230	42,184
304	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	25,340	26,571	27,862	29,215	30,634	32,122	33,683	35,319	37,034	38,833
305	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	110,888	116,274	121,922	127,845	134,055	140,567	147,395	154,554	162,062	169,934
306	C&I Prescriptive	Packaged Unit Efficiency	PTAC w Elec Heat	12,912	13,539	14,196	14,886	15,609	16,367	17,162	17,996	18,870	19,787
307	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	103,433	108,457	113,725	119,250	125,042	131,116	137,485	144,163	151,166	158,509
308	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	70,056	73,459	77,028	80,769	84,693	88,807	93,120	97,644	102,387	107,360

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	23,476	24,616	25,812	27,066	28,380	29,759	31,205	32,720	34,310	35,976
310	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	3,156	3,310	3,470	3,639	3,816	4,001	4,195	4,399	4,613	4,837
311	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	19,010	19,933	20,901	21,917	22,981	24,097	25,268	26,495	27,782	29,132
312	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	673	706	740	776	814	853	898	938	984	1,032
313	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	66,672	69,910	73,306	76,867	80,601	84,516	88,621	92,926	97,440	102,173
314	C&I Retro-commissioning	Scheduled AHU	Chiller & Boiler	439	460	483	506	531	556	583	612	642	673
315	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2,353	2,467	2,587	2,712	2,844	2,982	3,127	3,279	3,438	3,605
316	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	507	532	557	585	613	643	674	707	741	777
317	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	2,799	2,935	3,078	3,227	3,384	3,548	3,721	3,901	4,091	4,290
318	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	14,732	15,448	16,198	16,985	17,810	18,675	19,582	20,534	21,531	22,577
319	C&I Retro-commissioning	Scheduled AHU	PTAC w Elec Heat	648	680	713	747	784	822	862	903	947	993
320	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	56,493	59,238	62,115	65,132	68,296	71,614	75,092	78,740	82,565	86,575
321	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	9,178	9,624	10,091	10,582	11,096	11,634	12,200	12,792	13,414	14,065
322	C&I Retro-commissioning	Scheduled AHU	Pkg AC & Gas Furn	1,802	1,889	1,981	2,077	2,178	2,284	2,395	2,511	2,633	2,761
323	C&I Prescriptive	VAV	Chiller & Boiler	30,735	32,228	33,793	35,435	37,156	38,961	40,854	42,838	44,919	47,101
324	C&I Prescriptive	VAV	Chiller & Boiler	8,614	9,032	9,471	9,931	10,413	10,919	11,449	12,005	12,589	13,200
325	C&I Prescriptive	VAV	Chiller & Boiler	1,726	1,810	1,898	1,990	2,087	2,188	2,294	2,406	2,523	2,645
326	C&I Prescriptive	VAV	Chiller & Boiler	17,382	18,226	19,111	20,040	21,013	22,034	23,104	24,227	25,403	26,637
327	C&I Prescriptive	VAV	Chiller & Boiler	8,868	7,201	7,551	7,918	8,302	8,706	9,129	9,572	10,037	10,524
328	C&I Prescriptive	VAV	Pkg AC & Gas Furn	36,303	38,066	39,915	41,854	43,887	46,019	48,254	50,598	53,056	55,633
329	C&I Prescriptive	VAV	Pkg AC & Gas Furn	4,176	4,378	4,591	4,814	5,048	5,293	5,550	5,820	6,103	6,399
330	C&I Prescriptive	VAV	Pkg AC & Gas Furn	6,116	6,413	6,724	7,051	7,393	7,753	8,129	8,524	8,938	9,372
331	C&I Prescriptive	VAV	Pkg AC & Gas Furn	12,746	13,365	14,014	14,695	15,409	16,157	16,942	17,765	18,628	19,533
332	C&I Prescriptive	VAV	Pkg AC & Gas Furn	16,021	16,799	17,615	18,471	19,368	20,309	21,296	22,330	23,415	24,552
333	C&I Prescriptive	VAV	Pkg AC & Gas Furn	6,541	6,858	7,191	7,541	7,907	8,291	8,694	9,116	9,559	10,023
334	C&I Prescriptive	VAV	Pkg AC & Gas Furn	8,830	9,259	9,709	10,180	10,675	11,193	11,737	12,307	12,905	13,532
335	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	207	217	227	238	250	262	275	288	302	317
336	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	19,959	20,929	21,945	23,011	24,129	25,301	26,530	27,819	29,170	30,587
337	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	6,870	7,203	7,553	7,920	8,305	8,706	9,129	9,572	10,037	10,524
338	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	44,243	46,392	48,645	51,008	53,486	56,084	58,809	61,665	64,661	67,801
339	C&I Prescriptive	Variable CW Pump	Chiller & Boiler	4,602	4,825	5,060	5,306	5,563	5,834	6,117	6,414	6,726	7,052
340	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	5,513	5,781	6,062	6,356	6,665	6,989	7,328	7,684	8,058	8,449
341	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	3,485	3,654	3,832	4,018	4,213	4,417	4,632	4,857	5,093	5,340
342	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	1,860	1,950	2,045	2,144	2,249	2,358	2,472	2,592	2,718	2,850
343	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	6,976	7,315	7,670	8,043	8,433	8,843	9,272	9,723	10,195	10,690
344	C&I Prescriptive	Variable HW Pump	Chiller & Boiler	556	583	611	641	672	705	739	775	812	852
345	Commercial New Construction	New Construction Building - with upgrades	Chiller & Boiler	319,559	327,548	335,736	344,130	352,733	361,551	370,590	379,855	389,351	399,085
346	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,778	1,864	1,955	2,050	2,149	2,254	2,363	2,478	2,598	2,725
347	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,396	2,512	2,634	2,762	2,896	3,037	3,184	3,339	3,501	3,671
348	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,847	2,985	3,130	3,282	3,442	3,609	3,784	3,968	4,161	4,363
349	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,210	3,366	3,530	3,701	3,881	4,070	4,267	4,475	4,692	4,920
350	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,943	4,135	4,336	4,546	4,767	4,999	5,242	5,496	5,763	6,043
351	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,934	8,320	8,724	9,148	9,592	10,058	10,547	11,059	11,596	12,159
352	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	9,992	10,477	10,986	11,520	12,079	12,666	13,282	13,927	14,603	15,312
353	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	12,761	13,381	14,031	14,712	15,427	16,176	16,962	17,786	18,650	19,556
354	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	171	180	188	197	207	217	228	239	250	262
355	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	212	222	233	244	256	268	281	295	309	324
356	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	247	259	272	285	299	313	328	344	361	379
357	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	268	281	295	309	324	340	356	374	392	411
358	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	245	257	270	283	297	311	326	342	359	376
359	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	252	264	277	290	305	319	335	351	368	386
360	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	230	241	253	265	278	291	305	320	336	352
361	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	193	202	212	222	233	244	256	268	281	295
362	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	908	953	999	1,047	1,098	1,152	1,207	1,266	1,328	1,392
363	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,138	1,194	1,252	1,313	1,376	1,443	1,513	1,587	1,664	1,745
364	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,333	1,398	1,466	1,537	1,612	1,690	1,772	1,858	1,949	2,043
365	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,455	1,526	1,600	1,678	1,760	1,845	1,935	2,029	2,127	2,231
366	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,339	2,452	2,571	2,696	2,827	2,964	3,108	3,259	3,418	3,584
367	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,026	3,173	3,327	3,489	3,658	3,836	4,022	4,218	4,422	4,637
368	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,840	2,978	3,122	3,274	3,433	3,600	3,775	3,958	4,150	4,352
369	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,530	2,653	2,781	2,917	3,058	3,207	3,363	3,526	3,697	3,877
370	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,084	3,234	3,391	3,556	3,729	3,910	4,100	4,299	4,508	4,727
371	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,710	3,890	4,079	4,277	4,485	4,703	4,931	5,171	5,422	5,685
372	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,309	4,518	4,737	4,967	5,209	5,462	5,727	6,005	6,297	6,603
373	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,618	4,842	5,077	5,324	5,583	5,854	6,138	6,436	6,749	7,077
374	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,154	4,356	4,568	4,790	5,022	5,266	5,522	5,790	6,072	6,367
375	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,944	3,087	3,237	3,394	3,559	3,732	3,913	4,103	4,302	4,511
376	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,251	2,360	2,475	2,595	2,721	2,853	2,992	3,137	3,290	3,450
377	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,845	1,935	2,029	2,127	2,231	2,339	2,453	2,572	2,697	2,828
378	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	5,436	5,700	5,977	6,267	6,572	6,891	7,226	7,577	7,945	8,331
379	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	6,683	7,008	7,348	7,705	8,079	8,472	8,883	9,315	9,767	10,242
380	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	7,796	8,174	8,572	8,988	9,425	9,882	10,362	10,866	11,393	11,947
381	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	8,437	8,847	9,277	9,728	10,200	10,696	11,215	11,760	12,331	12,930
382	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	8,111	8,504	8,918	9,351	9,805	10,281	10,781	11,304	11,853	12,429
383	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,562	7,930	8,315	8,719	9,142	9,587	10,052	10,540	11,052	11,589
384	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,786	7,115	7,461	7,824	8,204	8,602	9,020	9,458	9,917	10,399
385	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5,491	5,758	6,038	6,331	6,639	6,961	7,299	7,654	8,026	8,416

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
386	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	719	754	791	829	869	911	956	1,002	1,051	1,102
387	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	961	1,008	1,057	1,108	1,162	1,219	1,278	1,340	1,405	1,473
388	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,141	1,196	1,254	1,315	1,379	1,446	1,516	1,590	1,667	1,748
389	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,282	1,344	1,409	1,478	1,550	1,625	1,704	1,787	1,873	1,964
390	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,692	1,775	1,861	1,951	2,046	2,145	2,250	2,359	2,473	2,594
391	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,296	3,456	3,624	3,800	3,985	4,178	4,381	4,594	4,817	5,051
392	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,111	4,311	4,521	4,740	4,970	5,212	5,465	5,730	6,009	6,301
393	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,977	5,219	5,473	5,738	6,017	6,309	6,616	6,937	7,274	7,628
394	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	847	888	931	976	1,024	1,073	1,126	1,180	1,238	1,298
395	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,150	1,205	1,264	1,325	1,390	1,457	1,528	1,602	1,680	1,762
396	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,368	1,435	1,504	1,578	1,654	1,735	1,819	1,907	2,000	2,097
397	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,548	1,623	1,702	1,785	1,872	1,962	2,058	2,158	2,263	2,372
398	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	1,774	1,860	1,951	2,045	2,145	2,249	2,358	2,473	2,593	2,719
399	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	3,683	3,862	4,050	4,246	4,453	4,669	4,896	5,134	5,383	5,644
400	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,681	4,908	5,147	5,397	5,659	5,934	6,222	6,524	6,841	7,174
401	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,032	6,325	6,632	6,954	7,292	7,646	8,018	8,407	8,816	9,244
402	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,948	2,043	2,142	2,246	2,355	2,470	2,590	2,716	2,848	2,986
403	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,488	2,609	2,736	2,869	3,008	3,154	3,308	3,468	3,637	3,813
404	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,925	3,067	3,216	3,373	3,536	3,708	3,888	4,077	4,275	4,483
405	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,220	3,377	3,541	3,713	3,893	4,082	4,281	4,489	4,707	4,935
406	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	4,343	4,554	4,775	5,007	5,250	5,505	5,773	6,053	6,347	6,656
407	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,977	7,315	7,671	8,043	8,434	8,844	9,273	9,724	10,196	10,691
408	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,084	7,428	7,789	8,168	8,564	8,980	9,417	9,874	10,354	10,856
409	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	6,593	6,913	7,249	7,601	7,970	8,358	8,763	9,189	9,636	10,104
410	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,298	1,361	1,427	1,496	1,569	1,645	1,725	1,808	1,896	1,988
411	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	1,759	1,844	1,934	2,028	2,127	2,230	2,338	2,452	2,571	2,696
412	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,093	2,195	2,301	2,413	2,530	2,653	2,782	2,917	3,059	3,208
413	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	2,367	2,482	2,602	2,729	2,861	3,000	3,146	3,299	3,459	3,627
414	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,747	2,881	3,021	3,167	3,321	3,483	3,652	3,829	4,015	4,210
415	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	5,670	5,946	6,235	6,538	6,855	7,188	7,537	7,903	8,287	8,690
416	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,194	7,544	7,910	8,295	8,698	9,120	9,563	10,028	10,515	11,025
417	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	9,255	9,705	10,176	10,671	11,189	11,732	12,302	12,900	13,527	14,184
418	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	9,606	10,073	10,562	11,075	11,613	12,177	12,769	13,389	14,039	14,721
419	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	12,163	12,754	13,374	14,023	14,705	15,419	16,168	16,953	17,777	18,640
420	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	14,274	14,967	15,694	16,457	17,256	18,094	18,973	19,895	20,861	21,874
421	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	15,654	16,414	17,212	18,048	18,924	19,844	20,808	21,818	22,878	23,989
422	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	22,868	23,979	25,144	26,365	27,646	28,989	30,397	31,873	33,422	35,045
423	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	34,440	36,113	37,868	39,707	41,636	43,658	45,779	48,003	50,334	52,779
424	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	32,773	34,365	36,034	37,784	39,619	41,544	43,562	45,678	47,897	50,223
425	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	29,993	31,450	32,978	34,580	36,259	38,021	39,867	41,804	43,835	45,964
426	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	37,738	39,571	41,494	43,509	45,623	47,839	50,163	52,599	55,154	57,833
427	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	88,985	93,308	97,840	102,593	107,576	112,802	118,281	124,026	130,051	136,368
428	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	59,392	62,277	65,302	68,474	71,800	75,288	78,945	82,780	86,801	91,017
429	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	5,512	5,780	6,061	6,355	6,664	6,988	7,327	7,683	8,056	8,448
430	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	67,564	70,846	74,288	77,896	81,680	85,648	89,808	94,170	98,745	103,541
431	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	6,818	7,149	7,496	7,860	8,242	8,643	9,062	9,503	9,964	10,448
432	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
433	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,745	1,829	1,918	2,011	2,109	2,212	2,319	2,432	2,550	2,674
434	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	3,721	3,902	4,091	4,290	4,498	4,717	4,946	5,186	5,438	5,702
435	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
436	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	2,759	2,893	3,033	3,181	3,335	3,497	3,667	3,845	4,032	4,228
437	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	740	776	813	853	894	938	983	1,031	1,081	1,134
438	C&I Prescriptive	50W Metal Halide	Lighting - interior	3,033	3,181	3,335	3,497	3,667	3,845	4,032	4,228	4,433	4,648
439	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
440	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,252	1,313	1,377	1,444	1,514	1,588	1,665	1,746	1,830	1,919
441	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	7,056	7,398	7,758	8,135	8,530	8,944	9,378	9,834	10,312	10,813
442	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	11,237	11,783	12,355	12,955	13,584	14,244	14,936	15,662	16,422	17,220
443	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	6,694	7,019	7,360	7,717	8,092	8,485	8,898	9,330	9,783	10,258
444	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,393	1,460	1,531	1,606	1,684	1,766	1,851	1,941	2,036	2,134
445	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	10,129	10,621	11,137	11,678	12,246	12,841	13,464	14,118	14,804	15,523
446	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	169	178	186	195	205	215	225	236	247	259
447	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
448	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	14,776	15,494	16,246	17,036	17,863	18,731	19,641	20,595	21,595	22,644
449	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	13,967	14,646	15,357	16,103	16,886	17,706	18,566	19,468	20,413	21,405
450	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
451	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	18,020	18,895	19,813	20,776	21,785	22,843	23,953	25,116	26,336	27,615
452	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,433	1,502	1,575	1,652	1,732	1,816	1,905	1,997	2,094	2,196
453	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,501	2,622	2,750	2,883	3,023	3,170	3,324	3,485	3,655	3,832
454	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
455	C&I Prescriptive	100W Metal Halide	Lighting - interior	1,712	1,795	1,882	1,974	2,070	2,170	2,276	2,386	2,502	2,624
456	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	9,969	10,453	10,961	11,493	12,052	12,637	13,251	13,895	14,569	15,277
457	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	16,421	17,219	18,055	18,932	19,852	20,816	21,827	22,888	23,999	25,165
458	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	10,475	10,984	11,517	12,077	12,663	13,278	13,923	14,600	15,309	16,052
459	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,925	2,019	2,117	2,220	2,327	2,440	2,559	2,683	2,814	2,950
460	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	14,544	15,250	15,991	16,768	17,582	18,436	19,332	20,271	21,256	22,288
461	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast	Lighting - interior	247	259	272	285	299	313	329	345	361	379
462	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
463	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	2,363	2,477	2,598	2,724	2,856	2,995	3,141	3,293	3,453	3,621
464	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	2,370	2,485	2,606	2,732	2,865	3,004	3,150	3,303	3,463	3,632
465	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
466	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	2,936	3,079	3,229	3,385	3,550	3,722	3,903	4,093	4,292	4,500
467	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	271	284	297	312	327	343	360	377	395	415
468	C&I Prescriptive	50W Metal Halide	Lighting - interior	578	606	635	666	698	732	768	805	844	885
469	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
470	C&I Prescriptive	100W Metal Halide	Lighting - interior	381	400	419	439	461	483	507	531	557	584
471	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	164,765	172,768	181,161	189,960	199,188	208,863	219,009	229,647	240,802	252,499
472	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	155,459	163,011	170,929	179,232	187,938	197,067	206,640	216,677	227,202	238,239
473	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	90,626	95,028	99,644	104,484	109,560	114,881	120,462	126,313	132,449	138,883
474	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	37,652	39,481	41,399	43,410	45,518	47,729	50,048	52,479	55,028	57,701
475	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	179,180	187,884	197,010	206,580	216,614	227,137	238,170	249,739	261,870	274,590
476	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	3,621	3,797	3,981	4,174	4,377	4,590	4,813	5,047	5,292	5,549
477	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
478	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	4,254	4,461	4,678	4,905	5,143	5,393	5,655	5,930	6,218	6,520
479	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	2,344	2,458	2,577	2,702	2,833	2,971	3,115	3,267	3,425	3,592
480	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
481	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	4,784	5,016	5,260	5,516	5,784	6,064	6,359	6,668	6,992	7,331
482	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	169	177	186	195	205	215	226	236	247	259
483	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,500	2,621	2,749	2,882	3,022	3,169	3,323	3,484	3,654	3,831
484	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
485	C&I Prescriptive	100W Metal Halide	Lighting - interior	2,014	2,112	2,215	2,322	2,435	2,553	2,677	2,808	2,944	3,087
486	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	42,032	44,073	46,214	48,459	50,813	53,281	55,869	58,583	61,429	64,413
487	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	40,046	41,991	44,030	46,169	48,412	50,764	53,229	55,815	58,526	61,369
488	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	23,403	24,539	25,731	26,981	28,292	29,666	31,107	32,618	34,203	35,864
489	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	9,224	9,672	10,142	10,635	11,151	11,693	12,261	12,856	13,481	14,136
490	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	45,898	48,127	50,465	52,916	55,487	58,182	61,008	63,972	67,079	70,337
491	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	900	944	990	1,038	1,088	1,141	1,196	1,254	1,315	1,379
492	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
493	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	3,645	3,822	4,008	4,202	4,406	4,620	4,845	5,080	5,327	5,586
494	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	2,112	2,214	2,322	2,435	2,553	2,677	2,807	2,943	3,086	3,236
495	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
496	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	4,119	4,319	4,529	4,749	4,980	5,222	5,475	5,741	6,020	6,313
497	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	156	163	171	180	188	198	207	217	228	239
498	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,588	2,713	2,845	2,983	3,128	3,280	3,440	3,607	3,782	3,966
499	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
500	C&I Prescriptive	100W Metal Halide	Lighting - interior	2,055	2,154	2,259	2,369	2,484	2,605	2,731	2,864	3,003	3,149
501	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	48,824	51,196	53,682	56,290	59,024	61,891	64,898	68,050	71,356	74,822
502	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	109,337	114,649	120,218	126,057	132,180	138,601	145,334	152,393	159,796	167,558
503	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	72,502	76,024	79,717	83,589	87,650	91,907	96,372	101,053	105,962	111,109
504	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	7,424	7,784	8,162	8,559	8,975	9,411	9,868	10,347	10,850	11,377
505	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	84,876	88,999	93,322	97,855	102,608	107,592	112,819	118,299	124,045	130,071
506	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	7,192	7,542	7,908	8,292	8,695	9,117	9,560	10,024	10,511	11,022
507	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
508	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,984	2,081	2,182	2,288	2,399	2,515	2,637	2,766	2,900	3,041
509	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	3,797	3,981	4,175	4,378	4,590	4,813	5,047	5,292	5,549	5,819
510	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
511	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	3,031	3,178	3,332	3,494	3,664	3,842	4,029	4,224	4,430	4,645
512	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	721	756	792	831	871	913	958	1,004	1,053	1,104
513	C&I Prescriptive	50W Metal Halide	Lighting - interior	2,053	2,153	2,258	2,367	2,482	2,603	2,729	2,862	3,001	3,147
514	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
515	C&I Prescriptive	100W Metal Halide	Lighting - interior	907	951	997	1,046	1,096	1,150	1,206	1,264	1,325	1,390
516	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	39,562	41,484	43,499	45,612	47,828	50,151	52,587	55,142	57,820	60,629
517	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	88,597	92,901	97,413	102,145	107,107	112,309	117,765	123,485	129,484	135,773
518	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	58,749	61,603	64,595	67,733	71,023	74,473	78,091	81,884	85,861	90,032
519	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	6,016	6,308	6,614	6,935	7,272	7,626	7,996	8,384	8,792	9,219
520	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	68,776	72,116	75,619	79,293	83,144	87,183	91,418	95,858	100,515	105,397
521	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	5,828	6,111	6,408	6,719	7,046	7,388	7,747	8,123	8,517	8,931
522	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
523	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	3,585	3,759	3,942	4,133	4,334	4,545	4,766	4,997	5,240	5,494
524	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	6,861	7,194	7,543	7,910	8,294	8,697	9,119	9,562	10,027	10,514
525	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	0	0	0	0	0	0	0	0	0	0
526	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	v Lighting - interior	5,476	5,742	6,021	6,314	6,621	6,942	7,279	7,633	8,004	8,393
527	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	1,302	1,365	1,432	1,501	1,574	1,651	1,731	1,815	1,903	1,995
528	C&I Prescriptive	50W Metal Halide	Lighting - interior	1,020	1,069	1,121	1,176	1,233	1,293	1,355	1,421	1,490	1,563
529	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
530	C&I Prescriptive	100W Metal Halide	Lighting - interior	450	472	495	519	544	571	599	628	658	690
531	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	Lighting - interior	44,556	46,720	48,989	51,369	53,864	56,481	59,224	62,101	65,118	68,281
532	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	81,785	85,758	89,924	94,292	98,872	103,675	108,711	113,991	119,529	125,335
533	C&I Prescriptive	1' 4" T8 32 watt lamps with electronic ballast	a Lighting - interior	52,888	55,457	58,151	60,975	63,927	67,043	70,299	73,714	77,295	81,049
534	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	7,909	8,293	8,696	9,118	9,561	10,026	10,513	11,024	11,559	12,120
535	C&I Prescriptive	2' 4" T8 32 watt lamps with electronic ballast	v Lighting - interior	69,146	72,505	76,026	79,719	83,592	87,652	91,910	96,374	101,056	105,965
536	C&I Prescriptive	2' 4" Super T8 28 watt lamps with electronic ballast	Lighting - interior	2,547	2,671	2,800	2,936	3,079	3,229	3,385	3,550	3,722	3,903
537	C&I Prescriptive	2' 8" T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
538	C&I Prescriptive	2' 8" Super T8 59 watt lamps with electronic ballast	Lighting - interior	28,426	29,807	31,255	32,773	34,365	36,034	37,785	39,620	41,545	43,563
539	C&I Prescriptive	1' 8" T8 59 watt lamps with electronic ballast	a Lighting - interior	35,802	37,541	39,364	41,276	43,281	45,384	47,588	49,900	52,324	54,866

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
540	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
541	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	37,993	39,838	41,774	43,803	45,930	48,161	50,501	52,954	55,526	58,223
542	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	5,677	5,953	6,242	6,545	6,863	7,197	7,546	7,913	8,297	8,700
543	C&I Prescriptive	50W Metal Halide	Lighting - interior	7,145	7,492	7,856	8,238	8,638	9,057	9,497	9,959	10,442	10,949
544	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
545	C&I Prescriptive	100W Metal Halide	Lighting - interior	4,093	4,292	4,500	4,719	4,948	5,188	5,440	5,704	5,981	6,272
546	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	12,902	13,529	14,186	14,875	15,598	16,356	17,150	17,983	18,857	19,773
547	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	31,260	32,778	34,371	36,040	37,791	39,627	41,551	43,570	45,686	47,905
548	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	20,936	21,953	23,019	24,137	25,310	26,539	27,828	29,180	30,597	32,084
549	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,845	1,935	2,029	2,127	2,231	2,339	2,453	2,572	2,697	2,828
550	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	23,460	24,600	25,795	27,047	28,361	29,739	31,184	32,698	34,287	35,952
551	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	2,586	2,712	2,844	2,982	3,126	3,278	3,438	3,605	3,780	3,963
552	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
553	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	9,586	10,051	10,540	11,051	11,588	12,151	12,741	13,360	14,009	14,690
554	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	21,646	22,697	23,800	24,956	26,168	27,439	28,772	30,170	31,635	33,172
555	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
556	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	15,437	16,187	16,973	17,797	18,662	19,568	20,519	21,516	22,561	23,657
557	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	4,411	4,625	4,849	5,085	5,332	5,591	5,863	6,147	6,446	6,759
558	C&I Prescriptive	50W Metal Halide	Lighting - interior	15,868	16,639	17,447	18,295	19,183	20,115	21,092	22,117	23,191	24,317
559	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
560	C&I Prescriptive	100W Metal Halide	Lighting - interior	6,323	6,631	6,953	7,290	7,644	8,016	8,405	8,813	9,242	9,690
561	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	205,197	215,165	225,616	236,576	248,067	260,117	272,752	286,001	299,894	314,461
562	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	351,341	368,408	386,303	405,068	424,744	445,376	467,010	489,695	513,482	538,425
563	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast a	Lighting - interior	225,213	236,152	247,624	259,652	272,265	285,490	299,357	313,899	329,146	345,135
564	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	38,452	40,319	42,278	44,332	46,485	48,743	51,111	53,593	56,197	58,926
565	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	306,048	320,915	336,503	352,849	369,989	387,961	406,806	426,566	447,287	469,014
566	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic ballast b	Lighting - interior	7,210	7,560	7,927	8,312	8,716	9,140	9,583	10,049	10,537	11,049
567	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
568	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	59,125	61,997	65,008	68,166	71,477	74,949	78,590	82,407	86,410	90,608
569	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast a	Lighting - interior	64,328	67,452	70,729	74,165	77,767	81,545	85,506	89,659	94,014	98,581
570	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
571	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	75,416	79,079	82,920	86,948	91,172	95,600	100,244	105,114	110,219	115,573
572	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic ballast b	Lighting - interior	8,412	8,820	9,249	9,698	10,169	10,663	11,181	11,724	12,294	12,891
573	C&I Prescriptive	50W Metal Halide	Lighting - interior	31,658	33,196	34,808	36,499	38,272	40,131	42,081	44,125	46,268	48,515
574	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
575	C&I Prescriptive	100W Metal Halide	Lighting - interior	19,861	20,825	21,837	22,898	24,010	25,176	26,399	27,682	29,026	30,436
576	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	4,577	4,799	5,032	5,277	5,533	5,802	6,084	6,379	6,689	7,014
577	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballast	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
578	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
579	C&I Prescriptive	200W HPS	Lighting - exterior	9,401	9,858	10,337	10,839	11,365	11,918	12,496	13,103	13,740	14,407
580	C&I Prescriptive	180W LPS	Lighting - exterior	7,724	8,099	8,492	8,905	9,337	9,791	10,267	10,765	11,288	11,836
581	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	3,765	3,948	4,139	4,340	4,551	4,772	5,004	5,247	5,502	5,769
582	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	8,732	9,157	9,601	10,068	10,557	11,070	11,607	12,171	12,762	13,382
583	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	8,805	9,233	9,682	10,152	10,645	11,162	11,704	12,273	12,869	13,494
584	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	3,814	4,000	4,194	4,398	4,611	4,835	5,070	5,316	5,575	5,845
585	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	2,611	2,738	2,871	3,010	3,157	3,310	3,471	3,639	3,816	4,001
586	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	5,144	5,393	5,655	5,930	6,218	6,520	6,837	7,169	7,517	7,882
587	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	5,128	5,377	5,638	5,912	6,199	6,500	6,816	7,147	7,494	7,858
588	C&I Prescriptive	Premium Efficiency Motor	Motors	339	355	373	391	410	430	450	472	495	519
589	C&I Prescriptive	Premium Efficiency Motor	Motors	1,038	1,088	1,141	1,196	1,255	1,315	1,379	1,446	1,517	1,590
590	C&I Prescriptive	Premium Efficiency Motor	Motors	3,413	3,578	3,752	3,934	4,126	4,326	4,536	4,756	4,988	5,230
591	C&I Prescriptive	Premium Efficiency Motor	Motors	4,261	4,468	4,685	4,913	5,151	5,401	5,664	5,939	6,227	6,530
592	C&I Prescriptive	Premium Efficiency Motor	Motors	6,505	6,821	7,153	7,500	7,865	8,247	8,647	9,067	9,508	9,969
593	C&I Prescriptive	Premium Efficiency Motor	Motors	8,729	9,153	9,597	10,063	10,552	11,065	11,602	12,166	12,757	13,376
594	C&I Prescriptive	Premium Efficiency Motor	Motors	11,172	11,715	12,284	12,881	13,506	14,162	14,850	15,572	16,328	17,121
595	C&I Prescriptive	Premium Efficiency Motor	Motors	18,316	19,206	20,139	21,117	22,143	23,219	24,346	25,529	26,769	28,069
596	C&I Prescriptive	Premium Efficiency Motor	Motors	18,673	19,580	20,531	21,528	22,574	23,671	24,821	26,026	27,290	28,616
597	C&I Prescriptive	Premium Efficiency Motor	Motors	9,536	9,999	10,485	10,994	11,528	12,088	12,675	13,291	13,936	14,613
598	C&I Prescriptive	Premium Efficiency Motor	Motors	250	262	274	288	302	316	332	348	365	383
599	C&I Prescriptive	Premium Efficiency Motor	Motors	1,114	1,168	1,224	1,284	1,346	1,412	1,480	1,552	1,628	1,707
600	C&I Prescriptive	Premium Efficiency Motor	Motors	3,479	3,648	3,825	4,011	4,205	4,410	4,624	4,848	5,084	5,331
601	C&I Prescriptive	Premium Efficiency Motor	Motors	4,229	4,435	4,650	4,876	5,113	5,361	5,622	5,895	6,181	6,481
602	C&I Prescriptive	Premium Efficiency Motor	Motors	6,465	6,779	7,108	7,453	7,815	8,195	8,593	9,011	9,448	9,907
603	C&I Prescriptive	Premium Efficiency Motor	Motors	7,703	8,077	8,470	8,881	9,313	9,765	10,239	10,737	11,258	11,805
604	C&I Prescriptive	Premium Efficiency Motor	Motors	6,984	7,323	7,679	8,052	8,443	8,853	9,284	9,734	10,207	10,703
605	C&I Prescriptive	Premium Efficiency Motor	Motors	7,944	8,330	8,735	9,159	9,604	10,070	10,560	11,072	11,610	12,174
606	C&I Prescriptive	Premium Efficiency Motor	Motors	7,785	8,164	8,560	8,976	9,412	9,869	10,349	10,851	11,378	11,931
607	C&I Prescriptive	Premium Efficiency Motor	Motors	4,679	4,906	5,145	5,395	5,657	5,932	6,220	6,522	6,839	7,171
608	C&I Prescriptive	High Efficiency Copier	Office equipment	0	0	0	0	0	0	0	0	0	0
609	C&I Prescriptive	80 Plus desktop power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
610	C&I Prescriptive	80 Plus server power supply	Office equipment	0	0	0	0	0	0	0	0	0	0
611	C&I Prescriptive	High Efficiency Electric Fryer, Efficient use = 1	Cooking	0	0	0	0	0	0	0	0	0	0
612	C&I Prescriptive	Hot Food Holding Cabinet, Efficient use = 0.4	Cooking	5,390	5,652	5,926	6,214	6,516	6,833	7,164	7,512	7,877	8,260
613	C&I Prescriptive	Connectionless Steamer, Efficient use = 0.5	Cooking	2,953	3,097	3,247	3,405	3,570	3,744	3,926	4,116	4,316	4,526
614	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
615	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
616	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
617	C&I Prescriptive	Domestic hot water circulation pump controlle	Hot water	0	0	0	0	0	0	0	0	0	0
618	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
619	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
620	C&I Prescriptive	Tankless electric hot water system	Hot water	0	0	0	0	0	0	0	0	0	0
621	C&I Prescriptive	DHW R-12 tank insulation	Hot water	0	0	0	0	0	0	0	0	0	0
622	C&I Prescriptive	Energy Efficient pre-rinse spray valve	Hot water	0	0	0	0	0	0	0	0	0	0
623	C&I Retro-commissioning	Turn off fixture lights when store closed, betw	Refrigeration - controls	626	656	688	721	756	793	832	872	914	959
624	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	363	381	399	419	439	460	483	506	531	557
625	C&I Retro-commissioning	Floating SCT controlled to 70°F	Refrigeration - controls	415	436	457	479	502	527	552	579	607	637
626	C&I Retro-commissioning	Floating SST control on LT and MT suction gr	Refrigeration - controls	657	689	722	757	794	833	873	916	960	1,007
627	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	7,651	8,022	8,412	8,820	9,249	9,698	10,169	10,663	11,181	11,724
628	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	4,668	4,894	5,132	5,381	5,643	5,917	6,204	6,506	6,822	7,153
629	C&I Retro-commissioning	Ambient following SCT setpoint, 70°F minimu	Refrigeration - controls	533	559	586	615	645	676	709	743	779	817
630	C&I Retro-commissioning	Wetbulb following SCT setpoint, 70°F minimu	Refrigeration - controls	667	700	734	770	807	846	887	930	975	1,023
631	C&I Retro-commissioning	Cycle fan off with thermostat; duty cycle occa	Refrigeration - controls	1,375	1,442	1,512	1,586	1,663	1,743	1,828	1,917	2,010	2,107
632	C&I Retro-commissioning	Adds an 85°F holdback valve, active only whe	Refrigeration - equipment	131	137	144	151	158	166	174	182	191	200
633	C&I Prescriptive	Cover open MT cases between 1-5 a.m.	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
634	C&I Prescriptive	Upgrade from 53 Btu/Watt @ 10°F TD to 85 E	Refrigeration - equipment	36,205	37,964	39,808	41,742	43,769	45,895	48,125	50,462	52,913	55,484
635	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
636	C&I Retro-commissioning	Reduce design SCT by ~5°F and improve effi	Refrigeration - equipment	6,060	6,354	6,663	6,987	7,326	7,682	8,055	8,446	8,857	9,287
637	C&I Prescriptive	Replace multiplex air-cooled condenser with c	Refrigeration - equipment	59,852	62,760	65,808	69,005	72,357	75,871	79,557	83,421	87,474	91,723
638	C&I Prescriptive	Substitute high efficiency motors for standard	Refrigeration - equipment	6,989	7,328	7,684	8,058	8,449	8,860	9,290	9,741	10,214	10,710
639	C&I Prescriptive	Addition of LT and MT subcoolers to an air-cc	Refrigeration - equipment	39,371	41,284	43,289	45,392	47,597	49,909	52,333	54,875	57,541	60,336
640	C&I Prescriptive	Addition of a LT subcooler to an air-cooled m	Refrigeration - equipment	26,405	27,687	29,032	30,442	31,921	33,472	35,098	36,803	38,590	40,465
641	C&I Prescriptive	Install automatic door closer on walk-in cooler	Refrigeration - equipment	5,284	5,541	5,810	6,092	6,388	6,698	7,024	7,365	7,723	8,098
642	C&I Prescriptive	Install automatic door closer on walk-in freeze	Refrigeration - equipment	3,418	3,584	3,759	3,941	4,133	4,333	4,544	4,764	4,996	5,239
643	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
644	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
645	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
646	C&I Prescriptive	Replace single-compressor system with subco	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
647	C&I Prescriptive	Replace open MT case with new case with dc	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
648	C&I Prescriptive	Retrofit glass doors on open MT cases; additi	Refrigeration - equipment	0	0	0	0	0	0	0	0	0	0
649	C&I Prescriptive	Eliminate anti-sweat heaters from doors	Refrigeration - equipment	1,649	1,729	1,813	1,901	1,993	2,090	2,191	2,298	2,409	2,526
650	C&I Retro-commissioning	Air-cooled multiplex system w/extensive refrig	Refrigeration - maintenance	1,863	1,953	2,048	2,148	2,252	2,361	2,476	2,596	2,722	2,855
651	C&I Retro-commissioning	Extensive refrigeration equipment maintenanc	Refrigeration - maintenance	4,222	4,427	4,642	4,867	5,104	5,351	5,611	5,884	6,170	6,469
652	C&I Prescriptive	Scheduled AHU	Pkg AC & Gas Furn	38,580	40,454	42,419	44,480	46,641	48,906	51,282	53,773	56,385	59,124
653	C&I Prescriptive	Boiler-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
654	C&I Prescriptive	Chiller-Reset	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
655	C&I Retro-commissioning	Cleaned Coil	Pkg AC & Gas Furn	11,879	12,456	13,061	13,695	14,361	15,058	15,790	16,557	17,361	18,204
656	C&I Retro-commissioning	Economizer Lim	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
657	C&I Retro-commissioning	Optimized OA	Pkg AC & Gas Furn	4,906	5,144	5,394	5,656	5,931	6,219	6,521	6,838	7,170	7,519
658	C&I Prescriptive	VAV	Pkg AC & Gas Furn	14,007	14,687	15,400	16,148	16,933	17,755	18,618	19,522	20,471	21,465
659	C&I Prescriptive	Ceiling Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
660	C&I Prescriptive	Cool Roof	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
661	C&I Prescriptive	Floor Insulation	Pkg AC & Gas Furn	0	0	0	0	0	0	0	0	0	0
662	C&I Prescriptive	Packaged Unit Efficiency	Pkg AC & Gas Furn	26,196	27,468	28,803	30,202	31,669	33,207	34,820	36,512	38,285	40,145
663	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,033	3,180	3,334	3,496	3,666	3,844	4,031	4,227	4,432	4,648
664	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,119	3,271	3,430	3,596	3,771	3,954	4,146	4,347	4,559	4,780
665	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	3,763	3,946	4,138	4,339	4,550	4,771	5,002	5,245	5,500	5,767
666	C&I Prescriptive	Integral CFL, screw-in	Lighting - interior	4,388	4,601	4,824	5,058	5,304	5,562	5,832	6,115	6,412	6,724
667	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	2,695	2,826	2,964	3,108	3,258	3,417	3,583	3,757	3,939	4,131
668	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	7,414	7,774	8,152	8,548	8,963	9,399	9,855	10,334	10,836	11,362
669	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	10,233	10,730	11,251	11,798	12,371	12,972	13,602	14,263	14,956	15,682
670	C&I Prescriptive	Modular CFL, pin based	Lighting - interior	14,289	14,984	15,711	16,475	17,275	18,114	18,994	19,916	20,884	21,898
671	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast	Lighting - interior	10,567	11,081	11,619	12,183	12,775	13,395	14,046	14,728	15,444	16,194
672	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	34,762	36,450	38,221	40,077	42,024	44,065	46,206	48,450	50,804	53,272
673	C&I Prescriptive	1 4' T8 32 watt lamps with electronic ballast	Lighting - interior	24,197	25,373	26,605	27,898	29,253	30,674	32,164	33,726	35,364	37,082
674	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	1,191	1,249	1,310	1,373	1,440	1,510	1,583	1,660	1,741	1,825
675	C&I Prescriptive	2 4' T8 32 watt lamps with electronic ballast v	Lighting - interior	22,878	23,990	25,155	26,377	27,658	29,002	30,410	31,887	33,436	35,061
676	C&I Prescriptive	2 4' Super T8 28 watt lamps with electronic b	Lighting - interior	6,227	6,529	6,846	7,179	7,528	7,893	8,277	8,679	9,100	9,542
677	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast	Lighting - interior	0	0	0	0	0	0	0	0	0	0
678	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	5,003	5,246	5,501	5,768	6,048	6,342	6,650	6,973	7,311	7,667
679	C&I Prescriptive	1 8' T8 59 watt lamps with electronic ballast	Lighting - interior	21,495	22,539	23,634	24,782	25,986	27,248	28,572	29,960	31,415	32,941
680	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	0	0	0	0	0	0	0	0	0	0
681	C&I Prescriptive	2 8' T8 59 watt lamps with electronic ballast v	Lighting - interior	9,893	10,374	10,878	11,406	11,960	12,541	13,150	13,789	14,459	15,161
682	C&I Prescriptive	2 8' Super T8 59 watt lamps with electronic b	Lighting - interior	5,774	6,054	6,348	6,656	6,980	7,319	7,674	8,047	8,438	8,848
683	C&I Prescriptive	50W Metal Halide	Lighting - interior	12,430	13,033	13,666	14,330	15,026	15,756	16,522	17,324	18,166	19,048
684	C&I Prescriptive	75W Metal Halide	Lighting - interior	0	0	0	0	0	0	0	0	0	0
685	C&I Prescriptive	100W Metal Halide	Lighting - interior	3,321	3,482	3,651	3,829	4,015	4,210	4,414	4,629	4,853	5,089
686	C&I Prescriptive	Occupancy sensor - Assume control 3 2-lamp	Lighting - interior	275	288	302	317	332	349	365	383	402	421
687	C&I Prescriptive	Timeclock - Controlling 4 - 70W (95W w/ballas	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
688	C&I Prescriptive	Photocell - Assume in conjunction with time-c	Lighting - exterior	0	0	0	0	0	0	0	0	0	0
689	C&I Prescriptive	200W HPS	Lighting - exterior	768	805	845	886	929	974	1,021	1,071	1,123	1,177
690	C&I Prescriptive	180W LPS	Lighting - exterior	813	852	894	937	983	1,031	1,081	1,133	1,188	1,246
691	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	171	179	188	197	206	216	227	238	250	262
692	C&I Prescriptive	175W PS Metal Halide	Lighting - exterior	868	910	954	1,000	1,049	1,100	1,153	1,209	1,268	1,330
693	C&I Prescriptive	250W PS Metal Halide	Lighting - exterior	547	574	601	631	661	693	727	762	799	838

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
694	C&I Prescriptive	LED Exit Sign (new)	Lighting - exterior	328	343	360	378	396	415	435	457	479	502
695	C&I Prescriptive	LED Exit Sign (retrofit kit)	Lighting - exterior	302	317	332	349	366	383	402	421	442	463
696	C&I Prescriptive	Electroluminescent Exit Sign (New)	Lighting - exterior	345	362	379	398	417	437	458	481	504	529
697	C&I Prescriptive	Electroluminescent Exit Sign Retrofit Kit	Lighting - exterior	348	365	383	401	421	441	462	485	509	533
698	C&I Prescriptive	Premium Efficiency Motor	Motors	74	77	81	85	89	94	98	103	108	113
699	C&I Prescriptive	Premium Efficiency Motor	Motors	165	173	181	190	199	209	219	230	241	253
700	C&I Prescriptive	Premium Efficiency Motor	Motors	701	735	771	808	848	889	932	977	1,025	1,074
701	C&I Prescriptive	Premium Efficiency Motor	Motors	801	840	880	923	968	1,015	1,064	1,116	1,170	1,227
702	C&I Prescriptive	Premium Efficiency Motor	Motors	1,018	1,067	1,119	1,174	1,231	1,290	1,353	1,419	1,488	1,560
703	C&I Prescriptive	Premium Efficiency Motor	Motors	1,513	1,587	1,664	1,745	1,830	1,919	2,012	2,109	2,212	2,319
704	C&I Prescriptive	Premium Efficiency Motor	Motors	2,131	2,234	2,343	2,457	2,576	2,701	2,832	2,970	3,114	3,266
705	C&I Prescriptive	Premium Efficiency Motor	Motors	4,012	4,207	4,411	4,625	4,850	5,086	5,333	5,592	5,863	6,148
706	C&I Prescriptive	Premium Efficiency Motor	Motors	4,222	4,427	4,642	4,868	5,104	5,352	5,612	5,885	6,171	6,470
707	C&I Prescriptive	Premium Efficiency Motor	Motors	4,136	4,337	4,547	4,768	5,000	5,243	5,497	5,764	6,044	6,338
708	C&I Prescriptive	Premium Efficiency Motor	Motors	65	69	72	75	79	83	87	91	96	100
709	C&I Prescriptive	Premium Efficiency Motor	Motors	227	238	250	262	275	288	302	317	332	348
710	C&I Prescriptive	Premium Efficiency Motor	Motors	757	794	833	873	916	960	1,007	1,056	1,107	1,161
711	C&I Prescriptive	Premium Efficiency Motor	Motors	954	1,001	1,049	1,100	1,154	1,210	1,268	1,330	1,395	1,462
712	C&I Prescriptive	Premium Efficiency Motor	Motors	1,005	1,054	1,106	1,159	1,216	1,275	1,336	1,401	1,469	1,541
713	C&I Prescriptive	Premium Efficiency Motor	Motors	1,584	1,661	1,742	1,826	1,915	2,008	2,105	2,208	2,315	2,427
714	C&I Prescriptive	Premium Efficiency Motor	Motors	1,621	1,699	1,782	1,869	1,959	2,055	2,154	2,259	2,369	2,484
715	C&I Prescriptive	Premium Efficiency Motor	Motors	2,727	2,859	2,998	3,144	3,297	3,457	3,625	3,801	3,985	4,179
716	C&I Prescriptive	Premium Efficiency Motor	Motors	2,356	2,470	2,590	2,716	2,848	2,987	3,132	3,284	3,443	3,611
717	C&I Prescriptive	Premium Efficiency Motor	Motors	2,960	3,104	3,254	3,412	3,578	3,752	3,934	4,125	4,326	4,536
718	C&I Prescriptive	Premium Efficiency Motor	Motors	119	125	131	138	144	151	159	166	175	183
719	C&I Prescriptive	Premium Efficiency Motor	Motors	242	254	267	279	293	307	322	338	354	371
720	C&I Prescriptive	Premium Efficiency Motor	Motors	1,127	1,182	1,240	1,300	1,363	1,429	1,499	1,571	1,648	1,728
721	C&I Prescriptive	Premium Efficiency Motor	Motors	1,106	1,159	1,216	1,275	1,337	1,402	1,470	1,541	1,616	1,695
722	C&I Prescriptive	Premium Efficiency Motor	Motors	1,697	1,779	1,866	1,956	2,051	2,151	2,256	2,365	2,480	2,600
723	C&I Prescriptive	Premium Efficiency Motor	Motors	2,297	2,409	2,526	2,648	2,777	2,912	3,053	3,201	3,357	3,520
724	C&I Prescriptive	Premium Efficiency Motor	Motors	3,192	3,347	3,510	3,681	3,859	4,047	4,243	4,450	4,666	4,892
725	C&I Prescriptive	Premium Efficiency Motor	Motors	6,366	6,675	6,999	7,339	7,696	8,070	8,462	8,873	9,304	9,755
726	C&I Prescriptive	Premium Efficiency Motor	Motors	7,722	8,097	8,491	8,903	9,336	9,789	10,265	10,763	11,284	11,834
727	C&I Prescriptive	Premium Efficiency Motor	Motors	7,883	8,266	8,667	9,088	9,530	9,993	10,478	10,987	11,521	12,080
728	C&I Prescriptive	Premium Efficiency Motor	Motors	110	115	121	127	133	139	146	153	161	169
729	C&I Prescriptive	Premium Efficiency Motor	Motors	362	380	398	417	438	459	481	505	529	555
730	C&I Prescriptive	Premium Efficiency Motor	Motors	1,378	1,444	1,515	1,588	1,665	1,746	1,831	1,920	2,013	2,111
731	C&I Prescriptive	Premium Efficiency Motor	Motors	1,772	1,859	1,949	2,044	2,143	2,247	2,356	2,470	2,590	2,716
732	C&I Prescriptive	Premium Efficiency Motor	Motors	1,899	1,992	2,088	2,190	2,296	2,408	2,525	2,647	2,776	2,911
733	C&I Prescriptive	Premium Efficiency Motor	Motors	2,364	2,479	2,599	2,726	2,858	2,997	3,143	3,295	3,455	3,623
734	C&I Prescriptive	Premium Efficiency Motor	Motors	2,405	2,522	2,644	2,773	2,907	3,048	3,196	3,352	3,515	3,685
735	C&I Prescriptive	Premium Efficiency Motor	Motors	4,629	4,854	5,090	5,337	5,596	5,868	6,153	6,452	6,765	7,094
736	C&I Prescriptive	Premium Efficiency Motor	Motors	5,040	5,285	5,542	5,811	6,093	6,389	6,700	7,025	7,366	7,724
737	C&I Prescriptive	Premium Efficiency Motor	Motors	6,154	6,453	6,766	7,095	7,440	7,801	8,180	8,577	8,994	9,431
738	C&I Prescriptive	Premium Efficiency Motor	Motors	518	543	569	597	626	656	688	722	757	793
739	C&I Prescriptive	Premium Efficiency Motor	Motors	949	995	1,043	1,094	1,147	1,203	1,261	1,322	1,387	1,454
740	C&I Prescriptive	Premium Efficiency Motor	Motors	4,447	4,663	4,889	5,126	5,376	5,637	5,910	6,198	6,499	6,814
741	C&I Prescriptive	Premium Efficiency Motor	Motors	4,816	5,050	5,296	5,553	5,823	6,105	6,402	6,713	7,039	7,381
742	C&I Prescriptive	Premium Efficiency Motor	Motors	6,463	6,777	7,107	7,452	7,814	8,193	8,591	9,009	9,446	9,905
743	C&I Prescriptive	Premium Efficiency Motor	Motors	9,313	9,765	10,240	10,737	11,259	11,806	12,379	12,980	13,611	14,272
744	C&I Prescriptive	Premium Efficiency Motor	Motors	12,884	13,510	14,166	14,854	15,576	16,332	17,126	17,958	18,830	19,745
745	C&I Prescriptive	Premium Efficiency Motor	Motors	28,558	29,946	31,400	32,926	34,525	36,202	37,960	39,804	41,738	43,765
746	C&I Prescriptive	Premium Efficiency Motor	Motors	39,762	41,694	43,719	45,843	48,070	50,405	52,853	55,420	58,112	60,935
747	C&I Prescriptive	Premium Efficiency Motor	Motors	42,759	44,836	47,014	49,298	51,692	54,203	56,836	59,597	62,492	65,527
748	C&I Prescriptive	Premium Efficiency Motor	Motors	496	520	545	572	600	629	659	691	725	760
749	C&I Prescriptive	Premium Efficiency Motor	Motors	1,547	1,622	1,701	1,784	1,870	1,961	2,056	2,156	2,261	2,371
750	C&I Prescriptive	Premium Efficiency Motor	Motors	4,842	5,077	5,324	5,582	5,853	6,138	6,436	6,749	7,076	7,420
751	C&I Prescriptive	Premium Efficiency Motor	Motors	6,131	6,429	6,741	7,069	7,412	7,772	8,150	8,546	8,961	9,396
752	C&I Prescriptive	Premium Efficiency Motor	Motors	6,486	6,801	7,132	7,478	7,841	8,222	8,621	9,040	9,479	9,940
753	C&I Prescriptive	Premium Efficiency Motor	Motors	9,529	9,992	10,477	10,986	11,520	12,079	12,666	13,281	13,927	14,603
754	C&I Prescriptive	Premium Efficiency Motor	Motors	9,672	10,142	10,635	11,151	11,693	12,261	12,856	13,481	14,136	14,822
755	C&I Prescriptive	Premium Efficiency Motor	Motors	23,956	25,120	26,340	27,620	28,961	30,368	31,843	33,390	35,012	36,713
756	C&I Prescriptive	Premium Efficiency Motor	Motors	31,628	33,165	34,776	36,465	38,236	40,094	42,041	44,083	46,225	48,470
757	C&I Prescriptive	Premium Efficiency Motor	Motors	37,253	39,062	40,960	42,949	45,036	47,223	49,517	51,922	54,445	57,089
758	C&I Prescriptive	Premium Efficiency Motor	Motors	330	346	363	381	399	419	439	460	483	506
759	C&I Prescriptive	Premium Efficiency Motor	Motors	1,228	1,287	1,350	1,415	1,484	1,556	1,632	1,711	1,794	1,881
760	C&I Prescriptive	Premium Efficiency Motor	Motors	5,176	5,427	5,691	5,967	6,257	6,561	6,879	7,214	7,564	7,931
761	C&I Prescriptive	Premium Efficiency Motor	Motors	6,432	6,745	7,073	7,416	7,776	8,154	8,550	8,966	9,401	9,858
762	C&I Prescriptive	Premium Efficiency Motor	Motors	7,460	7,822	8,202	8,601	9,019	9,457	9,916	10,398	10,903	11,432
763	C&I Prescriptive	Premium Efficiency Motor	Motors	11,537	12,097	12,685	13,301	13,947	14,625	15,335	16,080	16,861	17,680
764	C&I Prescriptive	Premium Efficiency Motor	Motors	14,337	15,034	15,764	16,530	17,333	18,175	19,057	19,983	20,954	21,972
765	C&I Prescriptive	Premium Efficiency Motor	Motors	32,268	33,835	35,479	37,202	39,010	40,904	42,891	44,975	47,159	49,450
766	C&I Prescriptive	Premium Efficiency Motor	Motors	29,345	30,770	32,265	33,832	35,476	37,199	39,006	40,901	42,887	44,971
767	C&I Prescriptive	Premium Efficiency Motor	Motors	26,993	28,304	29,679	31,121	32,632	34,218	35,880	37,623	39,450	41,366
768	C&I Prescriptive	Premium Efficiency Motor	Motors	191	201	210	221	231	242	254	267	280	293
769	C&I Prescriptive	Premium Efficiency Motor	Motors	1,184	1,241	1,301	1,365	1,431	1,500	1,573	1,650	1,730	1,814
770	C&I Prescriptive	Premium Efficiency Motor	Motors	5,309	5,567	5,838	6,121	6,419	6,730	7,057	7,400	7,760	8,137

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
771	C&I Prescriptive	Premium Efficiency Motor	Motors	6,481	6,795	7,125	7,472	7,834	8,215	8,614	9,033	9,471	9,931
772	C&I Prescriptive	Premium Efficiency Motor	Motors	6,656	6,980	7,319	7,674	8,047	8,438	8,848	9,278	9,728	10,201
773	C&I Prescriptive	Premium Efficiency Motor	Motors	9,342	9,796	10,272	10,771	11,294	11,842	12,418	13,021	13,653	14,316
774	C&I Prescriptive	Premium Efficiency Motor	Motors	7,732	8,108	8,502	8,914	9,347	9,802	10,278	10,777	11,300	11,849
775	C&I Prescriptive	Premium Efficiency Motor	Motors	17,941	18,813	19,726	20,685	21,689	22,743	23,848	25,006	26,221	27,495
776	C&I Prescriptive	Premium Efficiency Motor	Motors	12,897	13,523	14,180	14,869	15,591	16,348	17,143	17,975	18,848	19,764
777	C&I Prescriptive	Premium Efficiency Motor	Motors	16,920	17,742	18,604	19,508	20,455	21,449	22,491	23,583	24,729	25,930
778	C&I Custum	Compressed Air-O&M	All systems	83,521	87,578	91,832	96,293	100,971	105,875	111,018	116,411	122,066	127,995
779	C&I Custum	Compressed Air - Controls	All systems	90,337	94,725	99,327	104,151	109,211	114,515	120,078	125,911	132,027	138,440
780	C&I Custum	Compressed Air - System Optimization	All systems	122,972	128,945	135,208	141,776	148,663	155,884	163,456	171,396	179,722	188,452
781	C&I Custum	Compressed Air- Sizing	All systems	13,660	14,323	15,019	15,749	16,514	17,316	18,157	19,039	19,964	20,934
782	C&I Custum	Comp Air - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
783	C&I Custum	Comp Air - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
784	C&I Custum	Comp Air - Motor practices-1 (1-5 HP)	All systems	3,817	4,003	4,197	4,401	4,615	4,839	5,074	5,321	5,579	5,850
785	C&I Custum	Comp Air - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
786	C&I Custum	Comp Air - ASD (6-100 hp)	All systems	7,315	7,671	8,043	8,434	8,844	9,273	9,724	10,196	10,691	11,211
787	C&I Custum	Comp Air - Motor practices-1 (6-100 HP)	All systems	28,497	29,881	31,332	32,854	34,450	36,124	37,878	39,718	41,648	43,671
788	C&I Custum	Comp Air - Replace 100+ HP motor	All systems	37,087	38,889	40,778	42,758	44,835	47,013	49,297	51,691	54,202	56,835
789	C&I Custum	Comp Air - ASD (100+ hp)	All systems	94,903	99,513	104,347	109,415	114,730	120,303	126,147	132,275	138,700	145,437
790	C&I Custum	Comp Air - Motor practices-1 (100+ HP)	All systems	44,642	46,810	49,084	51,468	53,968	56,590	59,339	62,221	65,243	68,413
791	C&I Custum	Power recovery	All systems	7,826	8,206	8,605	9,023	9,461	9,921	10,403	10,908	11,438	11,994
792	C&I Custum	Refinery Controls	All systems	39,206	41,110	43,107	45,201	47,399	49,699	52,113	54,645	57,299	60,083
793	C&I Custum	Energy Star Transformers	All systems	1,854	1,944	2,039	2,138	2,241	2,350	2,464	2,584	2,710	2,841
794	C&I Custum	Fans - O&M	All systems	3,794	3,979	4,172	4,375	4,587	4,810	5,044	5,289	5,546	5,815
795	C&I Custum	Fans - Controls	All systems	232,376	243,663	255,499	267,910	280,924	294,570	308,879	323,882	339,615	356,112
796	C&I Custum	Fans - System Optimization	All systems	101,454	106,382	111,549	116,968	122,649	128,607	134,854	141,405	148,273	155,476
797	C&I Custum	Fans- Improve components	All systems	17,966	18,838	19,753	20,713	21,719	22,774	23,880	25,040	26,257	27,532
798	C&I Custum	Fans - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
799	C&I Custum	Fans - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
800	C&I Custum	Fans - Motor practices-1 (1-5 HP)	All systems	3,817	4,003	4,197	4,401	4,615	4,839	5,074	5,321	5,579	5,850
801	C&I Custum	Fans - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
802	C&I Custum	Fans - ASD (6-100 hp)	All systems	7,315	7,671	8,043	8,434	8,844	9,273	9,724	10,196	10,691	11,211
803	C&I Custum	Fans - Motor practices-1 (6-100 HP)	All systems	28,497	29,881	31,332	32,854	34,450	36,124	37,878	39,718	41,648	43,671
804	C&I Custum	Fans - Replace 100+ HP motor	All systems	37,087	38,889	40,778	42,758	44,835	47,013	49,297	51,691	54,202	56,835
805	C&I Custum	Fans - ASD (100+ hp)	All systems	94,903	99,513	104,347	109,415	114,730	120,303	126,147	132,275	138,700	145,437
806	C&I Custum	Fans - Motor practices-1 (100+ HP)	All systems	44,642	46,810	49,084	51,468	53,968	56,590	59,339	62,221	65,243	68,413
807	C&I Custum	Optimize drying process	All systems	328,891	344,867	361,619	379,185	397,604	416,917	437,169	458,405	480,672	504,020
808	C&I Custum	Pumps - O&M	All systems	15,178	15,915	16,688	17,499	18,349	19,240	20,175	21,155	22,182	23,260
809	C&I Custum	Pumps - Controls	All systems	158,880	166,597	174,690	183,175	192,073	201,403	211,186	221,445	232,201	243,480
810	C&I Custum	Pumps - System Optimization	All systems	328,396	344,347	361,074	378,613	397,004	416,289	436,510	457,714	479,947	503,260
811	C&I Custum	Pumps - Sizing	All systems	71,863	75,353	79,014	82,852	86,876	91,096	95,521	100,161	105,026	110,128
812	C&I Custum	Pumps - Replace 1-5 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
813	C&I Custum	Pumps - ASD (1-5 hp)	All systems	0	0	0	0	0	0	0	0	0	0
814	C&I Custum	Pumps - Motor practices-1 (1-5 HP)	All systems	3,817	4,003	4,197	4,401	4,615	4,839	5,074	5,321	5,579	5,850
815	C&I Custum	Pumps - Replace 6-100 HP motor	All systems	0	0	0	0	0	0	0	0	0	0
816	C&I Custum	Pumps - ASD (6-100 hp)	All systems	7,315	7,671	8,043	8,434	8,844	9,273	9,724	10,196	10,691	11,211
817	C&I Custum	Pumps - Motor practices-1 (6-100 HP)	All systems	28,497	29,881	31,332	32,854	34,450	36,124	37,878	39,718	41,648	43,671
818	C&I Custum	Pumps - Replace 100+ HP motor	All systems	37,087	38,889	40,778	42,758	44,835	47,013	49,297	51,691	54,202	56,835
819	C&I Custum	Pumps - ASD (100+ hp)	All systems	94,903	99,513	104,347	109,415	114,730	120,303	126,147	132,275	138,700	145,437
820	C&I Custum	Pumps - Motor practices-1 (100+ HP)	All systems	44,642	46,810	49,084	51,468	53,968	56,590	59,339	62,221	65,243	68,413
821	C&I Custum	Efficient refrigeration - operations	Refrigeration	544	570	598	627	658	690	723	758	795	834
822	C&I Custum	Optimization refrigeration	Refrigeration	2,107	2,209	2,317	2,429	2,547	2,671	2,801	2,937	3,079	3,229
823	C&I Custum	Bakery - process	Process	2,263	2,373	2,489	2,609	2,736	2,869	3,009	3,155	3,308	3,469
824	C&I Custum	Bakery - process (mixing)	Process	123	129	135	142	149	156	164	172	180	189
825	C&I Custum	Clean room - controls	HVAC	0	0	0	0	0	0	0	0	0	0
826	C&I Custum	Clean room - new designs	HVAC	0	0	0	0	0	0	0	0	0	0
827	C&I Custum	Process controls (batch + site)	Process	0	0	0	0	0	0	0	0	0	0
828	C&I Custum	O&M - extruders / injection molding	Machine Drive	1,001	1,050	1,101	1,154	1,210	1,269	1,331	1,396	1,463	1,534
829	C&I Custum	Extruders / injection molding - multipump	Machine Drive	9,494	9,955	10,439	10,946	11,478	12,035	12,620	13,233	13,876	14,550
830	C&I Custum	Direct drive extruders	Machine Drive	1,965	2,060	2,160	2,265	2,375	2,491	2,612	2,739	2,872	3,011
831	C&I Custum	Injection molding - impulse cooling	Machine Drive	4,154	4,355	4,567	4,789	5,021	5,265	5,521	5,789	6,071	6,365
832	C&I Custum	Injection molding - direct drive	Machine Drive	2,844	2,982	3,127	3,279	3,439	3,606	3,781	3,964	4,157	4,359
833	C&I Custum	Efficient grinding	Machine Drive	0	0	0	0	0	0	0	0	0	0
834	C&I Custum	Process controls	Process	421	442	463	486	509	534	560	587	616	646
835	C&I Custum	Top-heating (glass)	Process Heating	254	267	279	293	307	322	338	354	372	390
836	C&I Custum	Process controls	Process	4,358	4,570	4,792	5,024	5,269	5,524	5,793	6,074	6,369	6,679
837	C&I Custum	Efficient electric melting	Process Heating	8,659	9,080	9,521	9,983	10,468	10,976	11,510	12,069	12,655	13,270
838	C&I Custum	Near net shape casting	Machine Drive	1,924	2,018	2,116	2,218	2,326	2,439	2,557	2,682	2,812	2,949
839	C&I Custum	Optimization process (M&T)	Process	371	389	408	428	448	470	493	517	542	568
840	C&I Custum	Scheduling	Process	325	341	357	375	393	412	432	453	475	498
841	C&I Custum	Efficient curing ovens	Process Heating	543	569	597	626	656	688	722	757	793	832
842	C&I Custum	Machinery	Machine Drive	698	732	768	805	844	885	928	973	1,020	1,070
843	C&I Custum	Optimization process (M&T)	Process	159	166	174	183	192	201	211	221	232	243
844	C&I Custum	Scheduling	Process	139	146	153	160	168	176	185	194	203	213
845	C&I Custum	Efficient curing ovens	Process Heating	81	85	89	93	97	102	107	112	118	124
846	C&I Custum	Machinery	Machine Drive	737	773	811	850	892	935	980	1,028	1,078	1,130
847	C&I Custum	Optimization process (M&T)	Process	117	122	128	135	141	148	155	163	171	179

8: Administrative Costs

Measure ID	Program	Efficient Technology	HVAC System and/or End-use	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
848	C&I Custom	Scheduling	Process	128	134	141	148	155	162	170	178	187	196
849	C&I Custom	Efficient curing ovens	Process Heating	135	141	148	156	163	171	179	188	197	207
850	C&I Custom	Machinery	Machine Drive	198	207	218	228	239	251	263	276	289	303
851	C&I Custom	Scheduling	Process	162	170	178	187	196	205	215	226	237	248
852	C&I Custom	Efficient curing ovens	Process Heating	244	256	268	281	295	309	324	340	356	374
853	C&I Custom	Machinery	Machine Drive	95	99	104	109	114	120	126	132	138	145
854	C&I Custom	Efficient processes (welding, etc.)	Process	1,058	1,110	1,164	1,220	1,279	1,342	1,407	1,475	1,547	1,622
855	C&I Custom	Scheduling	Process	0	0	0	0	0	0	0	0	0	0
856	C&I Custom	Efficient machinery	Machine Drive	0	0	0	0	0	0	0	0	0	0
857	C&I Custom	Process controls	Process	0	0	0	0	0	0	0	0	0	0
858	Residential DR - Direct Load Control	Direct load control - air conditioner	All systems	637,269	669,860	703,534	738,300	774,163	811,768	851,199	892,546	935,902	981,363
859	Residential DR - Direct Load Control	Direct load control - hot water heater	All systems	0	0	0	0	0	0	0	0	0	0
860	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
861	Residential DR - CPP w/ Smart Thermo	Critical peak pricing - CPP events with smart	All systems	146,785	153,915	161,391	169,231	177,451	186,071	195,109	204,587	214,524	224,945
862	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events	All systems	0	0	0	0	0	0	0	0	0	0
863	Commercial DR - CPP w/ Smart Therm	Critical peak pricing - CPP events with smart	All systems	141,465	148,337	155,542	163,098	171,020	179,328	188,038	197,172	206,750	216,793
864	Industrial Interruptible Tariff	Industrial Interruptible Tariff	All systems	0	0	0	0	0	0	0	0	0	0
865	Commercial Demand Credit	Commercial Demand Credit	All systems	262,417	268,978	275,702	282,595	289,660	296,901	304,324	311,932	319,730	327,723
Education Program				1,482,376	1,550,039	1,620,812	1,694,839	1,772,268	1,853,335	1,938,215	2,027,090	2,120,149	2,217,594
Information Program				1,482,376	1,550,039	1,620,812	1,694,839	1,772,268	1,853,335	1,938,215	2,027,090	2,120,149	2,217,594
Portfolio Administration				2,964,752	3,100,078	3,241,624	3,389,677	3,544,535	3,706,671	3,876,430	4,054,179	4,240,298	4,435,188
Evaluation, Measurement, and Verification				2,964,752	3,100,078	3,241,624	3,389,677	3,544,535	3,706,671	3,876,430	4,054,179	4,240,298	4,435,188

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Residential Electric Total																		
Residential Electric Heat																		
Residential Cooling																		
Residential Refrigerator																		
Residential Freezer																		
Residential Electric Cooking																		
Residential Dishwasher																		
Residential Electric Miscellaneous																		
Residential Electric Dryer																		
Residential Electric Hot Water																		
Residential Clothes Washer																		
Residential Pool/Spa																		
Residential Television																		
Residential Lighting																		
Office, Small, Non-Residential Electric Cooking																		
Office, Small, Non-Residential Cooling																		
Office, Small, Non-Residential Electric Heat																		
Office, Small, Non-Residential Electric Hot Water																		
Office, Small, Non-Residential Interior Lighting																		
Office, Small, Non-Residential Electric Miscellaneous																		
Office, Small, Non-Residential Office Equipment																		
Office, Small, Non-Residential Exterior Lighting																		
Office, Small, Non-Residential Refrigeration																		
Office, Small, Non-Residential Ventilation																		
Office, Small, Non-Residential Electric Total																		
Office, Medium, Non-Residential Electric Cooking																		
Office, Medium, Non-Residential Cooling																		
Office, Medium, Non-Residential Electric Heat																		
Office, Medium, Non-Residential Electric Hot Water																		
Office, Medium, Non-Residential Interior Lighting																		
Office, Medium, Non-Residential Electric Miscellaneous																		
Office, Medium, Non-Residential Office Equipment																		
Office, Medium, Non-Residential Exterior Lighting																		
Office, Medium, Non-Residential Refrigeration																		
Office, Medium, Non-Residential Ventilation																		
Office, Medium, Non-Residential Electric Total																		
Office, Large, Non-Residential Electric Cooking																		
Office, Large, Non-Residential Cooling																		
Office, Large, Non-Residential Electric Heat																		
Office, Large, Non-Residential Electric Hot Water																		
Office, Large, Non-Residential Interior Lighting																		
Office, Large, Non-Residential Electric Miscellaneous																		
Office, Large, Non-Residential Office Equipment																		
Office, Large, Non-Residential Exterior Lighting																		
Office, Large, Non-Residential Refrigeration																		
Office, Large, Non-Residential Ventilation																		
Office, Large, Non-Residential Electric Total																		
Retail, Small, Non-Residential Electric Cooking																		
Retail, Small, Non-Residential Cooling																		
Retail, Small, Non-Residential Electric Heat																		
Retail, Small, Non-Residential Electric Hot Water																		
Retail, Small, Non-Residential Interior Lighting																		
Retail, Small, Non-Residential Electric Miscellaneous																		
Retail, Small, Non-Residential Office Equipment																		
Retail, Small, Non-Residential Exterior Lighting																		
Retail, Small, Non-Residential Refrigeration																		
Retail, Small, Non-Residential Ventilation																		
Retail, Small, Non-Residential Electric Total																		
Retail, Large, Non-Residential Electric Cooking																		
Retail, Large, Non-Residential Cooling																		
Retail, Large, Non-Residential Electric Heat																		
Retail, Large, Non-Residential Electric Hot Water																		
Retail, Large, Non-Residential Interior Lighting																		
Retail, Large, Non-Residential Electric Miscellaneous																		
Retail, Large, Non-Residential Office Equipment																		
Retail, Large, Non-Residential Exterior Lighting																		
Retail, Large, Non-Residential Refrigeration																		
Retail, Large, Non-Residential Ventilation																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Retail, Large, Non-Residential Electric Total																		
Restaurant, 1-Meal, Non-Residential Electric Cooking																		
Restaurant, 1-Meal, Non-Residential Cooling																		
Restaurant, 1-Meal, Non-Residential Electric Heat																		
Restaurant, 1-Meal, Non-Residential Electric Hot Water																		
Restaurant, 1-Meal, Non-Residential Interior Lighting																		
Restaurant, 1-Meal, Non-Residential Electric Miscellaneous																		
Restaurant, 1-Meal, Non-Residential Office Equipment																		
Restaurant, 1-Meal, Non-Residential Exterior Lighting																		
Restaurant, 1-Meal, Non-Residential Refrigeration																		
Restaurant, 1-Meal, Non-Residential Ventilation																		
Restaurant, 1-Meal, Non-Residential Electric Total																		
Restaurant, 2-Meals, Non-Residential Electric Cooking																		
Restaurant, 2-Meals, Non-Residential Cooling																		
Restaurant, 2-Meals, Non-Residential Electric Heat																		
Restaurant, 2-Meals, Non-Residential Electric Hot Water																		
Restaurant, 2-Meals, Non-Residential Interior Lighting																		
Restaurant, 2-Meals, Non-Residential Electric Miscellaneous																		
Restaurant, 2-Meals, Non-Residential Office Equipment																		
Restaurant, 2-Meals, Non-Residential Exterior Lighting																		
Restaurant, 2-Meals, Non-Residential Refrigeration																		
Restaurant, 2-Meals, Non-Residential Ventilation																		
Restaurant, 2-Meals, Non-Residential Electric Total																		
Restaurant, 3-Meals, Non-Residential Electric Cooking																		
Restaurant, 3-Meals, Non-Residential Cooling																		
Restaurant, 3-Meals, Non-Residential Electric Heat																		
Restaurant, 3-Meals, Non-Residential Electric Hot Water																		
Restaurant, 3-Meals, Non-Residential Interior Lighting																		
Restaurant, 3-Meals, Non-Residential Electric Miscellaneous																		
Restaurant, 3-Meals, Non-Residential Office Equipment																		
Restaurant, 3-Meals, Non-Residential Exterior Lighting																		
Restaurant, 3-Meals, Non-Residential Refrigeration																		
Restaurant, 3-Meals, Non-Residential Ventilation																		
Restaurant, 3-Meals, Non-Residential Electric Total																		
Fast-Food, 1-Meal, Non-Residential Electric Cooking																		
Fast-Food, 1-Meal, Non-Residential Cooling																		
Fast-Food, 1-Meal, Non-Residential Electric Heat																		
Fast-Food, 1-Meal, Non-Residential Electric Hot Water																		
Fast-Food, 1-Meal, Non-Residential Interior Lighting																		
Fast-Food, 1-Meal, Non-Residential Electric Miscellaneous																		
Fast-Food, 1-Meal, Non-Residential Office Equipment																		
Fast-Food, 1-Meal, Non-Residential Exterior Lighting																		
Fast-Food, 1-Meal, Non-Residential Refrigeration																		
Fast-Food, 1-Meal, Non-Residential Ventilation																		
Fast-Food, 1-Meal, Non-Residential Electric Total																		
Fast-Food, 2-Meals, Non-Residential Electric Cooking																		
Fast-Food, 2-Meals, Non-Residential Cooling																		
Fast-Food, 2-Meals, Non-Residential Electric Heat																		
Fast-Food, 2-Meals, Non-Residential Electric Hot Water																		
Fast-Food, 2-Meals, Non-Residential Interior Lighting																		
Fast-Food, 2-Meals, Non-Residential Electric Miscellaneous																		
Fast-Food, 2-Meals, Non-Residential Office Equipment																		
Fast-Food, 2-Meals, Non-Residential Exterior Lighting																		
Fast-Food, 2-Meals, Non-Residential Refrigeration																		
Fast-Food, 2-Meals, Non-Residential Ventilation																		
Fast-Food, 2-Meals, Non-Residential Electric Total																		
Fast-Food, 3-Meals, Non-Residential Electric Cooking																		
Fast-Food, 3-Meals, Non-Residential Cooling																		
Fast-Food, 3-Meals, Non-Residential Electric Heat																		
Fast-Food, 3-Meals, Non-Residential Electric Hot Water																		
Fast-Food, 3-Meals, Non-Residential Interior Lighting																		
Fast-Food, 3-Meals, Non-Residential Electric Miscellaneous																		
Fast-Food, 3-Meals, Non-Residential Office Equipment																		
Fast-Food, 3-Meals, Non-Residential Exterior Lighting																		
Fast-Food, 3-Meals, Non-Residential Refrigeration																		
Fast-Food, 3-Meals, Non-Residential Ventilation																		
Fast-Food, 3-Meals, Non-Residential Electric Total																		
Grocery, Non-Residential Electric Cooking																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Grocery, Non-Residential Cooling																		
Grocery, Non-Residential Electric Heat																		
Grocery, Non-Residential Electric Hot Water																		
Grocery, Non-Residential Interior Lighting																		
Grocery, Non-Residential Electric Miscellaneous																		
Grocery, Non-Residential Office Equipment																		
Grocery, Non-Residential Exterior Lighting																		
Grocery, Non-Residential Refrigeration																		
Grocery, Non-Residential Ventilation																		
Grocery, Non-Residential Electric Total																		
Convenience, Non-Residential Electric Cooking																		
Convenience, Non-Residential Cooling																		
Convenience, Non-Residential Electric Heat																		
Convenience, Non-Residential Electric Hot Water																		
Convenience, Non-Residential Interior Lighting																		
Convenience, Non-Residential Electric Miscellaneous																		
Convenience, Non-Residential Office Equipment																		
Convenience, Non-Residential Exterior Lighting																		
Convenience, Non-Residential Refrigeration																		
Convenience, Non-Residential Ventilation																		
Convenience, Non-Residential Electric Total																		
Warehouse, NonRefrig., Non-Residential Electric Cooking																		
Warehouse, NonRefrig., Non-Residential Cooling																		
Warehouse, NonRefrig., Non-Residential Electric Heat																		
Warehouse, NonRefrig., Non-Residential Electric Hot Water																		
Warehouse, NonRefrig., Non-Residential Interior Lighting																		
Warehouse, NonRefrig., Non-Residential Electric Miscellaneous																		
Warehouse, NonRefrig., Non-Residential Office Equipment																		
Warehouse, NonRefrig., Non-Residential Exterior Lighting																		
Warehouse, NonRefrig., Non-Residential Refrigeration																		
Warehouse, NonRefrig., Non-Residential Ventilation																		
Warehouse, NonRefrig., Non-Residential Electric Total																		
Warehouse, Refrig., Non-Residential Electric Cooking																		
Warehouse, Refrig., Non-Residential Cooling																		
Warehouse, Refrig., Non-Residential Electric Heat																		
Warehouse, Refrig., Non-Residential Electric Hot Water																		
Warehouse, Refrig., Non-Residential Interior Lighting																		
Warehouse, Refrig., Non-Residential Electric Miscellaneous																		
Warehouse, Refrig., Non-Residential Office Equipment																		
Warehouse, Refrig., Non-Residential Exterior Lighting																		
Warehouse, Refrig., Non-Residential Refrigeration																		
Warehouse, Refrig., Non-Residential Ventilation																		
Warehouse, Refrig., Non-Residential Electric Total																		
School, Non-Residential Electric Cooking																		
School, Non-Residential Cooling																		
School, Non-Residential Electric Heat																		
School, Non-Residential Electric Hot Water																		
School, Non-Residential Interior Lighting																		
School, Non-Residential Electric Miscellaneous																		
School, Non-Residential Office Equipment																		
School, Non-Residential Exterior Lighting																		
School, Non-Residential Refrigeration																		
School, Non-Residential Ventilation																		
School, Non-Residential Electric Total																		
College, Non-Residential Electric Cooking																		
College, Non-Residential Cooling																		
College, Non-Residential Electric Heat																		
College, Non-Residential Electric Hot Water																		
College, Non-Residential Interior Lighting																		
College, Non-Residential Electric Miscellaneous																		
College, Non-Residential Office Equipment																		
College, Non-Residential Exterior Lighting																		
College, Non-Residential Refrigeration																		
College, Non-Residential Ventilation																		
College, Non-Residential Electric Total																		
Hospital, Non-Residential Electric Cooking																		
Hospital, Non-Residential Cooling																		
Hospital, Non-Residential Electric Heat																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Hospital, Non-Residential Electric Hot Water																		
Hospital, Non-Residential Interior Lighting																		
Hospital, Non-Residential Electric Miscellaneous																		
Hospital, Non-Residential Office Equipment																		
Hospital, Non-Residential Exterior Lighting																		
Hospital, Non-Residential Refrigeration																		
Hospital, Non-Residential Ventilation																		
Hospital, Non-Residential Electric Total																		
Nursing Home, Non-Residential Electric Cooking																		
Nursing Home, Non-Residential Cooling																		
Nursing Home, Non-Residential Electric Heat																		
Nursing Home, Non-Residential Electric Hot Water																		
Nursing Home, Non-Residential Interior Lighting																		
Nursing Home, Non-Residential Electric Miscellaneous																		
Nursing Home, Non-Residential Office Equipment																		
Nursing Home, Non-Residential Exterior Lighting																		
Nursing Home, Non-Residential Refrigeration																		
Nursing Home, Non-Residential Ventilation																		
Nursing Home, Non-Residential Electric Total																		
Hotel, Non-Residential Electric Cooking																		
Hotel, Non-Residential Cooling																		
Hotel, Non-Residential Electric Heat																		
Hotel, Non-Residential Electric Hot Water																		
Hotel, Non-Residential Interior Lighting																		
Hotel, Non-Residential Electric Miscellaneous																		
Hotel, Non-Residential Office Equipment																		
Hotel, Non-Residential Exterior Lighting																		
Hotel, Non-Residential Refrigeration																		
Hotel, Non-Residential Ventilation																		
Hotel, Non-Residential Electric Total																		
Motel, Non-Residential Electric Cooking																		
Motel, Non-Residential Cooling																		
Motel, Non-Residential Electric Heat																		
Motel, Non-Residential Electric Hot Water																		
Motel, Non-Residential Interior Lighting																		
Motel, Non-Residential Electric Miscellaneous																		
Motel, Non-Residential Office Equipment																		
Motel, Non-Residential Exterior Lighting																		
Motel, Non-Residential Refrigeration																		
Motel, Non-Residential Ventilation																		
Motel, Non-Residential Electric Total																		
Religious Worship, Non-Residential Electric Cooking																		
Religious Worship, Non-Residential Cooling																		
Religious Worship, Non-Residential Electric Heat																		
Religious Worship, Non-Residential Electric Hot Water																		
Religious Worship, Non-Residential Interior Lighting																		
Religious Worship, Non-Residential Electric Miscellaneous																		
Religious Worship, Non-Residential Office Equipment																		
Religious Worship, Non-Residential Exterior Lighting																		
Religious Worship, Non-Residential Refrigeration																		
Religious Worship, Non-Residential Ventilation																		
Religious Worship, Non-Residential Electric Total																		
Public Assembly, Non-Residential Electric Cooking																		
Public Assembly, Non-Residential Cooling																		
Public Assembly, Non-Residential Electric Heat																		
Public Assembly, Non-Residential Electric Hot Water																		
Public Assembly, Non-Residential Interior Lighting																		
Public Assembly, Non-Residential Electric Miscellaneous																		
Public Assembly, Non-Residential Office Equipment																		
Public Assembly, Non-Residential Exterior Lighting																		
Public Assembly, Non-Residential Refrigeration																		
Public Assembly, Non-Residential Ventilation																		
Public Assembly, Non-Residential Electric Total																		
Service, Non-Residential Electric Cooking																		
Service, Non-Residential Cooling																		
Service, Non-Residential Electric Heat																		
Service, Non-Residential Electric Hot Water																		
Service, Non-Residential Interior Lighting																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Service, Non-Residential Electric Miscellaneous																		
Service, Non-Residential Office Equipment																		
Service, Non-Residential Exterior Lighting																		
Service, Non-Residential Refrigeration																		
Service, Non-Residential Ventilation																		
Service, Non-Residential Electric Total																		
VAV Office - Large Chiller & Boiler																		
Optimized OA Office - Large Chiller & Boiler																		
No Econ Office - Large Chiller & Boiler																		
Economizer Lim Office - Large Chiller & Boiler																		
Cleaned Coil Office - Large Chiller & Boiler																		
Chiller-Reset Office - Large Chiller & Boiler																		
Scheduled AHU Office - Large Chiller & Boiler																		
Boiler-Reset Office - Large Chiller & Boiler																		
Ceiling Insulation Office - Large Chiller & Boiler																		
Chiller Efficiency Office - Large Chiller & Boiler																		
Cool Roof Office - Large Chiller & Boiler																		
Floor Insulation Office - Large Chiller & Boiler																		
Variable CW Pump Office - Large Chiller & Boiler																		
Variable HW Pump Office - Large Chiller & Boiler																		
VAV Warehouse Pkg AC & Gas Furn																		
Optimized OA Warehouse Pkg AC & Gas Furn																		
No Econ Warehouse Pkg AC & Gas Furn																		
Economizer Lim Warehouse Pkg AC & Gas Furn																		
Cleaned Coil Warehouse Pkg AC & Gas Furn																		
Chiller-Reset Warehouse Pkg AC & Gas Furn																		
Scheduled AHU Warehouse Pkg AC & Gas Furn																		
Boiler-Reset Warehouse Pkg AC & Gas Furn																		
Ceiling Insulation Warehouse Pkg AC & Gas Furn																		
Cool Roof Warehouse Pkg AC & Gas Furn																		
Floor Insulation Warehouse Pkg AC & Gas Furn																		
Packaged Unit Efficiency Warehouse Pkg AC & Gas Furn																		
VAV Public Assembly Pkg AC & Gas Furn																		
Optimized OA Public Assembly Pkg AC & Gas Furn																		
No Econ Public Assembly Pkg AC & Gas Furn																		
Economizer Lim Public Assembly Pkg AC & Gas Furn																		
Cleaned Coil Public Assembly Pkg AC & Gas Furn																		
Chiller-Reset Public Assembly Pkg AC & Gas Furn																		
Scheduled AHU Public Assembly Pkg AC & Gas Furn																		
Boiler-Reset Public Assembly Pkg AC & Gas Furn																		
Ceiling Insulation Public Assembly Pkg AC & Gas Furn																		
Cool Roof Public Assembly Pkg AC & Gas Furn																		
Floor Insulation Public Assembly Pkg AC & Gas Furn																		
Packaged Unit Efficiency Public Assembly Pkg AC & Gas Furn																		
VAV Office - Small Pkg AC & Gas Furn																		
Optimized OA Office - Small Pkg AC & Gas Furn																		
No Econ Office - Small Pkg AC & Gas Furn																		
Economizer Lim Office - Small Pkg AC & Gas Furn																		
Cleaned Coil Office - Small Pkg AC & Gas Furn																		
Chiller-Reset Office - Small Pkg AC & Gas Furn																		
Scheduled AHU Office - Small Pkg AC & Gas Furn																		
Boiler-Reset Office - Small Pkg AC & Gas Furn																		
Ceiling Insulation Office - Small Pkg AC & Gas Furn																		
Cool Roof Office - Small Pkg AC & Gas Furn																		
Floor Insulation Office - Small Pkg AC & Gas Furn																		
Packaged Unit Efficiency Office - Small Pkg AC & Gas Furn																		
VAV Retail Chiller & Boiler																		
Optimized OA Retail Chiller & Boiler																		
No Econ Retail Chiller & Boiler																		
Economizer Lim Retail Chiller & Boiler																		
Cleaned Coil Retail Chiller & Boiler																		
Chiller-Reset Retail Chiller & Boiler																		
Scheduled AHU Retail Chiller & Boiler																		
Boiler-Reset Retail Chiller & Boiler																		
Ceiling Insulation Retail Chiller & Boiler																		
Chiller Efficiency Retail Chiller & Boiler																		
Cool Roof Retail Chiller & Boiler																		
Floor Insulation Retail Chiller & Boiler																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Variable CWPump Retail Chiller & Boiler																		
Variable HWPump Retail Chiller & Boiler																		
VAV Retail Pkg AC & Gas Furn																		
Optimized OA Retail Pkg AC & Gas Furn																		
No Econ Retail Pkg AC & Gas Furn																		
Economizer Lim Retail Pkg AC & Gas Furn																		
Cleaned Coil Retail Pkg AC & Gas Furn																		
Chiller-Reset Retail Pkg AC & Gas Furn																		
Scheduled AHU Retail Pkg AC & Gas Furn																		
Boiler-Reset Retail Pkg AC & Gas Furn																		
Ceiling Insulation Retail Pkg AC & Gas Furn																		
Cool Roof Retail Pkg AC & Gas Furn																		
Floor Insulation Retail Pkg AC & Gas Furn																		
Packaged Unit Efficiency Retail Pkg AC & Gas Furn																		
VAV Lodging Chiller & Boiler																		
Optimized OA Lodging Chiller & Boiler																		
No Econ Lodging Chiller & Boiler																		
Economizer Lim Lodging Chiller & Boiler																		
Cleaned Coil Lodging Chiller & Boiler																		
Chiller-Reset Lodging Chiller & Boiler																		
Scheduled AHU Lodging Chiller & Boiler																		
Boiler-Reset Lodging Chiller & Boiler																		
Ceiling Insulation Lodging Chiller & Boiler																		
Chiller Efficiency Lodging Chiller & Boiler																		
Cool Roof Lodging Chiller & Boiler																		
Floor Insulation Lodging Chiller & Boiler																		
Variable CWPump Lodging Chiller & Boiler																		
Variable HWPump Lodging Chiller & Boiler																		
Optimized OA Lodging PTAC w Elec Heat																		
No Econ Lodging PTAC w Elec Heat																		
Economizer Lim Lodging PTAC w Elec Heat																		
Cleaned Coil Lodging PTAC w Elec Heat																		
Chiller-Reset Lodging PTAC w Elec Heat																		
Scheduled AHU Lodging PTAC w Elec Heat																		
Boiler-Reset Lodging PTAC w Elec Heat																		
Ceiling Insulation Lodging PTAC w Elec Heat																		
Cool Roof Lodging PTAC w Elec Heat																		
Floor Insulation Lodging PTAC w Elec Heat																		
VAV Health Inpatient Chiller & Boiler																		
Optimized OA Health Inpatient Chiller & Boiler																		
No Econ Health Inpatient Chiller & Boiler																		
Economizer Lim Health Inpatient Chiller & Boiler																		
Cleaned Coil Health Inpatient Chiller & Boiler																		
Chiller-Reset Health Inpatient Chiller & Boiler																		
Scheduled AHU Health Inpatient Chiller & Boiler																		
Boiler-Reset Health Inpatient Chiller & Boiler																		
Ceiling Insulation Health Inpatient Chiller & Boiler																		
Chiller Efficiency Health Inpatient Chiller & Boiler																		
Cool Roof Health Inpatient Chiller & Boiler																		
Floor Insulation Health Inpatient Chiller & Boiler																		
Variable CWPump Health Inpatient Chiller & Boiler																		
Variable HWPump Health Inpatient Chiller & Boiler																		
VAV Health Inpatient Pkg AC & Gas Furn																		
Optimized OA Health Inpatient Pkg AC & Gas Furn																		
No Econ Health Inpatient Pkg AC & Gas Furn																		
Economizer Lim Health Inpatient Pkg AC & Gas Furn																		
Cleaned Coil Health Inpatient Pkg AC & Gas Furn																		
Chiller-Reset Health Inpatient Pkg AC & Gas Furn																		
Scheduled AHU Health Inpatient Pkg AC & Gas Furn																		
Boiler-Reset Health Inpatient Pkg AC & Gas Furn																		
Ceiling Insulation Health Inpatient Pkg AC & Gas Furn																		
Cool Roof Health Inpatient Pkg AC & Gas Furn																		
Floor Insulation Health Inpatient Pkg AC & Gas Furn																		
Packaged Unit Efficiency Health Inpatient Pkg AC & Gas Furn																		
VAV Food Service Pkg AC & Gas Furn																		
Optimized OA Food Service Pkg AC & Gas Furn																		
No Econ Food Service Pkg AC & Gas Furn																		
Economizer Lim Food Service Pkg AC & Gas Furn																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
Cleaned Coil Food Service Pkg AC & Gas Furn																		
Chiller-Reset Food Service Pkg AC & Gas Furn																		
Scheduled AHU Food Service Pkg AC & Gas Furn																		
Boiler-Reset Food Service Pkg AC & Gas Furn																		
Ceiling Insulation Food Service Pkg AC & Gas Furn																		
Cool Roof Food Service Pkg AC & Gas Furn																		
Floor Insulation Food Service Pkg AC & Gas Furn																		
Packaged Unit Efficiency Food Service Pkg AC & Gas Furn																		
VAV Food Sales Pkg AC & Gas Furn																		
Optimized OA Food Sales Pkg AC & Gas Furn																		
No Econ Food Sales Pkg AC & Gas Furn																		
Economizer Lim Food Sales Pkg AC & Gas Furn																		
Cleaned Coil Food Sales Pkg AC & Gas Furn																		
Chiller-Reset Food Sales Pkg AC & Gas Furn																		
Scheduled AHU Food Sales Pkg AC & Gas Furn																		
Boiler-Reset Food Sales Pkg AC & Gas Furn																		
Ceiling Insulation Food Sales Pkg AC & Gas Furn																		
Cool Roof Food Sales Pkg AC & Gas Furn																		
Floor Insulation Food Sales Pkg AC & Gas Furn																		
Packaged Unit Efficiency Food Sales Pkg AC & Gas Furn																		
VAV Education Chiller & Boiler																		
Optimized OA Education Chiller & Boiler																		
No Econ Education Chiller & Boiler																		
Economizer Lim Education Chiller & Boiler																		
Cleaned Coil Education Chiller & Boiler																		
Chiller-Reset Education Chiller & Boiler																		
Scheduled AHU Education Chiller & Boiler																		
Boiler-Reset Education Chiller & Boiler																		
Ceiling Insulation Education Chiller & Boiler																		
Chiller Efficiency Education Chiller & Boiler																		
Cool Roof Education Chiller & Boiler																		
Floor Insulation Education Chiller & Boiler																		
Variable CW Pump Education Chiller & Boiler																		
Variable HW Pump Education Chiller & Boiler																		
VAV Education Pkg AC & Gas Furn																		
Optimized OA Education Pkg AC & Gas Furn																		
No Econ Education Pkg AC & Gas Furn																		
Economizer Lim Education Pkg AC & Gas Furn																		
Cleaned Coil Education Pkg AC & Gas Furn																		
Chiller-Reset Education Pkg AC & Gas Furn																		
Scheduled AHU Education Pkg AC & Gas Furn																		
Boiler-Reset Education Pkg AC & Gas Furn																		
Ceiling Insulation Education Pkg AC & Gas Furn																		
Cool Roof Education Pkg AC & Gas Furn																		
Floor Insulation Education Pkg AC & Gas Furn																		
Packaged Unit Efficiency Education Pkg AC & Gas Furn																		
01_Gas Furnace / Central AC																		
01_Heat Pump / Central AC																		
01_Elec Res / Central AC																		
02_Gas Furnace / Central AC																		
02_Heat Pump / Central AC																		
02_Elec Res / Central AC																		
03_Gas Furnace / Central AC																		
03_Heat Pump / Central AC																		
03_Elec Res / Central AC																		
05_Gas Furnace / Central AC																		
05_Heat Pump / Central AC																		
05_Elec Res / Central AC																		
06_Gas Furnace / Central AC																		
06_Heat Pump / Central AC																		
06_Elec Res / Central AC																		
07_Gas Furnace / Central AC																		
07_Heat Pump / Central AC																		
07_Elec Res / Central AC																		
08_Gas Furnace / Central AC																		
08_Heat Pump / Central AC																		
08_Elec Res / Central AC																		
09-11_Gas Furnace / Central AC																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On- Peak	March: Off- Peak	March: Mid-Peak	April: On- Peak	April: Off- Peak	April: Mid- Peak	May: On- Peak	May: Off- Peak	May: Mid- Peak	June: On- Peak	June: Off- Peak	June: Mid- Peak
09-11_Heat Pump / Central AC																		
09-11_Elec Res / Central AC																		
12_Gas Furnace / Central AC																		
12_Heat Pump / Central AC																		
12_Elec Res / Central AC																		
13_Gas Furnace / Central AC																		
13_Heat Pump / Central AC																		
13_Elec Res / Central AC																		
14_Gas Furnace / Central AC																		
14_Heat Pump / Central AC																		
14_Elec Res / Central AC																		
15_Gas Furnace / Central AC																		
15_Heat Pump / Central AC																		
15_Elec Res / Central AC																		
16_Gas Furnace / Central AC																		
16_Heat Pump / Central AC																		
16_Elec Res / Central AC																		
17_Gas Furnace / Central AC																		
17_Heat Pump / Central AC																		
17_Elec Res / Central AC																		
18_Gas Furnace / Central AC																		
18_Heat Pump / Central AC																		
18_Elec Res / Central AC																		
19_Gas Furnace / Central AC																		
19_Heat Pump / Central AC																		
19_Elec Res / Central AC																		
20_Gas Furnace / Central AC																		
20_Heat Pump / Central AC																		
20_Elec Res / Central AC																		
21_Gas Furnace / Central AC																		
21_Heat Pump / Central AC																		
21_Elec Res / Central AC																		
23_Gas Furnace / Central AC																		
23_Heat Pump / Central AC																		
23_Elec Res / Central AC																		
25_Gas Furnace / Central AC																		
25_Heat Pump / Central AC																		
25_Elec Res / Central AC																		
26_Gas Furnace / Central AC																		
26_Heat Pump / Central AC																		
26_Elec Res / Central AC																		
27_Gas Furnace / Central AC																		
27_Heat Pump / Central AC																		
27_Elec Res / Central AC																		
28_Gas Furnace / Central AC																		
28_Heat Pump / Central AC																		
28_Elec Res / Central AC																		
29_Gas Furnace / Central AC																		
29_Heat Pump / Central AC																		
29_Elec Res / Central AC																		
30_Gas Furnace / Central AC																		
30_Heat Pump / Central AC																		
30_Elec Res / Central AC																		
31_Gas Furnace / Central AC																		
31_Heat Pump / Central AC																		
31_Elec Res / Central AC																		
33_Gas Furnace / Central AC																		
33_Heat Pump / Central AC																		
33_Elec Res / Central AC																		
34_Gas Furnace / Central AC																		
34_Heat Pump / Central AC																		
34_Elec Res / Central AC																		
35_Gas Furnace / Central AC																		
35_Heat Pump / Central AC																		
35_Elec Res / Central AC																		
36_Gas Furnace / Central AC																		
36_Elec Res / Central AC																		
37_Heat Pump / Central AC																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	January: On-Peak	January: Off-Peak	January: Mid-Peak	February: On-Peak	February: Off-Peak	February: Mid-Peak	March: On-Peak	March: Off-Peak	March: Mid-Peak	April: On-Peak	April: Off-Peak	April: Mid-Peak	May: On-Peak	May: Off-Peak	May: Mid-Peak	June: On-Peak	June: Off-Peak	June: Mid-Peak
38_Gas Furnace / Central AC																		
38_Elec Res / Central AC																		
39_Gas Furnace / Central AC																		
39_Heat Pump / Central AC																		
39_Elec Res / Central AC																		
40_Gas Furnace / Central AC																		
40_Heat Pump / Central AC																		
40_Elec Res / Central AC																		
41_Gas Furnace / Central AC																		
41_Heat Pump / Central AC																		
41_Elec Res / Central AC																		
42_Gas Furnace / Central AC																		
42_Heat Pump / Central AC																		
01_Multifamily																		
02_Multifamily																		
03_Multifamily																		
05_Multifamily																		
06_Multifamily																		
07_Multifamily																		
08_Multifamily																		
09-11_Multifamily																		
12_Multifamily																		
13_Multifamily																		
14_Multifamily																		
16_Multifamily																		
17_Multifamily																		
18_Multifamily																		
19_Multifamily																		
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36_Multifamily																		
37_Multifamily																		
38_Multifamily																		
39_Multifamily																		
40_Multifamily																		
41_Multifamily																		
42_Multifamily																		
43_Heat Pump / Central AC																		
Commercial New Construction																		

Normalized Load Shape by Avoided Cost Period

Load Shape Name	July: On-	July: Off-	July: Mid-	August:	August:	August:	September:	September:	September:	October:	October:	October:	November:	November:	November:	December:	December:	December:	Sum
	Peak	Peak	Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	
Residential Electric Total																			
Residential Electric Heat																			
Residential Cooling																			
Residential Refrigerator																			
Residential Freezer																			
Residential Electric Cooking																			
Residential Dishwasher																			
Residential Electric Miscellaneous																			
Residential Electric Dryer																			
Residential Electric Hot Water																			
Residential Clothes Washer																			
Residential Pool/Spa																			
Residential Television																			
Residential Lighting																			
Office, Small, Non-Residential Electric Cooking																			
Office, Small, Non-Residential Cooling																			
Office, Small, Non-Residential Electric Heat																			
Office, Small, Non-Residential Electric Hot Water																			
Office, Small, Non-Residential Interior Lighting																			
Office, Small, Non-Residential Electric Miscellaneous																			
Office, Small, Non-Residential Office Equipment																			
Office, Small, Non-Residential Exterior Lighting																			
Office, Small, Non-Residential Refrigeration																			
Office, Small, Non-Residential Ventilation																			
Office, Small, Non-Residential Electric Total																			
Office, Medium, Non-Residential Electric Cooking																			
Office, Medium, Non-Residential Cooling																			
Office, Medium, Non-Residential Electric Heat																			
Office, Medium, Non-Residential Electric Hot Water																			
Office, Medium, Non-Residential Interior Lighting																			
Office, Medium, Non-Residential Electric Miscellaneous																			
Office, Medium, Non-Residential Office Equipment																			
Office, Medium, Non-Residential Exterior Lighting																			
Office, Medium, Non-Residential Refrigeration																			
Office, Medium, Non-Residential Ventilation																			
Office, Medium, Non-Residential Electric Total																			
Office, Large, Non-Residential Electric Cooking																			
Office, Large, Non-Residential Cooling																			
Office, Large, Non-Residential Electric Heat																			
Office, Large, Non-Residential Electric Hot Water																			
Office, Large, Non-Residential Interior Lighting																			
Office, Large, Non-Residential Electric Miscellaneous																			
Office, Large, Non-Residential Office Equipment																			
Office, Large, Non-Residential Exterior Lighting																			
Office, Large, Non-Residential Refrigeration																			
Office, Large, Non-Residential Ventilation																			
Office, Large, Non-Residential Electric Total																			
Retail, Small, Non-Residential Electric Cooking																			
Retail, Small, Non-Residential Cooling																			
Retail, Small, Non-Residential Electric Heat																			
Retail, Small, Non-Residential Electric Hot Water																			
Retail, Small, Non-Residential Interior Lighting																			
Retail, Small, Non-Residential Electric Miscellaneous																			
Retail, Small, Non-Residential Office Equipment																			
Retail, Small, Non-Residential Exterior Lighting																			
Retail, Small, Non-Residential Refrigeration																			
Retail, Small, Non-Residential Ventilation																			
Retail, Small, Non-Residential Electric Total																			
Retail, Large, Non-Residential Electric Cooking																			
Retail, Large, Non-Residential Cooling																			
Retail, Large, Non-Residential Electric Heat																			
Retail, Large, Non-Residential Electric Hot Water																			
Retail, Large, Non-Residential Interior Lighting																			
Retail, Large, Non-Residential Electric Miscellaneous																			
Retail, Large, Non-Residential Office Equipment																			
Retail, Large, Non-Residential Exterior Lighting																			
Retail, Large, Non-Residential Refrigeration																			
Retail, Large, Non-Residential Ventilation																			

Normalized Load Shape by Avoided Cost Period

	July: On- Peak	July: Off- Peak	July: Mid- Peak	August: On-Peak	August: Off-Peak	August: Mid-Peak	September: On- Peak	September: Off- Peak	September: Mid- Peak	October: On-Peak	October: Off-Peak	October: Mid-Peak	November: On-Peak	November: Off-Peak	November: Mid- Peak	December: On-Peak	December: Off-Peak	December: Mid- Peak	Sum
Load Shape Name																			
Retail, Large, Non-Residential Electric Total																			
Restaurant, 1-Meal, Non-Residential Electric Cooking																			
Restaurant, 1-Meal, Non-Residential Cooling																			
Restaurant, 1-Meal, Non-Residential Electric Heat																			
Restaurant, 1-Meal, Non-Residential Electric Hot Water																			
Restaurant, 1-Meal, Non-Residential Interior Lighting																			
Restaurant, 1-Meal, Non-Residential Electric Miscellaneous																			
Restaurant, 1-Meal, Non-Residential Office Equipment																			
Restaurant, 1-Meal, Non-Residential Exterior Lighting																			
Restaurant, 1-Meal, Non-Residential Refrigeration																			
Restaurant, 1-Meal, Non-Residential Ventilation																			
Restaurant, 1-Meal, Non-Residential Electric Total																			
Restaurant, 2-Meals, Non-Residential Electric Cooking																			
Restaurant, 2-Meals, Non-Residential Cooling																			
Restaurant, 2-Meals, Non-Residential Electric Heat																			
Restaurant, 2-Meals, Non-Residential Electric Hot Water																			
Restaurant, 2-Meals, Non-Residential Interior Lighting																			
Restaurant, 2-Meals, Non-Residential Electric Miscellaneous																			
Restaurant, 2-Meals, Non-Residential Office Equipment																			
Restaurant, 2-Meals, Non-Residential Exterior Lighting																			
Restaurant, 2-Meals, Non-Residential Refrigeration																			
Restaurant, 2-Meals, Non-Residential Ventilation																			
Restaurant, 2-Meals, Non-Residential Electric Total																			
Restaurant, 3-Meals, Non-Residential Electric Cooking																			
Restaurant, 3-Meals, Non-Residential Cooling																			
Restaurant, 3-Meals, Non-Residential Electric Heat																			
Restaurant, 3-Meals, Non-Residential Electric Hot Water																			
Restaurant, 3-Meals, Non-Residential Interior Lighting																			
Restaurant, 3-Meals, Non-Residential Electric Miscellaneous																			
Restaurant, 3-Meals, Non-Residential Office Equipment																			
Restaurant, 3-Meals, Non-Residential Exterior Lighting																			
Restaurant, 3-Meals, Non-Residential Refrigeration																			
Restaurant, 3-Meals, Non-Residential Ventilation																			
Restaurant, 3-Meals, Non-Residential Electric Total																			
Fast-Food, 1-Meal, Non-Residential Electric Cooking																			
Fast-Food, 1-Meal, Non-Residential Cooling																			
Fast-Food, 1-Meal, Non-Residential Electric Heat																			
Fast-Food, 1-Meal, Non-Residential Electric Hot Water																			
Fast-Food, 1-Meal, Non-Residential Interior Lighting																			
Fast-Food, 1-Meal, Non-Residential Electric Miscellaneous																			
Fast-Food, 1-Meal, Non-Residential Office Equipment																			
Fast-Food, 1-Meal, Non-Residential Exterior Lighting																			
Fast-Food, 1-Meal, Non-Residential Refrigeration																			
Fast-Food, 1-Meal, Non-Residential Ventilation																			
Fast-Food, 1-Meal, Non-Residential Electric Total																			
Fast-Food, 2-Meals, Non-Residential Electric Cooking																			
Fast-Food, 2-Meals, Non-Residential Cooling																			
Fast-Food, 2-Meals, Non-Residential Electric Heat																			
Fast-Food, 2-Meals, Non-Residential Electric Hot Water																			
Fast-Food, 2-Meals, Non-Residential Interior Lighting																			
Fast-Food, 2-Meals, Non-Residential Electric Miscellaneous																			
Fast-Food, 2-Meals, Non-Residential Office Equipment																			
Fast-Food, 2-Meals, Non-Residential Exterior Lighting																			
Fast-Food, 2-Meals, Non-Residential Refrigeration																			
Fast-Food, 2-Meals, Non-Residential Ventilation																			
Fast-Food, 2-Meals, Non-Residential Electric Total																			
Fast-Food, 3-Meals, Non-Residential Electric Cooking																			
Fast-Food, 3-Meals, Non-Residential Cooling																			
Fast-Food, 3-Meals, Non-Residential Electric Heat																			
Fast-Food, 3-Meals, Non-Residential Electric Hot Water																			
Fast-Food, 3-Meals, Non-Residential Interior Lighting																			
Fast-Food, 3-Meals, Non-Residential Electric Miscellaneous																			
Fast-Food, 3-Meals, Non-Residential Office Equipment																			
Fast-Food, 3-Meals, Non-Residential Exterior Lighting																			
Fast-Food, 3-Meals, Non-Residential Refrigeration																			
Fast-Food, 3-Meals, Non-Residential Ventilation																			
Fast-Food, 3-Meals, Non-Residential Electric Total																			
Grocery, Non-Residential Electric Cooking																			

Normalized Load Shape by Avoided Cost Period

Load Shape Name	July: On-Peak	July: Off-Peak	July: Mid-Peak	August: On-Peak	August: Off-Peak	August: Mid-Peak	September: On-Peak	September: Off-Peak	September: Mid-Peak	October: On-Peak	October: Off-Peak	October: Mid-Peak	November: On-Peak	November: Off-Peak	November: Mid-Peak	December: On-Peak	December: Off-Peak	December: Mid-Peak	Sum
Grocery, Non-Residential Cooling																			
Grocery, Non-Residential Electric Heat																			
Grocery, Non-Residential Electric Hot Water																			
Grocery, Non-Residential Interior Lighting																			
Grocery, Non-Residential Electric Miscellaneous																			
Grocery, Non-Residential Office Equipment																			
Grocery, Non-Residential Exterior Lighting																			
Grocery, Non-Residential Refrigeration																			
Grocery, Non-Residential Ventilation																			
Grocery, Non-Residential Electric Total																			
Convenience, Non-Residential Electric Cooking																			
Convenience, Non-Residential Cooling																			
Convenience, Non-Residential Electric Heat																			
Convenience, Non-Residential Electric Hot Water																			
Convenience, Non-Residential Interior Lighting																			
Convenience, Non-Residential Electric Miscellaneous																			
Convenience, Non-Residential Office Equipment																			
Convenience, Non-Residential Exterior Lighting																			
Convenience, Non-Residential Refrigeration																			
Convenience, Non-Residential Ventilation																			
Convenience, Non-Residential Electric Total																			
Warehouse, NonRefrig., Non-Residential Electric Cooking																			
Warehouse, NonRefrig., Non-Residential Cooling																			
Warehouse, NonRefrig., Non-Residential Electric Heat																			
Warehouse, NonRefrig., Non-Residential Electric Hot Water																			
Warehouse, NonRefrig., Non-Residential Interior Lighting																			
Warehouse, NonRefrig., Non-Residential Electric Miscellaneous																			
Warehouse, NonRefrig., Non-Residential Office Equipment																			
Warehouse, NonRefrig., Non-Residential Exterior Lighting																			
Warehouse, NonRefrig., Non-Residential Refrigeration																			
Warehouse, NonRefrig., Non-Residential Ventilation																			
Warehouse, NonRefrig., Non-Residential Electric Total																			
Warehouse, Refrig., Non-Residential Electric Cooking																			
Warehouse, Refrig., Non-Residential Cooling																			
Warehouse, Refrig., Non-Residential Electric Heat																			
Warehouse, Refrig., Non-Residential Electric Hot Water																			
Warehouse, Refrig., Non-Residential Interior Lighting																			
Warehouse, Refrig., Non-Residential Electric Miscellaneous																			
Warehouse, Refrig., Non-Residential Office Equipment																			
Warehouse, Refrig., Non-Residential Exterior Lighting																			
Warehouse, Refrig., Non-Residential Refrigeration																			
Warehouse, Refrig., Non-Residential Ventilation																			
Warehouse, Refrig., Non-Residential Electric Total																			
School, Non-Residential Electric Cooking																			
School, Non-Residential Cooling																			
School, Non-Residential Electric Heat																			
School, Non-Residential Electric Hot Water																			
School, Non-Residential Interior Lighting																			
School, Non-Residential Electric Miscellaneous																			
School, Non-Residential Office Equipment																			
School, Non-Residential Exterior Lighting																			
School, Non-Residential Refrigeration																			
School, Non-Residential Ventilation																			
School, Non-Residential Electric Total																			
College, Non-Residential Electric Cooking																			
College, Non-Residential Cooling																			
College, Non-Residential Electric Heat																			
College, Non-Residential Electric Hot Water																			
College, Non-Residential Interior Lighting																			
College, Non-Residential Electric Miscellaneous																			
College, Non-Residential Office Equipment																			
College, Non-Residential Exterior Lighting																			
College, Non-Residential Refrigeration																			
College, Non-Residential Ventilation																			
College, Non-Residential Electric Total																			
Hospital, Non-Residential Electric Cooking																			
Hospital, Non-Residential Cooling																			
Hospital, Non-Residential Electric Heat																			

Normalized Load Shape by Avoided Cost Period

Load Shape Name	July: On-Peak	July: Off-Peak	July: Mid-Peak	August: On-Peak	August: Off-Peak	August: Mid-Peak	September: On-Peak	September: Off-Peak	September: Mid-Peak	October: On-Peak	October: Off-Peak	October: Mid-Peak	November: On-Peak	November: Off-Peak	November: Mid-Peak	December: On-Peak	December: Off-Peak	December: Mid-Peak	Sum
Hospital, Non-Residential Electric Hot Water																			
Hospital, Non-Residential Interior Lighting																			
Hospital, Non-Residential Electric Miscellaneous																			
Hospital, Non-Residential Office Equipment																			
Hospital, Non-Residential Exterior Lighting																			
Hospital, Non-Residential Refrigeration																			
Hospital, Non-Residential Ventilation																			
Hospital, Non-Residential Electric Total																			
Nursing Home, Non-Residential Electric Cooking																			
Nursing Home, Non-Residential Cooling																			
Nursing Home, Non-Residential Electric Heat																			
Nursing Home, Non-Residential Electric Hot Water																			
Nursing Home, Non-Residential Interior Lighting																			
Nursing Home, Non-Residential Electric Miscellaneous																			
Nursing Home, Non-Residential Office Equipment																			
Nursing Home, Non-Residential Exterior Lighting																			
Nursing Home, Non-Residential Refrigeration																			
Nursing Home, Non-Residential Ventilation																			
Nursing Home, Non-Residential Electric Total																			
Hotel, Non-Residential Electric Cooking																			
Hotel, Non-Residential Cooling																			
Hotel, Non-Residential Electric Heat																			
Hotel, Non-Residential Electric Hot Water																			
Hotel, Non-Residential Interior Lighting																			
Hotel, Non-Residential Electric Miscellaneous																			
Hotel, Non-Residential Office Equipment																			
Hotel, Non-Residential Exterior Lighting																			
Hotel, Non-Residential Refrigeration																			
Hotel, Non-Residential Ventilation																			
Hotel, Non-Residential Electric Total																			
Motel, Non-Residential Electric Cooking																			
Motel, Non-Residential Cooling																			
Motel, Non-Residential Electric Heat																			
Motel, Non-Residential Electric Hot Water																			
Motel, Non-Residential Interior Lighting																			
Motel, Non-Residential Electric Miscellaneous																			
Motel, Non-Residential Office Equipment																			
Motel, Non-Residential Exterior Lighting																			
Motel, Non-Residential Refrigeration																			
Motel, Non-Residential Ventilation																			
Motel, Non-Residential Electric Total																			
Religious Worship, Non-Residential Electric Cooking																			
Religious Worship, Non-Residential Cooling																			
Religious Worship, Non-Residential Electric Heat																			
Religious Worship, Non-Residential Electric Hot Water																			
Religious Worship, Non-Residential Interior Lighting																			
Religious Worship, Non-Residential Electric Miscellaneous																			
Religious Worship, Non-Residential Office Equipment																			
Religious Worship, Non-Residential Exterior Lighting																			
Religious Worship, Non-Residential Refrigeration																			
Religious Worship, Non-Residential Ventilation																			
Religious Worship, Non-Residential Electric Total																			
Public Assembly, Non-Residential Electric Cooking																			
Public Assembly, Non-Residential Cooling																			
Public Assembly, Non-Residential Electric Heat																			
Public Assembly, Non-Residential Electric Hot Water																			
Public Assembly, Non-Residential Interior Lighting																			
Public Assembly, Non-Residential Electric Miscellaneous																			
Public Assembly, Non-Residential Office Equipment																			
Public Assembly, Non-Residential Exterior Lighting																			
Public Assembly, Non-Residential Refrigeration																			
Public Assembly, Non-Residential Ventilation																			
Public Assembly, Non-Residential Electric Total																			
Service, Non-Residential Electric Cooking																			
Service, Non-Residential Cooling																			
Service, Non-Residential Electric Heat																			
Service, Non-Residential Electric Hot Water																			
Service, Non-Residential Interior Lighting																			

Normalized Load Shape by Avoided Cost Period

Load Shape Name	July: On-Peak	July: Off-Peak	July: Mid-Peak	August: On-Peak	August: Off-Peak	August: Mid-Peak	September: On-Peak	September: Off-Peak	September: Mid-Peak	October: On-Peak	October: Off-Peak	October: Mid-Peak	November: On-Peak	November: Off-Peak	November: Mid-Peak	December: On-Peak	December: Off-Peak	December: Mid-Peak	Sum
Service, Non-Residential Electric Miscellaneous																			
Service, Non-Residential Office Equipment																			
Service, Non-Residential Exterior Lighting																			
Service, Non-Residential Refrigeration																			
Service, Non-Residential Ventilation																			
Service, Non-Residential Electric Total																			
VAV Office - Large Chiller & Boiler																			
Optimized OA Office - Large Chiller & Boiler																			
No Econ Office - Large Chiller & Boiler																			
Economizer Lim Office - Large Chiller & Boiler																			
Cleaned Coil Office - Large Chiller & Boiler																			
Chiller-Reset Office - Large Chiller & Boiler																			
Scheduled AHU Office - Large Chiller & Boiler																			
Boiler-Reset Office - Large Chiller & Boiler																			
Ceiling Insulation Office - Large Chiller & Boiler																			
Chiller Efficiency Office - Large Chiller & Boiler																			
Cool Roof Office - Large Chiller & Boiler																			
Floor Insulation Office - Large Chiller & Boiler																			
Variable CW Pump Office - Large Chiller & Boiler																			
Variable HW Pump Office - Large Chiller & Boiler																			
VAV Warehouse Pkg AC & Gas Furn																			
Optimized OA Warehouse Pkg AC & Gas Furn																			
No Econ Warehouse Pkg AC & Gas Furn																			
Economizer Lim Warehouse Pkg AC & Gas Furn																			
Cleaned Coil Warehouse Pkg AC & Gas Furn																			
Chiller-Reset Warehouse Pkg AC & Gas Furn																			
Scheduled AHU Warehouse Pkg AC & Gas Furn																			
Boiler-Reset Warehouse Pkg AC & Gas Furn																			
Ceiling Insulation Warehouse Pkg AC & Gas Furn																			
Cool Roof Warehouse Pkg AC & Gas Furn																			
Floor Insulation Warehouse Pkg AC & Gas Furn																			
Packaged Unit Efficiency Warehouse Pkg AC & Gas Furn																			
VAV Public Assembly Pkg AC & Gas Furn																			
Optimized OA Public Assembly Pkg AC & Gas Furn																			
No Econ Public Assembly Pkg AC & Gas Furn																			
Economizer Lim Public Assembly Pkg AC & Gas Furn																			
Cleaned Coil Public Assembly Pkg AC & Gas Furn																			
Chiller-Reset Public Assembly Pkg AC & Gas Furn																			
Scheduled AHU Public Assembly Pkg AC & Gas Furn																			
Boiler-Reset Public Assembly Pkg AC & Gas Furn																			
Ceiling Insulation Public Assembly Pkg AC & Gas Furn																			
Cool Roof Public Assembly Pkg AC & Gas Furn																			
Floor Insulation Public Assembly Pkg AC & Gas Furn																			
Packaged Unit Efficiency Public Assembly Pkg AC & Gas Furn																			
VAV Office - Small Pkg AC & Gas Furn																			
Optimized OA Office - Small Pkg AC & Gas Furn																			
No Econ Office - Small Pkg AC & Gas Furn																			
Economizer Lim Office - Small Pkg AC & Gas Furn																			
Cleaned Coil Office - Small Pkg AC & Gas Furn																			
Chiller-Reset Office - Small Pkg AC & Gas Furn																			
Scheduled AHU Office - Small Pkg AC & Gas Furn																			
Boiler-Reset Office - Small Pkg AC & Gas Furn																			
Ceiling Insulation Office - Small Pkg AC & Gas Furn																			
Cool Roof Office - Small Pkg AC & Gas Furn																			
Floor Insulation Office - Small Pkg AC & Gas Furn																			
Packaged Unit Efficiency Office - Small Pkg AC & Gas Furn																			
VAV Retail Chiller & Boiler																			
Optimized OA Retail Chiller & Boiler																			
No Econ Retail Chiller & Boiler																			
Economizer Lim Retail Chiller & Boiler																			
Cleaned Coil Retail Chiller & Boiler																			
Chiller-Reset Retail Chiller & Boiler																			
Scheduled AHU Retail Chiller & Boiler																			
Boiler-Reset Retail Chiller & Boiler																			
Ceiling Insulation Retail Chiller & Boiler																			
Chiller Efficiency Retail Chiller & Boiler																			
Cool Roof Retail Chiller & Boiler																			
Floor Insulation Retail Chiller & Boiler																			

Normalized Load Shape by Avoided Cost Period

Load Shape Name	July: On-	July: Off-	July: Mid-	August:	August:	August:	September:	September:	September:	October:	October:	October:	November:	November:	November:	December:	December:	December:	Sum
	Peak	Peak	Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	
Variable CWPump Retail Chiller & Boiler																			
Variable HWPump Retail Chiller & Boiler																			
VAV Retail Pkg AC & Gas Furn																			
Optimized OA Retail Pkg AC & Gas Furn																			
No Econ Retail Pkg AC & Gas Furn																			
Economizer Lim Retail Pkg AC & Gas Furn																			
Cleaned Coil Retail Pkg AC & Gas Furn																			
Chiller-Reset Retail Pkg AC & Gas Furn																			
Scheduled AHU Retail Pkg AC & Gas Furn																			
Boiler-Reset Retail Pkg AC & Gas Furn																			
Ceiling Insulation Retail Pkg AC & Gas Furn																			
Cool Roof Retail Pkg AC & Gas Furn																			
Floor Insulation Retail Pkg AC & Gas Furn																			
Packaged Unit Efficiency Retail Pkg AC & Gas Furn																			
VAV Lodging Chiller & Boiler																			
Optimized OA Lodging Chiller & Boiler																			
No Econ Lodging Chiller & Boiler																			
Economizer Lim Lodging Chiller & Boiler																			
Cleaned Coil Lodging Chiller & Boiler																			
Chiller-Reset Lodging Chiller & Boiler																			
Scheduled AHU Lodging Chiller & Boiler																			
Boiler-Reset Lodging Chiller & Boiler																			
Ceiling Insulation Lodging Chiller & Boiler																			
Chiller Efficiency Lodging Chiller & Boiler																			
Cool Roof Lodging Chiller & Boiler																			
Floor Insulation Lodging Chiller & Boiler																			
Variable CWPump Lodging Chiller & Boiler																			
Variable HWPump Lodging Chiller & Boiler																			
Optimized OA Lodging PTAC w Elec Heat																			
No Econ Lodging PTAC w Elec Heat																			
Economizer Lim Lodging PTAC w Elec Heat																			
Cleaned Coil Lodging PTAC w Elec Heat																			
Chiller-Reset Lodging PTAC w Elec Heat																			
Scheduled AHU Lodging PTAC w Elec Heat																			
Boiler-Reset Lodging PTAC w Elec Heat																			
Ceiling Insulation Lodging PTAC w Elec Heat																			
Cool Roof Lodging PTAC w Elec Heat																			
Floor Insulation Lodging PTAC w Elec Heat																			
VAV Health Inpatient Chiller & Boiler																			
Optimized OA Health Inpatient Chiller & Boiler																			
No Econ Health Inpatient Chiller & Boiler																			
Economizer Lim Health Inpatient Chiller & Boiler																			
Cleaned Coil Health Inpatient Chiller & Boiler																			
Chiller-Reset Health Inpatient Chiller & Boiler																			
Scheduled AHU Health Inpatient Chiller & Boiler																			
Boiler-Reset Health Inpatient Chiller & Boiler																			
Ceiling Insulation Health Inpatient Chiller & Boiler																			
Chiller Efficiency Health Inpatient Chiller & Boiler																			
Cool Roof Health Inpatient Chiller & Boiler																			
Floor Insulation Health Inpatient Chiller & Boiler																			
Variable CWPump Health Inpatient Chiller & Boiler																			
Variable HWPump Health Inpatient Chiller & Boiler																			
VAV Health Inpatient Pkg AC & Gas Furn																			
Optimized OA Health Inpatient Pkg AC & Gas Furn																			
No Econ Health Inpatient Pkg AC & Gas Furn																			
Economizer Lim Health Inpatient Pkg AC & Gas Furn																			
Cleaned Coil Health Inpatient Pkg AC & Gas Furn																			
Chiller-Reset Health Inpatient Pkg AC & Gas Furn																			
Scheduled AHU Health Inpatient Pkg AC & Gas Furn																			
Boiler-Reset Health Inpatient Pkg AC & Gas Furn																			
Ceiling Insulation Health Inpatient Pkg AC & Gas Furn																			
Cool Roof Health Inpatient Pkg AC & Gas Furn																			
Floor Insulation Health Inpatient Pkg AC & Gas Furn																			
Packaged Unit Efficiency Health Inpatient Pkg AC & Gas Furn																			
VAV Food Service Pkg AC & Gas Furn																			
Optimized OA Food Service Pkg AC & Gas Furn																			
No Econ Food Service Pkg AC & Gas Furn																			
Economizer Lim Food Service Pkg AC & Gas Furn																			

Normalized Load Shape by Avoided Cost Period

Load Shape Name	July: On-Peak	July: Off-Peak	July: Mid-Peak	August: On-Peak	August: Off-Peak	August: Mid-Peak	September: On-Peak	September: Off-Peak	September: Mid-Peak	October: On-Peak	October: Off-Peak	October: Mid-Peak	November: On-Peak	November: Off-Peak	November: Mid-Peak	December: On-Peak	December: Off-Peak	December: Mid-Peak	Sum
Cleaned Coil Food Service Pkg AC & Gas Furn																			
Chiller-Reset Food Service Pkg AC & Gas Furn																			
Scheduled AHU Food Service Pkg AC & Gas Furn																			
Boiler-Reset Food Service Pkg AC & Gas Furn																			
Ceiling Insulation Food Service Pkg AC & Gas Furn																			
Cool Roof Food Service Pkg AC & Gas Furn																			
Floor Insulation Food Service Pkg AC & Gas Furn																			
Packaged Unit Efficiency Food Service Pkg AC & Gas Furn																			
VAV Food Sales Pkg AC & Gas Furn																			
Optimized OA Food Sales Pkg AC & Gas Furn																			
No Econ Food Sales Pkg AC & Gas Furn																			
Economizer Lim Food Sales Pkg AC & Gas Furn																			
Cleaned Coil Food Sales Pkg AC & Gas Furn																			
Chiller-Reset Food Sales Pkg AC & Gas Furn																			
Scheduled AHU Food Sales Pkg AC & Gas Furn																			
Boiler-Reset Food Sales Pkg AC & Gas Furn																			
Ceiling Insulation Food Sales Pkg AC & Gas Furn																			
Cool Roof Food Sales Pkg AC & Gas Furn																			
Floor Insulation Food Sales Pkg AC & Gas Furn																			
Packaged Unit Efficiency Food Sales Pkg AC & Gas Furn																			
VAV Education Chiller & Boiler																			
Optimized OA Education Chiller & Boiler																			
No Econ Education Chiller & Boiler																			
Economizer Lim Education Chiller & Boiler																			
Cleaned Coil Education Chiller & Boiler																			
Chiller-Reset Education Chiller & Boiler																			
Scheduled AHU Education Chiller & Boiler																			
Boiler-Reset Education Chiller & Boiler																			
Ceiling Insulation Education Chiller & Boiler																			
Chiller Efficiency Education Chiller & Boiler																			
Cool Roof Education Chiller & Boiler																			
Floor Insulation Education Chiller & Boiler																			
Variable CW Pump Education Chiller & Boiler																			
Variable HW Pump Education Chiller & Boiler																			
VAV Education Pkg AC & Gas Furn																			
Optimized OA Education Pkg AC & Gas Furn																			
No Econ Education Pkg AC & Gas Furn																			
Economizer Lim Education Pkg AC & Gas Furn																			
Cleaned Coil Education Pkg AC & Gas Furn																			
Chiller-Reset Education Pkg AC & Gas Furn																			
Scheduled AHU Education Pkg AC & Gas Furn																			
Boiler-Reset Education Pkg AC & Gas Furn																			
Ceiling Insulation Education Pkg AC & Gas Furn																			
Cool Roof Education Pkg AC & Gas Furn																			
Floor Insulation Education Pkg AC & Gas Furn																			
Packaged Unit Efficiency Education Pkg AC & Gas Furn																			
01_Gas Furnace / Central AC																			
01_Heat Pump / Central AC																			
01_Elec Res / Central AC																			
02_Gas Furnace / Central AC																			
02_Heat Pump / Central AC																			
02_Elec Res / Central AC																			
03_Gas Furnace / Central AC																			
03_Heat Pump / Central AC																			
03_Elec Res / Central AC																			
05_Gas Furnace / Central AC																			
05_Heat Pump / Central AC																			
05_Elec Res / Central AC																			
06_Gas Furnace / Central AC																			
06_Heat Pump / Central AC																			
06_Elec Res / Central AC																			
07_Gas Furnace / Central AC																			
07_Heat Pump / Central AC																			
07_Elec Res / Central AC																			
08_Gas Furnace / Central AC																			
08_Heat Pump / Central AC																			
08_Elec Res / Central AC																			
09-11_Gas Furnace / Central AC																			

Normalized Load Shape by Avoided Cost Period																
Load Shape Name	July: On-	July: Off-	July: Mid-	August:	August:	August:	September	September	September						November	December
	Peak	Peak	Peak	On-Peak	Off-Peak	Mid-Peak	Peak	Peak	Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Peak	Mid-Peak
09-11_Heat Pump / Central AC																
09-11_Elec Res / Central AC																
12_Gas Furnace / Central AC																
12_Heat Pump / Central AC																
12_Elec Res / Central AC																
13_Gas Furnace / Central AC																
13_Heat Pump / Central AC																
13_Elec Res / Central AC																
14_Gas Furnace / Central AC																
14_Heat Pump / Central AC																
14_Elec Res / Central AC																
15_Gas Furnace / Central AC																
15_Heat Pump / Central AC																
15_Elec Res / Central AC																
16_Gas Furnace / Central AC																
16_Heat Pump / Central AC																
16_Elec Res / Central AC																
17_Gas Furnace / Central AC																
17_Heat Pump / Central AC																
17_Elec Res / Central AC																
18_Gas Furnace / Central AC																
18_Heat Pump / Central AC																
18_Elec Res / Central AC																
19_Gas Furnace / Central AC																
19_Heat Pump / Central AC																
19_Elec Res / Central AC																
20_Gas Furnace / Central AC																
20_Heat Pump / Central AC																
20_Elec Res / Central AC																
21_Gas Furnace / Central AC																
21_Heat Pump / Central AC																
21_Elec Res / Central AC																
23_Gas Furnace / Central AC																
23_Heat Pump / Central AC																
23_Elec Res / Central AC																
25_Gas Furnace / Central AC																
25_Heat Pump / Central AC																
25_Elec Res / Central AC																
26_Gas Furnace / Central AC																
26_Heat Pump / Central AC																
26_Elec Res / Central AC																
27_Gas Furnace / Central AC																
27_Heat Pump / Central AC																
27_Elec Res / Central AC																
28_Gas Furnace / Central AC																
28_Heat Pump / Central AC																
28_Elec Res / Central AC																
29_Gas Furnace / Central AC																
29_Heat Pump / Central AC																
29_Elec Res / Central AC																
30_Gas Furnace / Central AC																
30_Heat Pump / Central AC																
30_Elec Res / Central AC																
31_Gas Furnace / Central AC																
31_Heat Pump / Central AC																
31_Elec Res / Central AC																
33_Gas Furnace / Central AC																
33_Heat Pump / Central AC																
33_Elec Res / Central AC																
34_Gas Furnace / Central AC																
34_Heat Pump / Central AC																
34_Elec Res / Central AC																
35_Gas Furnace / Central AC																
35_Heat Pump / Central AC																
35_Elec Res / Central AC																
36_Gas Furnace / Central AC																
36_Elec Res / Central AC																
37_Heat Pump / Central AC																

Normalized Load Shape by Avoided Cost Period																
Load Shape Name	July: On-	July: Off-	July: Mid-	August:	August:	August:	September	September	September	October:	October:	October:	November	November	November	December:
	Peak	Peak	Peak	On-Peak	Off-Peak	Mid-Peak	r. On-Peak	r. Off-Peak	r. Mid-Peak	On-Peak	Off-Peak	Mid-Peak	On-Peak	Off-Peak	Mid-Peak	Sum
38_Gas Furnace / Central AC																
38_Elec Res / Central AC																
39_Gas Furnace / Central AC																
39_Heat Pump / Central AC																
39_Elec Res / Central AC																
40_Gas Furnace / Central AC																
40_Heat Pump / Central AC																
40_Elec Res / Central AC																
41_Gas Furnace / Central AC																
41_Heat Pump / Central AC																
41_Elec Res / Central AC																
42_Gas Furnace / Central AC																
42_Heat Pump / Central AC																
01_Multifamily																
02_Multifamily																
03_Multifamily																
05_Multifamily																
06_Multifamily																
07_Multifamily																
08_Multifamily																
09-11_Multifamily																
12_Multifamily																
13_Multifamily																
14_Multifamily																
16_Multifamily																
17_Multifamily																
18_Multifamily																
19_Multifamily																
20_Multifamily																
21_Multifamily																
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30_Multifamily																
31_Multifamily																
33_Multifamily																
34_Multifamily																
35_Multifamily																
36_Multifamily																
37_Multifamily																
38_Multifamily																
39_Multifamily																
40_Multifamily																
41_Multifamily																
42_Multifamily																
43_Heat Pump / Central AC																
Commercial New Construction																

BAU SCENARIO

Mapped To	Average of 2007	Average of 2008	Average of 2009	Average of 2010	Average of 2011	Average of 2012	Average of 2013	Average of 2014	Average of 2015	Average of 2016	Average of 2017	Average of 2018	Average of 2019	Average of 2020	Average of 2021	Average of 2022	Average of 2023	Average of 2024	Average of 2025	Average of 2026	Average of 2027	Average of 2028	Average of 2029	Average of 2030
January: On-Peak																								
January: Off-Peak																								
January: Mid-Peak																								
February: On-Peak																								
February: Off-Peak																								
February: Mid-Peak																								
March: On-Peak																								
March: Off-Peak																								
March: Mid-Peak																								
April: On-Peak																								
April: Off-Peak																								
April: Mid-Peak																								
May: On-Peak																								
May: Off-Peak																								
May: Mid-Peak																								
June: On-Peak																								
June: Off-Peak																								
June: Mid-Peak																								
July: On-Peak																								
July: Off-Peak																								
July: Mid-Peak																								
August: On-Peak																								
August: Off-Peak																								
August: Mid-Peak																								
September: On-Peak																								
September: Off-Peak																								
September: Mid-Peak																								
October: On-Peak																								
October: Off-Peak																								
October: Mid-Peak																								
November: On-Peak																								
November: Off-Peak																								
November: Mid-Peak																								
December: On-Peak																								
December: Off-Peak																								
December: Mid-Peak																								

CO2 SCENARIO

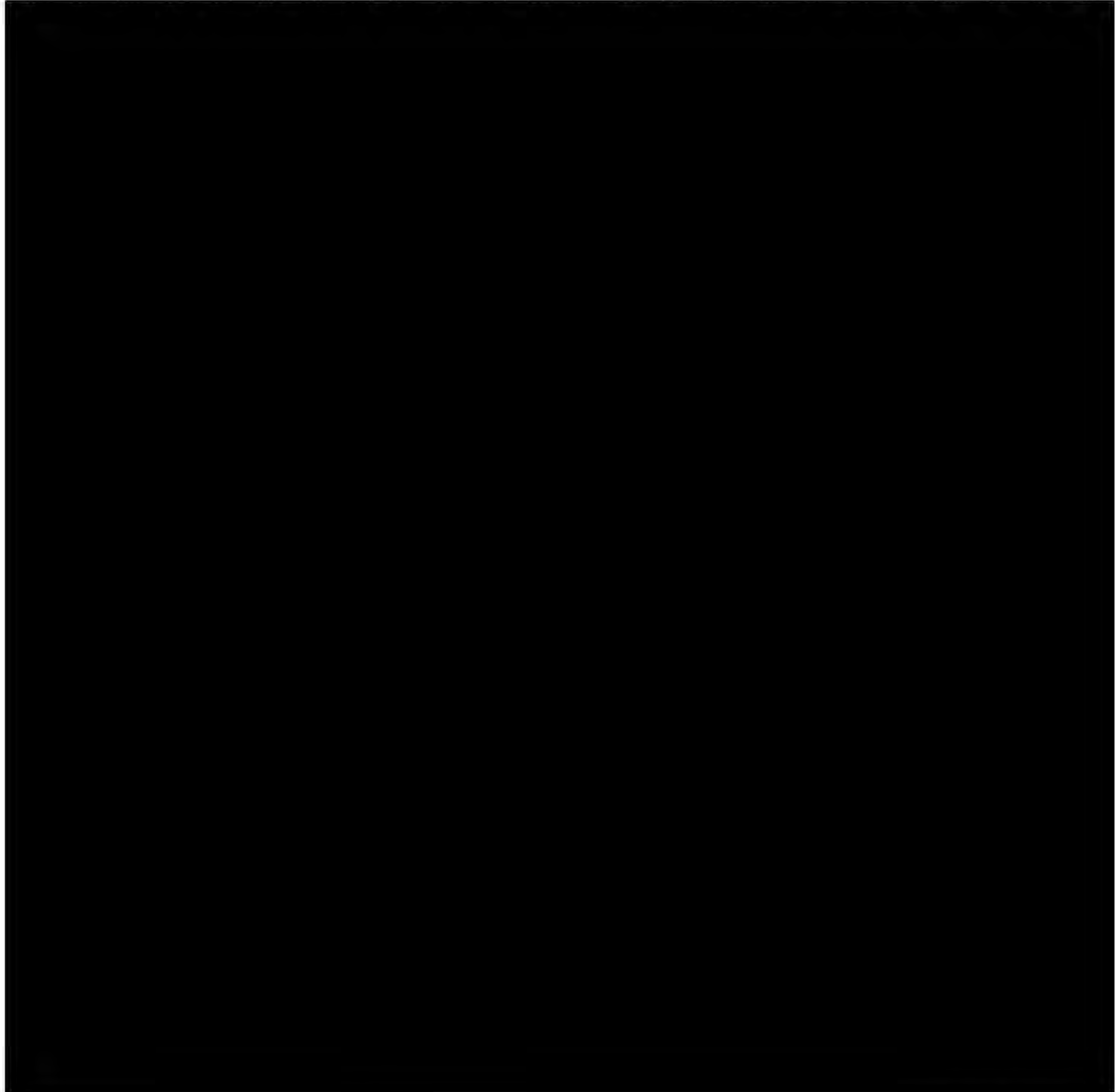
Avoided Cost Period	Average of 2007	Average of 2008	Average of 2009	Average of 2010	Average of 2011	Average of 2012	Average of 2013	Average of 2014	Average of 2015	Average of 2016	Average of 2017	Average of 2018	Average of 2019	Average of 2020	Average of 2021	Average of 2022	Average of 2023	Average of 2024	Average of 2025	Average of 2026	Average of 2027	Average of 2028	Average of 2029	Average of 2030
January: Mid-Peak																								
January: Off-Peak																								
January: On-Peak																								
February: Mid-Peak																								
February: Off-Peak																								
February: On-Peak																								
March: Mid-Peak																								
March: Off-Peak																								
March: On-Peak																								
April: Mid-Peak																								
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September: Mid-Peak																								
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October: Mid-Peak																								
October: Off-Peak																								
October: On-Peak																								
November: Mid-Peak																								
November: Off-Peak																								
November: On-Peak																								
December: Mid-Peak																								
December: Off-Peak																								
December: On-Peak																								

Annual value per kWh - BAU Scenario

Load Shape Name

Residential Electric Total
 Residential Electric Heat
 Residential Cooling
 Residential Refrigerator
 Residential Freezer
 Residential Electric Cooking
 Residential Dishwasher
 Residential Electric Miscellaneous
 Residential Electric Dryer
 Residential Electric Hot Water
 Residential Clothes Washer
 Residential Pool/Spa
 Residential Television
 Residential Lighting
 Office, Small, Non-Residential Electric Cooking
 Office, Small, Non-Residential Cooling
 Office, Small, Non-Residential Electric Heat
 Office, Small, Non-Residential Electric Hot Water
 Office, Small, Non-Residential Interior Lighting
 Office, Small, Non-Residential Electric Miscellaneous
 Office, Small, Non-Residential Office Equipment
 Office, Small, Non-Residential Exterior Lighting
 Office, Small, Non-Residential Refrigeration
 Office, Small, Non-Residential Ventilation
 Office, Small, Non-Residential Electric Total
 Office, Medium, Non-Residential Electric Cooking
 Office, Medium, Non-Residential Cooling
 Office, Medium, Non-Residential Electric Heat
 Office, Medium, Non-Residential Electric Hot Water
 Office, Medium, Non-Residential Interior Lighting
 Office, Medium, Non-Residential Electric Miscellaneous
 Office, Medium, Non-Residential Office Equipment
 Office, Medium, Non-Residential Exterior Lighting
 Office, Medium, Non-Residential Refrigeration
 Office, Medium, Non-Residential Ventilation
 Office, Medium, Non-Residential Electric Total
 Office, Large, Non-Residential Electric Cooking
 Office, Large, Non-Residential Cooling
 Office, Large, Non-Residential Electric Heat
 Office, Large, Non-Residential Electric Hot Water
 Office, Large, Non-Residential Interior Lighting
 Office, Large, Non-Residential Electric Miscellaneous
 Office, Large, Non-Residential Office Equipment
 Office, Large, Non-Residential Exterior Lighting
 Office, Large, Non-Residential Refrigeration
 Office, Large, Non-Residential Ventilation
 Office, Large, Non-Residential Electric Total
 Retail, Small, Non-Residential Electric Cooking
 Retail, Small, Non-Residential Cooling
 Retail, Small, Non-Residential Electric Heat
 Retail, Small, Non-Residential Electric Hot Water
 Retail, Small, Non-Residential Interior Lighting
 Retail, Small, Non-Residential Electric Miscellaneous
 Retail, Small, Non-Residential Office Equipment
 Retail, Small, Non-Residential Exterior Lighting
 Retail, Small, Non-Residential Refrigeration
 Retail, Small, Non-Residential Ventilation
 Retail, Small, Non-Residential Electric Total
 Retail, Large, Non-Residential Electric Cooking
 Retail, Large, Non-Residential Cooling
 Retail, Large, Non-Residential Electric Heat
 Retail, Large, Non-Residential Electric Hot Water
 Retail, Large, Non-Residential Interior Lighting
 Retail, Large, Non-Residential Electric Miscellaneous
 Retail, Large, Non-Residential Office Equipment
 Retail, Large, Non-Residential Exterior Lighting
 Retail, Large, Non-Residential Refrigeration
 Retail, Large, Non-Residential Ventilation
 Retail, Large, Non-Residential Electric Total
 Restaurant, 1-Meal, Non-Residential Electric Cooking

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

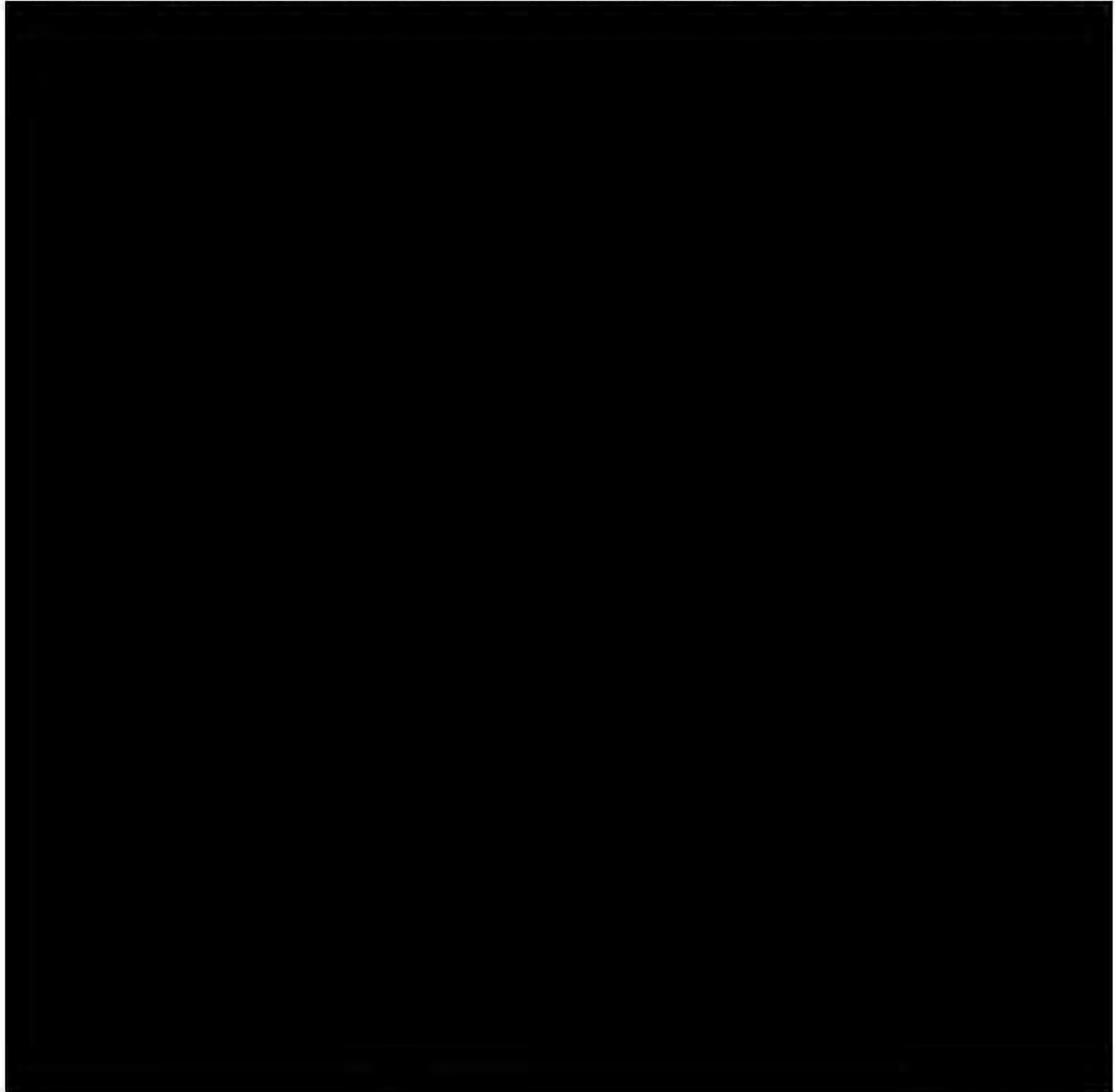


Annual value per kWh - BAU Scenario

Load Shape Name

Restaurant, 1-Meal, Non-Residential Cooling
 Restaurant, 1-Meal, Non-Residential Electric Heat
 Restaurant, 1-Meal, Non-Residential Electric Hot Water
 Restaurant, 1-Meal, Non-Residential Interior Lighting
 Restaurant, 1-Meal, Non-Residential Electric Miscellaneous
 Restaurant, 1-Meal, Non-Residential Office Equipment
 Restaurant, 1-Meal, Non-Residential Exterior Lighting
 Restaurant, 1-Meal, Non-Residential Refrigeration
 Restaurant, 1-Meal, Non-Residential Ventilation
 Restaurant, 1-Meal, Non-Residential Electric Total
 Restaurant, 2-Meals, Non-Residential Electric Cooking
 Restaurant, 2-Meals, Non-Residential Cooling
 Restaurant, 2-Meals, Non-Residential Electric Heat
 Restaurant, 2-Meals, Non-Residential Electric Hot Water
 Restaurant, 2-Meals, Non-Residential Interior Lighting
 Restaurant, 2-Meals, Non-Residential Electric Miscellaneous
 Restaurant, 2-Meals, Non-Residential Office Equipment
 Restaurant, 2-Meals, Non-Residential Exterior Lighting
 Restaurant, 2-Meals, Non-Residential Refrigeration
 Restaurant, 2-Meals, Non-Residential Ventilation
 Restaurant, 2-Meals, Non-Residential Electric Total
 Restaurant, 3-Meals, Non-Residential Electric Cooking
 Restaurant, 3-Meals, Non-Residential Cooling
 Restaurant, 3-Meals, Non-Residential Electric Heat
 Restaurant, 3-Meals, Non-Residential Electric Hot Water
 Restaurant, 3-Meals, Non-Residential Interior Lighting
 Restaurant, 3-Meals, Non-Residential Electric Miscellaneous
 Restaurant, 3-Meals, Non-Residential Office Equipment
 Restaurant, 3-Meals, Non-Residential Exterior Lighting
 Restaurant, 3-Meals, Non-Residential Refrigeration
 Restaurant, 3-Meals, Non-Residential Ventilation
 Restaurant, 3-Meals, Non-Residential Electric Total
 Fast-Food, 1-Meal, Non-Residential Electric Cooking
 Fast-Food, 1-Meal, Non-Residential Cooling
 Fast-Food, 1-Meal, Non-Residential Electric Heat
 Fast-Food, 1-Meal, Non-Residential Electric Hot Water
 Fast-Food, 1-Meal, Non-Residential Interior Lighting
 Fast-Food, 1-Meal, Non-Residential Electric Miscellaneous
 Fast-Food, 1-Meal, Non-Residential Office Equipment
 Fast-Food, 1-Meal, Non-Residential Exterior Lighting
 Fast-Food, 1-Meal, Non-Residential Refrigeration
 Fast-Food, 1-Meal, Non-Residential Ventilation
 Fast-Food, 1-Meal, Non-Residential Electric Total
 Fast-Food, 2-Meals, Non-Residential Electric Cooking
 Fast-Food, 2-Meals, Non-Residential Cooling
 Fast-Food, 2-Meals, Non-Residential Electric Heat
 Fast-Food, 2-Meals, Non-Residential Electric Hot Water
 Fast-Food, 2-Meals, Non-Residential Interior Lighting
 Fast-Food, 2-Meals, Non-Residential Electric Miscellaneous
 Fast-Food, 2-Meals, Non-Residential Office Equipment
 Fast-Food, 2-Meals, Non-Residential Exterior Lighting
 Fast-Food, 2-Meals, Non-Residential Refrigeration
 Fast-Food, 2-Meals, Non-Residential Ventilation
 Fast-Food, 2-Meals, Non-Residential Electric Total
 Fast-Food, 3-Meals, Non-Residential Electric Cooking
 Fast-Food, 3-Meals, Non-Residential Cooling
 Fast-Food, 3-Meals, Non-Residential Electric Heat
 Fast-Food, 3-Meals, Non-Residential Electric Hot Water
 Fast-Food, 3-Meals, Non-Residential Interior Lighting
 Fast-Food, 3-Meals, Non-Residential Electric Miscellaneous
 Fast-Food, 3-Meals, Non-Residential Office Equipment
 Fast-Food, 3-Meals, Non-Residential Exterior Lighting
 Fast-Food, 3-Meals, Non-Residential Refrigeration
 Fast-Food, 3-Meals, Non-Residential Ventilation
 Fast-Food, 3-Meals, Non-Residential Electric Total
 Grocery, Non-Residential Electric Cooking
 Grocery, Non-Residential Cooling
 Grocery, Non-Residential Electric Heat
 Grocery, Non-Residential Electric Hot Water
 Grocery, Non-Residential Interior Lighting

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

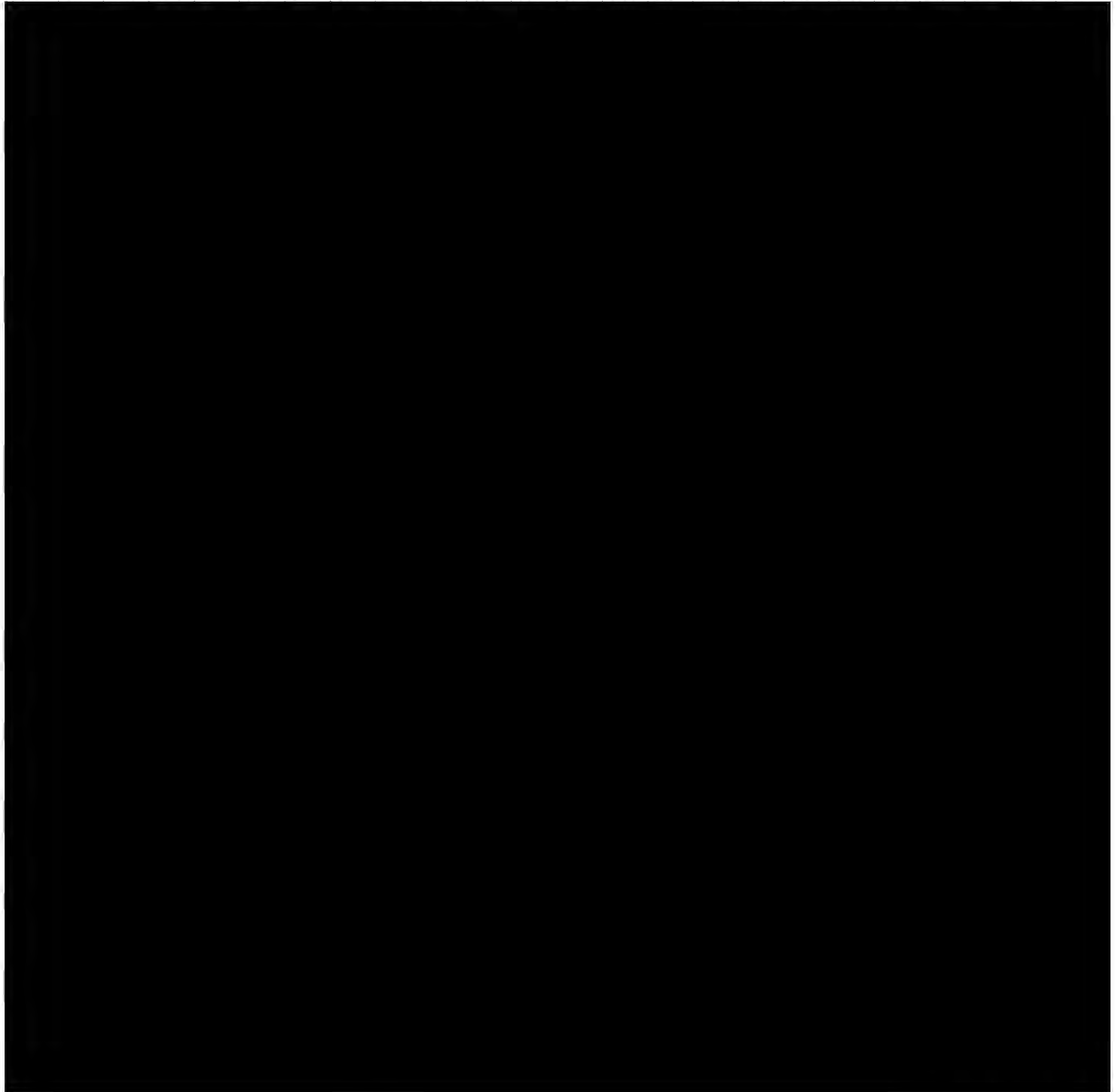


Annual value per kWh - BAU Scenario

Load Shape Name

Grocery, Non-Residential Electric Miscellaneous
 Grocery, Non-Residential Office Equipment
 Grocery, Non-Residential Exterior Lighting
 Grocery, Non-Residential Refrigeration
 Grocery, Non-Residential Ventilation
 Grocery, Non-Residential Electric Total
 Convenience, Non-Residential Electric Cooking
 Convenience, Non-Residential Cooling
 Convenience, Non-Residential Electric Heat
 Convenience, Non-Residential Electric Hot Water
 Convenience, Non-Residential Interior Lighting
 Convenience, Non-Residential Electric Miscellaneous
 Convenience, Non-Residential Office Equipment
 Convenience, Non-Residential Exterior Lighting
 Convenience, Non-Residential Refrigeration
 Convenience, Non-Residential Ventilation
 Convenience, Non-Residential Electric Total
 Warehouse, NonRefrig., Non-Residential Electric Cooking
 Warehouse, NonRefrig., Non-Residential Cooling
 Warehouse, NonRefrig., Non-Residential Electric Heat
 Warehouse, NonRefrig., Non-Residential Electric Hot Water
 Warehouse, NonRefrig., Non-Residential Interior Lighting
 Warehouse, NonRefrig., Non-Residential Electric Miscellaneous
 Warehouse, NonRefrig., Non-Residential Office Equipment
 Warehouse, NonRefrig., Non-Residential Exterior Lighting
 Warehouse, NonRefrig., Non-Residential Refrigeration
 Warehouse, NonRefrig., Non-Residential Ventilation
 Warehouse, NonRefrig., Non-Residential Electric Total
 Warehouse, Refrig., Non-Residential Electric Cooking
 Warehouse, Refrig., Non-Residential Cooling
 Warehouse, Refrig., Non-Residential Electric Heat
 Warehouse, Refrig., Non-Residential Electric Hot Water
 Warehouse, Refrig., Non-Residential Interior Lighting
 Warehouse, Refrig., Non-Residential Electric Miscellaneous
 Warehouse, Refrig., Non-Residential Office Equipment
 Warehouse, Refrig., Non-Residential Exterior Lighting
 Warehouse, Refrig., Non-Residential Refrigeration
 Warehouse, Refrig., Non-Residential Ventilation
 Warehouse, Refrig., Non-Residential Electric Total
 School, Non-Residential Electric Cooking
 School, Non-Residential Cooling
 School, Non-Residential Electric Heat
 School, Non-Residential Electric Hot Water
 School, Non-Residential Interior Lighting
 School, Non-Residential Electric Miscellaneous
 School, Non-Residential Office Equipment
 School, Non-Residential Exterior Lighting
 School, Non-Residential Refrigeration
 School, Non-Residential Ventilation
 School, Non-Residential Electric Total
 College, Non-Residential Electric Cooking
 College, Non-Residential Cooling
 College, Non-Residential Electric Heat
 College, Non-Residential Electric Hot Water
 College, Non-Residential Interior Lighting
 College, Non-Residential Electric Miscellaneous
 College, Non-Residential Office Equipment
 College, Non-Residential Exterior Lighting
 College, Non-Residential Refrigeration
 College, Non-Residential Ventilation
 College, Non-Residential Electric Total
 Hospital, Non-Residential Electric Cooking
 Hospital, Non-Residential Cooling
 Hospital, Non-Residential Electric Heat
 Hospital, Non-Residential Electric Hot Water
 Hospital, Non-Residential Interior Lighting
 Hospital, Non-Residential Electric Miscellaneous
 Hospital, Non-Residential Office Equipment
 Hospital, Non-Residential Exterior Lighting
 Hospital, Non-Residential Refrigeration

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

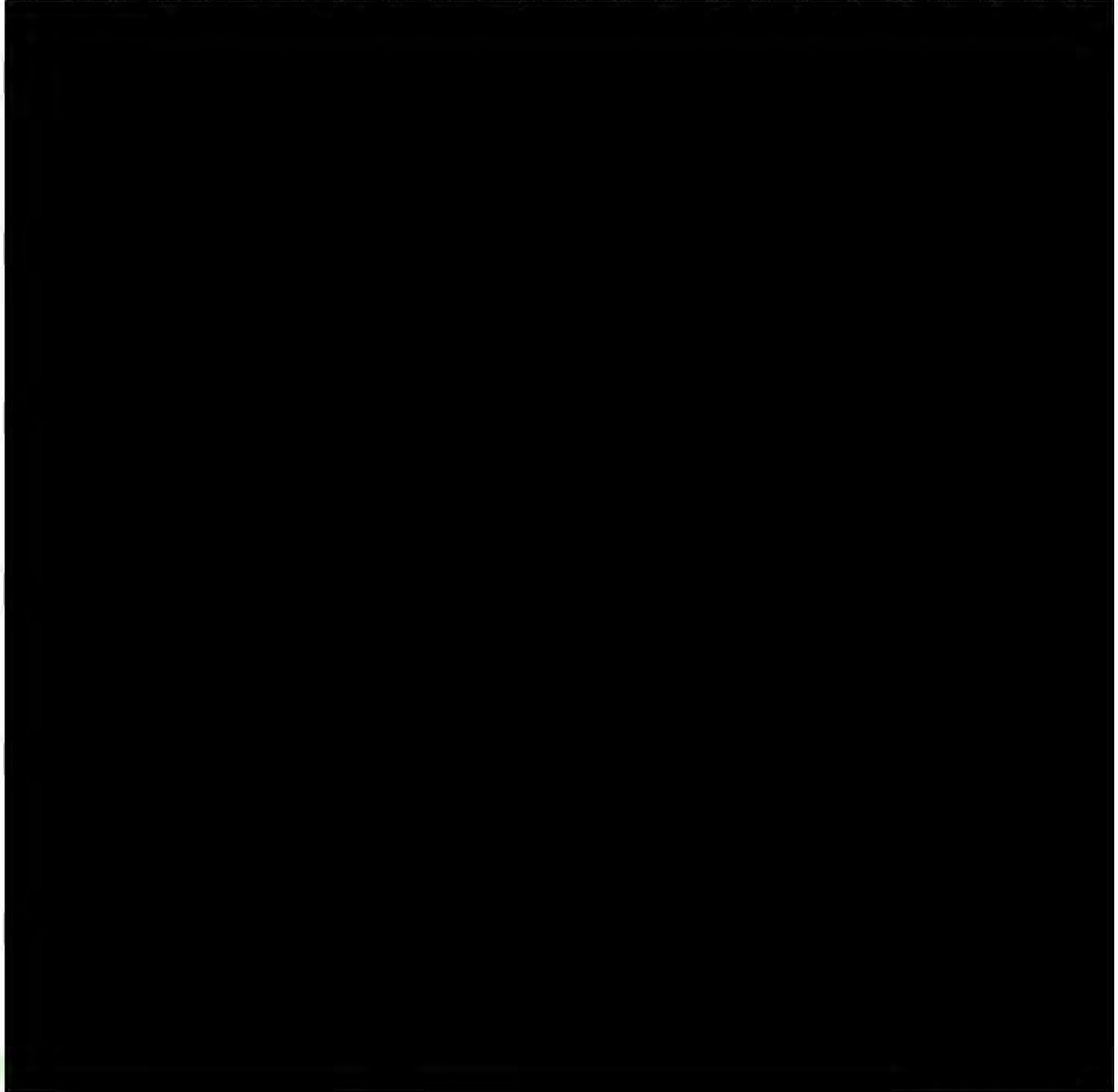


Annual value per kWh - BAU Scenario

Load Shape Name

Hospital, Non-Residential Ventilation
 Hospital, Non-Residential Electric Total
 Nursing Home, Non-Residential Electric Cooking
 Nursing Home, Non-Residential Cooling
 Nursing Home, Non-Residential Electric Heat
 Nursing Home, Non-Residential Electric Hot Water
 Nursing Home, Non-Residential Interior Lighting
 Nursing Home, Non-Residential Electric Miscellaneous
 Nursing Home, Non-Residential Office Equipment
 Nursing Home, Non-Residential Exterior Lighting
 Nursing Home, Non-Residential Refrigeration
 Nursing Home, Non-Residential Ventilation
 Nursing Home, Non-Residential Electric Total
 Hotel, Non-Residential Electric Cooking
 Hotel, Non-Residential Cooling
 Hotel, Non-Residential Electric Heat
 Hotel, Non-Residential Electric Hot Water
 Hotel, Non-Residential Interior Lighting
 Hotel, Non-Residential Electric Miscellaneous
 Hotel, Non-Residential Office Equipment
 Hotel, Non-Residential Exterior Lighting
 Hotel, Non-Residential Refrigeration
 Hotel, Non-Residential Ventilation
 Hotel, Non-Residential Electric Total
 Motel, Non-Residential Electric Cooking
 Motel, Non-Residential Cooling
 Motel, Non-Residential Electric Heat
 Motel, Non-Residential Electric Hot Water
 Motel, Non-Residential Interior Lighting
 Motel, Non-Residential Electric Miscellaneous
 Motel, Non-Residential Office Equipment
 Motel, Non-Residential Exterior Lighting
 Motel, Non-Residential Refrigeration
 Motel, Non-Residential Ventilation
 Motel, Non-Residential Electric Total
 Religious Worship, Non-Residential Electric Cooking
 Religious Worship, Non-Residential Cooling
 Religious Worship, Non-Residential Electric Heat
 Religious Worship, Non-Residential Electric Hot Water
 Religious Worship, Non-Residential Interior Lighting
 Religious Worship, Non-Residential Electric Miscellaneous
 Religious Worship, Non-Residential Office Equipment
 Religious Worship, Non-Residential Exterior Lighting
 Religious Worship, Non-Residential Refrigeration
 Religious Worship, Non-Residential Ventilation
 Religious Worship, Non-Residential Electric Total
 Public Assembly, Non-Residential Electric Cooking
 Public Assembly, Non-Residential Cooling
 Public Assembly, Non-Residential Electric Heat
 Public Assembly, Non-Residential Electric Hot Water
 Public Assembly, Non-Residential Interior Lighting
 Public Assembly, Non-Residential Electric Miscellaneous
 Public Assembly, Non-Residential Office Equipment
 Public Assembly, Non-Residential Exterior Lighting
 Public Assembly, Non-Residential Refrigeration
 Public Assembly, Non-Residential Ventilation
 Public Assembly, Non-Residential Electric Total
 Service, Non-Residential Electric Cooking
 Service, Non-Residential Cooling
 Service, Non-Residential Electric Heat
 Service, Non-Residential Electric Hot Water
 Service, Non-Residential Interior Lighting
 Service, Non-Residential Electric Miscellaneous
 Service, Non-Residential Office Equipment
 Service, Non-Residential Exterior Lighting
 Service, Non-Residential Refrigeration
 Service, Non-Residential Ventilation
 Service, Non-Residential Electric Total
 VAV Office - Large Chiller & Boiler
 Optimized OA Office - Large Chiller & Boiler

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030



Annual value per kWh - BAU Scenario		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Load Shape Name																									
No Econ Office - Large Chiller & Boiler																									
Economizer Lim Office - Large Chiller & Boiler																									
Cleaned Coil Office - Large Chiller & Boiler																									
Chiller-Reset Office - Large Chiller & Boiler																									
Scheduled AHU Office - Large Chiller & Boiler																									
Boiler-Reset Office - Large Chiller & Boiler																									
Ceiling Insulation Office - Large Chiller & Boiler																									
Chiller Efficiency Office - Large Chiller & Boiler																									
Cool Roof Office - Large Chiller & Boiler																									
Floor Insulation Office - Large Chiller & Boiler																									
Variable CWPump Office - Large Chiller & Boiler																									
Variable HW Pump Office - Large Chiller & Boiler																									
VAV Warehouse Pkg AC & Gas Furn																									
Optimized OA Warehouse Pkg AC & Gas Furn																									
No Econ Warehouse Pkg AC & Gas Furn																									
Economizer Lim Warehouse Pkg AC & Gas Furn																									
Cleaned Coil Warehouse Pkg AC & Gas Furn																									
Chiller-Reset Warehouse Pkg AC & Gas Furn																									
Scheduled AHU Warehouse Pkg AC & Gas Furn																									
Boiler-Reset Warehouse Pkg AC & Gas Furn																									
Ceiling Insulation Warehouse Pkg AC & Gas Furn																									
Cool Roof Warehouse Pkg AC & Gas Furn																									
Floor Insulation Warehouse Pkg AC & Gas Furn																									
Packaged Unit Efficiency Warehouse Pkg AC & Gas Furn																									
VAV Public Assembly Pkg AC & Gas Furn																									
Optimized OA Public Assembly Pkg AC & Gas Furn																									
No Econ Public Assembly Pkg AC & Gas Furn																									
Economizer Lim Public Assembly Pkg AC & Gas Furn																									
Cleaned Coil Public Assembly Pkg AC & Gas Furn																									
Chiller-Reset Public Assembly Pkg AC & Gas Furn																									
Scheduled AHU Public Assembly Pkg AC & Gas Furn																									
Boiler-Reset Public Assembly Pkg AC & Gas Furn																									
Ceiling Insulation Public Assembly Pkg AC & Gas Furn																									
Cool Roof Public Assembly Pkg AC & Gas Furn																									
Floor Insulation Public Assembly Pkg AC & Gas Furn																									
Packaged Unit Efficiency Public Assembly Pkg AC & Gas Furn																									
VAV Office - Small Pkg AC & Gas Furn																									
Optimized OA Office - Small Pkg AC & Gas Furn																									
No Econ Office - Small Pkg AC & Gas Furn																									
Economizer Lim Office - Small Pkg AC & Gas Furn																									
Cleaned Coil Office - Small Pkg AC & Gas Furn																									
Chiller-Reset Office - Small Pkg AC & Gas Furn																									
Scheduled AHU Office - Small Pkg AC & Gas Furn																									
Boiler-Reset Office - Small Pkg AC & Gas Furn																									
Ceiling Insulation Office - Small Pkg AC & Gas Furn																									
Cool Roof Office - Small Pkg AC & Gas Furn																									
Floor Insulation Office - Small Pkg AC & Gas Furn																									
Packaged Unit Efficiency Office - Small Pkg AC & Gas Furn																									
VAV Retail Chiller & Boiler																									
Optimized OARetail Chiller & Boiler																									
No Econ Retail Chiller & Boiler																									
Economizer Lim Retail Chiller & Boiler																									
Cleaned Coil Retail Chiller & Boiler																									
Chiller-Reset Retail Chiller & Boiler																									
Scheduled AHU Retail Chiller & Boiler																									
Boiler-Reset Retail Chiller & Boiler																									
Ceiling Insulation Retail Chiller & Boiler																									
Chiller Efficiency Retail Chiller & Boiler																									
Cool Roof Retail Chiller & Boiler																									
Floor Insulation Retail Chiller & Boiler																									
Variable CWPump Retail Chiller & Boiler																									
Variable HW Pump Retail Chiller & Boiler																									
VAV Retail Pkg AC & Gas Furn																									
Optimized OARetail Pkg AC & Gas Furn																									
No Econ Retail Pkg AC & Gas Furn																									
Economizer Lim Retail Pkg AC & Gas Furn																									
Cleaned Coil Retail Pkg AC & Gas Furn																									
Chiller-Reset Retail Pkg AC & Gas Furn																									
Scheduled AHU Retail Pkg AC & Gas Furn																									
Boiler-Reset Retail Pkg AC & Gas Furn																									

Annual value per kWh - BAU Scenario

Load Shape Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ceiling Insulation Retail Pkg AC & Gas Furn																								
Cool Roof Retail Pkg AC & Gas Furn																								
Floor Insulation Retail Pkg AC & Gas Furn																								
Packaged Unit Efficiency Retail Pkg AC & Gas Furn																								
VAV Lodging Chiller & Boiler																								
Optimized OA Lodging Chiller & Boiler																								
No Econ Lodging Chiller & Boiler																								
Economizer Lim Lodging Chiller & Boiler																								
Cleaned Coil Lodging Chiller & Boiler																								
Chiller-Reset Lodging Chiller & Boiler																								
Scheduled AHU Lodging Chiller & Boiler																								
Boiler-Reset Lodging Chiller & Boiler																								
Ceiling Insulation Lodging Chiller & Boiler																								
Chiller Efficiency Lodging Chiller & Boiler																								
Cool Roof Lodging Chiller & Boiler																								
Floor Insulation Lodging Chiller & Boiler																								
Variable CW Pump Lodging Chiller & Boiler																								
Variable HW Pump Lodging Chiller & Boiler																								
Optimized OA Lodging PTAC w Elec Heat																								
No Econ Lodging PTAC w Elec Heat																								
Economizer Lim Lodging PTAC w Elec Heat																								
Cleaned Coil Lodging PTAC w Elec Heat																								
Chiller-Reset Lodging PTAC w Elec Heat																								
Scheduled AHU Lodging PTAC w Elec Heat																								
Boiler-Reset Lodging PTAC w Elec Heat																								
Ceiling Insulation Lodging PTAC w Elec Heat																								
Cool Roof Lodging PTAC w Elec Heat																								
Floor Insulation Lodging PTAC w Elec Heat																								
VAV Health Inpatient Chiller & Boiler																								
Optimized OA Health Inpatient Chiller & Boiler																								
No Econ Health Inpatient Chiller & Boiler																								
Economizer Lim Health Inpatient Chiller & Boiler																								
Cleaned Coil Health Inpatient Chiller & Boiler																								
Chiller-Reset Health Inpatient Chiller & Boiler																								
Scheduled AHU Health Inpatient Chiller & Boiler																								
Boiler-Reset Health Inpatient Chiller & Boiler																								
Ceiling Insulation Health Inpatient Chiller & Boiler																								
Chiller Efficiency Health Inpatient Chiller & Boiler																								
Cool Roof Health Inpatient Chiller & Boiler																								
Floor Insulation Health Inpatient Chiller & Boiler																								
Variable CW Pump Health Inpatient Chiller & Boiler																								
Variable HW Pump Health Inpatient Chiller & Boiler																								
VAV Health Inpatient Pkg AC & Gas Furn																								
Optimized OA Health Inpatient Pkg AC & Gas Furn																								
No Econ Health Inpatient Pkg AC & Gas Furn																								
Economizer Lim Health Inpatient Pkg AC & Gas Furn																								
Cleaned Coil Health Inpatient Pkg AC & Gas Furn																								
Chiller-Reset Health Inpatient Pkg AC & Gas Furn																								
Scheduled AHU Health Inpatient Pkg AC & Gas Furn																								
Boiler-Reset Health Inpatient Pkg AC & Gas Furn																								
Ceiling Insulation Health Inpatient Pkg AC & Gas Furn																								
Cool Roof Health Inpatient Pkg AC & Gas Furn																								
Floor Insulation Health Inpatient Pkg AC & Gas Furn																								
Packaged Unit Efficiency Health Inpatient Pkg AC & Gas Furn																								
VAV Food Service Pkg AC & Gas Furn																								
Optimized OA Food Service Pkg AC & Gas Furn																								
No Econ Food Service Pkg AC & Gas Furn																								
Economizer Lim Food Service Pkg AC & Gas Furn																								
Cleaned Coil Food Service Pkg AC & Gas Furn																								
Chiller-Reset Food Service Pkg AC & Gas Furn																								
Scheduled AHU Food Service Pkg AC & Gas Furn																								
Boiler-Reset Food Service Pkg AC & Gas Furn																								
Ceiling Insulation Food Service Pkg AC & Gas Furn																								
Cool Roof Food Service Pkg AC & Gas Furn																								
Floor Insulation Food Service Pkg AC & Gas Furn																								
Packaged Unit Efficiency Food Service Pkg AC & Gas Furn																								
VAV Food Sales Pkg AC & Gas Furn																								
Optimized OA Food Sales Pkg AC & Gas Furn																								
No Econ Food Sales Pkg AC & Gas Furn																								
Economizer Lim Food Sales Pkg AC & Gas Furn																								

Annual value per kWh - BAU Scenario

Load Shape Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Cleaned Coil Food Sales Pkg AC & Gas Furn																								
Chiller-Reset Food Sales Pkg AC & Gas Furn																								
Scheduled AHU Food Sales Pkg AC & Gas Furn																								
Boiler-Reset Food Sales Pkg AC & Gas Furn																								
Ceiling Insulation Food Sales Pkg AC & Gas Furn																								
Cool Roof Food Sales Pkg AC & Gas Furn																								
Floor Insulation Food Sales Pkg AC & Gas Furn																								
Packaged Unit Efficiency Food Sales Pkg AC & Gas Furn																								
VAV Education Chiller & Boiler																								
Optimized OA Education Chiller & Boiler																								
No Econ Education Chiller & Boiler																								
Economizer Lim Education Chiller & Boiler																								
Cleaned Coil Education Chiller & Boiler																								
Chiller-Reset Education Chiller & Boiler																								
Scheduled AHU Education Chiller & Boiler																								
Boiler-Reset Education Chiller & Boiler																								
Ceiling Insulation Education Chiller & Boiler																								
Chiller Efficiency Education Chiller & Boiler																								
Cool Roof Education Chiller & Boiler																								
Floor Insulation Education Chiller & Boiler																								
Variable CW Pump Education Chiller & Boiler																								
Variable HW Pump Education Chiller & Boiler																								
VAV Education Pkg AC & Gas Furn																								
Optimized OA Education Pkg AC & Gas Furn																								
No Econ Education Pkg AC & Gas Furn																								
Economizer Lim Education Pkg AC & Gas Furn																								
Cleaned Coil Education Pkg AC & Gas Furn																								
Chiller-Reset Education Pkg AC & Gas Furn																								
Scheduled AHU Education Pkg AC & Gas Furn																								
Boiler-Reset Education Pkg AC & Gas Furn																								
Ceiling Insulation Education Pkg AC & Gas Furn																								
Cool Roof Education Pkg AC & Gas Furn																								
Floor Insulation Education Pkg AC & Gas Furn																								
Packaged Unit Efficiency Education Pkg AC & Gas Furn																								
01_Gas Furnace / Central AC																								
01_Heat Pump / Central AC																								
01_Elec Res / Central AC																								
02_Gas Furnace / Central AC																								
02_Heat Pump / Central AC																								
02_Elec Res / Central AC																								
03_Gas Furnace / Central AC																								
03_Heat Pump / Central AC																								
03_Elec Res / Central AC																								
05_Gas Furnace / Central AC																								
05_Heat Pump / Central AC																								
05_Elec Res / Central AC																								
06_Gas Furnace / Central AC																								
06_Heat Pump / Central AC																								
06_Elec Res / Central AC																								
07_Gas Furnace / Central AC																								
07_Heat Pump / Central AC																								
07_Elec Res / Central AC																								
08_Gas Furnace / Central AC																								
08_Heat Pump / Central AC																								
08_Elec Res / Central AC																								
09-11_Gas Furnace / Central AC																								
09-11_Heat Pump / Central AC																								
09-11_Elec Res / Central AC																								
12_Gas Furnace / Central AC																								
12_Heat Pump / Central AC																								
12_Elec Res / Central AC																								
13_Gas Furnace / Central AC																								
13_Heat Pump / Central AC																								
13_Elec Res / Central AC																								
14_Gas Furnace / Central AC																								
14_Heat Pump / Central AC																								
14_Elec Res / Central AC																								
15_Gas Furnace / Central AC																								
15_Heat Pump / Central AC																								
15_Elec Res / Central AC																								

Annual value per kWh - BAU Scenario

Load Shape Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
16_Gas Furnace / Central AC																								
16_Heat Pump / Central AC																								
16_Elec Res / Central AC																								
17_Gas Furnace / Central AC																								
17_Heat Pump / Central AC																								
17_Elec Res / Central AC																								
18_Gas Furnace / Central AC																								
18_Heat Pump / Central AC																								
18_Elec Res / Central AC																								
19_Gas Furnace / Central AC																								
19_Heat Pump / Central AC																								
19_Elec Res / Central AC																								
20_Gas Furnace / Central AC																								
20_Heat Pump / Central AC																								
20_Elec Res / Central AC																								
21_Gas Furnace / Central AC																								
21_Heat Pump / Central AC																								
21_Elec Res / Central AC																								
23_Gas Furnace / Central AC																								
23_Heat Pump / Central AC																								
23_Elec Res / Central AC																								
25_Gas Furnace / Central AC																								
25_Heat Pump / Central AC																								
25_Elec Res / Central AC																								
26_Gas Furnace / Central AC																								
26_Heat Pump / Central AC																								
26_Elec Res / Central AC																								
27_Gas Furnace / Central AC																								
27_Heat Pump / Central AC																								
27_Elec Res / Central AC																								
28_Gas Furnace / Central AC																								
28_Heat Pump / Central AC																								
28_Elec Res / Central AC																								
29_Gas Furnace / Central AC																								
29_Heat Pump / Central AC																								
29_Elec Res / Central AC																								
30_Gas Furnace / Central AC																								
30_Heat Pump / Central AC																								
30_Elec Res / Central AC																								
31_Gas Furnace / Central AC																								
31_Heat Pump / Central AC																								
31_Elec Res / Central AC																								
33_Gas Furnace / Central AC																								
33_Heat Pump / Central AC																								
33_Elec Res / Central AC																								
34_Gas Furnace / Central AC																								
34_Heat Pump / Central AC																								
34_Elec Res / Central AC																								
35_Gas Furnace / Central AC																								
35_Heat Pump / Central AC																								
35_Elec Res / Central AC																								
36_Gas Furnace / Central AC																								
36_Elec Res / Central AC																								
37_Heat Pump / Central AC																								
38_Gas Furnace / Central AC																								
38_Elec Res / Central AC																								
39_Gas Furnace / Central AC																								
39_Heat Pump / Central AC																								
39_Elec Res / Central AC																								
40_Gas Furnace / Central AC																								
40_Heat Pump / Central AC																								
40_Elec Res / Central AC																								
41_Gas Furnace / Central AC																								
41_Heat Pump / Central AC																								
41_Elec Res / Central AC																								
42_Gas Furnace / Central AC																								
42_Heat Pump / Central AC																								
01_Multifamily																								
02_Multifamily																								
03_Multifamily																								

Annual value per kWh - BAU Scenario

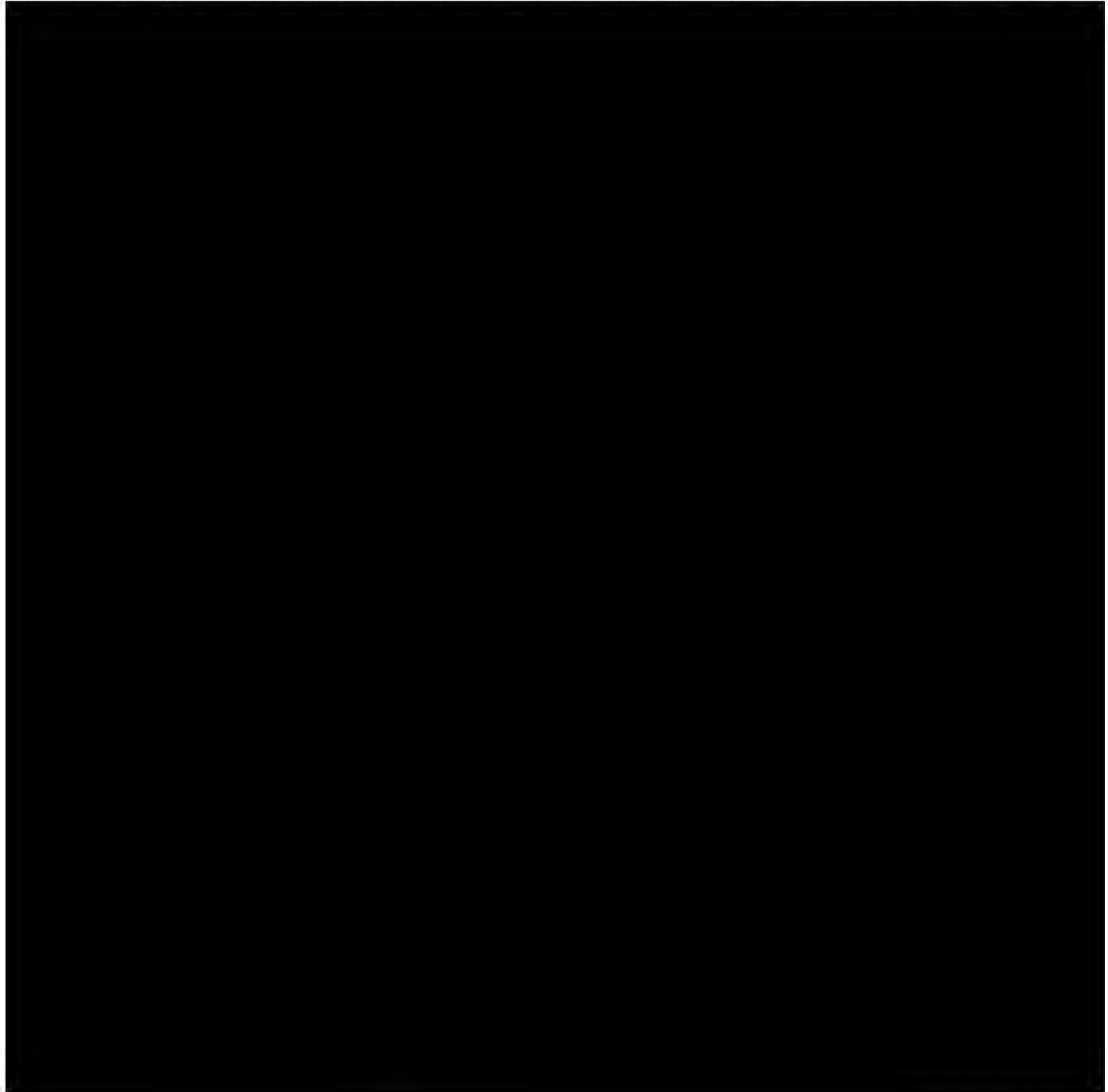
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Annual value per kWh - CO2 Scenario

Load Shape Name

Residential Electric Total
 Residential Electric Heat
 Residential Cooling
 Residential Refrigerator
 Residential Freezer
 Residential Electric Cooking
 Residential Dishwasher
 Residential Electric Miscellaneous
 Residential Electric Dryer
 Residential Electric Hot Water
 Residential Clothes Washer
 Residential Pool/Spa
 Residential Television
 Residential Lighting
 Office, Small, Non-Residential Electric Cooking
 Office, Small, Non-Residential Cooling
 Office, Small, Non-Residential Electric Heat
 Office, Small, Non-Residential Electric Hot Water
 Office, Small, Non-Residential Interior Lighting
 Office, Small, Non-Residential Electric Miscellaneous
 Office, Small, Non-Residential Office Equipment
 Office, Small, Non-Residential Exterior Lighting
 Office, Small, Non-Residential Refrigeration
 Office, Small, Non-Residential Ventilation
 Office, Small, Non-Residential Electric Total
 Office, Medium, Non-Residential Electric Cooking
 Office, Medium, Non-Residential Cooling
 Office, Medium, Non-Residential Electric Heat
 Office, Medium, Non-Residential Electric Hot Water
 Office, Medium, Non-Residential Interior Lighting
 Office, Medium, Non-Residential Electric Miscellaneous
 Office, Medium, Non-Residential Office Equipment
 Office, Medium, Non-Residential Exterior Lighting
 Office, Medium, Non-Residential Refrigeration
 Office, Medium, Non-Residential Ventilation
 Office, Medium, Non-Residential Electric Total
 Office, Large, Non-Residential Electric Cooking
 Office, Large, Non-Residential Cooling
 Office, Large, Non-Residential Electric Heat
 Office, Large, Non-Residential Electric Hot Water
 Office, Large, Non-Residential Interior Lighting
 Office, Large, Non-Residential Electric Miscellaneous
 Office, Large, Non-Residential Office Equipment
 Office, Large, Non-Residential Exterior Lighting
 Office, Large, Non-Residential Refrigeration
 Office, Large, Non-Residential Ventilation
 Office, Large, Non-Residential Electric Total
 Retail, Small, Non-Residential Electric Cooking
 Retail, Small, Non-Residential Cooling
 Retail, Small, Non-Residential Electric Heat
 Retail, Small, Non-Residential Electric Hot Water
 Retail, Small, Non-Residential Interior Lighting
 Retail, Small, Non-Residential Electric Miscellaneous
 Retail, Small, Non-Residential Office Equipment
 Retail, Small, Non-Residential Exterior Lighting
 Retail, Small, Non-Residential Refrigeration
 Retail, Small, Non-Residential Ventilation
 Retail, Small, Non-Residential Electric Total
 Retail, Large, Non-Residential Electric Cooking
 Retail, Large, Non-Residential Cooling
 Retail, Large, Non-Residential Electric Heat
 Retail, Large, Non-Residential Electric Hot Water
 Retail, Large, Non-Residential Interior Lighting
 Retail, Large, Non-Residential Electric Miscellaneous
 Retail, Large, Non-Residential Office Equipment
 Retail, Large, Non-Residential Exterior Lighting
 Retail, Large, Non-Residential Refrigeration
 Retail, Large, Non-Residential Ventilation
 Retail, Large, Non-Residential Electric Total
 Restaurant, 1-Meal, Non-Residential Electric Cooking

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

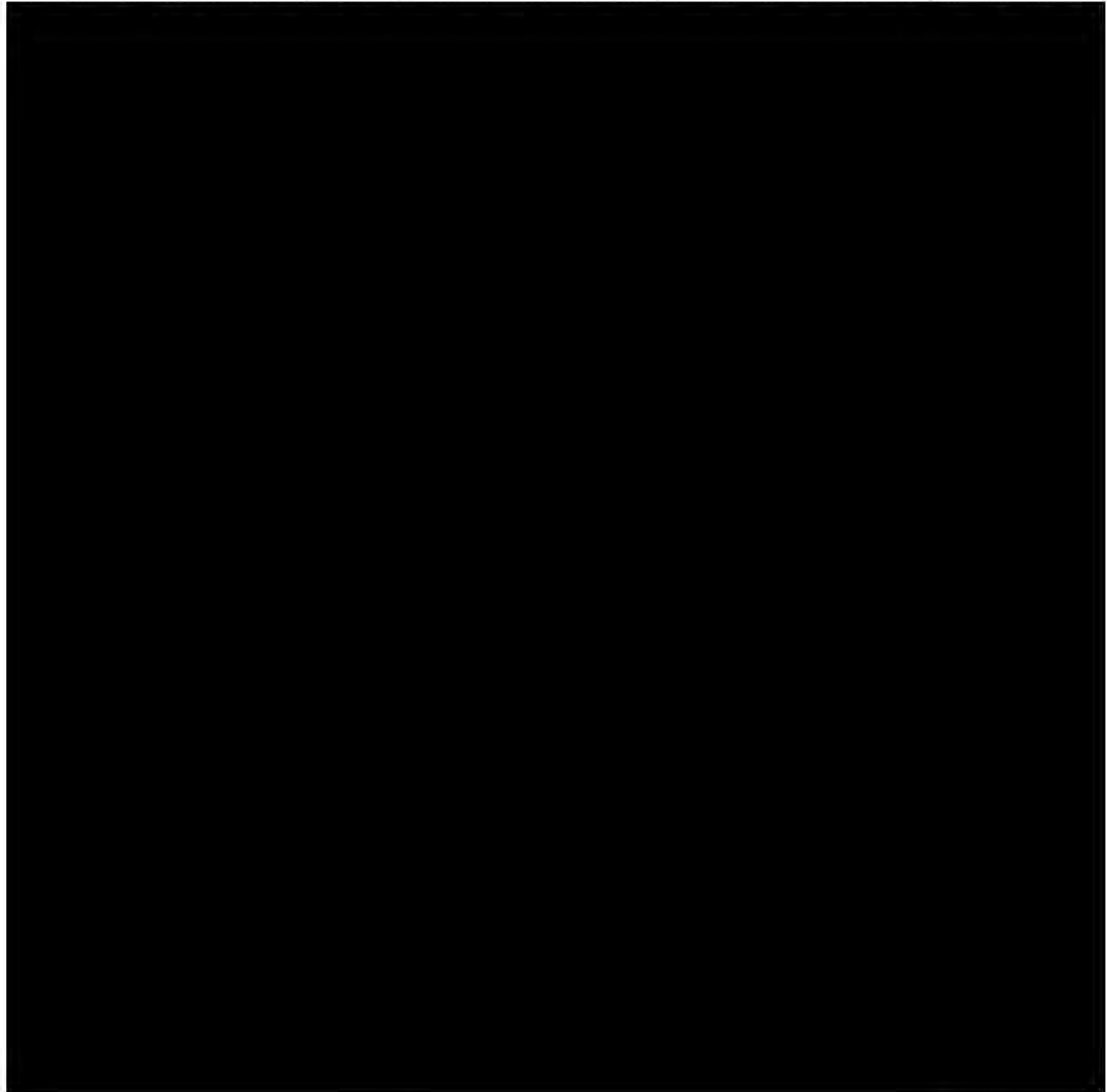


Annual value per kWh - CO2 Scenario

Load Shape Name

Restaurant, 1-Meal, Non-Residential Cooling
 Restaurant, 1-Meal, Non-Residential Electric Heat
 Restaurant, 1-Meal, Non-Residential Electric Hot Water
 Restaurant, 1-Meal, Non-Residential Interior Lighting
 Restaurant, 1-Meal, Non-Residential Electric Miscellaneous
 Restaurant, 1-Meal, Non-Residential Office Equipment
 Restaurant, 1-Meal, Non-Residential Exterior Lighting
 Restaurant, 1-Meal, Non-Residential Refrigeration
 Restaurant, 1-Meal, Non-Residential Ventilation
 Restaurant, 1-Meal, Non-Residential Electric Total
 Restaurant, 2-Meals, Non-Residential Electric Cooking
 Restaurant, 2-Meals, Non-Residential Cooling
 Restaurant, 2-Meals, Non-Residential Electric Heat
 Restaurant, 2-Meals, Non-Residential Electric Hot Water
 Restaurant, 2-Meals, Non-Residential Interior Lighting
 Restaurant, 2-Meals, Non-Residential Electric Miscellaneous
 Restaurant, 2-Meals, Non-Residential Office Equipment
 Restaurant, 2-Meals, Non-Residential Exterior Lighting
 Restaurant, 2-Meals, Non-Residential Refrigeration
 Restaurant, 2-Meals, Non-Residential Ventilation
 Restaurant, 2-Meals, Non-Residential Electric Total
 Restaurant, 3-Meals, Non-Residential Electric Cooking
 Restaurant, 3-Meals, Non-Residential Cooling
 Restaurant, 3-Meals, Non-Residential Electric Heat
 Restaurant, 3-Meals, Non-Residential Electric Hot Water
 Restaurant, 3-Meals, Non-Residential Interior Lighting
 Restaurant, 3-Meals, Non-Residential Electric Miscellaneous
 Restaurant, 3-Meals, Non-Residential Office Equipment
 Restaurant, 3-Meals, Non-Residential Exterior Lighting
 Restaurant, 3-Meals, Non-Residential Refrigeration
 Restaurant, 3-Meals, Non-Residential Ventilation
 Restaurant, 3-Meals, Non-Residential Electric Total
 Fast-Food, 1-Meal, Non-Residential Electric Cooking
 Fast-Food, 1-Meal, Non-Residential Cooling
 Fast-Food, 1-Meal, Non-Residential Electric Heat
 Fast-Food, 1-Meal, Non-Residential Electric Hot Water
 Fast-Food, 1-Meal, Non-Residential Interior Lighting
 Fast-Food, 1-Meal, Non-Residential Electric Miscellaneous
 Fast-Food, 1-Meal, Non-Residential Office Equipment
 Fast-Food, 1-Meal, Non-Residential Exterior Lighting
 Fast-Food, 1-Meal, Non-Residential Refrigeration
 Fast-Food, 1-Meal, Non-Residential Ventilation
 Fast-Food, 1-Meal, Non-Residential Electric Total
 Fast-Food, 2-Meals, Non-Residential Electric Cooking
 Fast-Food, 2-Meals, Non-Residential Cooling
 Fast-Food, 2-Meals, Non-Residential Electric Heat
 Fast-Food, 2-Meals, Non-Residential Electric Hot Water
 Fast-Food, 2-Meals, Non-Residential Interior Lighting
 Fast-Food, 2-Meals, Non-Residential Electric Miscellaneous
 Fast-Food, 2-Meals, Non-Residential Office Equipment
 Fast-Food, 2-Meals, Non-Residential Exterior Lighting
 Fast-Food, 2-Meals, Non-Residential Refrigeration
 Fast-Food, 2-Meals, Non-Residential Ventilation
 Fast-Food, 2-Meals, Non-Residential Electric Total
 Fast-Food, 3-Meals, Non-Residential Electric Cooking
 Fast-Food, 3-Meals, Non-Residential Cooling
 Fast-Food, 3-Meals, Non-Residential Electric Heat
 Fast-Food, 3-Meals, Non-Residential Electric Hot Water
 Fast-Food, 3-Meals, Non-Residential Interior Lighting
 Fast-Food, 3-Meals, Non-Residential Electric Miscellaneous
 Fast-Food, 3-Meals, Non-Residential Office Equipment
 Fast-Food, 3-Meals, Non-Residential Exterior Lighting
 Fast-Food, 3-Meals, Non-Residential Refrigeration
 Fast-Food, 3-Meals, Non-Residential Ventilation
 Fast-Food, 3-Meals, Non-Residential Electric Total
 Grocery, Non-Residential Electric Cooking
 Grocery, Non-Residential Cooling
 Grocery, Non-Residential Electric Heat
 Grocery, Non-Residential Electric Hot Water
 Grocery, Non-Residential Interior Lighting

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

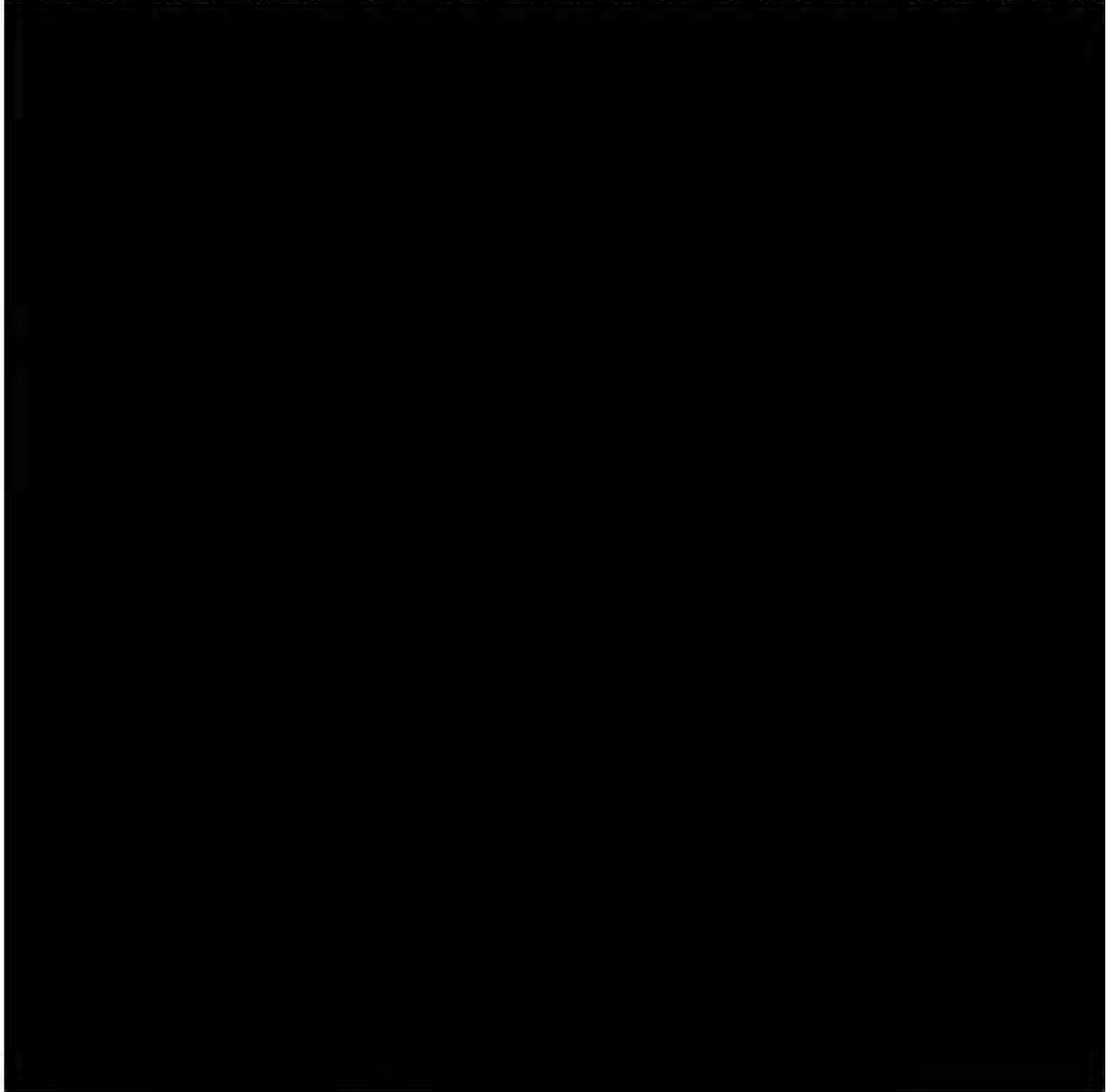


Annual value per kWh - CO2 Scenario

Load Shape Name

Grocery, Non-Residential Electric Miscellaneous
 Grocery, Non-Residential Office Equipment
 Grocery, Non-Residential Exterior Lighting
 Grocery, Non-Residential Refrigeration
 Grocery, Non-Residential Ventilation
 Grocery, Non-Residential Electric Total
 Convenience, Non-Residential Electric Cooking
 Convenience, Non-Residential Cooling
 Convenience, Non-Residential Electric Heat
 Convenience, Non-Residential Electric Hot Water
 Convenience, Non-Residential Interior Lighting
 Convenience, Non-Residential Electric Miscellaneous
 Convenience, Non-Residential Office Equipment
 Convenience, Non-Residential Exterior Lighting
 Convenience, Non-Residential Refrigeration
 Convenience, Non-Residential Ventilation
 Convenience, Non-Residential Electric Total
 Warehouse, NonRefrig., Non-Residential Electric Cooking
 Warehouse, NonRefrig., Non-Residential Cooling
 Warehouse, NonRefrig., Non-Residential Electric Heat
 Warehouse, NonRefrig., Non-Residential Electric Hot Water
 Warehouse, NonRefrig., Non-Residential Interior Lighting
 Warehouse, NonRefrig., Non-Residential Electric Miscellaneous
 Warehouse, NonRefrig., Non-Residential Office Equipment
 Warehouse, NonRefrig., Non-Residential Exterior Lighting
 Warehouse, NonRefrig., Non-Residential Refrigeration
 Warehouse, NonRefrig., Non-Residential Ventilation
 Warehouse, NonRefrig., Non-Residential Electric Total
 Warehouse, Refrig., Non-Residential Electric Cooking
 Warehouse, Refrig., Non-Residential Cooling
 Warehouse, Refrig., Non-Residential Electric Heat
 Warehouse, Refrig., Non-Residential Electric Hot Water
 Warehouse, Refrig., Non-Residential Interior Lighting
 Warehouse, Refrig., Non-Residential Electric Miscellaneous
 Warehouse, Refrig., Non-Residential Office Equipment
 Warehouse, Refrig., Non-Residential Exterior Lighting
 Warehouse, Refrig., Non-Residential Refrigeration
 Warehouse, Refrig., Non-Residential Ventilation
 Warehouse, Refrig., Non-Residential Electric Total
 School, Non-Residential Electric Cooking
 School, Non-Residential Cooling
 School, Non-Residential Electric Heat
 School, Non-Residential Electric Hot Water
 School, Non-Residential Interior Lighting
 School, Non-Residential Electric Miscellaneous
 School, Non-Residential Office Equipment
 School, Non-Residential Exterior Lighting
 School, Non-Residential Refrigeration
 School, Non-Residential Ventilation
 School, Non-Residential Electric Total
 College, Non-Residential Electric Cooking
 College, Non-Residential Cooling
 College, Non-Residential Electric Heat
 College, Non-Residential Electric Hot Water
 College, Non-Residential Interior Lighting
 College, Non-Residential Electric Miscellaneous
 College, Non-Residential Office Equipment
 College, Non-Residential Exterior Lighting
 College, Non-Residential Refrigeration
 College, Non-Residential Ventilation
 College, Non-Residential Electric Total
 Hospital, Non-Residential Electric Cooking
 Hospital, Non-Residential Cooling
 Hospital, Non-Residential Electric Heat
 Hospital, Non-Residential Electric Hot Water
 Hospital, Non-Residential Interior Lighting
 Hospital, Non-Residential Electric Miscellaneous
 Hospital, Non-Residential Office Equipment
 Hospital, Non-Residential Exterior Lighting
 Hospital, Non-Residential Refrigeration

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

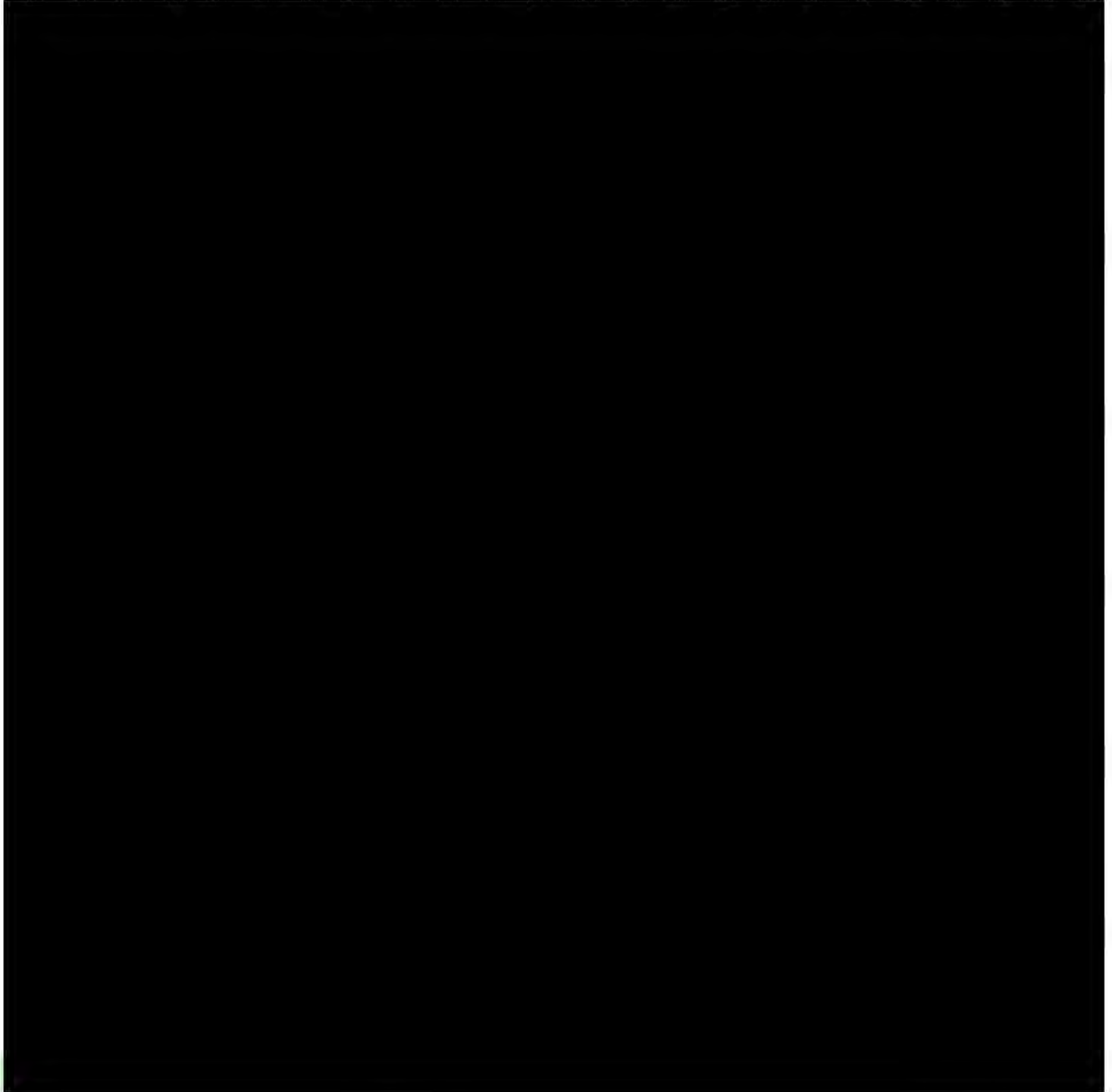


Annual value per kWh - CO2 Scenario

Load Shape Name

Hospital, Non-Residential Ventilation
 Hospital, Non-Residential Electric Total
 Nursing Home, Non-Residential Electric Cooking
 Nursing Home, Non-Residential Cooling
 Nursing Home, Non-Residential Electric Heat
 Nursing Home, Non-Residential Electric Hot Water
 Nursing Home, Non-Residential Interior Lighting
 Nursing Home, Non-Residential Electric Miscellaneous
 Nursing Home, Non-Residential Office Equipment
 Nursing Home, Non-Residential Exterior Lighting
 Nursing Home, Non-Residential Refrigeration
 Nursing Home, Non-Residential Ventilation
 Nursing Home, Non-Residential Electric Total
 Hotel, Non-Residential Electric Cooking
 Hotel, Non-Residential Cooling
 Hotel, Non-Residential Electric Heat
 Hotel, Non-Residential Electric Hot Water
 Hotel, Non-Residential Interior Lighting
 Hotel, Non-Residential Electric Miscellaneous
 Hotel, Non-Residential Office Equipment
 Hotel, Non-Residential Exterior Lighting
 Hotel, Non-Residential Refrigeration
 Hotel, Non-Residential Ventilation
 Hotel, Non-Residential Electric Total
 Motel, Non-Residential Electric Cooking
 Motel, Non-Residential Cooling
 Motel, Non-Residential Electric Heat
 Motel, Non-Residential Electric Hot Water
 Motel, Non-Residential Interior Lighting
 Motel, Non-Residential Electric Miscellaneous
 Motel, Non-Residential Office Equipment
 Motel, Non-Residential Exterior Lighting
 Motel, Non-Residential Refrigeration
 Motel, Non-Residential Ventilation
 Motel, Non-Residential Electric Total
 Religious Worship, Non-Residential Electric Cooking
 Religious Worship, Non-Residential Cooling
 Religious Worship, Non-Residential Electric Heat
 Religious Worship, Non-Residential Electric Hot Water
 Religious Worship, Non-Residential Interior Lighting
 Religious Worship, Non-Residential Electric Miscellaneous
 Religious Worship, Non-Residential Office Equipment
 Religious Worship, Non-Residential Exterior Lighting
 Religious Worship, Non-Residential Refrigeration
 Religious Worship, Non-Residential Ventilation
 Religious Worship, Non-Residential Electric Total
 Public Assembly, Non-Residential Electric Cooking
 Public Assembly, Non-Residential Cooling
 Public Assembly, Non-Residential Electric Heat
 Public Assembly, Non-Residential Electric Hot Water
 Public Assembly, Non-Residential Interior Lighting
 Public Assembly, Non-Residential Electric Miscellaneous
 Public Assembly, Non-Residential Office Equipment
 Public Assembly, Non-Residential Exterior Lighting
 Public Assembly, Non-Residential Refrigeration
 Public Assembly, Non-Residential Ventilation
 Public Assembly, Non-Residential Electric Total
 Service, Non-Residential Electric Cooking
 Service, Non-Residential Cooling
 Service, Non-Residential Electric Heat
 Service, Non-Residential Electric Hot Water
 Service, Non-Residential Interior Lighting
 Service, Non-Residential Electric Miscellaneous
 Service, Non-Residential Office Equipment
 Service, Non-Residential Exterior Lighting
 Service, Non-Residential Refrigeration
 Service, Non-Residential Ventilation
 Service, Non-Residential Electric Total
 VAV Office - Large Chiller & Boiler
 Optimized OA Office - Large Chiller & Boiler

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030



Annual value per kWh - CO2 Scenario

Load Shape Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
No Econ Office - Large Chiller & Boiler																								
Economizer Lim Office - Large Chiller & Boiler																								
Cleaned Coil Office - Large Chiller & Boiler																								
Chiller-Reset Office - Large Chiller & Boiler																								
Scheduled AHU Office - Large Chiller & Boiler																								
Boiler-Reset Office - Large Chiller & Boiler																								
Ceiling Insulation Office - Large Chiller & Boiler																								
Chiller Efficiency Office - Large Chiller & Boiler																								
Cool Roof Office - Large Chiller & Boiler																								
Floor Insulation Office - Large Chiller & Boiler																								
Variable CWPump Office - Large Chiller & Boiler																								
Variable HW Pump Office - Large Chiller & Boiler																								
VAV Warehouse Pkg AC & Gas Furn																								
Optimized OA Warehouse Pkg AC & Gas Furn																								
No Econ Warehouse Pkg AC & Gas Furn																								
Economizer Lim Warehouse Pkg AC & Gas Furn																								
Cleaned Coil Warehouse Pkg AC & Gas Furn																								
Chiller-Reset Warehouse Pkg AC & Gas Furn																								
Scheduled AHU Warehouse Pkg AC & Gas Furn																								
Boiler-Reset Warehouse Pkg AC & Gas Furn																								
Ceiling Insulation Warehouse Pkg AC & Gas Furn																								
Cool Roof Warehouse Pkg AC & Gas Furn																								
Floor Insulation Warehouse Pkg AC & Gas Furn																								
Packaged Unit Efficiency Warehouse Pkg AC & Gas Furn																								
VAV Public Assembly Pkg AC & Gas Furn																								
Optimized OA Public Assembly Pkg AC & Gas Furn																								
No Econ Public Assembly Pkg AC & Gas Furn																								
Economizer Lim Public Assembly Pkg AC & Gas Furn																								
Cleaned Coil Public Assembly Pkg AC & Gas Furn																								
Chiller-Reset Public Assembly Pkg AC & Gas Furn																								
Scheduled AHU Public Assembly Pkg AC & Gas Furn																								
Boiler-Reset Public Assembly Pkg AC & Gas Furn																								
Ceiling Insulation Public Assembly Pkg AC & Gas Furn																								
Cool Roof Public Assembly Pkg AC & Gas Furn																								
Floor Insulation Public Assembly Pkg AC & Gas Furn																								
Packaged Unit Efficiency Public Assembly Pkg AC & Gas Furn																								
VAV Office - Small Pkg AC & Gas Furn																								
Optimized OA Office - Small Pkg AC & Gas Furn																								
No Econ Office - Small Pkg AC & Gas Furn																								
Economizer Lim Office - Small Pkg AC & Gas Furn																								
Cleaned Coil Office - Small Pkg AC & Gas Furn																								
Chiller-Reset Office - Small Pkg AC & Gas Furn																								
Scheduled AHU Office - Small Pkg AC & Gas Furn																								
Boiler-Reset Office - Small Pkg AC & Gas Furn																								
Ceiling Insulation Office - Small Pkg AC & Gas Furn																								
Cool Roof Office - Small Pkg AC & Gas Furn																								
Floor Insulation Office - Small Pkg AC & Gas Furn																								
Packaged Unit Efficiency Office - Small Pkg AC & Gas Furn																								
VAV Retail Chiller & Boiler																								
Optimized OARetail Chiller & Boiler																								
No Econ Retail Chiller & Boiler																								
Economizer Lim Retail Chiller & Boiler																								
Cleaned Coil Retail Chiller & Boiler																								
Chiller-Reset Retail Chiller & Boiler																								
Scheduled AHU Retail Chiller & Boiler																								
Boiler-Reset Retail Chiller & Boiler																								
Ceiling Insulation Retail Chiller & Boiler																								
Chiller Efficiency Retail Chiller & Boiler																								
Cool Roof Retail Chiller & Boiler																								
Floor Insulation Retail Chiller & Boiler																								
Variable CWPump Retail Chiller & Boiler																								
Variable HW Pump Retail Chiller & Boiler																								
VAV Retail Pkg AC & Gas Furn																								
Optimized OARetail Pkg AC & Gas Furn																								
No Econ Retail Pkg AC & Gas Furn																								
Economizer Lim Retail Pkg AC & Gas Furn																								
Cleaned Coil Retail Pkg AC & Gas Furn																								
Chiller-Reset Retail Pkg AC & Gas Furn																								
Scheduled AHU Retail Pkg AC & Gas Furn																								
Boiler-Reset Retail Pkg AC & Gas Furn																								

Annual value per kWh - CO2 Scenario

Load Shape Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ceiling Insulation Retail Pkg AC & Gas Furn																								
Cool Roof Retail Pkg AC & Gas Furn																								
Floor Insulation Retail Pkg AC & Gas Furn																								
Packaged Unit Efficiency Retail Pkg AC & Gas Furn																								
VAV Lodging Chiller & Boiler																								
Optimized OA Lodging Chiller & Boiler																								
No Econ Lodging Chiller & Boiler																								
Economizer Lim Lodging Chiller & Boiler																								
Cleaned Coil Lodging Chiller & Boiler																								
Chiller-Reset Lodging Chiller & Boiler																								
Scheduled AHU Lodging Chiller & Boiler																								
Boiler-Reset Lodging Chiller & Boiler																								
Ceiling Insulation Lodging Chiller & Boiler																								
Chiller Efficiency Lodging Chiller & Boiler																								
Cool Roof Lodging Chiller & Boiler																								
Floor Insulation Lodging Chiller & Boiler																								
Variable CW Pump Lodging Chiller & Boiler																								
Variable HW Pump Lodging Chiller & Boiler																								
Optimized OA Lodging PTAC w Elec Heat																								
No Econ Lodging PTAC w Elec Heat																								
Economizer Lim Lodging PTAC w Elec Heat																								
Cleaned Coil Lodging PTAC w Elec Heat																								
Chiller-Reset Lodging PTAC w Elec Heat																								
Scheduled AHU Lodging PTAC w Elec Heat																								
Boiler-Reset Lodging PTAC w Elec Heat																								
Ceiling Insulation Lodging PTAC w Elec Heat																								
Cool Roof Lodging PTAC w Elec Heat																								
Floor Insulation Lodging PTAC w Elec Heat																								
VAV Health Inpatient Chiller & Boiler																								
Optimized OA Health Inpatient Chiller & Boiler																								
No Econ Health Inpatient Chiller & Boiler																								
Economizer Lim Health Inpatient Chiller & Boiler																								
Cleaned Coil Health Inpatient Chiller & Boiler																								
Chiller-Reset Health Inpatient Chiller & Boiler																								
Scheduled AHU Health Inpatient Chiller & Boiler																								
Boiler-Reset Health Inpatient Chiller & Boiler																								
Ceiling Insulation Health Inpatient Chiller & Boiler																								
Chiller Efficiency Health Inpatient Chiller & Boiler																								
Cool Roof Health Inpatient Chiller & Boiler																								
Floor Insulation Health Inpatient Chiller & Boiler																								
Variable CW Pump Health Inpatient Chiller & Boiler																								
Variable HW Pump Health Inpatient Chiller & Boiler																								
VAV Health Inpatient Pkg AC & Gas Furn																								
Optimized OA Health Inpatient Pkg AC & Gas Furn																								
No Econ Health Inpatient Pkg AC & Gas Furn																								
Economizer Lim Health Inpatient Pkg AC & Gas Furn																								
Cleaned Coil Health Inpatient Pkg AC & Gas Furn																								
Chiller-Reset Health Inpatient Pkg AC & Gas Furn																								
Scheduled AHU Health Inpatient Pkg AC & Gas Furn																								
Boiler-Reset Health Inpatient Pkg AC & Gas Furn																								
Ceiling Insulation Health Inpatient Pkg AC & Gas Furn																								
Cool Roof Health Inpatient Pkg AC & Gas Furn																								
Floor Insulation Health Inpatient Pkg AC & Gas Furn																								
Packaged Unit Efficiency Health Inpatient Pkg AC & Gas Furn																								
VAV Food Service Pkg AC & Gas Furn																								
Optimized OA Food Service Pkg AC & Gas Furn																								
No Econ Food Service Pkg AC & Gas Furn																								
Economizer Lim Food Service Pkg AC & Gas Furn																								
Cleaned Coil Food Service Pkg AC & Gas Furn																								
Chiller-Reset Food Service Pkg AC & Gas Furn																								
Scheduled AHU Food Service Pkg AC & Gas Furn																								
Boiler-Reset Food Service Pkg AC & Gas Furn																								
Ceiling Insulation Food Service Pkg AC & Gas Furn																								
Cool Roof Food Service Pkg AC & Gas Furn																								
Floor Insulation Food Service Pkg AC & Gas Furn																								
Packaged Unit Efficiency Food Service Pkg AC & Gas Furn																								
VAV Food Sales Pkg AC & Gas Furn																								
Optimized OA Food Sales Pkg AC & Gas Furn																								
No Econ Food Sales Pkg AC & Gas Furn																								
Economizer Lim Food Sales Pkg AC & Gas Furn																								

Annual value per kWh - CO2 Scenario

Load Shape Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Cleaned Coil Food Sales Pkg AC & Gas Furn																								
Chiller-Reset Food Sales Pkg AC & Gas Furn																								
Scheduled AHU Food Sales Pkg AC & Gas Furn																								
Boiler-Reset Food Sales Pkg AC & Gas Furn																								
Ceiling Insulation Food Sales Pkg AC & Gas Furn																								
Cool Roof Food Sales Pkg AC & Gas Furn																								
Floor Insulation Food Sales Pkg AC & Gas Furn																								
Packaged Unit Efficiency Food Sales Pkg AC & Gas Furn																								
VAV Education Chiller & Boiler																								
Optimized OA Education Chiller & Boiler																								
No Econ Education Chiller & Boiler																								
Economizer Lim Education Chiller & Boiler																								
Cleaned Coil Education Chiller & Boiler																								
Chiller-Reset Education Chiller & Boiler																								
Scheduled AHU Education Chiller & Boiler																								
Boiler-Reset Education Chiller & Boiler																								
Ceiling Insulation Education Chiller & Boiler																								
Chiller Efficiency Education Chiller & Boiler																								
Cool Roof Education Chiller & Boiler																								
Floor Insulation Education Chiller & Boiler																								
Variable CW Pump Education Chiller & Boiler																								
Variable HWPump Education Chiller & Boiler																								
VAV Education Pkg AC & Gas Furn																								
Optimized OA Education Pkg AC & Gas Furn																								
No Econ Education Pkg AC & Gas Furn																								
Economizer Lim Education Pkg AC & Gas Furn																								
Cleaned Coil Education Pkg AC & Gas Furn																								
Chiller-Reset Education Pkg AC & Gas Furn																								
Scheduled AHU Education Pkg AC & Gas Furn																								
Boiler-Reset Education Pkg AC & Gas Furn																								
Ceiling Insulation Education Pkg AC & Gas Furn																								
Cool Roof Education Pkg AC & Gas Furn																								
Floor Insulation Education Pkg AC & Gas Furn																								
Packaged Unit Efficiency Education Pkg AC & Gas Furn																								
01_Gas Furnace / Central AC																								
01_Heat Pump / Central AC																								
01_Elec Res / Central AC																								
02_Gas Furnace / Central AC																								
02_Heat Pump / Central AC																								
02_Elec Res / Central AC																								
03_Gas Furnace / Central AC																								
03_Heat Pump / Central AC																								
03_Elec Res / Central AC																								
05_Gas Furnace / Central AC																								
05_Heat Pump / Central AC																								
05_Elec Res / Central AC																								
06_Gas Furnace / Central AC																								
06_Heat Pump / Central AC																								
06_Elec Res / Central AC																								
07_Gas Furnace / Central AC																								
07_Heat Pump / Central AC																								
07_Elec Res / Central AC																								
08_Gas Furnace / Central AC																								
08_Heat Pump / Central AC																								
08_Elec Res / Central AC																								
09-11_Gas Furnace / Central AC																								
09-11_Heat Pump / Central AC																								
09-11_Elec Res / Central AC																								
12_Gas Furnace / Central AC																								
12_Heat Pump / Central AC																								
12_Elec Res / Central AC																								
13_Gas Furnace / Central AC																								
13_Heat Pump / Central AC																								
13_Elec Res / Central AC																								
14_Gas Furnace / Central AC																								
14_Heat Pump / Central AC																								
14_Elec Res / Central AC																								
15_Gas Furnace / Central AC																								
15_Heat Pump / Central AC																								
15_Elec Res / Central AC																								

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28 °C. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The cell suspension was then diluted to 10⁶, 10⁷, 10⁸, 10⁹, and 10¹⁰ cells/ml. The cell suspension was then inoculated into the plant tissue. The transformation efficiency was determined by the number of transformants per 10⁶ cells. The data were expressed as the mean ± SD of three independent experiments.

Annual value per kWh - CO2 Scenario		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Load Shape Name																									
05_Multifamily																									
06_Multifamily																									
07_Multifamily																									
08_Multifamily																									
09-11_Multifamily																									
12_Multifamily																									
13_Multifamily																									
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41_Multifamily																									
42_Multifamily																									
43_Heat Pump / Central AC																									
Commercial New Construction																									

Standard Inputs for ICF's DOE-2 Residential Model

	Single Family Detached			Multifamily
Architectural Information				
Square Feet per Floor	850	975	775	1000
Number of Stories	2	2	2	1
Window Distribution (F:B:L:R)	50% : 25% :12.5% :12.5%	50% : 25% :12.5% :12.5%	50% : 25% :12.5% :12.5%	50% : 0% : 50% : 0%
Window Area to Wall Area Ratio	14%	10%	16%	12%
Foundation Configuration	Basement	Basement	Basement	Slab
Locations	Columbia, Kansas City, St. Louis, Memphis	Columbia, Kansas City, St. Louis, Memphis	Columbia, Kansas City, St. Louis, Memphis	Columbia, Kansas City, St. Louis, Memphis
Number of Bedrooms	3	3	3	2
Aspect Ratio	2:1	2:1	2:1	1:2
Shell Information				
Wall Construction	2" x 4", 16" o.c.	2" x 4", 16" o.c.	2" x 4", 16" o.c.	2" x 4", 16" o.c.
Wall Insulation R-value	11	14	7	11
Wall Sheathing R-value	1	1	1	1
Door R-Value	1.54	1.54	1.54	1.54
Ceiling Type	Flat / Attic	Flat / Attic	Flat / Attic	Flat / Attic
Roof Solar Absorptivity	0.75	0.75	0.75	0.75
Attic Insulation R-Value	25.8	28	25.3	25.8
Basement Wall Insulation R-Value	0	0	0	0
Window U-Value	0.75	0.75	0.75	0.75
Window SHGC	0.6	0.6	0.6	0.75
Infiltration Air Change Rate per Hour	0.5	0.5	0.5	0.6
Systems Information				
System Type	AC with Gas Furnace	AC with Elec. Resistance	AC with heat pump	AC with Gas Furnace
Cooling Capacity in Tons	Auto sized	Auto Sized	Auto Sized	Auto sized
Cooling Efficiency (SEER)	9.17	8.35	10.1	9.17
Fuel Heating Efficiency (% AFUE)	82	NA	NA	82
Elec Heating Efficiency (COP)	NA	1	6	NA
Ventilation Rate	None	None	None	None
Duct Leakage (%)	15	15	13	0
Duct Location	Attic	Attic	Attic	Conditioned Space
Duct Insulation (R-Value)	2	2	2	2
Thermostat	manual	manual	manual	manual
Lighting	Incadescent	Incadescent	Incadescent	Incadescent
Appliances	Standard Efficency	Standard Efficency	Standard Efficency	Standard Efficency
Domestic Hot Water				
DHW Fuel Type	Gas	Electric	Electric	Gas
DHW Capacity in Gallons	40	40	40	40
Energy Factor	0.59	0.91	0.91	0.59

Standard Inputs for ICF's DOE-2 Commercial Model

Architectural Information	Options
Square Feet per Floor	Any Value
Number of Stories	Any Value
Window Distribution	Any Distribution
Window Area to Wall Area Ratio	Any Value
Occupancy in Sq Ft Per Person	Any Value
Locations	Any TMY2 Weather Location
Shell Information	Options
Wall Type	1 - Mass Bldg 2 - Metal Bldg 3 - Steel Frame 4 - Wood Frame & Other
Wall Insulation R-value	Any Value
Wall Sheathing R-value	Any Value
Door R-Value	Any Value
Ceiling Type	1 - Insulation Entirely Above Deck 2 - Metal Building 3 - Attic and Other
Roof Solar Absorptivity	Any Value
Attic Insulation R-Value	Any Value
Slab Insulation R-Value	Any Value
Window U-Value	Any Value
Window SHGC	Any Value
Infiltration Air Change Rate per Hour	Any Value
Systems Information	Options
System Type	1 - Commercial Chiller and Boiler 2 - Packaged AC with Gas Furnace 3 - Packaged AC with Boiler 4 - Packaged Heatpump 5 - Split AC with Furnace 6 - Split Heatpump 7 - PTAC with Boiler 8 - PTAC with Gas Furnace 9 - PTAC with Electric
Cooling Capacity in Tons	Any Value
Cooling Efficiency (EER)	Any Value
Fuel Heating Efficiency (% AFUE)	Any Value
Elec Heating Efficiency (COP)	Any Value
Fan Type	1 - Constant Volume 2 - Variable Volume
Ventilation Rate	1 - CFM Per Person 2 - CFM Per Sq Ft of Floor Space
Duct Loss	Any Value
Thermostat	1 - Manual 2 - Programmable
Lighting Density, W Per Sq Ft	Any Value
Misc. Equipment Loads, W Per Sq Ft	Any Value
Sensible Occupant Loads, Btu Per Hr	Any Value
Latent Occupant Loads, Btu Per Hr	Any Value
Domestic Hot Water	Options
DHW Fuel Type	1 - Oil 2 - Gas 3 - Electric
DHW Capacity in Gallons	Any Value
Energy Factor	Any Value

Warehouse	
Architectural Information	
Square Feet per Floor	7530.5
Number of Stories	2
Window Distribution	2
Window Area to Wall Area Ratio	10%
Occupancy in Sq Ft Per Person	1000.0
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN
Shell Information	
Wall Type	1
Wall Insulation R-value	13
Wall Sheathing R-value	0
Door R-Value	2
Ceiling Type	1
Roof Solar Absorptivity	0.8
Attic Insulation R-Value	15
Slab Insulation R-Value	19
Window U-Value	0.66
Window SHGC	0.5
Infiltration Air Change Rate per Hour	0.05
Systems Information	
System Type	2
Cooling Capacity in Tons	0
Cooling Efficiency (EER)	9
Fuel Heating Efficiency (% AFUE)	85
Elec Heating Efficiency (COP)	3.2
Fan Type	1
Ventilation Rate	0
Duct Loss	0.05
Thermostat	1
Lighting Density, W Per Sq Ft	1
Misc. Equipment Loads, W Per Sq Ft	0.50
Sensible Occupant Loads, Btu Per Hr	
Latent Occupant Loads, Btu Per Hr	
Domestic Hot Water	
DHW Fuel Type	G
DHW Capacity in Gallons	237
Energy Factor	0.55

Small - Office	
Architectural Information	
Square Feet per Floor	4118.5
Number of Stories	2
Window Distribution	2
Window Area to Wall Area Ratio	25%
Occupancy in Sq Ft Per Person	125.0
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN
Shell Information	
Wall Type	2
Wall Insulation R-value	13
Wall Sheathing R-value	1
Door R-Value	2
Ceiling Type	1
Roof Solar Absorptivity	0.8
Attic Insulation R-Value	15
Slab Insulation R-Value	19
Window U-Value	0.65
Window SHGC	0.5
Infiltration Air Change Rate per Hour	0.05
Systems Information	
System Type	2
Cooling Capacity in Tons	0
Cooling Efficiency (EER)	9
Fuel Heating Efficiency (% AFUE)	85
Elec Heating Efficiency (COP)	3.2
Fan Type	1
Ventilation Rate	7.5
Duct Loss	0.05
Thermostat	1
Lighting Density, W Per Sq Ft	1.25
Misc. Equipment Loads, W Per Sq Ft	1.00
Sensible Occupant Loads, Btu Per Hr	
Latent Occupant Loads, Btu Per Hr	
Domestic Hot Water	
DHW Fuel Type	G
DHW Capacity in Gallons	151
Energy Factor	0.55

Assembly	
Architectural Information	
Square Feet per Floor	6080.5
Number of Stories	2
Window Distribution	2
Window Area to Wall Area Ratio	10%
Occupancy in Sq Ft Per Person	35.0
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN
Shell Information	
Wall Type	1
Wall Insulation R-value	13
Wall Sheathing R-value	0
Door R-Value	2
Ceiling Type	1
Roof Solar Absorptivity	0.8
Attic Insulation R-Value	15
Slab Insulation R-Value	19
Window U-Value	0.66
Window SHGC	0.5
Infiltration Air Change Rate per Hour	0.05
Systems Information	
System Type	2
Cooling Capacity in Tons	0
Cooling Efficiency (EER)	9
Fuel Heating Efficiency (% AFUE)	85
Elec Heating Efficiency (COP)	3.2
Fan Type	1
Ventilation Rate	5
Duct Loss	0.05
Thermostat	1
Lighting Density, W Per Sq Ft	1.5
Misc. Equipment Loads, W Per Sq Ft	0.50
Sensible Occupant Loads, Btu Per Hr	
Latent Occupant Loads, Btu Per Hr	
Domestic Hot Water	
DHW Fuel Type	G
DHW Capacity in Gallons	237
Energy Factor	0.55

Food Sales	
Architectural Information	
Square Feet per Floor	1900
Number of Stories	2
Window Distribution	2
Window Area to Wall Area Ratio	20%
Occupancy in Sq Ft Per Person	125.0
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN
Shell Information	
Wall Type	1
Wall Insulation R-value	13
Wall Sheathing R-value	0
Door R-Value	2
Ceiling Type	3
Roof Solar Absorptivity	0.8
Attic Insulation R-Value	15
Slab Insulation R-Value	19
Window U-Value	0.66
Window SHGC	0.5
Infiltration Air Change Rate per Hour	0.05
Systems Information	
System Type	2
Cooling Capacity in Tons	0
Cooling Efficiency (EER)	9
Fuel Heating Efficiency (% AFUE)	85
Elec Heating Efficiency (COP)	0
Fan Type	1
Ventilation Rate	5
Duct Loss	0.05
Thermostat	1
Lighting Density, W Per Sq Ft	1.75
Misc. Equipment Loads, W Per Sq Ft	2.00
Sensible Occupant Loads, Btu Per Hr	
Latent Occupant Loads, Btu Per Hr	
Domestic Hot Water	
DHW Fuel Type	G
DHW Capacity in Gallons	56
Energy Factor	0.49

Food Service	
Architectural Information	
Square Feet per Floor	3029.5
Number of Stories	2
Window Distribution	2
Window Area to Wall Area Ratio	20%
Occupancy in Sq Ft Per Person	40.0
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN
Shell Information	
Wall Type	1
Wall Insulation R-value	13
Wall Sheathing R-value	0
Door R-Value	2
Ceiling Type	1
Roof Solar Absorptivity	0.8
Attic Insulation R-Value	15
Slab Insulation R-Value	19
Window U-Value	0.66
Window SHGC	0.5
Infiltration Air Change Rate per Hour	0.05
Systems Information	
System Type	2
Cooling Capacity in Tons	0
Cooling Efficiency (EER)	9
Fuel Heating Efficiency (% AFUE)	85
Elec Heating Efficiency (COP)	2.8
Fan Type	1
Ventilation Rate	10
Duct Loss	0.05
Thermostat	1
Lighting Density, W Per Sq Ft	1.75
Misc. Equipment Loads, W Per Sq Ft	1.50
Sensible Occupant Loads, Btu Per Hr	
Latent Occupant Loads, Btu Per Hr	
Domestic Hot Water	
DHW Fuel Type	G
DHW Capacity in Gallons	65
Energy Factor	0.55

Lodging		
Architectural Information		
Square Feet per Floor	15658	
Number of Stories	2	
Window Distribution	2	
Window Area to Wall Area Ratio	25%	
Occupancy in Sq Ft Per Person	125.0	
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN	
Shell Information		
Wall Type	1	
Wall Insulation R-value	13	
Wall Sheathing R-value	0	
Door R-Value	2	
Ceiling Type	1	
Roof Solar Absorptivity	0.8	
Attic Insulation R-Value	15	
Slab Insulation R-Value	19	
Window U-Value	0.66	
Window SHGC	0.5	
Infiltration Air Change Rate per Hour	0.05	
Systems Information		
System Type	9	1
Cooling Capacity in Tons	0	0
Cooling Efficiency (EER)	7	16
Fuel Heating Efficiency (% AFUE)	0	85
Elec Heating Efficiency (COP)	1	3.2
Fan Type	1	1
Ventilation Rate	7.5	7.5
Duct Loss	0	0
Thermostat	1	1
Lighting Density, W Per Sq Ft	1.75	1.75
Misc. Equipment Loads, W Per Sq Ft	0.50	0.50
Sensible Occupant Loads, Btu Per Hr		
Latent Occupant Loads, Btu Per Hr		
Domestic Hot Water		
DHW Fuel Type	G	
DHW Capacity in Gallons	40	
Energy Factor	0.55	

Health Care (Inpatient)		
Architectural Information		
Square Feet per Floor	37050	
Number of Stories	4	
Window Distribution	2	
Window Area to Wall Area Ratio	25%	
Occupancy in Sq Ft Per Person	67.0	
Locations	St Louis, MO Kansas, MO Clmbmo, MO Memphis, TN	
Shell Information		
Wall Type	1	
Wall Insulation R-value	13	
Wall Sheathing R-value	0	
Door R-Value	2	
Ceiling Type	1	
Roof Solar Absorptivity	0.8	
Attic Insulation R-Value	15	
Slab Insulation R-Value	19	
Window U-Value	0.66	
Window SHGC	0.5	
Infiltration Air Change Rate per Hour	0.05	
Systems Information		
System Type	1	2
Cooling Capacity in Tons	0	0
Cooling Efficiency (EER)	16	9
Fuel Heating Efficiency (% AFUE)	85	85
Elec Heating Efficiency (COP)	3.2	2.8
Fan Type	1	1
Ventilation Rate	7.5	7.5
Duct Loss	0.05	0.05
Thermostat	1	1
Lighting Density, W Per Sq Ft	1.5	1.5
Misc. Equipment Loads, W Per Sq Ft	2.00	2.00
Sensible Occupant Loads, Btu Per Hr		
Latent Occupant Loads, Btu Per Hr		
Domestic Hot Water		
DHW Fuel Type	G	
DHW Capacity in Gallons	237	
Energy Factor	0.55	