Exhibit No.:

Issues: DSM/Low Income Assistance

Witness: Matthew E. Daunis Sponsoring Party: Aquila Networks-MPS

And L&P

Case No.: ER-2005-0436

Before the Public Service Commission of the State of Missouri

Surrebuttal Testimony

of

Matthew E. Daunis

TABLE OF CONTENTS OF SURREBUTTAL TESTIMONY OF MATTHEW E. DAUNIS ON BEHALF OF AQUILA, INC. D/B/A AQUILA NETWORKS-MPS AND AQUILA NETWORKS-L&P CASE NO. ER-2005-0436

EXECUTIVE SUMMARY	1
DEMAND SIDE RESOURCES AND INTEGRATED RESOURCE I	PLANNING2
DEMAND SIE RESOURCES IN AQUILA NETWORKS-MISSOUR RESOURCE PLAN	
COST RECOVERY	6
SUMMARY	9

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI SURREBUTTAL TESTIMONY OF MATTHEW E. DAUNIS ON BEHALF OF AQUILA, INC. D/B/A AQUILA NETWORKS-MPS AND AQUILA NETWORKS-L&P CASES NO. ER-2005-0436

1	Q.	Please state your name and business address.
2	A.	My name is Matthew E. Daunis. My business address is 10700 East 350 Highway,
3		Kansas City, MO 64138.
4	Q.	By whom are you presently employed and in what capacity?
5	A.	I am employed as Manager of Energy Efficiency Programs for Aquila, Inc. I am
6		testifying on behalf of Aquila, Inc. d/b/a Aquila Networks ("Aquila").
7	Q.	What is your educational background?
8	A.	I received a Bachelor's degree in Mechanical Engineering from the University of Maine
9		in 1976. I received a Masters degree in Business Administration from the University of
10		Nebraska in 1985.
11	Q.	Please describe your professional experience.
12	A.	I have been employed in the utility industry in positions requiring knowledge of Demand
13		Side Management, customer service, and marketing for about 18 years. Prior to that, I
14		was employed by a major HVAC manufacturer for ten years in various marketing and
15		sales positions.
16		EXECUTIVE SUMMARY
17	Q.	What is the purpose of your surrebuttal testimony?

1	A.	The purpose of my surrebuttal testimony is to respond to the rebuttal testimony of Lena
2		M. Mantle of the Missouri Public Service Commission ("MPSC") Staff with regard to the
3		MPSC Staff's positions on Weatherization Assistance and other energy efficiency
4		programs.
5	Q.	What positions are you responding to?
6	A.	Ms. Mantle indicates that the Staff's position is as follows:
7		- to accept a proposed increase in low-income weatherization program funding to
8		\$108,000 with fifty percent of the cost paid for by Aquila shareholders
9		- to accept a proposed increase in the Change a Light, Change the World program from
10		\$20,000 to \$40,000 with fifty percent of the cost paid for by Aquila shareholders
11		- to accept a funding level of \$75,000 for the Commercial Audit program with fifty
12		percent of the cost paid for by Aquila shareholders
13		- to reject a residential energy efficiency program.
14	Q.	How will you address these positions?
15	A.	First, it is important that I address the nature of demand side resources and their
16		relationship to supply side resources and integrated resource planning.
17		Second, I will describe how demand side management programs are selected through the
18		2005 Integrated Resource Plan (IRP).
19		Third, I will address recovery of the costs of these programs.
20		DEMAND SIDE RESOURCES AND INTEGRATED RESOURCE PLANNING
21	Q.	Does the MPSC require that demand side resources be considered on an equivalent basis
22		as supply side resources?

1 A. Yes. 4 CSR 240-22.010 (2)(A) states that in order to meet the objective of the resource 2 planning process the utility shall "Consider and analyze demand-side efficiency and energy 3 management measures on an equivalent basis with supply-side alternatives in the resource 4 planning process." 5 Q. How is demand side resource load impact estimates incorporated into the resource plan? 6 A. The load impacts are incorporated in a manner consistent with a supply side resource. In 7 order to meet the company's projected load requirements, portfolios of resources are 8 developed. These portfolios contain supply side resources that provide additional 9 generation at specified costs as well as demand side resources that reduce demand and 10 energy requirements at specified costs. 11 How does Aquila choose among the various portfolios that are developed? Q. 12 A. The specifics of the decision process are beyond the scope of this testimony, however, in 13 general terms the financial impact, rate impact, environmental impact and risk profile are 14 considered. In accordance with 4 CSR 240-22.70 (6)(A), Aquila chooses a preferred 15 resource plan from among the portfolios that in the Company's judgment strikes an appropriate balance between the various planning objectives specified in 4 CSR 240-16 17 22.010 (2). 18 Q. Please summarize the requirements of 4 CSR 240-22.010 (2)? 19 The broad requirement is to provide the public with energy services that are safe, reliable A. 20 and efficient, at just and reasonable rates, in a manner that serves the public interest. To 21 meet this requirement the utility must assess tradeoffs and determine the appropriate 22 balance between minimization of expected utility costs and other considerations 23 including, but not limited to:

1		- Risks associated with critical uncertain factors that will affect the actual costs
2		associated with alternative resource plans;
3		- Risks associated with new or more stringent environmental laws or regulations that may
4		be imposed at some point within the planning horizon; and
5		- Rate increases associated with alternative resource plans.
6	Q.	Did Aquila determine the appropriate demand side management programs to meet the
7		requirements of 4 CSR 240-22?
8	A.	Yes. The "Aquila Networks State of Missouri Electric Demand-Side Management Plan,
9		2006-2010" (DSM Plan) develops the appropriate demand side management programs.
10		These were incorporated into the 2005 IRP.
11	Q.	Are demand side management programs generally accepted as an integral component of
12		resource portfolios?
13	A.	Yes. In addition to the requirements of the MPSC as I've outlined, they are actively
14		encouraged by both the National Association of Regulatory Utility Commissioners
15		(NARUC) and the Federal government. On July 23, 1999, NARUC adopted a resolution
16		entitled "Resolution Supporting Energy Efficiency and Load Management As Cost-
17		Effective Approaches to Reliability Concerns." In part the resolution reads:
18		"Resolved, That NARUC urges State public utility commissions to encourage
19		and support programs for cost-effective energy efficiency and load management
20		investments as both a short-term and long-term strategy for enhancing the
21		reliability of the nation's electric system, and reducing its costs."

1 The Federal government in Section 111(a) (7) of the Energy Policy act of 1992 states that 2 "Each electric utility shall employ integrated resource planning". Integrated resource 3 planning is defined as: 4 "a planning process for new energy resources that evaluates the full range of 5 alternatives, including new generating capacity, power purchases, energy 6 conservation and efficiency, cogeneration and district heating and cooling 7 applications, and renewable energy resources, in order to provide adequate and 8 reliable service to its electric customers at the lowest system cost. The process 9 shall take into account necessary features for system operation, such as diversity, 10 reliability, dispatchability, and other factors of risk; shall take into account the 11 ability to verify energy savings achieved through energy conservation and 12 efficiency and the projected durability of such savings measured over time; and 13 shall treat demand and supply resources on a consistent and integrated basis." 14 Q. Do you conclude that demand side resources are an accepted and appropriate component 15 of a utility's resource portfolio? 16 A. Yes. 17 DEMAND SIDE RESOURCES IN AQUILA NETWORKS-MISSOURI INTEGRATED 18 **RESOURCE PLAN** 19 Does Ms. Mantle address each of the demand side programs that were incorporated in the Q. 20 IRP? 21 A. No. Ms. Mantle only addresses a subset of the programs. Specifically, those that were 22 proposed in the direct testimony of Missouri Department of Natural Resources witness 23 Anita Randolph.

1 Q. Ms. Mantle indicates that she was unable to find how these or any other demand side 2 programs impacted the Company's IRP (Mantle Rebuttal Testimony, page 4, lines 2-6). 3 Please explain how they were incorporated. 4 A. The DSM Plan was developed as part of the IRP analysis. First, measures were bundled 5 into resource options for portfolio analysis. Measures within the selected resource 6 options were then incorporated into DSM programs. Table 3-8 of the IRP defines the 7 DSM options that were used for portfolio development. Table 3-9 of the IRP illustrates 8 that the DSM options that contained Residential, Commercial and Industrial measures 9 screened at cost level A (less than \$30 MWh) and cost level B (less than \$45 MWh) 10 resulted in the greatest reduction in cost for both the Least Cost Plan and the Preferred 11 Plan. Schedule MED- 1 lists the programs that fall into these cost categories. These 12 programs are described in more detail in Appendix A of the IRP, which is attached as my 13 Schedule MED- 3. 14 Q. Is the Company proposing to only implement the programs referenced by Ms. Mantle? 15 No. The Company believes that the Preferred Portfolio, including all of the selected DSM A. 16 programs, best meets the requirements of the Electric Utility Resource Planning rules that 17 I outlined previously. 18 **COST RECOVERY** 19 Q. How does Ms. Mantle propose that the costs of the programs be recovered? 20 Ms. Mantle is proposing a 50/50 sharing of the costs between shareholders and A. 21 ratepayers. 22 Q. Do you agree with her proposal?

1 A. No. Demand side resources are simply a component of the overall portfolio of resources 2 that the Company acquires to meet its projected load requirements. There is no 3 justification to require shareholders to bear the cost of either demand side or supply side 4 resources. I believe that doing so would be in direct violation of the MPSC requirement 5 to consider and analyze demand-side efficiency and energy management measures on an 6 equivalent basis with supply-side alternatives, not to mention the possible confiscation 7 issues. 8 Q. Is Aquila funding its energy efficiency programs with shareholder money currently? 9 A. Yes. In Case No. ER-2004-0034, the Company agreed to a stipulated resolution of the 10 case. The stipulation called for shareholder funding of \$93,500 per year until the next 11 general rate case. 12 Q. Why are you not requesting any revenue requirement to fund the programs that were 13 incorporated in the 2005 IRP? 14 A. The stipulation in Case No. ER-2004-0034 also established a collaborative work group to 15 explore and propose appropriate cost recovery mechanisms for the DSM programs. 16 Consequently, cost recovery was not included in this rate case. We have been working 17 with the collaborative group, but have not reached a consensus on the appropriate 18 recovery mechanism. 19 Q. Do you believe that a specific cost recovery mechanism is necessary for demand side 20 resources? 21 A. Yes. Demand side resources are purchased in small increments, rarely large enough to 22 warrant specific rate filings. This is unlike supply side resources that often trigger a rate 23 increase at the time of completion. Consequently, other mechanisms are necessary for

1		the cost recovery of demand side resources. These mechanisms generally fall into one of
2		two categories. One approach is that the costs may be accumulated in a balance sheet
3		account and amortized over a period of time, much like an accounting authority order.
4		A second approach has been adopted in several jurisdictions. This approach matches a
5		funding mechanism or tariff rider with the annual expenditures. Expenditures
6		accumulate in a balancing account and are offset by the collections from the funding
7		mechanism. The level of the funding mechanism is adjusted on a regular basis to
8		maintain a balance in the balancing account that is near zero.
9	Q.	Do you have examples of these various funding mechanisms?
10	A.	Yes. Schedule MED – 2 is a compilation of the funding mechanisms in use across the
11		country.
12	Q.	Has the Federal government provided any guidance on appropriate cost recovery for
13		DSM programs?
14	A.	Yes, in both the 1992 and 2005 Energy Policy Acts. Section 111(a) (8) of the 1992
15		Energy Policy Act states:
16		The rates allowed to be charged by a State regulated electric utility shall be such
17		that the utility's investment in and expenditures for energy conservation, energy
18		efficiency resources, and other demand side management measures are at least as
19		profitable, giving appropriate consideration to income lost from reduced sales due
20		to investments in and expenditures for conservation and efficiency, as its
21		investments in and expenditures for the construction of new generation,
22		transmission, and distribution equipment. Such energy conservation, energy

1		efficiency resources and other demand side management measures shall be
2		appropriately monitored and evaluated.
3		Section 139 of the 2005 Energy Policy Act directs the Secretary of Energy in
4		consultation with NARUC and the National Association of State Energy Officials to
5		conduct a study that considers among other things:
6		Section 139 (a) (5) methods of—
7		(A) removing disincentives for utilities to implement energy efficiency
8		programs;
9		(B) encouraging utilities to undertake voluntary energy efficiency programs;
10		and
11		(C) ensuring appropriate returns on energy efficiency programs.
12	Q.	Does a funding mechanism that requires a 50% shareholder contribution meet the criteria
13		set forth in either the 1992 or 2005 Energy Policy Acts?
14	A.	No. Such a mechanism would clearly not allow the demand side programs to be "at least
15		as profitable" as the supply side programs as set forth in the 1992 Act, nor would it
16		ensure an appropriate return as set forth in the 2005 Act.
17		SUMMARY
18	Q.	Please summarize your testimony.
19	A.	My testimony demonstrates three points:
20		1) Demand side resources should be considered on an equivalent basis to supply side
21		resources as directed by the MPSC and encouraged by both NARUC and Federal
22		legislation,

1 2) The demand side programs referred to by Ms. Mantle were correctly analyzed, 2 developed and incorporated into the 2005 IRP. In addition, the 2005 IRP identified 3 programs that were not included in Ms. Mantle's testimony. 4 3) Ms. Mantle's proposed cost recovery mechanism is inconsistent with the directive to 5 consider demand side resources on an equivalent basis with supply side resources and 6 fails to allow the Company an opportunity to recover its costs and earn a return on its 7 investment that is comparable to that which it would earn on a supply side resource. 8 Demand side programs must be funded by a mechanism that meets this criteria. 9 Does this conclude your surrebuttal testimony? Q.

10

A.

Yes.

Summary of Aquila Networks State of Missouri Electric Demand-Side Management Plan Programs

Integrated Resource Plan Cost Category	Expected MWh Savings, 5th Year of Plan
A: Less than \$30/MWh	81,841
B: \$30 to \$45/MWh	19,822
Total Incorporated in IRP	101,663

	MWh Savings, 5th Year	
Programs Included in Cost Categories A and B (*)	of Plan	Levelized Cost / mWh
Residential Lighting (includes Change-A-Light)	26,383	\$15.39
Residential Thermal Envelope (includes Home Performance w/ ES)	9,326	\$45.90
Residential Space Heating & Cooling Replacement	4,260	\$40.60
Residential Programmable Thermostats & HVAC Maintenance	3,768	\$34.90
Residential New Construction (based on ES new homes)	5,423	\$41.45
Residential Audit	5,512	\$38.51
Comprehensive C&I Program	53,041	\$23.41
Program Totals	107,714	

^(*) Savings by program were updated and presented to the MPSC and Company on August 4, 2005.

Summary of DSM Integration and Cost Recovery

State	Cost recovery Methodology	Integrated Resource Plan Requirement?	Shareholder Incentives
Kentucky	Tariff rider	Yes	No
Florida	Rates	Yes	Yes
Colorado	Tariff riders	Yes	No
Wyoming	Rates	No	No
Washington	Tariff rider	Yes, every two years	No
Oregon	3.5% tariff rider	No	No
Idaho	Tariff riders	Yes, every two years	No
Maine	\$.0015/kWh tariff rider	No	No
New Jersey	2% tariff rider	No	No
Minnesota	1.5-2.0% of gross operating revenues required EE spending recovered through rates and a tariff rider	Biennial IRPs	Yes
Nevada	Rates	Triennial Resource Plan	Yes
Montana	2.4% tariff rider	IRP and Portfolio	No
Arizona	1.45% tariff rider	No	No
California	3% tariff rider	Yes	Yes
Connecticut	4.05% tariff rider	No	No
Delaware	0.6% tariff rider	No	No
Illinois	.9% tariff rider	No	No
Massachusetts	3.06% tariff rider	No	No
Michigan	0.7% tariff rider	No	No
Pennsylvania	1.0% tariff rider	Yes	No
Rhode Island	2.3% tariff rider	No	No
Texas	1.65% tariff rider	Yes	No
Vermont	3.4% tariff rider	Yes	No
Wisconsin	4.3% tariff rider	Yes	No
New Mexico	Tariff rider	Yes	No
Utah	Tariff rider	Yes	No
Missouri	Rates	Yes	No
Georgia	Rates	Yes	No
Indiana	Tariff rider	Yes	No
South Dakota	Rates	No	No
North Dakota	Rates	No	No
Hawaii	Rates	Yes	No
Iowa	Tariff rider	Yes	No



Appendices:

Aquila Networks State of Missouri Electric Demand-Side Management Plan, 2006 – 2010

Prepared for: Missouri Public Service Commission

Prepared by: Aquila Networks

April 15, 2005



Econometric Forecast of Sales in GWh by Area

ľ	Year	MPS	SJD
ľ	2004	2,355	707
	2005	2,518	745
	2006	2,600	761
	2007	2,684	777
	2008	2,768	792
	2009	2,843	802
	2010	2,925	814
	2011	3,011	826
	2012	3,103	841
	2013	3,182	851
	2014	3,272	864
	2015	3,366	878
	2016	3,470	894
	2017	3,560	906
	2018	3,660	920
	2019	3,762	935
	2020	3,875	952
	2021	3,983	967
	2022	4,094	982
	2023	4,210	998
	2024	4,329	1,014
	2025	4,452	1,031

Forecast of Percentages of Families Living in Single/Multi Family Homes, by Area

Year	Area	Multi Family	Single Family
2004	MPS	21.32%	78.68%
2005	MPS	21.28%	78.72%
2006	MPS	21.24%	78.76%
2007	MPS	21.21%	78.79%
2008	MPS	21.18%	78.82%
2009	MPS	21.16%	78.84%
2010	MPS	21.14%	78.86%
2011	MPS	21.13%	78.87%
2012	MPS	21.12%	78.88%
2013	MPS	21.12%	78.88%
2014	MPS	21.12%	78.88%
2015	MPS	21.13%	78.87%
2016	MPS	21.14%	78.86%
2017	MPS	21.16%	78.84%
2018	MPS	21.19%	78.81%
2019	MPS	21.22%	78.78%
2020	MPS	21.25%	78.75%
2021	MPS	21.27%	78.73%
2022	MPS	21.30%	78.70%
2023	MPS	21.33%	78.67%
2024	MPS	21.36%	78.64%
2025	MPS	21.39%	78.61%
2004	SJD	21.32%	78.68%
2005	SJD	21.28%	78.72%
2006	SJD	21.24%	78.76%
2007	SJD	21.21%	78.79%
2008	SJD	21.18%	78.82%
2009	SJD	21.16%	78.84%
2010	SJD	21.14%	78.86%
2011	SJD	21.13%	78.87%
2012	SJD	21.12%	78.88%
2013	SJD	21.12%	78.88%
2014	SJD	21.12%	78.88%
2015	SJD	21.13%	78.87%
2016	SJD	21.14%	78.86%
2017	SJD	21.16%	78.84%
2018	SJD	21.19%	78.81%
2019	SJD	21.22%	78.78%
2020	SJD	21.25%	78.75%
2021	SJD	21.27%	78.73%
2022	SJD	21.30%	78.70%
2023	SJD	21.33%	78.67%
2024	SJD	21.36%	78.64%
2025	SJD	21.39%	78.61%

Forecast of Customers by Area

		Newstern 6
Year Area		Number of
	Customers	
2004	MPS	196,752
2005	MPS	200,668
2006	MPS	204,584
2007	MPS	208,500
2008	MPS	212,580
2009	MPS	216,729
2010	MPS	220,884
2011	MPS	225,070
2012	MPS	229,090
2013	MPS	233,141
2014	MPS	237,253
2015	MPS	241,466
2016	MPS	245,732
2017	MPS	249,986
2017	MPS	254,223
2018	MPS	254,223 258,457
	_	
2020	MPS	262,709
2021	MPS	266,976
2022	MPS	271,251
2023	MPS	275,557
2024	MPS	279,889
2025	MPS	284,223
2004	SJD	57,202
2005	SJD	57,586
2006	SJD	58,002
2007	SJD	58,419
2008	SJD	58,778
2009	SJD	59,145
2010	SJD	59,513
2011	SJD	59,862
2012	SJD	60,249
2013	SJD	60,628
2014	SJD	60,987
2015	SJD	61,316
2016	SJD	61,626
2010	SJD	61,936
2017	SJD	62,245
2019	SJD	62,552
2020	SJD	62,855
2021	SJD	63,147
2022	SJD	63,433
2023	SJD	63,707
2024	SJD	63,973
2025	SJD	64,241

End-Use Saturations By Building Type and Vintage

End-Use Saturations By Building Type and Vintage					
Building Type	End-Use	vintage	saturation		
Single Family	Central Heat	Existing	84.81%		
Single Family	Room Heat	Existing	9.70%		
Single Family	Heat Pump	Existing	5.49%		
Single Family	Central AC	Existing	78.04%		
Single Family	Room AC	Existing	11.60%		
Single Family	Lighting Bulbs	Existing	90.00%		
Single Family	Lighting Fixtures	Existing	10.00%		
Single Family	Water Heat	Existing	100.00%		
Single Family	Cooking	Existing	100.00%		
Single Family	Refrigerator	Existing	123.00%		
Single Family	Freezer	Existing	59.00%		
Single Family	Dryer	Existing	98.00%		
Single Family	Plug Load	Existing	100.00%		
Single Family	Other	Existing	100.00%		
Multi Family	Central Heat	Existing	77.47%		
Multi Family	Room Heat	Existing	15.39%		
Multi Family	Heat Pump	Existing	7.14%		
Multi Family	Central AC	Existing	79.66%		
Multi Family	Room AC	Existing	11.42%		
Multi Family	Lighting Bulbs	Existing	90.00%		
Multi Family	Lighting Fixtures	Existing	10.00%		
Multi Family	Water Heat	Existing	100.00%		
Multi Family	Cooking	Existing	100.00%		
Multi Family	Refrigerator	Existing	100.00%		
Multi Family	Freezer	Existing	41.00%		
Multi Family	Dryer	Existing	86.00%		
Multi Family	Plug Load	Existing	100.00%		
Multi Family	Other	Existing	100.00%		
Single Family	Central Heat	New	84.81%		
Single Family	Room Heat	New	9.70%		
Single Family	Heat Pump	New	5.49%		
Single Family	Central AC	New	78.04%		
Single Family	Room AC	New	11.60%		
Single Family	Lighting Bulbs	New	90.00%		
Single Family	Lighting Fixtures	New	10.00%		
Single Family	Water Heat	New	100.00%		
Single Family	Cooking	New	100.00%		
Single Family	Refrigerator	New	123.00%		
Single Family	Freezer	New	59.00%		
Single Family	Dryer	New	98.00%		
Single Family	•	New	100.00%		
Single Family	Plug Load Other	New	100.00%		
Multi Family	Central Heat	New	77.47%		
,	Room Heat	New	15.39%		
Multi Family					
Multi Family	Heat Pump	New	7.14%		
Multi Family	Central AC	New	79.66%		
Multi Family	Room AC	New	11.42%		
Multi Family	Lighting Bulbs	New	90.00%		
Multi Family	Lighting Fixtures	New	10.00%		
Multi Family	Water Heat	New	100.00%		
Multi Family	Cooking	New	100.00%		
Multi Family	Refrigerator	New	100.00%		
Multi Family	Freezer	New	41.00%		
Multi Family	Dryer	New	86.00%		
Multi Family	Plug Load	New	100.00%		
Multi Family	Other	New	100.00%		

Fuel Shares by Building Type, End-Use and Fuel

Building Type	End-Use	Fuel Type	Base Avg Electric Share	Base Marg Electric Share Existing	Base Marg Electric Share Conversion	Base Marg Electric Share New
Single Family	Central Heat	Electric	4.98%	4.98%	4.98%	4.98%
Single Family	Room Heat	Electric	19.95%	19.95%	19.95%	19.95%
Single Family	Heat Pump	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Central AC	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Room AC	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Lighting Bulbs	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Lighting Fixtures	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Water Heat	Electric	32.32%	32.32%	32.32%	32.32%
Single Family	Cooking	Electric	83.10%	83.10%	83.10%	83.10%
Single Family	Refrigerator	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Freezer	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Dryer	Electric	80.57%	80.57%	80.57%	80.57%
Single Family	Plug Load	Electric	100.00%	100.00%	100.00%	100.00%
Single Family	Other	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Central Heat	Electric	16.43%	16.43%	16.43%	16.43%
Multi Family	Room Heat	Electric	17.09%	17.09%	17.09%	17.09%
Multi Family	Heat Pump	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Central AC	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Room AC	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Lighting Bulbs	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Lighting Fixtures	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Water Heat	Electric	18.16%	18.16%	18.16%	18.16%
Multi Family	Cooking	Electric	89.77%	89.77%	89.77%	89.77%
Multi Family	Refrigerator	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Freezer	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Dryer	Electric	88.28%	88.28%	88.28%	88.28%
Multi Family	Plug Load	Electric	100.00%	100.00%	100.00%	100.00%
Multi Family	Other	Electric	100.00%	100.00%	100.00%	100.00%

Efficiency Shares by Building Type, End-Use and Fuel

Building Type	End-Use	Fuel Type	Share	Standard Efficiency Share	Share	Premium Efficiency Share
Multi Family	Central AC	Electric	50%		9%	1%
Multi Family	Central Heat	Electric	100%			
Multi Family	Cooking	Electric	90%	10%		
Multi Family	Dryer	Electric	90%	10%		
Multi Family	Freezer	Electric	50%	45%	5%	
Multi Family	Heat Pump	Electric	50%	40%	9%	1%
Multi Family	Lighting Bulbs	Electric	100%			
Multi Family	Lighting Fixtures	Electric	100%			
Multi Family	Other	Electric	100%			
Multi Family	Plug Load	Electric	90%	10%		
Multi Family	Refrigerator	Electric	50%	45%	5%	
Multi Family	Room AC	Electric	50%	45%	5%	
Multi Family	Room Heat	Electric	100%			
Multi Family	Water Heat	Electric	50%	45%	5%	
Multi Family	Central Heat	Gas	100%			
Multi Family	Cooking	Gas	100%			
Multi Family	Dryer	Gas	100%			
Multi Family	Room Heat	Gas	100%			
Multi Family	Water Heat	Gas	100%			
Single Family	Central AC	Electric	50%	40%	9%	1%
Single Family	Central Heat	Electric	100%			
Single Family	Cooking	Electric	90%	10%		
Single Family	Dryer	Electric	90%	10%		
Single Family	Freezer	Electric	50%	45%	5%	
Single Family	Heat Pump	Electric	50%	40%	9%	1%
Single Family	Lighting Bulbs	Electric	100%			
Single Family	Lighting Fixtures	Electric	100%			
Single Family	Other	Electric	100%			
Single Family	Plug Load	Electric	90%	10%		
Single Family	Refrigerator	Electric	50%		5%	
Single Family	Room AC	Electric	50%	45%	5%	
Single Family	Room Heat	Electric	100%			
Single Family	Water Heat	Electric	50%		5%	
Single Family	Central Heat	Gas	100%			
Single Family	Cooking	Gas	100%			
Single Family	Dryer	Gas	100%			
Single Family	Room Heat	Gas	100%			
Single Family	Water Heat	Gas	100%			

UECs by Building Type, End-Use and Fuel

Desiration of Terror		Ecs by Building	Stock	Standard	Stock	Standard
Building Type	End-Use	Fuel Type	UEC	UEC	Efficiency	Efficiency
Multi Family	Central AC	Electric	1144.2	942.6	10.7	13.0
Multi Family	Central Heat	Electric	7413.5	7413.5	1.0	1.0
Multi Family	Cooking	Electric	465.5	465.5	1.0	1.0
Multi Family	Dryer	Electric	811.9	811.9	1.0	1.0
Multi Family	Freezer	Electric	631.2	504.9	0.8	1.0
Multi Family	Heat Pump	Electric	4929.1	4042.1	1.0	1.2
Multi Family	Lighting Bulbs	Electric	1088.0	1088.0	1.0	1.0
Multi Family	Lighting Fixtures	Electric	1088.0	1088.0	1.0	1.0
Multi Family	Other	Electric	0.0	0.0	1.0	1.0
Multi Family	Plug Load	Electric	2000.0	2000.0	1.0	1.0
Multi Family	Refrigerator	Electric	817.2	653.7	8.0	1.0
Multi Family	Room AC	Electric	752.9	721.9	9.3	9.7
Multi Family	Room Heat	Electric	7657.8	7657.8	1.0	1.0
Multi Family	Water Heat	Electric	3166.3	3038.5	0.9	0.9
Single Family	Central AC	Electric	2370.5	1952.9	10.7	13.0
Single Family	Central Heat	Electric	14693.7	14693.7	1.0	1.0
Single Family	Cooking	Electric	602.5	602.5	1.0	1.0
Single Family	Dryer	Electric	866.9	866.9	1.0	1.0
Single Family	Freezer	Electric	643.0	514.4	0.8	1.0
Single Family	Heat Pump	Electric	10225.4	8971.2	1.0	1.1
Single Family	Lighting Bulbs	Electric	2004.0	2004.0	1.0	1.0
Single Family	Lighting Fixtures	Electric	2004.0	2004.0	1.0	1.0
Single Family	Other	Electric	0.0	0.0	1.0	1.0
Single Family	Plug Load	Electric	3500.0	3500.0	1.0	1.0
Single Family	Refrigerator	Electric	867.0	693.6	8.0	1.0
Single Family	Room AC	Electric	1316.3	1262.1	9.3	9.7
Single Family	Room Heat	Electric	14594.7	14594.7	1.0	1.0
Single Family	Water Heat	Electric	3447.7	3308.6	0.9	0.9
Multi Family	Central Heat	Gas	1.0	1.0	1.0	1.0
Multi Family	Cooking	Gas	1.0	1.0	1.0	1.0
Multi Family	Dryer	Gas	1.0	1.0	1.0	1.0
Multi Family	Room Heat	Gas	1.0	1.0	1.0	1.0
Multi Family	Water Heat	Gas	1.0	1.0	1.0	1.0
Single Family	Central Heat	Gas	1.0	1.0	1.0	1.0
Single Family	Cooking	Gas	1.0	1.0	1.0	1.0
Single Family	Dryer	Gas	1.0	1.0	1.0	1.0
Single Family	Room Heat	Gas	1.0	1.0	1.0	1.0
Single Family	Water Heat	Gas	1.0	1.0	1.0	1.0

Econometric Forecast of Sales in GWh by Area

in Gwn by Area					
Year	MPS	SJD			
2004	1,705	571			
2005	1,819	598			
2006	1,915	614			
2007	2,013	631			
2008	2,086	644			
2009	2,163	654			
2010	2,250	667			
2011	2,337	680			
2012	2,432	695			
2013	2,517	707			
2014	2,610	721			
2015	2,700	733			
2016	2,796	748			
2017	2,881	759			
2018	2,975	773			
2019	3,070	787			
2020	3,173	803			
2021	3,269	817			
2022	3,366	830			
2023	3,464	844			
2024	3,562	858			
2025	3,664	872			

Forecasts of Percentage of Customers by Building Type

	Forecasts of Percentage of Customers by Building Type										
Year	Area	Small Office	Large Office	Restaurant	Retail	Grocery	Warehouse	School	Health	Lodging	Miscellaneous
2004	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2005	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2006	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2007	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2008	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2009	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2010	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2011	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2012	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2013	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2014	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2015	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2016	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2017	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2018	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2019	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2020	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2021	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2022	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2023	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2024	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2025	MPS	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2004	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2005	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2006	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2007	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2008	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2009	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2010	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2011	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2012	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2013	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2014	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2015	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2016	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2017	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2018	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2019	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2020	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2021	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2022	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2023	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2024	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%
2025	SJD	27.27%	2.03%	4.34%	19.50%	1.71%	7.46%	2.76%	5.15%	1.97%	27.82%

Forecast of Customers by Area

	_	Number of
Year	Area	Customers
2004	MPS	27,515
2005	MPS	28,606
2006	MPS	29,697
2007	MPS	30,788
2008	MPS	31,879
2009	MPS	32,970
2010	MPS	34,061
2011	MPS	35,152
2012	MPS	36,243
2013	MPS	37,334
2014	MPS	38,425
2015	MPS	39,516
2016	MPS	40,607
2017	MPS	41,698
2018	MPS	42,789
2019	MPS	43,880
2020	MPS	44,971
2021	MPS	46,062
2022	MPS	47,153
2023	MPS	48,244
2024	MPS	49,335
2025	MPS	50,426
2004	SJD	7,344
2005	SJD	7,486
2006	SJD	7,628
2007	SJD	7,770
2008	SJD	7,912
2009	SJD	8,054
2010	SJD	8,196
2011 2012	SJD	8,338
2012	SJD SJD	8,480 8,633
2013	SJD	8,622 8,764
2014	SJD	8,906
2015	SJD	9,048
		9,048 9,190
2017 2018	SJD SJD	9,190 9,332
2018	SJD	9,332 9,474
2019	SJD	9,474 9,616
2020	SJD	9,758
2021	SJD	9,750 9,900
2022	SJD	10,042
2023	SJD	10,042
2024	SJD	10,164

End-Use Saturations By Building Type and Vintage

Building Type	End-Use	Vintage	Saturation
Grocery	Cooking	Existing	67.0%
Grocery	Cooling_Chillers	Existing	1.8%
Grocery	Cooling_DX	Existing	53.5%
Grocery	Cooling_HeatPump	Existing	7.2%
Grocery	Lighting_2L4T12	Existing	5.2%
Grocery	Lighting_2L4T8	Existing	26.1%
Grocery	Lighting_2L8T12	Existing	0.4%
Grocery	Lighting_3L4T12	Existing	0.4%
Grocery	Lighting_3L4T8	Existing	17.7%
Grocery	Lighting_4L4T12	Existing	0.1%
Grocery	Lighting_4L4T8	Existing	8.7%
Grocery	Lighting_INC150W	Existing	20.7%
Grocery	Lighting_INC40W	Existing	20.7%
Grocery	Lighting_INC75W	Existing	20.7%
Grocery	Other	Existing	100.0%
Grocery	Plug_Load	Existing	100.0%
Grocery	Refrigeration	Existing	92.8%
Grocery	Space_Heat	Existing	56.1%
Grocery	Ventilation	Existing	100.0%
Grocery	Water_Heat	Existing	66.4%
Grocery	Cooking	New	67.0%
Grocery	Cooling_Chillers	New	1.8%
Grocery	Cooling_DX	New	53.5%
Grocery	Cooling_HeatPump	New	7.2%
Grocery	Lighting_2L4T12	New	5.2%
Grocery	Lighting_2L4T8	New	26.1%
Grocery	Lighting_2L8T12	New	0.4%
Grocery	Lighting_3L4T12	New	0.4%
Grocery	Lighting_3L4T8	New	17.7%
Grocery	Lighting_4L4T12	New	0.1%
Grocery	Lighting_4L4T8	New	8.7%
Grocery	Lighting_INC150W	New	20.7%
Grocery	Lighting_INC40W	New	20.7%
Grocery	Lighting_INC75W	New	20.7%
Grocery	Other	New	100.0%
Grocery	Plug_Load	New	100.0%
Grocery	Refrigeration	New	92.8%
Grocery	Space_Heat	New	56.1%
Grocery	Ventilation	New	100.0%
Grocery	Water_Heat	New	66.4%

End-Use Saturations By Building Type and Vintage

Building			
Type	End-Use	Vintage	Saturation
Health	Cooking	Existing	81.7%
Health	Cooling_Chillers	Existing	13.2%
Health	Cooling DX	Existing	30.8%
Health	Cooling_HeatPump	Existing	3.6%
Health	Lighting_2L4T12	Existing	25.1%
Health	Lighting_2L4T8	Existing	15.8%
Health	Lighting_2L8T12	Existing	2.1%
Health	Lighting_3L4T12	Existing	0.0%
Health	Lighting_3L4T8	Existing	9.9%
Health	Lighting_4L4T12	Existing	17.3%
Health	Lighting_4L4T8	Existing	11.2%
Health	Lighting_INC150W	Existing	9.4%
Health	Lighting_INC40W	Existing	9.4%
Health	Lighting_INC75W	Existing	9.4%
Health	Other	Existing	100.0%
Health	Plug_Load	Existing	100.0%
Health	Refrigeration	Existing	67.9%
Health	Space_Heat	Existing	61.8%
Health	Ventilation	Existing	100.0%
Health	Water_Heat	Existing	66.6%
Health	Cooking	New	81.7%
Health	Cooling_Chillers	New	13.2%
Health	Cooling_DX	New	30.8%
Health	Cooling_HeatPump	New	3.6%
Health	Lighting_2L4T12	New	25.1%
Health	Lighting_2L4T8	New	15.8%
Health	Lighting_2L8T12	New	2.1%
Health	Lighting_3L4T12	New	0.0%
Health	Lighting_3L4T8	New	9.9%
Health	Lighting_4L4T12	New	17.3%
Health	Lighting_4L4T8	New	11.2%
Health	Lighting_INC150W	New	9.4%
Health	Lighting_INC40W	New	9.4%
Health	Lighting_INC75W	New	9.4%
Health	Other	New	100.0%
Health	Plug_Load	New	100.0%
Health	Refrigeration	New	67.9%
Health	Space_Heat	New	61.8%
Health	Ventilation	New	100.0%
Health	Water_Heat	New	66.6%

End-Use Saturations By Building Type and Vintage

Building	End-Use	Vintage	Saturation
Type			
~ —	Cooling_Chillers	Existing	23.7%
Large_Office		Existing	29.1%
	Cooling_HeatPump	Existing	19.6%
~ -	Lighting_2L4T12	Existing	6.7%
	Lighting_2L4T8	Existing	15.6%
~ —	Lighting_2L8T12	Existing	1.4%
	Lighting_3L4T12	Existing	1.8%
	Lighting_3L4T8	Existing	21.6%
	Lighting_4L4T12	Existing	16.0%
	Lighting_4L4T8	Existing	4.8%
	Lighting_INC150W	Existing	16.0%
	Lighting_INC40W	Existing	16.0%
	Lighting_INC75W	Existing	16.0%
Large_Office		Existing	100.0%
Large_Office	Plug_Load	Existing	100.0%
Large_Office	Space_Heat	Existing	63.7%
Large_Office	Ventilation	Existing	100.0%
Large_Office	Water_Heat	Existing	59.9%
	Cooling_Chillers	New	23.7%
Large_Office	Cooling_DX	New	29.1%
Large_Office	Cooling_HeatPump	New	19.6%
Large_Office	Lighting_2L4T12	New	6.7%
Large_Office	Lighting_2L4T8	New	15.6%
Large_Office	Lighting_2L8T12	New	1.4%
Large_Office	Lighting_3L4T12	New	1.8%
Large_Office	Lighting_3L4T8	New	21.6%
Large_Office	Lighting_4L4T12	New	16.0%
Large_Office	Lighting_4L4T8	New	4.8%
Large_Office	Lighting_INC150W	New	16.0%
Large_Office	Lighting_INC40W	New	16.0%
Large_Office	Lighting_INC75W	New	16.0%
Large_Office	Other	New	100.0%
Large Office		New	100.0%
Large Office	5 _	New	63.7%
Large_Office		New	100.0%
Large_Office		New	59.9%

End-Use Saturations By Building Type and Vintage

	Saturations by Build	ing Typo unc	· ····································
Building Type	e End-Use	Vintage	Saturation
Retail	Cooling_Chillers	Existing	12.3%
Retail	Cooling_DX	Existing	33.6%
Retail	Cooling_HeatPump	Existing	13.9%
Retail	Lighting_2L4T12	Existing	7.1%
Retail	Lighting_2L4T8	Existing	18.6%
Retail	Lighting_2L8T12	Existing	11.7%
Retail	Lighting_3L4T12	Existing	0.8%
Retail	Lighting_3L4T8	Existing	6.8%
Retail	Lighting_4L4T12	Existing	9.8%
Retail	Lighting_4L4T8	Existing	5.9%
Retail	Lighting_INC150W	Existing	19.7%
Retail	Lighting_INC40W	Existing	19.7%
Retail	Lighting_INC75W	Existing	19.7%
Retail	Other	Existing	100.0%
Retail	Plug_Load	Existing	100.0%
Retail	Space_Heat	Existing	82.3%
Retail	Ventilation	Existing	100.0%
Retail	Water_Heat	Existing	60.3%
Retail	Cooling_Chillers	New	12.3%
Retail	Cooling_DX	New	33.6%
Retail	Cooling_HeatPump	New	13.9%
Retail	Lighting_2L4T12	New	7.1%
Retail	Lighting_2L4T8	New	18.6%
Retail	Lighting_2L8T12	New	11.7%
Retail	Lighting_3L4T12	New	0.8%
Retail	Lighting_3L4T8	New	6.8%
Retail	Lighting_4L4T12	New	9.8%
Retail	Lighting_4L4T8	New	5.9%
Retail	Lighting_INC150W	New	19.7%
Retail	Lighting_INC40W	New	19.7%
Retail	Lighting_INC75W	New	19.7%
Retail	Other	New	100.0%
Retail	Plug_Load	New	100.0%
Retail	Space_Heat	New	82.3%
Retail	Ventilation	New	100.0%
Retail	Water_Heat	New	60.3%

End-Use Saturations By Building Type and Vintage

		<u> </u>						
Building Type	End-Use	Vintage	Saturation					
Lodging	Cooking	Existing	41.1%					
Lodging	Cooling_Chillers	Existing	29.2%					
Lodging	Cooling_DX	Existing	2.7%					
Lodging	Cooling_HeatPump	Existing	20.8%					
Lodging	Lighting_2L4T12	Existing	14.6%					
Lodging	Lighting_2L4T8	Existing	13.1%					
Lodging	Lighting_2L8T12	Existing	0.0%					
Lodging	Lighting_3L4T12	Existing	0.4%					
Lodging	Lighting_3L4T8	Existing	0.2%					
Lodging	Lighting_4L4T12	Existing	4.1%					
Lodging	Lighting_4L4T8	Existing	1.8%					
Lodging	Lighting_INC150W	Existing	32.9%					
Lodging	Lighting_INC40W	Existing	32.9%					
Lodging	Lighting_INC75W	Existing	32.9%					
Lodging	Other	Existing	100.0%					
Lodging	Plug_Load	Existing	100.0%					
Lodging	Refrigeration	Existing	42.7%					
Lodging	Space_Heat	Existing	67.5%					
Lodging	Ventilation	Existing	100.0%					
Lodging	Water_Heat	Existing	55.7%					
Lodging	Cooking	New	41.1%					
Lodging	Cooling_Chillers	New	29.2%					
Lodging	Cooling_DX	New	2.7%					
Lodging	Cooling_HeatPump	New	20.8%					
Lodging	Lighting_2L4T12	New	14.6%					
Lodging	Lighting_2L4T8	New	13.1%					
Lodging	Lighting_2L8T12	New	0.0%					
Lodging	Lighting_3L4T12	New	0.4%					
Lodging	Lighting_3L4T8	New	0.2%					
Lodging	Lighting_4L4T12	New	4.1%					
Lodging	Lighting_4L4T8	New	1.8%					
Lodging	Lighting_INC150W	New	32.9%					
Lodging	Lighting_INC40W	New	32.9%					
Lodging	Lighting_INC75W	New	32.9%					
Lodging	Other	New	100.0%					
Lodging	Plug_Load	New	100.0%					
Lodging	Refrigeration	New	42.7%					
Lodging	Space_Heat	New	67.5%					
Lodging	Ventilation	New	100.0%					
Lodging	Water_Heat	New	55.7%					

End-Use Saturations By Building Type and Vintage

End-Use Saturations By Building Type and Vintage						
Building Type	End-Use	Vintage	Saturation			
	Cooling_Chillers	Existing	2.6%			
Miscellaneous	Cooling_DX	Existing	20.3%			
Miscellaneous	Cooling_HeatPump	Existing	4.6%			
Miscellaneous	Lighting_2L4T12	Existing	20.1%			
Miscellaneous	Lighting_2L4T8	Existing	21.8%			
Miscellaneous	Lighting_2L8T12	Existing	13.9%			
Miscellaneous	Lighting_3L4T12	Existing	1.3%			
Miscellaneous	Lighting_3L4T8	Existing	14.5%			
Miscellaneous	Lighting_4L4T12	Existing	10.1%			
Miscellaneous	Lighting_4L4T8	Existing	8.5%			
Miscellaneous	Lighting_INC150W	Existing	4.9%			
Miscellaneous	Lighting_INC40W	Existing	4.9%			
Miscellaneous	Lighting_INC75W	Existing	4.9%			
Miscellaneous	Other	Existing	100.0%			
Miscellaneous	Plug_Load	Existing	100.0%			
Miscellaneous	Space_Heat	Existing	54.5%			
Miscellaneous	Ventilation	Existing	100.0%			
Miscellaneous	Water_Heat	Existing	72.8%			
Miscellaneous	Cooling_Chillers	New	2.6%			
Miscellaneous	Cooling_DX	New	20.3%			
Miscellaneous	Cooling_HeatPump	New	4.6%			
Miscellaneous	Lighting_2L4T12	New	20.1%			
Miscellaneous	Lighting_2L4T8	New	21.8%			
Miscellaneous	Lighting_2L8T12	New	13.9%			
Miscellaneous	Lighting_3L4T12	New	1.3%			
Miscellaneous	Lighting_3L4T8	New	14.5%			
Miscellaneous	Lighting_4L4T12	New	10.1%			
Miscellaneous	Lighting_4L4T8	New	8.5%			
Miscellaneous	Lighting_INC150W	New	4.9%			
Miscellaneous	Lighting_INC40W	New	4.9%			
Miscellaneous	Lighting_INC75W	New	4.9%			
Miscellaneous	Other	New	100.0%			
Miscellaneous	Plug Load	New	100.0%			
Miscellaneous	Space Heat	New	54.5%			
Miscellaneous	Ventilation	New	100.0%			
Miscellaneous	Water_Heat	New	72.8%			

End-Use Saturations By Building Type and Vintage

Building Type	End-Use	Vintage	
Restaurant		Existing	100.0%
Restaurant	Cooking Chillers	Existing	0.0%
Restaurant	Cooling_DX	Existing	28.4%
Restaurant	Cooling_HeatPump	Existing	11.0%
Restaurant	Lighting_2L4T12	Existing	2.5%
Restaurant	Lighting_2L4T8	Existing	3.1%
Restaurant	Lighting_2L4T3	Existing	20.0%
Restaurant	Lighting_3L4T12	Existing	0.0%
Restaurant	Lighting_3L4T8	Existing	7.1%
Restaurant	Lighting_4L4T12	Existing	5.8%
Restaurant	Lighting_4L4T8	Existing	3.8%
Restaurant	Lighting_INC150W	Existing	28.8%
Restaurant	Lighting_INC40W	Existing	28.8%
Restaurant	Lighting_INC75W	Existing	28.8%
Restaurant	Other	Existing	100.0%
Restaurant	Plug_Load	Existing	100.0%
Restaurant	Refrigeration	Existing	100.0%
Restaurant	Space_Heat	Existing	81.2%
Restaurant	Ventilation	Existing	100.0%
Restaurant	Water Heat	Existing	73.4%
Restaurant	Cooking	New	100.0%
Restaurant	Cooling_Chillers	New	0.0%
Restaurant	Cooling_DX	New	28.4%
Restaurant	Cooling_HeatPump	New	11.0%
Restaurant	Lighting_2L4T12	New	2.5%
Restaurant	Lighting_2L4T8	New	3.1%
Restaurant	Lighting_2L8T12	New	20.0%
Restaurant	Lighting_3L4T12	New	0.0%
Restaurant	Lighting_3L4T8	New	7.1%
Restaurant	Lighting_4L4T12	New	5.8%
Restaurant	Lighting_4L4T8	New	3.8%
Restaurant	Lighting_INC150W	New	28.8%
Restaurant	Lighting_INC40W	New	28.8%
Restaurant	Lighting_INC75W	New	28.8%
Restaurant	Other	New	100.0%
Restaurant	Plug_Load	New	100.0%
Restaurant	Refrigeration	New	100.0%
Restaurant	Space Heat	New	81.2%
Restaurant	Ventilation	New	100.0%
Restaurant	Water_Heat	New	73.4%

End-Use Saturations By Building Type and Vintage

Building Type	End-Use	Vintage	Saturation		
School	Cooking	Existing	44.5%		
School	Cooling_Chillers	Existing	3.5%		
School	Cooling_DX	Existing	25.3%		
School	Cooling_HeatPump	Existing	12.6%		
School	Lighting_2L4T12	Existing	2.9%		
School	Lighting_2L4T8	Existing	27.5%		
School	Lighting_2L8T12	Existing	0.1%		
School	Lighting_3L4T12	Existing	0.8%		
School	Lighting_3L4T8	Existing	60.5%		
School	Lighting_4L4T12	Existing	2.4%		
School	Lighting_4L4T8	Existing	3.7%		
School	Lighting_INC150W	Existing	1.0%		
School	Lighting_INC40W	Existing	1.0%		
School	Lighting_INC75W	Existing	1.0%		
School	Other	Existing	100.0%		
School	Plug_Load	Existing	100.0%		
School	Refrigeration	Existing	61.5%		
School	Space_Heat	Existing	78.9%		
School	Ventilation	Existing	100.0%		
School	Water_Heat	Existing	71.5%		
School	Cooking	New	44.5%		
School	Cooling_Chillers	New	3.5%		
School	Cooling_DX	New	25.3%		
School	Cooling_HeatPump	New	12.6%		
School	Lighting_2L4T12	New	2.9%		
School	Lighting_2L4T8	New	27.5%		
School	Lighting_2L8T12	New	0.1%		
School	Lighting_3L4T12	New	0.8%		
School	Lighting_3L4T8	New	60.5%		
School	Lighting_4L4T12	New	2.4%		
School	Lighting_4L4T8	New	3.7%		
School	Lighting_INC150W	New	1.0%		
School	Lighting_INC40W	New	1.0%		
School	Lighting_INC75W	New	1.0%		
School	Other	New	100.0%		
School	Plug_Load	New	100.0%		
School	Refrigeration	New	61.5%		
School	Space_Heat	New	78.9%		
School	Ventilation	New	100.0%		
School	Water_Heat	New	71.5%		

End-Use Saturations By Building Type and Vintage

	Saturations by Build	anig Type une	· viiitago
Building Type	End-Use	Vintage	Saturation
Small_Office	Cooling_Chillers	Existing	23.7%
Small_Office	Cooling_DX	Existing	29.1%
Small_Office	Cooling_HeatPump	Existing	19.6%
Small_Office	Lighting_2L4T12	Existing	6.7%
Small_Office	Lighting_2L4T8	Existing	15.6%
Small_Office	Lighting_2L8T12	Existing	1.4%
Small_Office	Lighting_3L4T12	Existing	1.8%
Small_Office	Lighting_3L4T8	Existing	21.6%
Small_Office	Lighting_4L4T12	Existing	16.0%
Small_Office	Lighting_4L4T8	Existing	4.8%
Small_Office	Lighting_INC150W	Existing	16.0%
Small_Office	Lighting_INC40W	Existing	16.0%
Small_Office	Lighting_INC75W	Existing	16.0%
Small_Office	Other	Existing	100.0%
Small_Office	Plug_Load	Existing	100.0%
Small_Office	Space_Heat	Existing	63.7%
Small_Office	Ventilation	Existing	100.0%
Small_Office	Water_Heat	Existing	59.9%
Small_Office	Cooling_Chillers	New	23.7%
Small_Office	Cooling_DX	New	29.1%
Small_Office	Cooling_HeatPump	New	19.6%
Small_Office	Lighting_2L4T12	New	6.7%
Small_Office	Lighting_2L4T8	New	15.6%
Small_Office	Lighting_2L8T12	New	1.4%
Small_Office	Lighting_3L4T12	New	1.8%
Small_Office	Lighting_3L4T8	New	21.6%
Small_Office	Lighting_4L4T12	New	16.0%
Small_Office	Lighting_4L4T8	New	4.8%
Small_Office	Lighting_INC150W	New	16.0%
Small Office	Lighting_INC40W	New	16.0%
Small Office	Lighting_INC75W	New	16.0%
Small_Office	Other	New	100.0%
Small Office	Plug Load	New	100.0%
Small_Office	Space Heat	New	63.7%
Small Office	Ventilation	New	100.0%
Small_Office	Water_Heat	New	59.9%

End-Use Saturations By Building Type and Vintage

	Saturations by Buildi		_
Building Type	End-Use	Vintage	Saturation
Warehouse	Cooling_Chillers	Existing	6.6%
Warehouse	Cooling_DX	Existing	8.0%
Warehouse	Cooling_HeatPump	Existing	1.5%
Warehouse	Lighting_2L4T12	Existing	3.1%
Warehouse	Lighting_2L4T8	Existing	5.5%
Warehouse	Lighting_2L8T12	Existing	26.0%
Warehouse	Lighting_3L4T12	Existing	0.0%
Warehouse	Lighting_3L4T8	Existing	21.3%
Warehouse	Lighting_4L4T12	Existing	6.1%
Warehouse	Lighting_4L4T8	Existing	0.7%
Warehouse	Lighting_INC150W	Existing	18.7%
Warehouse	Lighting_INC40W	Existing	18.7%
Warehouse	Lighting_INC75W	Existing	18.7%
Warehouse	Other	Existing	100.0%
Warehouse	Plug_Load	Existing	100.0%
Warehouse	Refrigeration	Existing	40.0%
Warehouse	Space_Heat	Existing	46.4%
Warehouse	Ventilation	Existing	100.0%
Warehouse	Water_Heat	Existing	48.3%
Warehouse	Cooling_Chillers	New	6.6%
Warehouse	Cooling_DX	New	8.0%
Warehouse	Cooling_HeatPump	New	1.5%
Warehouse	Lighting_2L4T12	New	3.1%
Warehouse	Lighting_2L4T8	New	5.5%
Warehouse	Lighting_2L8T12	New	26.0%
Warehouse	Lighting_3L4T12	New	0.0%
Warehouse	Lighting_3L4T8	New	21.3%
Warehouse	Lighting_4L4T12	New	6.1%
Warehouse	Lighting_4L4T8	New	0.7%
Warehouse	Lighting_INC150W	New	18.7%
Warehouse	Lighting_INC40W	New	18.7%
Warehouse	Lighting_INC75W	New	18.7%
Warehouse	Other	New	100.0%
Warehouse	Plug_Load	New	100.0%
Warehouse	Refrigeration	New	40.0%
Warehouse	Space_Heat	New	46.4%
Warehouse	Ventilation	New	100.0%
Warehouse	Water_Heat	New	48.3%

Fuel Shares By Building Type, End-Use and Fuel

	Fuel Shares By Building Type, End-Use and Fuel Base Marg Base Marg Base Marg Base Marg					
Building Type	End-Use	Fuel	Base Avg Electric	Electric Share	Electric Share	Electric Share
Danaing Type	Liiu Goo		Share	Existing	Conversion	New
Small Office	Space Heat	Electric	20%	20%	20%	20%
Small Office	Cooling Chillers	Electric	100%	100%	100%	100%
Small Office	Cooling DX	Electric	100%	100%	100%	100%
Small Office	Cooling HeatPump	Electric	100%	100%	100%	100%
Small Office	Ventilation	Electric	100%	100%	100%	100%
Small Office	Lighting 4L4T12	Electric	100%	100%	100%	100%
Small Office	Lighting 3L4T12	Electric	100%	100%	100%	100%
Small Office	Lighting 2L4T12	Electric	100%	100%	100%	100%
Small Office	Lighting 2L8T12	Electric	100%	100%	100%	100%
Small Office	Lighting 4L4T8	Electric	100%	100%	100%	100%
Small Office	Lighting 3L4T8	Electric	100%	100%	100%	100%
Small Office	Lighting 2L4T8	Electric	100%	100%	100%	100%
Small Office	Lighting INC40W	Electric	100%	100%	100%	100%
Small Office	Lighting INC75W	Electric	100%	100%	100%	100%
Small Office	Lighting INC150W	Electric	100%	100%	100%	100%
Small Office	Water Heat	Electric	50%	50%	50%	50%
Small Office	Plug Load	Electric	100%	100%	100%	100%
Small Office	Other	Electric	100%	100% 20%	100% 20%	100% 20%
Large Office	Space Heat	Electric	20%	100%	100%	
Large Office	Cooling Chillers	Electric Electric	100%	100%	100%	100%
Large Office Large Office	Cooling DX Cooling HeatPump		100% 100%	100%	100%	100% 100%
Large Office	Ventilation	Electric	100%	100%	100%	100%
Large Office	Lighting 4L4T12	Electric	100%	100%	100%	100%
Large Office	Lighting 3L4T12	Electric	100%	100%	100%	100%
Large Office	Lighting 2L4T12	Electric	100%	100%	100%	100%
Large Office	Lighting 2L8T12	Electric	100%	100%	100%	100%
Large Office	Lighting 4L4T8	Electric	100%	100%	100%	100%
Large Office	Lighting 3L4T8	Electric	100%	100%	100%	100%
Large Office	Lighting 2L4T8	Electric	100%	100%	100%	100%
Large Office	Lighting INC40W	Electric	100%	100%	100%	100%
Large Office	Lighting INC75W	Electric	100%	100%	100%	100%
Large Office	Lighting INC150W	Electric	100%	100%	100%	100%
Large Office	Water Heat	Electric	50%	50%	50%	50%
Large Office	Plug Load	Electric	100%	100%	100%	100%
Large Office	Other	Electric	100%	100%	100%	100%
Restaurant	Space Heat	Electric	42%	42%	42%	42%
Restaurant	Cooling Chillers	Electric	100%	100%	100%	100%
Restaurant	Cooling DX	Electric	100%	100%	100%	100%
Restaurant	Cooling HeatPump		100%	100%	100%	100%
Restaurant	Ventilation	Electric	100%	100%	100%	100%
Restaurant	Lighting 4L4T12	Electric	100%	100%	100%	100%
Restaurant	Lighting 3L4T12	Electric	100%	100%	100%	100%
Restaurant Restaurant	Lighting 2L4T12	Electric	100%	100%	100% 100%	100% 100%
	Lighting 2L8T12	Electric	100%	100%		100%
Restaurant Restaurant	Lighting 4L4T8 Lighting 3L4T8	Electric Electric	100% 100%	100% 100%	100% 100%	100%
Restaurant	Lighting 2L4T8	Electric	100%	100%	100%	100%
Restaurant	Lighting INC40W	Electric	100%	100%	100%	100%
Restaurant	Lighting INC75W	Electric	100%	100%	100%	100%
Restaurant	Lighting INC150W	Electric	100%	100%	100%	100%
Restaurant	Water Heat	Electric	36%	36%	36%	36%
Restaurant	Refrigeration	Electric	100%	100%	100%	100%
Restaurant	Cooking	Electric	43%	43%	43%	43%
Restaurant	Plug Load	Electric	100%	100%	100%	100%
Restaurant	Other	Electric	100%	100%	100%	100%
Retail	Space Heat	Electric	29%	29%	29%	29%
Retail	Cooling Chillers	Electric	100%	100%	100%	100%
Retail	Cooling DX	Electric	100%	100%	100%	100%
Retail	Cooling HeatPump		100%	100%	100%	100%
Retail	Ventilation	Electric	100%	100%	100%	100%
Retail	Lighting 4L4T12	Electric	100%	100%	100%	100%
Retail	Lighting 3L4T12	Electric	100%	100%	100%	100%
Retail	Lighting 2L4T12	Electric	100%	100%	100%	100%
Retail	Lighting 2L8T12	Electric	100%	100%	100%	100%
Retail	Lighting 4L4T8	Electric	100%	100%	100%	100%
Retail	Lighting 3L4T8	Electric	100%	100%	100%	100%
Retail	Lighting 2L4T8	Electric	100%	100%	100%	100%
Retail	Lighting INC40W	Electric	100%	100%	100%	100%
Retail Retail	Lighting INC75W	Electric	100%	100%	100%	100%
Retail Retail	Lighting INC150W Water Heat	Electric Electric	100% 58%	100% 58%	100% 58%	100% 58%
ı votan			100%	100%	100%	100%
Retail	Plug Load	Electric				

Fuel Shares By Building Type, End-Use and Fuel (continued 1)

	Fuel Shares By Building Type, End-Use and Fuel (continued 1) Base Marg					
Building Type	End-Use	Fuel	Base Avg Electric Share	Electric Share	Electric Share	Electric Share
				Existing	Conversion	New
Grocery	Space Heat	Electric	6%	6%	6%	6%
Grocery	Cooling Chillers	Electric	100%	100%	100%	100%
Grocery	Cooling DX	Electric	100%	100%	100%	100%
Grocery	Cooling HeatPump	Electric	100%	100%	100%	100%
Grocery	Ventilation	Electric	100%	100%	100%	100%
Grocery	Lighting 4L4T12	Electric	100%	100%	100%	100%
Grocery	Lighting 3L4T12	Electric	100%	100%	100%	100%
Grocery	Lighting 2L4T12	Electric	100%	100%	100%	100%
Grocery	Lighting 2L8T12	Electric	100%	100%	100%	100%
Grocery	Lighting 4L4T8	Electric	100%	100%	100%	100%
Grocery	Lighting 3L4T8	Electric	100%	100%	100%	100%
Grocery	Lighting 2L4T8	Electric	100%	100%	100%	100%
Grocery	Lighting INC40W	Electric	100%	100%	100%	100%
Grocery	Lighting INC75W	Electric	100% 100%	100% 100%	100% 100%	100% 100%
Grocery Grocery	Lighting INC150W Water Heat	Electric Electric	49%	49%	49%	49%
Grocery	Refrigeration	Electric	100%	100%	100%	100%
Grocery	Cooking	Electric	74%	74%	74%	74%
Grocery	Plug Load	Electric	100%	100%	100%	100%
Grocery	Other	Electric	100%	100%	100%	100%
Warehouse	Space Heat	Electric	25%	25%	25%	25%
Warehouse	Cooling Chillers	Electric	100%	100%	100%	100%
Warehouse	Cooling DX	Electric	100%	100%	100%	100%
Warehouse	Cooling HeatPump	Electric	100%	100%	100%	100%
Warehouse	Ventilation	Electric	100%	100%	100%	100%
Warehouse	Lighting 4L4T12	Electric	100%	100%	100%	100%
Warehouse	Lighting 3L4T12	Electric	100%	100%	100%	100%
Warehouse	Lighting 2L4T12	Electric	100%	100%	100%	100%
Warehouse	Lighting 2L8T12	Electric	100%	100%	100%	100%
Warehouse	Lighting 4L4T8	Electric	100%	100%	100%	100%
Warehouse	Lighting 3L4T8	Electric	100%	100%	100%	100%
Warehouse	Lighting 2L4T8	Electric	100%	100%	100%	100%
Warehouse	Lighting INC40W	Electric	100%	100%	100%	100%
Warehouse	Lighting INC75W	Electric	100%	100%	100%	100%
Warehouse	Lighting INC150W	Electric	100%	100%	100%	100%
Warehouse	Water Heat	Electric	54%	54%	54%	54%
Warehouse	Refrigeration	Electric	100%	100%	100%	100%
Warehouse	Plug Load	Electric	100%	100%	100%	100%
Warehouse	Other	Electric	100%	100%	100%	100%
School	Space Heat	Electric	16%	16%	16%	16%
School	Cooling Chillers	Electric	100%	100%	100%	100%
School	Cooling DX	Electric	100%	100%	100%	100%
School	Cooling HeatPump	Electric	100%	100%	100%	100%
School	Ventilation	Electric	100%	100%	100%	100%
School	Lighting 4L4T12	Electric	100%	100%	100%	100%
School	Lighting 3L4T12	Electric	100%	100%	100%	100%
School	Lighting 2L4T12	Electric	100%	100%	100%	100%
School	Lighting 2L8T12	Electric	100%	100%	100%	100%
School	Lighting 4L4T8	Electric	100%	100%	100%	100%
School	Lighting 3L4T8	Electric	100%	100%	100%	100%
School	Lighting 2L4T8	Electric	100%	100%	100%	100%
School	Lighting INC40W	Electric	100%	100%	100%	100%
School	Lighting INC75W	Electric	100%	100%	100%	100%
School	Lighting INC150W	Electric	100%	100%	100%	100%
School	Water Heat	Electric	23%	23%	23%	23%
School	Refrigeration	Electric	100%	100%	100%	100%
School	Cooking	Electric	39%	39%	39%	39%
School	Plug Load	Electric	100%	100%	100%	100%
School	Other	Electric	100%	100%	100%	100%

Fuel Shares By Building Type, End-Use and Fuel (continued 2)

		-	Base Ava	Base Marg	Base Marg	Base Marg
Building Type	End-Use	Fuel	Base Avg Electric Share	Electric Share	Electric Share	Electric Share
				Existing	Conversion	New
Health	Space Heat	Electric	16%	16%	16%	16%
Health	Cooling Chillers	Electric	100%	100%	100%	100%
Health	Cooling DX	Electric	100%	100%	100%	100%
Health	Cooling HeatPump	Electric	100%	100%	100%	100%
Health	Ventilation	Electric	100%	100%	100%	100%
Health	Lighting 4L4T12	Electric	100%	100%	100%	100%
Health	Lighting 3L4T12	Electric	100%	100%	100%	100%
Health	Lighting 2L4T12	Electric	100%	100%	100%	100%
Health	Lighting 2L8T12	Electric	100%	100%	100%	100%
Health	Lighting 4L4T8	Electric	100%	100%	100%	100%
Health	Lighting 3L4T8	Electric	100%	100%	100%	100%
Health	Lighting 2L4T8	Electric	100%	100%	100%	100%
Health	Lighting INC40W	Electric	100%	100%	100%	100%
Health	Lighting INC75W	Electric	100%	100%	100%	100%
Health	Lighting INC150W	Electric	100%	100%	100%	100%
Health	Water Heat	Electric	23%	23%	23%	23%
Health	Refrigeration	Electric	100%	100%	100%	100%
Health	Cooking	Electric	43%	43%	43%	43%
Health	Plug Load	Electric	100%	100%	100%	100%
Health	Other	Electric	100%	100%	100%	100%
Lodging	Space Heat	Electric	66%	66%	66%	66%
Lodging	Cooling Chillers	Electric	100%	100%	100%	100%
Lodging	Cooling DX	Electric	100%	100%	100%	100%
Lodging	Cooling HeatPump	Electric	100%	100%	100%	100%
Lodging	Ventilation	Electric	100%	100%	100%	100%
Lodging	Lighting 4L4T12	Electric	100%	100%	100%	100%
Lodging	Lighting 3L4T12	Electric	100%	100%	100%	100%
Lodging	Lighting 2L4T12	Electric	100%	100%	100%	100%
Lodging	Lighting 2L8T12	Electric	100%	100%	100%	100%
Lodging	Lighting 4L4T8	Electric	100%	100%	100%	100%
Lodging	Lighting 3L4T8	Electric	100%	100%	100%	100%
Lodging	Lighting 2L4T8	Electric	100%	100%	100%	100%
Lodging	Lighting INC40W	Electric	100%	100%	100%	100%
Lodging	Lighting INC75W	Electric	100%	100%	100%	100%
Lodging	Lighting INC150W	Electric	100%	100%	100%	100%
Lodging	Water Heat	Electric	12%	12%	12%	12%
Lodging	Refrigeration	Electric	100%	100%	100%	100%
Lodging	Cooking	Electric	48%	48%	48%	48%
Lodging	Plug Load	Electric	100%	100%	100%	100%
Lodging	Other	Electric	100%	100%	100%	100%
Miscellaneous	Space Heat	Electric	10%	10%	10%	10%
Miscellaneous	Cooling Chillers	Electric	100%	100%	100%	100%
Miscellaneous	Cooling DX	Electric	100%	100%	100%	100%
Miscellaneous	Cooling HeatPump	Electric	100%	100%	100%	100%
Miscellaneous	Ventilation	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 4L4T12	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 3L4T12	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 2L4T12	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 2L8T12	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 4L4T8	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 3L4T8	Electric	100%	100%	100%	100%
Miscellaneous	Lighting 2L4T8	Electric	100%	100%	100%	100%
Miscellaneous	Lighting INC40W	Electric	100%	100%	100%	100%
Miscellaneous	Lighting INC75W	Electric	100%	100%	100%	100%
Miscellaneous	Lighting INC150W	Electric	100%	100%	100%	100%
Miscellaneous	Water Heat	Electric	50%	50%	50%	50%
Miscellaneous	Plug Load	Electric	100%	100%	100%	100%
Miscellaneous	Other	Electric	100%	100%	100%	100%

Efficiency Shares By Building Type, End-Use and Fuel

Building Type Grocery Grocery Grocery	End-Use Cooking	Fuel	Stock Efficiency	Standard Efficiency	High Efficiency	Premium Efficiency
Grocery Grocery	Cooking					
Grocery	0009	Electric	90%	10%		
•	Cooling Chillers	Electric	50%	40%	9%_	1%
	Cooling DX	Electric	50%	45%	5%	
Grocery	Cooling HeatPump	Electric	50%	45%	5%	
Grocery	Lighting 2L4T12	Electric	100%			
Grocery	Lighting 2L4T8	Electric	100%			
Grocery	Lighting 2L8T12	Electric	100%			
Grocery	Lighting 3L4T12	Electric	100%			
Grocery	Lighting 3L4T8	Electric	100%			
Grocery	Lighting 4L4T12	Electric	100%			
Grocery	Lighting 4L4T8	Electric	100%			
Grocery	Lighting INC150W	Electric	100%			
Grocery	Lighting INC40W	Electric	100%			
Grocery	Lighting INC75W	Electric	100%			
Grocery	Other	Electric	100%			
Grocery	Plug Load	Electric	90%	10%		
Grocery	Refrigeration	Electric	90%	10%		
Grocery	Space Heat	Electric	100%			
Grocery	Ventilation	Electric	50%	40%	9%	1%
Grocery	Water Heat	Electric	50%	45%	5%	
Grocery	Cooking	Gas	100%			
Grocery	Space Heat	Gas	100%			
Grocery	Water Heat	Gas	100%			
Health	Cooking	Electric	90%	10%		
Health	Cooling Chillers	Electric	50%	40%	9%_	1%
Health	Cooling DX	Electric	50%	45%	5%	
Health	Cooling HeatPump	Electric	50%	45%	5%	
Health	Lighting 2L4T12	Electric	100%			
Health	Lighting 2L4T8	Electric	100%			
Health	Lighting 2L8T12	Electric	100%			
Health	Lighting 3L4T12	Electric	100%			
Health	Lighting 3L4T8	Electric	100%			
Health	Lighting 4L4T12	Electric	100%			
Health	Lighting 4L4T8	Electric	100%			
Health	Lighting INC150W	Electric	100%			
Health	Lighting INC40W	Electric	100%			
Health	Lighting INC75W	Electric	100%			
Health	Other	Electric	100%			
Health	Plug Load	Electric	90%	10%		
Health	Refrigeration	Electric	90%	10%		
Health	Space Heat	Electric	100%			
Health	Ventilation	Electric	50%	40%	9%	1%
Health	Water Heat	Electric	50%	45%	5%	
Health	Cooking	Gas	100%			
Health	Space Heat	Gas	100%			
Health	Water Heat	Gas	100%			
Large Office	Cooling Chillers	Electric	50%	40%	9%	1%
Large Office	Cooling DX	Electric	50%	45%	5%	
Large Office	Cooling HeatPump	Electric	50%	45%	5%	
Large Office	Lighting 2L4T12	Electric	100%			
Large Office	Lighting 2L4T8	Electric	100%			
Large Office	Lighting 2L8T12	Electric	100%			
Large Office	Lighting 3L4T12	Electric	100%			
Large Office	Lighting 3L4T8	Electric	100%			
Large Office	Lighting 4L4T12	Electric	100%			
Large Office	Lighting 4L4T8	Electric	100%			
Large Office	Lighting INC150W	Electric	100%			
Large Office	Lighting INC40W	Electric	100%			
Large Office	Lighting INC75W	Electric	100%			
Large Office	Other	Electric	100%			
Large Office	Plug Load	Electric	90%	10%		
Large Office	Space Heat	Electric	100%	10 /0		
90 000	Ventilation	Electric	50%	40%	9%	1%
•		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JU /0	-TU /0	J /0	1 /0
Large Office		Flectric	50%	45%	5%	
•	Water Heat Space Heat	Electric Gas	50% 100%	45%	5%	

Efficiency Shares By Building Type, End-Use and Fuel

	Efficiency Sr	iaies by E	Building Type,	Liiu-Use and	u FUEI	
Building Type	End-Use	Fuel	Stock Efficiency	Standard Efficiency	High Efficiency	Premium Efficiency
Lodging	Cooking	Electric	90%	10%		
Lodging	Cooling Chillers	Electric	50%	40%	9%	1%
Lodging	Cooling DX	Electric	50%	45%	5%	
Lodging	Cooling HeatPump	Electric	50%	45%	5%	
Lodging	Lighting 2L4T12	Electric	100%			
Lodging	Lighting 2L4T8	Electric	100%			
Lodging	Lighting 2L8T12	Electric	100%			
Lodging	Lighting 3L4T12	Electric	100%			
Lodging	Lighting 3L4T8	Electric	100%			
Lodging	Lighting 4L4T12	Electric	100%			
Lodging	Lighting 4L4T8	Electric	100%			
Lodging Lodging	Lighting INC150W Lighting INC40W	Electric Electric	100% 100%			
Lodging	Lighting INC75W	Electric	100%			
Lodging	Other	Electric	100%			
Lodging	Plug Load	Electric	90%	10%		
Lodging	Refrigeration	Electric	90%	10%		
Lodging	Space Heat	Electric	100%	1070		
Lodging	Ventilation	Electric	50%	40%	9%	1%
Lodging	Water Heat	Electric	50%	45%	5%	
Lodging	Cooking	Gas	100%		0 70	
Lodging	Space Heat	Gas	100%			
Lodging	Water Heat	Gas	100%			
Miscellaneous	Cooling Chillers	Electric	50%	40%	9%	1%
Miscellaneous	Cooling DX	Electric	50%	45%	5%	
Miscellaneous	Cooling HeatPump	Electric	50%	45%	5%	
Miscellaneous	Lighting 2L4T12	Electric	100%			
Miscellaneous	Lighting 2L4T8	Electric	100%			
Miscellaneous	Lighting 2L8T12	Electric	100%			
Miscellaneous	Lighting 3L4T12	Electric	100%			
Miscellaneous	Lighting 3L4T8	Electric	100%			
Miscellaneous	Lighting 4L4T12	Electric	100%			
Miscellaneous	Lighting 4L4T8	Electric	100%			
Miscellaneous	Lighting INC150W	Electric	100%			
Miscellaneous	Lighting INC40W	Electric	100%			
Miscellaneous	Lighting INC75W	Electric	100%			
Miscellaneous	Other	Electric	100%			
Miscellaneous	Plug Load	Electric	90%	10%		
Miscellaneous	Space Heat	Electric	100%	100/		40/
Miscellaneous	Ventilation	Electric	50%	40%	9%	1%
Miscellaneous	Water Heat	Electric	50%	45%	5%	
Miscellaneous	Space Heat	Gas	100%			
Miscellaneous Restaurant	Water Heat	Gas Electric	100% 90%	10%		
Restaurant	Cooking Chillers		50%	40%	9%	1%
Restaurant	Cooling Chillers Cooling DX	Electric Electric	50%	45%	5%	1 70
Restaurant	Cooling HeatPump	Electric	50%	45%	5%	
Restaurant	Lighting 2L4T12	Electric	100%	45%	370	
Restaurant	Lighting 2L4T8	Electric	100%			
Restaurant	Lighting 2L8T12	Electric	100%			
Restaurant	Lighting 3L4T12	Electric	100%			
Restaurant	Lighting 3L4T8	Electric	100%			
Restaurant	Lighting 4L4T12	Electric	100%			
Restaurant	Lighting 4L4T8	Electric	100%			
Restaurant	Lighting INC150W	Electric	100%			
Restaurant	Lighting INC40W	Electric	100%			
Restaurant	Lighting INC75W	Electric	100%			
Restaurant	Other	Electric	100%			
Restaurant	Plug Load	Electric	90%	10%		
Restaurant	Refrigeration	Electric	90%	10%		
Restaurant	Space Heat	Electric	100%			
Restaurant	Ventilation	Electric	50%	40%	9%	1%
Restaurant	Water Heat	Electric	50%	45%	5%	
Restaurant	Cooking	Gas	100%			
	•					
Restaurant	Space Heat	Gas	100%			

Efficiency Shares By Building Type, End-Use and Fuel

Building Type	End-Use	Fuel	Stock Efficiency	Standard Efficiency	High Efficiency	Premium Efficiency
Retail	Cooling Chillers	Electric	50%	40%	9%	1%
Retail Retail	Cooling DX	Electric	50% 50%	45% 45%	5% 5%	
Retail	Cooling HeatPump Lighting 2L4T12	Electric Electric	100%	45%	3%	
Retail	Lighting 2L4T8	Electric	100%			
Retail	Lighting 2L8T12	Electric	100%			
Retail	Lighting 3L4T12	Electric	100%			
Retail	Lighting 3L4T8	Electric	100%			
Retail	Lighting 4L4T12	Electric	100%			
Retail	Lighting 4L4T8	Electric	100% 100%			
Retail Retail	Lighting INC150W Lighting INC40W	Electric Electric	100%			
Retail	Lighting INC75W	Electric	100%			
Retail	Other	Electric	100%			
Retail	Plug Load	Electric	90%	10%		
Retail	Space Heat	Electric	100%			
Retail	Ventilation	Electric	50%	40%	9%	1%
Retail	Water Heat	Electric	50%	45%	5%	
Retail	Space Heat	Gas	100%			
Retail	Water Heat	Gas	100%	400/		
School	Cooking Chillers	Electric	90%	10%	9%	10/
School School	Cooling Chillers	Electric	50%	40%	9% 5%	1%
School	Cooling DX Cooling HeatPump	Electric Electric	50% 50%	45% 45%	5% 5%	
School	Lighting 2L4T12	Electric	100%	45%	370	
School	Lighting 2L4T12	Electric	100%			
School	Lighting 2L8T12	Electric	100%			
School	Lighting 3L4T12	Electric	100%			
School	Lighting 3L4T8	Electric	100%			
School	Lighting 4L4T12	Electric	100%			
School	Lighting 4L4T8	Electric	100%			
School	Lighting INC150W	Electric	100%			
School	Lighting INC40W	Electric	100%			
School	Lighting INC75W	Electric	100%			
School	Other	Electric	100%			
School	Plug Load	Electric	90%	10%		
School	Refrigeration	Electric	90%	10%		
School	Space Heat	Electric	100%	400/	00/	4.0/
School School	Ventilation Water Heat	Electric Electric	50% 50%	40% 45%	9% 5%	1%
School	Cooking	Gas	100%	45 /6	370	
School	Space Heat	Gas	100%			
School	Water Heat	Gas	100%			
Small Office	Cooling Chillers	Electric	50%	40%	9%	1%
Small Office	Cooling DX	Electric	50%	45%	5%	
Small Office	Cooling HeatPump	Electric	50%	45%	5%	
Small Office	Lighting 2L4T12	Electric	100%			
Small Office	Lighting 2L4T8	Electric	100%			
Small Office	Lighting 2L8T12	Electric	100%			
Small Office	Lighting 3L4T12	Electric	100%			
Small Office	Lighting 3L4T8	Electric	100%			
Small Office Small Office	Lighting 4L4T12 Lighting 4L4T8	Electric Electric	100% 100%			
Small Office	Lighting INC150W	Electric	100%			
Small Office	Lighting INC40W	Electric	100%			
Small Office	Lighting INC75W	Electric	100%			
Small Office	Other	Electric	100%			
Small Office	Plug Load	Electric	90%	10%		
Small Office	Space Heat	Electric	100%			
Small Office	Ventilation	Electric	50%	40%	9%	1%
Small Office	Water Heat	Electric	50%	45%	5%	
Small Office	Space Heat	Gas	100%			
Small Office	Water Heat	Gas	100%	1001		
Warehouse	Cooling Chillers	Electric	50%	40%	9%	1%
Warehouse	Cooling DX	Electric	50%	45%	5%	
Warehouse Warehouse	Cooling HeatPump	Electric	50% 100%	45%	5%	
Warehouse	Lighting 2L4T12 Liahtina 2L4T8	Electric Electric	100% 100%			
Warehouse	Lighting 2L8T12	Electric	100%			
Warehouse	Lighting 3L4T12	Electric	100%			
Warehouse	Lighting 3L4T8	Electric	100%			
Warehouse	Lighting 4L4T12	Electric	100%			
Warehouse	Lighting 4L4T8	Electric	100%			
Warehouse	Lighting INC150W	Electric	100%			
Warehouse	Lighting INC40W	Electric	100%			
Warehouse	Lighting INC75W	Electric	100%			
Warehouse	Other	Electric	100%			
Warehouse	Plug Load	Electric	90%	10%		
Warehouse	Refrigeration	Electric	90%	10%		
Warehouse	Space Heat	Electric	100%			
Warehouse	Ventilation	Electric	50%	40%	9%	1%
Warehouse	Water Heat	Electric	50%	45%	5%	
Warehouse	Space Heat	Gas	100%			
Warehouse	Water Heat	Gas	100%			

EUIs by Building Type, End-Use and Fuel

Building Type End-Use Fuel Stock EUI Standard EUI Stock Eff Small_Office Space_Heat Electric 6.18 6.18 1 Small_Office Cooling_Chillers Electric 4.19 3.56 0.85 Small_Office Cooling_DX Electric 4.19 3.77 0.9 Small_Office Cooling_HeatPump Electric 4.19 3.77 0.9 Small_Office Ventilation Electric 1.43 1.43 1 Small_Office Lighting_4L4T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T8 Electric 5.29 5.29 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1	Standard Eff 1 1 1 1 1 1 1 1 1
Small_Office Space_Heat Electric 6.18 6.18 1 Small_Office Cooling_Chillers Electric 4.19 3.56 0.85 Small_Office Cooling_DX Electric 4.19 3.77 0.9 Small_Office Cooling_HeatPump Electric 4.19 3.77 0.9 Small_Office Ventilation Electric 1.43 1.43 1 Small_Office Lighting_4L4T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 5.29 5.29 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_1NC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1	1 1 1 1
Small_Office Cooling_Chillers Electric 4.19 3.56 0.85 Small_Office Cooling_DX Electric 4.19 3.77 0.9 Small_Office Cooling_HeatPump Electric 4.19 3.77 0.9 Small_Office Ventilation Electric 1.43 1.43 1 Small_Office Lighting_4L4T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 5.29 5.29 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_1NC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1 1 1
Small_Office Cooling_HeatPump Electric 4.19 3.77 0.9 Small_Office Ventilation Electric 1.43 1.43 1 Small_Office Lighting_4L4T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 5.29 5.29 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_2L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1 1
Small_Office Ventilation Electric 1.43 1.43 1 Small_Office Lighting_4L4T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L4T12 Electric 5.29 5.29 1 Small_Office Lighting_12L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 4.24 4.24 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_1NC40W Electric 5.29 5.29 1 Small_Office Lighting_1NC75W Electric 5.29 5.29 1 Small_Office Lighting_1NC150W Electric 5.29 5.29 1	1
Small_Office Lighting_4L4T12 Electric 5.29 5.29 1 Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 4.24 4.24 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_1NC40W Electric 4.24 4.24 1 Small_Office Lighting_1NC75W Electric 5.29 5.29 1 Small_Office Lighting_1NC150W Electric 5.29 5.29 1	
Small_Office Lighting_3L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 4.24 4.24 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_1NC40W Electric 4.24 4.24 1 Small_Office Lighting_1NC75W Electric 5.29 5.29 1 Small_Office Lighting_1NC150W Electric 5.29 5.29 1	1
Small_Office Lighting_2L4T12 Electric 5.29 5.29 1 Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 4.24 4.24 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	
Small_Office Lighting_2L8T12 Electric 5.29 5.29 1 Small_Office Lighting_4L4T8 Electric 4.24 4.24 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_2L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Small_Office Lighting_4L4T8 Electric 4.24 4.24 1 Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_2L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Small_Office Lighting_3L4T8 Electric 4.24 4.24 1 Small_Office Lighting_2L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Small_Office Lighting_2L4T8 Electric 4.24 4.24 1 Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Small_Office Lighting_INC40W Electric 5.29 5.29 1 Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Small_Office Lighting_INC75W Electric 5.29 5.29 1 Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Small_Office Lighting_INC150W Electric 5.29 5.29 1	1
Const. Office Water Heat Floats's 0.05 0.00	1
Small_Office Water_Heat Electric 0.95 0.90 0.95	1
Small_Office Plug_Load Electric 1.59 1.59 1	1
Small_Office Other Electric 0.00 0.00 1	1
Large_Office Space_Heat Electric 6.18 6.18 1	1
Large_Office Cooling_Chillers Electric 4.19 3.56 0.85	1
Large_Office Cooling_DX Electric 4.19 3.77 0.9	1
Large_Office Cooling_HeatPump Electric 4.19 3.77 0.9 Large_Office Ventilation Electric 1.43 1.43 1	1
1 3 = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Large_Office Lighting_4L4T12 Electric 5.29 5.29 1 Large_Office Lighting_3L4T12 Electric 5.29 5.29 1	1
Large_Office Lighting_2L4T12 Electric 5.29 5.29 1	1
Large_Office Lighting_2L8T12 Electric 5.29 5.29 1	1
Large_Office Lighting_4L4T8 Electric 4.24 4.24 1	1
Large_Office Lighting_3L4T8 Electric 4.24 4.24 1	1
Large_Office Lighting_2L4T8 Electric 4.24 4.24 1	1
Large_Office Lighting_INC40W Electric 5.29 5.29 1	1
Large_Office Lighting_INC75W Electric 5.29 5.29 1	1
Large_Office Lighting_INC150W Electric 5.29 5.29 1	1
Large_Office Water_Heat Electric 0.95 0.90 0.95	1
Large_Office Plug_Load Electric 1.59 1.59 1	1
Large_Office Other Electric 0.00 0.00 1	1
Restaurant Space_Heat Electric 3.76 3.76 1	1
Restaurant Cooling_Chillers Electric 4.49 3.82 0.85 Restaurant Cooling_DX Electric 4.49 4.04 0.9	1
Restaurant Cooling_DX Electric 4.49 4.04 0.9 Restaurant Cooling HeatPump Electric 4.49 4.04 0.9	1
Restaurant Ventilation Electric 2.75 2.75 1	1
Restaurant Lighting_4L4T12 Electric 8.74 8.74 1	1
Restaurant Lighting_3L4T12 Electric 8.74 8.74 1	1
Restaurant Lighting_2L4T12 Electric 8.74 8.74 1	1
Restaurant Lighting_2L8T12 Electric 8.74 8.74 1	1
Restaurant Lighting_4L4T8 Electric 6.99 6.99 1	1
Restaurant Lighting_3L4T8 Electric 6.99 6.99 1	1
Restaurant Lighting_2L4T8 Electric 6.99 6.99 1	1
Restaurant Lighting_INC40W Electric 8.74 8.74 1	1
Restaurant Lighting_INC75W Electric 8.74 8.74 1	1
Restaurant Lighting_INC150W Electric 8.74 8.74 1	1
Restaurant Water_Heat Electric 9.19 8.73 0.95 Restaurant Refrigeration Electric 7.67 7.67 1	1 1
Restaurant Refrigeration Electric 7.67 7.67 1 Restaurant Cooking Electric 25.07 25.07 1	1
Restaurant Plug_Load Electric 0.23 0.23 1	1 1
Restaurant Other Electric 0.00 0.00 1	1
Retail Space_Heat Electric 4.59 4.59 1	1 1
Retail Cooling Chillers Electric 3.14 2.67 0.85	1
Retail Cooling_DX Electric 3.14 2.83 0.9	1 1 1 1
Retail Cooling_HeatPump Electric 3.14 2.83 0.9	1
Retail Ventilation Electric 1.39 1.39 1	1
Retail Lighting_4L4T12 Electric 5.89 5.89 1	1
Retail Lighting_3L4T12 Electric 5.89 5.89 1	1 1 1
Retail Lighting_2L4T12 Electric 5.89 5.89 1	1
Retail Lighting_2L8T12 Electric 5.89 5.89 1	1
Retail Lighting_4L4T8 Electric 4.71 4.71 1	1 1 1
Retail Lighting_3L4T8 Electric 4.71 4.71 1 Retail Lighting_2L4T8 Electric 4.71 4.71 1	1
0 0=	1
Retail Lighting_INC40W Electric 5.89 5.89 1 Retail Lighting_INC75W Electric 5.89 5.89 1	1 1
Retail Lighting_INC150W Electric 5.89 5.89 1	1
Retail Water_Heat Electric 1.01 0.96 0.95	1 1
	1
Retail Plug_Load Electric 0.15 0.15 1	1

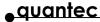
EUIs by Building Type, End-Use and Fuel

Building Type	End-Use	Fuel	Stock	d-Use and Fu Standard	Stock Eff	Standard Eff
	Space Heat	Electric	EUI 5.42	EUI 5.42	1	1
Grocery Grocery	Cooling_Chillers	Electric	4.10	3.49	0.85	1
Grocery	Cooling DX	Electric	4.10	3.69	0.9	1
Grocery	Cooling HeatPump		4.10	3.69	0.9	1
Grocery	Ventilation	Electric	2.52	2.52	1	1
Grocery	Lighting_4L4T12	Electric	12.76	12.76	1	1
Grocery	Lighting_3L4T12	Electric	12.76	12.76	1	1
Grocery	Lighting_2L4T12	Electric	12.76	12.76	1	1
Grocery	Lighting_2L8T12	Electric	12.76	12.76	1	1
Grocery	Lighting_4L4T8	Electric	10.21	10.21	1	1
Grocery	Lighting_3L4T8	Electric	10.21	10.21	1	1
Grocery	Lighting_2L4T8	Electric	10.21	10.21	1	1
Grocery	Lighting_INC40W	Electric	12.76	12.76	1	1
Grocery	Lighting_INC75W	Electric	12.76	12.76	1	1
Grocery	Lighting_INC150W	Electric	12.76 2.40	12.76 2.28	1 0.95	1
Grocery Grocery	Water_Heat Refrigeration	Electric Electric	28.13	28.13	0.95	1
Grocery	Cooking	Electric	7.31	7.31	1	1
Grocery	Plug_Load	Electric	0.41	0.41	1	1
Grocery	Other	Electric	0.00	0.00	1	1
Warehouse	Space Heat	Electric	4.02	4.02	1	1
Warehouse	Cooling_Chillers	Electric	1.66	1.42	0.85	1
Warehouse	Cooling_DX	Electric	1.66	1.50	0.9	1
Warehouse	Cooling_HeatPump		1.66	1.50	0.9	1
Warehouse	Ventilation	Electric	0.77	0.77	1	1
Warehouse	Lighting_4L4T12	Electric	2.94	2.94	1	1
Warehouse	Lighting_3L4T12	Electric	2.94	2.94	1	1
Warehouse	Lighting_2L4T12	Electric	2.94	2.94	1	1
Warehouse	Lighting_2L8T12	Electric	2.94	2.94	1	1
Warehouse	Lighting_4L4T8	Electric	2.36	2.36	1	1
Warehouse	Lighting_3L4T8	Electric	2.36	2.36	1	1
Warehouse	Lighting_2L4T8	Electric	2.36	2.36	1	1
Warehouse	Lighting_INC40W	Electric	2.94	2.94	1	1
Warehouse	Lighting_INC75W	Electric	2.94	2.94	1	1
Warehouse Warehouse	Lighting_INC150W Water Heat	Electric Electric	2.94 0.42	2.94 0.40	0.95	1
Warehouse	Refrigeration	Electric	10.45	10.45	0.95	1
Warehouse	Plug Load	Electric	0.15	0.15	1	1
Warehouse	Other	Electric	0.00	0.00	1	1
School	Space Heat	Electric	2.77	2.77	1	1
School	Cooling_Chillers	Electric	1.51	1.28	0.85	1
School	Cooling DX	Electric	1.51	1.36	0.9	1
School	Cooling_HeatPump	Electric	1.51	1.36	0.9	1
School	Ventilation	Electric	0.77	0.77	1	1
School	Lighting_4L4T12	Electric	2.68	2.68	1	1
School	Lighting_3L4T12	Electric	2.68	2.68	1	1
School	Lighting_2L4T12	Electric	2.68	2.68	1	1
School	Lighting_2L8T12	Electric	2.68	2.68	1	1
School	Lighting_4L4T8	Electric	2.14	2.14	1	1
School	Lighting_3L4T8	Electric	2.14	2.14	1	1
School	Lighting_2L4T8	Electric	2.14	2.14	1	1
School	Lighting_INC40W	Electric	2.68	2.68	1	1
School	Lighting_INC75W	Electric	2.68	2.68	1	1
School	Lighting_INC150W Water_Heat	Electric	2.68 0.90	2.68 0.85	0.95	1
School School	Refrigeration	Electric Electric	0.48	0.65	0.95	1
School	Cooking	Electric	1.21	1.21	1	1
School	Plug Load	Electric	0.11	0.11	1	1
School	Other	Electric	0.00	0.00	1	1
Health	Space_Heat	Electric	4.96	4.96	1	1
Health	Cooling Chillers	Electric	3.36	2.86	0.85	1
Health	Cooling_DX	Electric	3.36	3.02	0.9	1
Health	Cooling_HeatPump	Electric	3.36	3.02	0.9	1
Health	Ventilation	Electric	3.58	3.58	1	1
Health	Lighting_4L4T12	Electric	10.77	10.77	1	1
Health	Lighting_3L4T12	Electric	10.77	10.77	1	1
Health	Lighting_2L4T12	Electric	10.77	10.77	1	1
Health	Lighting_2L8T12	Electric	10.77	10.77	1	1
Health	Lighting_4L4T8	Electric	8.62	8.62	1	1
Health	Lighting_3L4T8	Electric	8.62	8.62	1	1
Health	Lighting_2L4T8	Electric	8.62	8.62	1	1
Health	Lighting_INC40W	Electric	10.77	10.77	1	1
Health	Lighting_INC75W	Electric	10.77	10.77	1	1
Health	Lighting_INC150W	Electric	10.77	10.77	1	1
Health Health	Water_Heat	Electric	2.27	2.16	0.95	
	Refrigeration	Electric	0.65	0.65	1	1
	Cooking	FIGCTIC				
Health Health	Cooking Plug Load	Electric Electric	4.33 0.52	4.33 0.52	1	1

EUIs by Building Type, End-Use and Fuel

	EUIS D	y Bullain		d-Use and Fu	eı	
Building Type	End-Use	Fuel	Stock EUI	Standard EUI	Stock Eff	Standard Eff
Lodging	Space_Heat	Electric	2.54	2.54	1	1
Lodging	Cooling_Chillers	Electric	2.83	2.41	0.85	1
Lodging	Cooling_DX	Electric	2.83	2.55	0.9	1
Lodging	Cooling_HeatPump	Electric	2.83	2.55	0.9	1
Lodging	Ventilation	Electric	1.20	1.20	1	1
Lodging	Lighting_4L4T12	Electric	3.01	3.01	1	1
Lodging	Lighting_3L4T12	Electric	3.01	3.01	1	1
Lodging	Lighting_2L4T12	Electric	3.01	3.01	1	1
Lodging	Lighting 2L8T12	Electric	3.01	3.01	1	1
Lodging	Lighting 4L4T8	Electric	2.41	2.41	1	1
Lodging	Lighting 3L4T8	Electric	2.41	2.41	1	1
Lodging	Lighting_2L4T8	Electric	2.41	2.41	1	1
Lodging	Lighting_INC40W	Electric	3.01	3.01	1	1
Lodging	Lighting_INC75W	Electric	3.01	3.01	1	1
Lodging	Lighting_INC150W	Electric	3.01	3.01	1	1
Lodging	Water_Heat	Electric	2.79	2.65	0.95	1
Lodging	Refrigeration	Electric	0.54	0.54	1	1
Lodging	Cooking	Electric	4.32	4.32	1	1
Lodging	Plug_Load	Electric	0.10	0.10	1	1
Lodging	Other	Electric	0.00	0.00	1	1
Miscellaneous	Space Heat	Electric	2.76	2.76	1	1
Miscellaneous	Cooling_Chillers	Electric	2.39	2.03	0.85	1
Miscellaneous	Cooling_DX	Electric	2.39	2.15	0.9	1
Miscellaneous	Cooling HeatPump	Electric	2.39	2.15	0.9	1
Miscellaneous	Ventilation	Electric	0.94	0.94	1	1
Miscellaneous	Lighting 4L4T12	Electric	2.12	2.12	1	1
Miscellaneous	Lighting_3L4T12	Electric	2.12	2.12	1	1
Miscellaneous	Lighting_2L4T12	Electric	2.12	2.12	1	1
Miscellaneous	Lighting_2L8T12	Electric	2.12	2.12	1	1
Miscellaneous	Lighting_4L4T8	Electric	1.70	1.70	1	1
Miscellaneous	Lighting_3L4T8	Electric	1.70	1.70	1	1
Miscellaneous	Lighting_2L4T8	Electric	1.70	1.70	1	1
Miscellaneous	Lighting INC40W	Electric	2.12	2.12	1	1
Miscellaneous	Lighting_INC75W	Electric	2.12	2.12	1	1
Miscellaneous	Lighting INC150W	Electric	2.12	2.12	1	1
Miscellaneous	Water_Heat	Electric	1.65	1.57	0.95	1
Miscellaneous	Plug_Load	Electric	1.00	1.00	1	1
Miscellaneous	Other	Electric	0.00	0.00	1	1
Small Office	Space Heat	Gas	57.20	57.20	1	1
Small_Office	Water_Heat	Gas	5.88	5.88	1	1
Large_Office	Space_Heat	Gas	57.20	57.20	1	1
Large_Office	Water_Heat	Gas	5.88	5.88	1	1
Restaurant	_	Gas	47.98	47.98	1	1
Restaurant	Space_Heat Water_Heat	Gas	78.51	78.51	1	1
Restaurant	Cooking	Gas	132.36	132.36	1	1
Retail	Space_Heat	Gas	53.33	53.33	1	1
Retail	Water_Heat	Gas	8.20	8.20	1	1
Grocery	Space_Heat	Gas	89.38	89.38	1	1
,	· —	Gas		27.31	1	1
Grocery	Water_Heat		27.31			1
Grocery Warehouse	Cooking	Gas	50.64 55.82	50.64 55.82	1	1
Warehouse	Space_Heat	Gas	3.63	55.82 3.63	1	1
School	Water_Heat	Gas Gas		3.63 49.16	1	1 1
School	Space_Heat		49.16 10.76	49.16 10.76	1	1
	Water_Heat	Gas	10.76 8.76	8.76	1	
School	Cooking	Gas			1	1 1
Health	Space_Heat	Gas	112.32	112.32		1
Health	Water_Heat	Gas	41.82	41.82	1	1
Health	Cooking	Gas	49.15	49.15	1	1
Lodging	Space_Heat	Gas	47.05	47.05	1	1
Lodging	Water_Heat	Gas	34.69	34.69	1	1
Lodging	Cooking	Gas	31.96	31.96	1	1
Miscellaneous	Space_Heat	Gas	42.05	42.05	1	1
Miscellaneous	Water_Heat	Gas	11.87	11.87	1	1

Appendix B. Residential and Commercial Measures



Area Bu	ilding Type	e End-Use	Fuel Efficie	ncy Vintage	EUI Measure Names	Energy Fu Savings	II Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost		Stand Alone Cost Group	
MPS Gro		Cooling_Chillers Cooling_Chillers	Electric Stock	Existing Existina	4.1 EMS Optimization 4.1 Two-Speed Cooling Tower, 300 Tons	1.0% \$ 14.0% \$	0.01	5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.041 0.574	4.10 4.07	0.03 0.26	0.04 0.57	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Gro	cery	Cooling_Chillers	Electric Stock	Existing	4.1 High Efficiency Windows, Low-e; U=0.35	5.4% \$	0.03	30	75.0%	100.0%	75.0%	0.221	3.81	0.15	0.21	\$0.01	\$0.01	Α	Α
MPS Gro MPS Gro		Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	4.1 VSD Cooling Tower, 300 Tons 4.1 Insulation of Pines	18.0% \$ 1.0% \$	0.08	15 20	50.0% 50.0%	90.0% 50.0%	45.0% 25.0%	0.738 0.041	3.66 3.36	0.30 0.01	0.66 0.03	\$0.01 \$0.02	\$0.01 \$0.03	A A	A A
MPS Gro	cery	Cooling_Chillers	Electric Stock	Existing	4.1 Installation of Energy Management Systems	10.0% \$	0.20	10	50.0%	100.0%	50.0%	0.410	3.35	0.17	0.34	\$0.08	\$0.09	Ê	Ê
MPS Gro MPS Gro		Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	 4.1 Primary/Secondary De-coupled Chilled Water System 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	12.0% \$ 10.0% \$	0.49 0.32	15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.492 0.410	3.19 3.03	0.15 0.15	0.38	\$0.12 \$0.12	\$0.16 \$0.17	F	F F
MPS Gro MPS Gro		Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	4.1 Installation of Chiller Economizers (water side) 4.1 Chiller Tune-Up / Diagnostics	10.0% \$ 5.0% \$	0.59 0.12	20 5	50.0% 100.0%	100.0% 90.0%	50.0% 90.0%	0.410 0.205	2.88 2.74	0.14 0.12	0.29 0.14	\$0.15 \$0.16	\$0.22 \$0.24	F	F
MPS Gro	cery	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing	4.1 Optimize Chilled Water and Condenser Water Settings	5.0% \$	0.21	10	33.0%	50.0%	16.5%	0.205	2.61	0.02	0.13	\$0.17	\$0.26	F	F
MPS Gro MPS Gro		Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	4.1 Ceiling R-0 to R-19 Insulation 4.1 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$	0.24 0.24	20 20	50.0% 50.0%	20.0% 20.0%	10.0% 10.0%	0.086	2.59 2.59	0.01	0.05 0.02	\$0.30 \$0.69	\$0.47 \$1.10	F	F
MPS Gro	cery	Cooling_DX	Electric Stock	Existing	4.1 Duct Insulation	3.0% \$	0.01	20	25.0%	25.0%	6.3%	0.123	4.10	0.01	0.12	\$0.01	\$0.01	A	A
MPS Gro MPS Gro		Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	4.1 Clock / Programmable Thermostat 4.1 High Efficiency Windows, Low-e; U=0.35	10.0% \$ 5.0% \$	0.07 0.07	10 30	100.0% 75.0%	84.7% 100.0%	84.7% 75.0%	0.410 0.205	4.09 3.75	0.35 0.14	0.41 0.19	\$0.03 \$0.03	\$0.03 \$0.03	A B	A B
MPS Gro MPS Gro		Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	4.1 Duct Repair and Sealing 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	1.0% \$ 10.0% \$	0.04	20 10	25.0% 50.0%	50.0% 100.0%	12.5% 50.0%	0.041 0.410	3.61 3.60	0.00 0.18	0.04 0.36	\$0.10 \$0.12	\$0.12 \$0.14	F	F
MPS Gro	cery	Cooling_DX	Electric Stock	Existing	4.1 Installation of Air Side Economizers	15.0% \$	0.59	10	100.0%	98.6%	98.6%	0.615	3.42	0.51	0.51	\$0.15	\$0.18	F	F
MPS Gro MPS Gro		Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	4.1 DX Tune-Up / Diagnostics 4.1 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$	0.25 0.24	3 20	100.0% 50.0%	90.0% 20.0%	90.0% 10.0%	0.410 0.086	2.91 2.65	0.26 0.01	0.29 0.06	\$0.26 \$0.30	\$0.37 \$0.46	F F	F F
MPS Gro	cery	Cooling_DX	Electric Stock	Existing	4.1 Ceiling R-19 to R-38 Insulation	0.9% \$	0.24	20	50.0%	20.0%	10.0%	0.037	2.65	0.00	0.02	\$0.69	\$1.07	F	F
MPS Gro MPS Gro		Cooling_HeatPump Cooling_HeatPump		Existing Existing	4.1 Duct Insulation 4.1 Clock / Programmable Thermostat	3.0% \$ 10.0% \$	0.01 0.07	20 10	25.0% 100.0%	25.0% 84.7%	6.3% 84.7%	0.123 0.410	4.10 4.09	0.01 0.35	0.12 0.41	\$0.01 \$0.03	\$0.01 \$0.03	A	A A
MPS Gro MPS Gro		Cooling_HeatPump Cooling_HeatPump	Electric Stock Electric Stock	Existing Existing	4.1 High Efficiency Windows, Low-e; U=0.35 4.1 Duct Repair and Sealing	5.0% \$ 1.0% \$	0.07	30 20	75.0% 25.0%	100.0% 50.0%	75.0% 12.5%	0.205 0.041	3.75 3.61	0.14	0.19 0.04	\$0.03 \$0.10	\$0.03 \$0.12	B	В
MPS Gro	cery	Cooling_HeatPump	Electric Stock	Existing	4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.32	10	50.0%	100.0%	50.0%	0.410	3.60	0.18	0.36	\$0.12	\$0.14	F	F
MPS Gro MPS Gro		Cooling_HeatPump Cooling_HeatPump		Existing Existing	4.1 Installation of Air Side Economizers 4.1 DX Tune-Up / Diagnostics	15.0% \$ 10.0% \$	0.59 0.25	10 3	100.0% 100.0%	98.6% 90.0%	98.6% 90.0%	0.615 0.410	3.42 2.91	0.51 0.26	0.51 0.29	\$0.15 \$0.26	\$0.18 \$0.37	F F	F F
MPS Gro	cery	Cooling_HeatPump	Electric Stock	Existing	4.1 Ceiling R-0 to R-19 Insulation	2.1% \$	0.24	20	50.0%	20.0%	10.0%	0.086	2.65	0.01	0.06	\$0.30	\$0.46	F	F
MPS Gro MPS Gro		Cooling_HeatPump Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	4.1 Ceiling R-19 to R-38 Insulation 12.76 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% \$ 30.0% \$	0.24 0.45	20 7	50.0% 10.0%	20.0% 100.0%	10.0% 10.0%	0.037 3.828	2.65 12.76		0.02 3.83	\$0.69 \$0.02	\$1.07 \$0.02	F A	F A
MPS Gro MPS Gro		Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	12.76 4' 1L T8 Premium, EB, reflector 12.76 4' 2L T8 Premium. EB	61.1% \$ 25.0% \$	1.55 0.76	12 12	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	7.798 3.190	12.76 12.76	2.60 1.06	7.80 3.19	\$0.03 \$0.03	\$0.03 \$0.03	A B	A B
MPS Gro	cery	Lighting_2L4T12	Electric Stock	Existing	12.76 4' 1L T5HO, EB	13.9% \$	0.58	12	33.3%	100.0%	33.3%	1.774	12.76	0.59	1.77	\$0.05	\$0.05	c	С
MPS Gro MPS Gro		Lighting_2L4T12 Lighting_2L4T8	Electric Stock Electric Stock	Existing Existing	12.76 Continuous Dimming, 10-4' Fluorescent Fixtures 10.21 Occupancy Sensor. 8-4' Fluorescent Fixtures	75.0% \$ 30.0% \$	3.75 0.45	8 7	26.0% 10.0%	100.0% 100.0%	26.0% 10.0%	9.570 3.063	12.76 10.21	2.49 0.31	9.57 3.06	\$0.07 \$0.03	\$0.07 \$0.03	D B	D B
MPS Gro		Lighting_2L4T8	Electric Stock	Existing	10.21 4' 2L T8 Premium, EB	8.5% \$	0.26	12	100.0%	100.0%	100.0%	0.868	10.21	0.87	0.87	\$0.04	\$0.04	В	В
MPS Gro MPS Gro		Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	12.76 8' 2L T8, EB 12.76 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$	0.37 0.82	12 12	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	6.737 7.056	12.76 12.76	3.37 1.76	6.74 7.06	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Gro MPS Gro		Lighting_2L8T12 Lighting_2L8T12	Electric Stock	Existing Existing	12.76 8' 2L T12, 60W, EB 12.76 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% \$ 30.0% \$	0.18 0.56	12 7	25.0% 10.0%	54.2% 100.0%	13.6% 10.0%	1.349 3.828	12.76 12.76		1.35 3.83	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
MPS Gro	cery	Lighting_2L8T12	Electric Stock	Existing	12.76 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0% \$	4.24	8	26.0%	100.0%	26.0%	9.570	12.76	2.49	9.57	\$0.08	\$0.08	E	E
MPS Gro MPS Gro		Lighting_3L4T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing Existing	12.76 4' 1L T5HO, EB 12.76 4' 3L T8, EB	46.1% \$ 22.6% \$	0.06 0.06	12 12	75.0% 75.0%	100.0% 100.0%	75.0% 75.0%	5.881 2.885	12.76 12.76	4.41 2.16	5.88 2.88	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Gro MPS Gro	cery	Lighting_3L4T12	Electric Stock	Existing Existing	12.76 4' 2L T8 Premium, EB, reflector 12.76 4' 3L T8 Premium. EB	53.0% \$ 22.6% \$	0.35 0.16	12 12	40.0% 75.0%	100.0% 100.0%	40.0% 75.0%	6.768 2.885	12.76 12.76	2.71	6.77 2.88	\$0.01 \$0.01	\$0.01 \$0.01	A	A
MPS Gro	cery	Lighting_3L4T12 Lighting_3L4T8	Electric Stock	Existing	12.76 4 3L 18 Premium, EB 10.21 4' 3L T8 Premium, EB	6.7% \$	0.16	12	100.0%	100.0%	100.0%	0.684	10.21	0.68	0.68	\$0.01	\$0.01	A E	A E
MPS Gro MPS Gro		Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	12.76 4' 3L T8, EB 12.76 4' 3L T8 Premium. EB	38.2% \$ 42.4% \$	0.10 0.31	12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	4.874 5.405	12.76 12.76	0.81 0.90	4.87 5.41	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
MPS Gro	cery	Lighting_4L4T12	Electric Stock	Existing	12.76 4' 4L T8, EB	22.2% \$	0.20	12	16.7%	100.0%	16.7%	2.836	12.76	0.47	2.84	\$0.01	\$0.01	Α	Α
MPS Gro MPS Gro		Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	12.76 4' 2L T8 Premium, EB, reflector 12.76 4' 2L T5HO, EB	62.5% \$ 18.8% \$	0.74 0.29	12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	7.975 2.393	12.76 12.76	1.33 0.40	7.98 2.39	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Gro	cery	Lighting_4L4T12	Electric Stock	Existing	12.76 4' 4L T8 Premium, EB	25.0% \$	0.49	12	16.7%	100.0%	16.7%	3.190	12.76	0.53	3.19	\$0.02	\$0.02	A	Α
MPS Gro MPS Gro		Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	12.76 Occupancy Sensor, 4-4' Fluorescent Fixtures 12.76 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% \$ 75.0% \$	0.52 3.90	7 8	10.0% 26.0%	100.0% 100.0%	10.0% 26.0%	3.828 9.570	12.76 12.76		3.83 9.57	\$0.03 \$0.08	\$0.03 \$0.08	A E	A E
MPS Gro		Lighting_4L4T8 Lighting_4L4T8	Electric Stock Electric Stock	Existing Existing	10.21 Occupancy Sensor, 4-4' Fluorescent Fixtures 10.21 4' 4L T8 Premium. EB	30.0% \$ 3.6% \$	0.52	7 12	10.0% 100.0%	100.0% 100.0%	10.0% 100.0%	3.063 0.368	10.21 10.21	0.31	3.06 0.37	\$0.03 \$0.11	\$0.03 \$0.11	B	B
MPS Gro	cery	Lighting_INC150W	Electric Stock	Existing	12.76 Halogen PAR Flood, 90W	40.0% \$	0.33	1	10.0%	99.6%	10.0%	5.104	12.76	0.51	5.10	\$0.08	\$0.08	Ē	E
MPS Gro MPS Gro		Lighting_INC150W Lighting_INC150W	Electric Stock Electric Stock	Existing Existing	12.76 HPS, 50W 12.76 Metal Halide, 50W	56.0% \$ 52.0% \$	8.99 17.62	4	45.0% 45.0%	94.3% 94.3%	42.4% 42.4%	7.146 6.635	12.76 12.76		7.15 6.64	\$0.41 \$0.87	\$0.41 \$0.87	F F	F F
MPS Gro	cery	Lighting_INC40W	Electric Stock	Existing	12.76 LED Exit Signs	80.0% \$	0.05	20	90.0%	90.0%	81.0%	10.208	12.76	8.27	10.21	\$0.00	\$0.00	A	A
MPS Gro MPS Gro		Lighting_INC75W Plug_Load	Electric Stock Electric Stock	Existing Existing	12.76 CFL Screw-in, Modular 18W 0.41 Smart Networks	65.3% \$ 6.6% \$	2.36 0.00	3 4	90.0% 90.0%	95.4% 40.0%	85.8% 36.0%	8.332 0.027	12.76 0.41	7.15 0.01	8.33 0.03	\$0.12 \$0.01	\$0.12 \$0.01	A	A
MPS Gro MPS Gro		Plug_Load Plug Load	Electric Stock Electric Stock	Existing Existing	0.41 ENERGY STAR or Better Office Equipment: Monitors 0.41 ENERGY STAR or Better Office Equipment: Computer	15.9% \$ 17.9% \$	0.01	4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.065 0.073	0.40 0.36		0.06 0.06	\$0.03 \$0.05	\$0.03 \$0.06	A C	B D
MPS Gro	cery	Plug_Load	Electric Stock	Existing	0.41 ENERGY STAR or Better Office Equipment: Printers	13.0% \$	0.01	4	100.0%	65.0%	65.0%	0.053	0.31	0.03	0.04	\$0.07	\$0.10	D	Ē
MPS Gro MPS Gro		Plug_Load Refrigeration	Electric Stock Electric Stock	Existing Existing	0.41 ENERGY STAR or Better Office Equipment: Copiers 28.13 Night Covers for Display Cases	9.7% \$ 5.8% \$	0.01 0.01	4 5	100.0% 50.0%	65.0% 95.0%	65.0% 47.5%	0.040 1.631	0.29 28.13	0.02 0.77	0.03 1.63	\$0.10 \$0.00	\$0.14 \$0.00	F A	F A
MPS Gro MPS Gro	cery	Refrigeration	Electric Stock	Existing	28.13 Anti-Sweat (Humidistat) Controls	5.0% \$	0.02	12 10	100.0% 100.0%	48.0% 48.0%	48.0%	1.404 2.184	27.36	0.66 0.99	1.37	\$0.00	\$0.00	A	A A
MPS Gro	cery	Refrigeration Refrigeration	Electric Stock Electric Stock	Existing Existing	28.13 Demand Control Defrost - Electric 28.13 Installation of Floating Condenser Head Pressure Controls	7.8% \$ 6.8% \$	0.04 0.12	14	100.0%	48.0% 44.4%	48.0% 44.4%	1.921	26.70 25.71	0.78	2.07 1.76	\$0.00 \$0.01	\$0.00 \$0.01	A A	Α
MPS Gro MPS Gro		Refrigeration Refrigeration	Electric Stock Electric Stock	Existing Existing	28.13 Strip Curtains for Walk-Ins 28.13 Demand Control Defrost - Hot Gas	4.0% \$ 2.5% \$	0.05 0.07	4 10	100.0% 100.0%	30.0% 69.6%	30.0% 69.6%	1.132 0.705	24.93 24.63	0.30 0.43	1.00 0.62	\$0.01 \$0.01	\$0.02 \$0.02	A A	A A
MPS Gro	cery	Refrigeration	Electric Stock	Existing	28.13 Refrigeration Commissioning	5.0% \$	0.06	3	100.0%	50.0%	50.0%	1.407	24.20	0.60	1.21	\$0.02	\$0.02	Α	Α
MPS Gro MPS Gro		Refrigeration Refrigeration	Electric Stock Electric Stock	Existing Existing	28.13 Compressor VSD retrofit 28.13 High Efficiency Case Fans	6.2% \$ 12.0% \$	0.41 1.16	10 16	50.0% 100.0%	95.0% 95.0%	47.5% 95.0%	1.745 3.370	23.59 22.90	0.69 2.61	1.46 2.74	\$0.04 \$0.04	\$0.04 \$0.05	B B	B C
MPS Gro MPS Gro	,	Refrigeration Space Heat	Electric Stock Electric Stock	Existing	28.13 Reduced Speed or Cycling of Evaporator Fans	0.6% \$	0.09	5 20	100.0%	80.0% 50.0%	80.0% 12.5%	0.155 0.108	20.29 5.42	0.09	0.11 0.11	\$0.16 \$0.01	\$0.22 \$0.01	F	F A
MPS Gro	cery	Space_Heat	Electric Stock	Existing Existing	5.42 Duct Repair and Sealing 5.42 Duct Insulation	2.0% \$ 2.0% \$	0.01	20	25.0% 25.0%	71.5%	17.9%	0.108	5.41	0.01	0.11	\$0.01	\$0.01	Ä	Ä
MPS Gro MPS Gro		Space_Heat Space Heat	Electric Stock Electric Stock	Existing Existing	5.42 Clock / Programmable Thermostat 5.42 Ceiling R-0 to R-19 Insulation	30.0% \$ 7.0% \$	0.15 0.24	10 20	100.0% 50.0%	50.0% 85.0%	50.0% 42.5%	1.626 0.379	5.39 4.58		1.62 0.32	\$0.01 \$0.07	\$0.01 \$0.08	A D	A E
MPS Gro	cery	Space_Heat	Electric Stock	Existing	5.42 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$	0.28	15	50.0%	100.0%	50.0%	0.271	4.44	0.11	0.22	\$0.13	\$0.16	F	F
MPS Gro MPS Gro		Space_Heat Water_Heat	Electric Stock Electric Stock	Existing Existing	5.42 Ceiling R-19 to R-38 Insulation 2.4 Hot Water (SHW) Pipe Insulation	3.0% \$ 5.0% \$	0.24 0.01	20 15	50.0% 50.0%	85.0% 100.0%	42.5% 50.0%	0.163 0.120	4.33 2.40		0.13 0.12	\$0.16 \$0.01	\$0.20 \$0.01	F A	F A
MPS Gro	cery	Water_Heat Water Heat	Electric Stock	Existing Existing	2.4 Heat Pump Water Heater 2.4 Demand controlled circulating systems	30.0% \$ 5.0% \$	0.84 1.32	15 15	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%	0.720 0.120	2.34	0.53	0.70	\$0.14 \$1.35	\$0.15 \$1.79	F	F
MPS Hea	lth	Cooling_Chillers	Electric Stock	Existing	3.36 EMS Optimization	1.0% \$	-	5	100.0%	75.0%	75.0%	0.034	3.36	0.03	0.03	\$0.00	\$0.00	A	A
MPS Hea		Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.36 Two-Speed Cooling Tower, 300 Tons 3.36 VSD Cooling Tower, 300 Tons	14.0% \$ 18.0% \$	0.01 0.11	15 15	50.0% 50.0%	90.0% 90.0%	45.0% 45.0%	0.470 0.605	3.33 3.12		0.47 0.56	\$0.00 \$0.02	\$0.00 \$0.02	A A	A A
MPS Hea	lth	Cooling_Chillers	Electric Stock	Existing	3.36 Insulation of Pipes	1.0% \$	0.01	20	50.0%	50.0%	25.0%	0.034	2.87	0.01	0.03	\$0.03	\$0.03	Α	В
MPS Hea	lth	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.36 High Efficiency Windows, Low-e; U=0.35 3.36 Installation of Energy Management Systems	1.2% \$ 10.0% \$	0.01 0.27	30 10	75.0% 50.0%	66.0% 75.0%	49.5% 37.5%	0.039 0.336	2.86 2.85		0.03 0.28	\$0.03 \$0.13	\$0.04 \$0.15	B F	B F
MPS Hea		Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.36 Installation of Chiller Economizers (water side) 3.36 Primary/Secondary De-coupled Chilled Water System	10.0% \$ 12.0% \$	0.59 0.68	20 15	50.0%	100.0% 80.0%	50.0% 40.0%	0.336 0.403	2.74 2.60	0.14	0.27 0.31	\$0.19 \$0.21	\$0.23 \$0.27	F	F
MPS Hea		Cooling_Chillers	Electric Stock	Existing	3.36 Primary/Secondary De-coupled Chilled Water System 3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.68	10	50.0%	100.0%	40.0% 50.0%	0.403	2.48			\$0.21	\$0.27	F	F

Area E	uilding Type	End-Use	Fuel	Efficiency	y Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
MPS He		Cooling_Chillers	Electric S		Existing	3.36 Chiller Tune-Up / Diagnostics	5.0% \$		5	100.0%	90.0%	90.0%		2.36	0.11	0.12	\$0.27	\$0.39	F	F
MPS He		Cooling_Chillers Cooling_Chillers	Electric S		Existing Existing	3.36 Optimize Chilled Water and Condenser Water Settings 3.36 Ceiling R-0 to R-19 Insulation	5.0% \$ 2.1% \$		10 20	33.0% 50.0%	50.0% 20.0%	16.5% 10.0%	0.168 0.071	2.25 2.23	0.02	0.11 0.05	\$0.28 \$0.32	\$0.42 \$0.49	F	F
MPS He		Cooling_Chillers	Electric S		Existing	3.36 Ceiling R-19 to R-38 Insulation	0.9% \$ 3.0% \$		20 20	50.0%	20.0%	10.0%		2.23 3.36	0.00	0.02	\$0.75 \$0.01	\$1.13 \$0.01		F
MPS He		Cooling_DX Cooling_DX	Electric S		Existing Existing	3.36 High Efficiency Windows, Low-e; U=0.35	5.0% \$ 5.0% \$		30	25.0% 75.0%	25.0% 66.0%	6.3% 49.5%	0.101 0.168	3.35	0.01 0.08	0.10	\$0.01	\$0.01	A A	A
MPS He		Cooling_DX Cooling_DX	Electric S		Existing Existing	3.36 Clock / Programmable Thermostat 3.36 Duct Repair and Sealing	10.0% \$ 1.0% \$		10 20	100.0% 25.0%	60.0% 50.0%	60.0% 12.5%		3.27 3.07	0.20	0.33	\$0.04 \$0.13	\$0.04 \$0.14	B	B
MPS He	alth	Cooling_DX	Electric S		Existing	3.36 Installation of Air Side Economizers	15.0% \$	0.59	10	100.0%	40.0%	40.0%	0.504	3.07	0.18	0.46	\$0.19	\$0.20	F	F
MPS He		Cooling_DX Cooling_DX	Electric S		Existing Existing	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.36 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$		10 20	50.0% 50.0%	100.0% 20.0%	50.0% 10.0%	0.336 0.071	2.89 2.74	0.14	0.29 0.06	\$0.21 \$0.32	\$0.24 \$0.39	F	F
MPS He	alth	Cooling_DX	Electric S	Stock	Existing	3.36 DX Tune-Up / Diagnostics	10.0% \$	0.35	3	100.0%	90.0%	90.0%	0.336	2.74	0.25	0.27	\$0.44	\$0.54	F	F
MPS He		Cooling_DX Cooling_HeatPump	Electric S		Existing Existing	3.36 Ceiling R-19 to R-38 Insulation 3.36 Duct Insulation	0.9% \$ 3.0% \$		20 20	50.0% 25.0%	20.0% 25.0%	10.0% 6.3%		2.49 3.36	0.00 0.01	0.02 0.10	\$0.75 \$0.01	\$1.01 \$0.01	F A	F A
MPS He	alth	Cooling_HeatPump	Electric S	Stock	Existing	3.36 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.03	30	75.0%	66.0%	49.5%	0.168	3.35	0.08	0.17	\$0.02	\$0.02	A	A
MPS He		Cooling_HeatPump Cooling_HeatPump	Electric S		Existing Existing	3.36 Clock / Programmable Thermostat 3.36 Duct Repair and Sealing	10.0% \$ 1.0% \$		10 20	100.0% 25.0%	60.0% 50.0%	60.0% 12.5%	0.336 0.034	3.27 3.07	0.20 0.00	0.33 0.03	\$0.04 \$0.13	\$0.04 \$0.14	B F	B F
MPS He		Cooling_HeatPump Cooling HeatPump	Electric S		Existing	3.36 Installation of Air Side Economizers	15.0% \$		10 10	100.0%	40.0%	40.0%		3.07 2.89	0.18	0.46	\$0.19	\$0.20 \$0.24	F	F
MPS He		Cooling_HeatPump	Electric S		Existing Existing	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.36 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$		20	50.0% 50.0%	100.0% 20.0%	50.0% 10.0%	0.336 0.071	2.09	0.14 0.01	0.29 0.06	\$0.21 \$0.32	\$0.24	F	F
MPS He		Cooling_HeatPump Cooling HeatPump	Electric S		Existing Existing	3.36 DX Tune-Up / Diagnostics 3.36 Ceiling R-19 to R-38 Insulation	10.0% \$ 0.9% \$		3 20	100.0% 50.0%	90.0% 20.0%	90.0% 10.0%		2.74 2.49	0.25	0.27 0.02	\$0.44 \$0.75	\$0.54 \$1.01	F	F
MPS He	alth	Lighting_2L4T12	Electric S		Existing	10.77 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0% \$	0.44	7	50.0%	90.0%	45.0%	3.231	10.77	1.45	3.23	\$0.03	\$0.03	A	A
MPS He		Lighting_2L4T12 Lighting_2L4T12	Electric S		Existing Existing	10.77 4' 1L T8 Premium, EB, reflector 10.77 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$		12 12	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%		10.77 10.77	2.19 0.90	6.58 2.69	\$0.03 \$0.04	\$0.03 \$0.04	B B	B B
MPS He	alth	Lighting_2L4T12	Electric S	Stock	Existing	10.77 4' 1L T5HO, EB	13.9% \$	0.58	12	33.3%	100.0%	33.3%	1.497	10.77	0.50	1.50	\$0.05	\$0.05	c	С
MPS He		Lighting_2L4T12 Lighting_2L4T8	Electric S		Existing Existing	10.77 Continuous Dimming, 10-4' Fluorescent Fixtures 8.62 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% \$ 30.0% \$		8 7	10.0% 50.0%	100.0% 90.0%	10.0% 45.0%		10.77 8.62	0.81 1.16	8.08 2.59	\$0.09 \$0.04	\$0.09 \$0.04	E B	E B
MPS He	alth	Lighting_2L4T8	Electric S	Stock	Existing	8.62 4' 2L T8 Premium, EB	8.5% \$	0.26	12	100.0%	100.0%	100.0%	0.733	8.62	0.73	0.73	\$0.05	\$0.05	Č	C
MPS He		Lighting_2L8T12 Lighting_2L8T12	Electric S		Existing Existing	10.77 8' 2L T8, EB 10.77 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$		12 12	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	5.687 5.956	10.77 10.77	2.84 1.49	5.69 5.96	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS He	alth	Lighting_2L8T12	Electric S	Stock	Existing	10.77 8' 2L T12, 60W, EB	10.6% \$	0.17	12	25.0%	50.0%	12.5%	1.138	10.77	0.14	1.14	\$0.02	\$0.02	Α	Α
MPS He		Lighting_2L8T12 Lighting_2L8T12	Electric S		Existing Existing	10.77 Occupancy Sensor, 4-8' Fluorescent Fixtures 10.77 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% \$ 75.0% \$		7 8	50.0% 10.0%	90.0% 100.0%	45.0% 10.0%		10.77 10.77	1.45 0.81	3.23 8.08	\$0.03 \$0.09	\$0.03 \$0.09	B E	B E
MPS He	alth	Lighting_3L4T12	Electric S	Stock	Existing Existing	10.77 4' 1L T5HO, EB 10.77 4' 3L T8, EB	46.1% \$ 22.6% \$	0.01	12 12	75.0% 75.0%	100.0% 100.0%	75.0%	4.964	10.77 10.77	3.72 1.83	4.96 2.43	\$0.00 \$0.00	\$0.00 \$0.00	A	A
MPS He		Lighting_3L4T12 Lighting_3L4T12	Electric S		Existing	10.77 4 3L 16, EB 10.77 4 2L T8 Premium, EB, reflector	53.0% \$		12	40.0%	100.0%	75.0% 40.0%		10.77	2.29	5.71	\$0.00	\$0.00	A A	A A
MPS He		Lighting_3L4T12	Electric S		Existing Existing	10.77 4' 3L T8 Premium, EB 8.62 4' 3L T8 Premium, EB	22.6% \$ 6.7% \$		12 12	75.0% 100.0%	100.0% 100.0%	75.0% 100.0%		10.77 8.62	1.83 0.58	2.43 0.58	\$0.00 \$0.10	\$0.00 \$0.10	A	A
MPS He		Lighting_3L4T8 Lighting_4L4T12	Electric S		Existing	10.77 4' 3L T8, EB	38.2% \$	0.09	12		100.0%	16.7%	4.114	10.77	0.69	4.11	\$0.00	\$0.00	A	A
MPS He		Lighting_4L4T12 Lighting_4L4T12	Electric S		Existing Existing	10.77 4' 3L T8 Premium, EB 10.77 4' 4L T8. EB	42.4% \$ 22.2% \$		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%		10.77 10.77	0.76	4.56 2.39	\$0.01 \$0.01	\$0.01 \$0.01	A A	A A
MPS He	alth	Lighting_4L4T12	Electric S	Stock	Existing	10.77 4' 2L T8 Premium, EB, reflector	62.5% \$	0.72	12	16.7%	100.0%	16.7%	6.731	10.77	1.12	6.73	\$0.02	\$0.02	Α	A
MPS He		Lighting_4L4T12 Lighting_4L4T12	Electric S		Existing Existing	10.77 4' 2L T5HO, EB 10.77 4' 4L T8 Premium. EB	18.8% \$ 25.0% \$		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	2.019 2.693	10.77 10.77	0.34	2.02 2.69	\$0.02 \$0.03	\$0.02 \$0.03	A A	A A
MPS He	alth	Lighting_4L4T12	Electric S	Stock	Existing	10.77 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0% \$	0.51	7	50.0%	90.0%	45.0%	3.231	10.77	1.45	3.23	\$0.03	\$0.03	В	В
MPS He		Lighting_4L4T12 Lighting_4L4T8	Electric S		Existing Existing	10.77 Continuous Dimming, 5-4' Fluorescent Fixtures 8.62 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% \$ 30.0% \$		8 7	10.0% 50.0%	100.0% 90.0%	10.0% 45.0%	8.078 2.586	10.77 8.62	0.81 1.16	8.08 2.59	\$0.09 \$0.04	\$0.09 \$0.04	E B	B
MPS He		Lighting_4L4T8	Electric S		Existing	8.62 4' 4L T8 Premium, EB	3.6% \$		12	100.0%	100.0%	100.0%	0.310 4.308	8.62 10.77	0.31	0.31	\$0.13 \$0.03	\$0.13 \$0.03	F	F
MPS He		Lighting_INC150W Lighting_INC150W	Electric S		Existing Existing	10.77 Halogen PAR Flood, 90W 10.77 HPS, 50W	40.0% \$ 56.0% \$		1 4	10.0% 45.0%	95.0% 90.0%	9.5% 40.5%		10.77	0.41 2.44	4.31 6.03	\$0.03	\$0.03	A F	F
MPS He		Lighting_INC150W Lighting_INC40W	Electric S		Existing Existing	10.77 Metal Halide, 50W 10.77 LED Exit Signs	52.0% \$ 80.0% \$		4 20	45.0% 90.0%	90.0% 90.0%	40.5% 81.0%	5.600 8.616	10.77 10.77	2.27 6.98	5.60 8.62	\$0.33 \$0.00	\$0.33 \$0.00	F A	F
MPS He	alth	Lighting_INC75W	Electric		Existing	10.77 CFL Screw-in, Modular 18W	65.3% \$	2.29	3	90.0%	85.0%	76.5%	7.033	10.77	5.38	7.03	\$0.14	\$0.14	F	F
MPS He		Plug_Load Plug_Load	Electric S		Existing Existing	0.52 Smart Networks 0.52 ENERGY STAR or Better Office Equipment: Monitors	6.4% \$ 15.4% \$		4	90.0% 100.0%	40.0% 71.0%	36.0% 71.0%	0.033	0.52 0.51	0.01	0.03	\$0.04 \$0.23	\$0.04 \$0.23	B F	B F
MPS He	alth	Plug_Load	Electric S	Stock	Existing	0.52 ENERGY STAR or Better Office Equipment: Copiers	10.2% \$	0.04	4	100.0%	65.0%	65.0%	0.053	0.45	0.03	0.05	\$0.24	\$0.28	F	F
MPS He		Plug_Load Plug Load	Electric S		Existing Existing	0.52 ENERGY STAR or Better Office Equipment: Computer 0.52 ENERGY STAR or Better Office Equipment: Printers	17.4% \$ 13.2% \$		4	100.0% 100.0%	65.0% 65.0%	65.0% 65.0%		0.42 0.37	0.05 0.03	0.07 0.05	\$0.40 \$0.53	\$0.50 \$0.73	F	F
MPS He	alth	Space_Heat	Electric S		Existing Existing	4.96 Duct Repair and Sealing 4.96 Duct Insulation	2.0% \$ 2.0% \$	0.00	20 20	25.0% 25.0%	50.0% 70.3%	12.5% 17.6%	0.099	4.96 4.95	0.01 0.02	0.10 0.10	\$0.00 \$0.01	\$0.00 \$0.01	A	A
MPS He		Space_Heat Space_Heat	Electric S		Existing	4.96 Clock / Programmable Thermostat	30.0% \$		10	100.0%	70.3%	70.0%		4.93	1.04	1.48	\$0.01	\$0.01	A A	A A
MPS He		Space_Heat Space Heat	Electric S		Existing Existing	4.96 Ceiling R-0 to R-19 Insulation 4.96 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	7.0% \$ 5.0% \$		20 15	50.0% 50.0%	40.0% 100.0%	20.0% 50.0%		3.89 3.84	0.05 0.10	0.27 0.19	\$0.07 \$0.14	\$0.08 \$0.18	D	E
MPS He	alth	Space_Heat	Electric S	Stock	Existing	4.96 Ceiling R-19 to R-38 Insulation	3.0% \$	0.21	20	50.0%	40.0%	20.0%	0.149	3.74	0.02	0.11	\$0.15	\$0.20	F	F
MPS He		Water_Heat Water Heat	Electric S		Existing Existing	2.27 Hot Water (SHW) Pipe Insulation 2.27 Heat Pump Water Heater	5.0% \$ 30.0% \$		15 15	50.0% 75.0%	80.0% 100.0%	40.0% 75.0%	0.114 0.681	2.27 2.22	0.05	0.11 0.67	\$0.01 \$0.71	\$0.01 \$0.73	A F	A F
MPS He	alth	Water_Heat	Electric S	Stock	Existing	2.27 Demand controlled circulating systems	5.0% \$	6.20	15	50.0%	90.0%	45.0%	0.114	1.72	0.04	0.09	\$6.73	\$8.86	F	F
	rge_Office rge_Office	Cooling_Chillers Cooling_Chillers	Electric S		Existing Existing	4.19 EMS Optimization 4.19 Two-Speed Cooling Tower, 300 Tons	1.0% \$ 14.0% \$		5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.042 0.587	4.19 4.16	0.03 0.26	0.04 0.58	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS La	rge_Office	Cooling_Chillers	Electric S	Stock	Existing	4.19 Insulation of Pipes 4.19 VSD Cooling Tower. 300 Tons	1.0% \$		20	50.0% 50.0%	50.0%	25.0%	0.042	3.90 3.89	0.01	0.04 0.70	\$0.01	\$0.01	Α	Α
MPS La	rge_Office rge_Office	Cooling_Chillers Cooling_Chillers	Electric S		Existing Existing	4.19 VSD Cooling Tower, 300 Tons 4.19 High Efficiency Windows, Low-e; U=0.35	18.0% \$ 9.3% \$		15 30	50.0% 75.0%	90.0% 99.4%	45.0% 74.6%		3.89	0.31 0.25	0.70	\$0.01 \$0.01	\$0.01 \$0.02	A A	A A
MPS La	rge_Office	Cooling_Chillers	Electric S		Existing Existing	4.19 Installation of Energy Management Systems 4.19 Primary/Secondary De-coupled Chilled Water System	10.0% \$		10 15	50.0% 50.0%	19.1% 80.0%	9.5% 40.0%	0.419 0.503	3.33 3.29	0.03	0.33	\$0.07 \$0.11	\$0.09 \$0.14	D F	E
	rge_Office rge_Office	Cooling_Chillers Cooling_Chillers	Electric S		Existing	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$		10	50.0%	100.0%	50.0%	0.503	3.14	0.16	0.40	\$0.11	\$0.14	F	F
	rge_Office rge_Office	Cooling_Chillers Cooling_Chillers	Electric S		Existing Existing	4.19 Chiller Tune-Up / Diagnostics 4.19 Installation of Chiller Economizers (water side)	5.0% \$ 10.0% \$		5 20	100.0% 50.0%	90.0% 56.9%	90.0% 28.4%	0.210 0.419	2.98 2.84	0.13	0.15 0.28	\$0.15 \$0.15	\$0.20 \$0.22	F	F
MPS La	rge_Office	Cooling_Chillers	Electric S		Existing	4.19 Optimize Chilled Water and Condenser Water Settings	5.0% \$	0.20	10	33.0%	50.0%	16.5%	0.210	2.76	0.02	0.14	\$0.15	\$0.23	F	F
MPS La	rge_Office rge_Office	Cooling_Chillers Cooling_Chillers	Electric S		Existing Existing	4.19 Ceiling R-0 to R-19 Insulation 4.19 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$		20 20	50.0% 50.0%	8.7% 8.7%	4.4% 4.4%	0.088	2.74 2.74	0.00	0.06 0.02	\$0.20 \$0.46	\$0.30 \$0.70	F	F
MPS La	rge_Office	Cooling_DX	Electric S	Stock	Existing	4.19 Ceiling R-19 to R-38 Insulation	0.9% \$	-	20	50.0%	8.7%	4.4%	0.038	4.19	0.00	0.04	\$0.00	\$0.00	A	A
	rge_Office rge_Office	Cooling_DX Cooling_DX	Electric S		Existing Existing	4.19 Duct Insulation 4.19 Clock / Programmable Thermostat	3.0% \$ 10.0% \$		20 10	25.0% 100.0%	25.0% 58.4%	6.3% 58.4%		4.19 4.18	0.01 0.24	0.13 0.42	\$0.02 \$0.02	\$0.02 \$0.02	A A	A A
MPS La	rge_Office	Cooling_DX	Electric S	Stock	Existing	4.19 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.15	30	75.0%	99.4%	74.6%	0.210	3.94	0.15	0.20	\$0.06	\$0.07	D	D
	rge_Office rge_Office	Cooling_DX Cooling_DX	Electric S		Existing Existing	 4.19 Duct Repair and Sealing 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	1.0% \$ 10.0% \$		20 10	25.0% 50.0%	50.0% 100.0%	12.5% 50.0%		3.79 3.78	0.00 0.19	0.04 0.38	\$0.10 \$0.11	\$0.11 \$0.12	F	F
MPS La	rge_Office	Cooling_DX	Electric S	Stock	Existing	4.19 Installation of Air Side Economizers	15.0% \$	0.59	10 20	100.0%	30.4% 8.7%	30.4%	0.629	3.60 3.43	0.16	0.54	\$0.15		F	F
MPS La	rge_Office rge_Office	Cooling_DX Cooling_DX	Electric S		Existing Existing	4.19 Ceiling R-0 to R-19 Insulation 4.19 DX Tune-Up / Diagnostics	2.1% \$ 10.0% \$		3	50.0% 100.0%	90.0%	4.4% 90.0%	0.419	3.43	0.00 0.31	0.07 0.34	\$0.20 \$0.24	\$0.29	F	F
MPS La	rge_Office rge_Office	Cooling_HeatPump Cooling_HeatPump	Electric S		Existing Existing	4.19 Duct Insulation 4.19 Clock / Programmable Thermostat	3.0% \$ 10.0% \$	0.02	20 10	25.0% 100.0%	25.0% 58.4%	6.3% 58.4%		4.19 4.18	0.01 0.24	0.13 0.42	\$0.02 \$0.02	\$0.02 \$0.02	A	A A
MPS La	rge_Office	Cooling_HeatPump	Electric S	Stock	Existing	4.19 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.15	30	75.0%	99.4%	74.6%	0.210	3.94	0.15	0.20	\$0.06	\$0.07	D	D
	rge_Office rge_Office	Cooling_HeatPump Cooling_HeatPump			Existing Existing	4.19 Duct Repair and Sealing 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	1.0% \$ 10.0% \$		20 10	25.0% 50.0%	50.0% 100.0%	12.5% 50.0%	0.042 0.419	3.79 3.79	0.00 0.19	0.04 0.38	\$0.10 \$0.11	\$0.11 \$0.12	F F	F F
	rge_Office	Cooling_HeatPump	Electric S	Stock	Existing	4.19 Installation of Air Side Economizers	15.0% \$		10		30.4%	30.4%		3.60	0.16	0.54	\$0.15		F	F

Area Building Type	End-Use	Fuel Efficier	ncy Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	Stacked Cost Group
MPS Large_Office	Cooling_HeatPump	Electric Stock	Existing	4.19 Ceiling R-0 to R-19 Insulation	2.1% \$		20	50.0%	8.7%	4.4%	0.088	3.43	0.00	0.07	\$0.20	\$0.24	F	F
MPS Large_Office MPS Large_Office	Cooling_HeatPump Cooling_HeatPump	Electric Stock Electric Stock	Existing Existing	4.19 DX Tune-Up / Diagnostics 4.19 Ceiling R-19 to R-38 Insulation	10.0% \$ 0.9% \$		3 20	100.0% 50.0%	90.0% 8.7%	90.0% 4.4%	0.419 0.038	3.43 3.12	0.31	0.34 0.03	\$0.24 \$0.46	\$0.29 \$0.62	F F	F F
MPS Large_Office	Lighting_2L4T12	Electric Stock	Existing	5.29 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0% \$	0.45	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	\$0.05	\$0.05	Ċ	Ċ
MPS Large_Office MPS Large_Office	Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 1L T8 Premium, EB, reflector 5.29 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$		16 16	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	3.233 1.323	5.29 5.29	1.08 0.44	3.23 1.32	\$0.06 \$0.07	\$0.06 \$0.07	C D	C D
MPS Large_Office	Lighting_2L4T12	Electric Stock	Existing	5.29 4' 1L T5HO, EB	13.9% \$		16	33.3%	100.0%	33.3%	0.735	5.29	0.25	0.74	\$0.09	\$0.09	E	E
MPS Large_Office MPS Large_Office	Lighting_2L4T12 Lighting_2L4T8	Electric Stock Electric Stock	Existing Existing	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures 4.24 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% \$ 30.0% \$		11 9	40.0% 40.0%	100.0% 79.6%	40.0% 31.8%		5.29 4.24	1.59 0.40	3.97 1.27	\$0.14 \$0.06	\$0.14 \$0.06	D D	D D
MPS Large_Office	Lighting_2L4T8	Electric Stock	Existing	4.24 4' 2L T8 Premium, EB	8.5% \$	0.27	16	100.0%	100.0%	100.0%	0.360	4.24	0.36	0.36	\$0.09	\$0.09	E	E
MPS Large_Office MPS Large_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	5.29 8' 2L T8, EB 5.29 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$		16 16	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	2.793 2.925	5.29 5.29	1.40 0.73	2.79 2.93	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
MPS Large_Office	Lighting_2L8T12	Electric Stock	Existing	5.29 8' 2L T12, 60W, EB	10.6% \$		16	25.0%	26.6%	6.6%	0.559	5.29	0.04	0.56	\$0.04	\$0.04	В	В
MPS Large_Office MPS Large_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	5.29 Occupancy Sensor, 4-8' Fluorescent Fixtures 5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% \$ 75.0% \$		9 11	40.0% 40.0%	79.6% 100.0%	31.8% 40.0%	1.587 3.968	5.29 5.29	0.51 1.59	1.59 3.97	\$0.06 \$0.15	\$0.06 \$0.15	C F	C F
MPS Large_Office	Lighting_3L4T12	Electric Stock	Existing	5.29 4' 1L T5HO, EB	46.1% \$		16	75.0%	100.0%	75.0%	2.438	5.29	1.83	2.44	\$0.00	\$0.00	A	A
MPS Large_Office MPS Large_Office	Lighting_3L4T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 3L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		16 16	75.0% 40.0%	100.0% 100.0%	75.0% 40.0%	1.196 2.806	5.29 5.29	0.90 1.12	1.20 2.81	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
MPS Large_Office	Lighting_3L4T12	Electric Stock	Existing	5.29 4' 3L T8 Premium, EB	22.6% \$	0.13	16	75.0%	100.0%	75.0%	1.196	5.29	0.90	1.20	\$0.01	\$0.01	Α	A
MPS Large_Office MPS Large_Office	Lighting_3L4T8 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	4.24 4' 3L T8 Premium, EB 5.29 4' 3L T8 FB	6.7% \$ 38.2% \$		16 16	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.284 2.021	4.24 5.29	0.28 0.34	0.28 2.02	\$0.18 \$0.01	\$0.18 \$0.01	F A	F A
MPS Large_Office	Lighting_4L4T12	Electric Stock	Existing	5.29 4' 3L T8 Premium, EB	42.4% \$	0.32	16	16.7%	100.0%	16.7%	2.241	5.29	0.37	2.24	\$0.02	\$0.02	Α	Α
MPS Large_Office MPS Large_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 4L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%		5.29 5.29	0.20 0.55	1.18 3.31	\$0.02 \$0.03	\$0.02 \$0.03	A	A A
MPS Large_Office	Lighting_4L4T12	Electric Stock	Existing	5.29 4' 2L T5HO, EB	18.8% \$	0.29	16	16.7%	100.0%	16.7%	0.992	5.29	0.17	0.99	\$0.03	\$0.03	В	В
MPS Large_Office MPS Large Office	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 4L T8 Premium, EB 5.29 Occupancy Sensor, 4-4' Fluorescent Fixtures	25.0% \$ 30.0% \$		16 9	16.7% 40.0%	100.0% 79.6%	16.7% 31.8%	1.323 1.587	5.29 5.29	0.22 0.51	1.32 1.59	\$0.04 \$0.06	\$0.04 \$0.06	B C	B C
MPS Large_Office	Lighting_4L4T12	Electric Stock	Existing	5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$	3.93	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.15	\$0.15	F	F
MPS Large_Office MPS Large_Office	Lighting_4L4T8 Lighting_4L4T8	Electric Stock Electric Stock	Existing Existing	4.24 Occupancy Sensor, 4-4' Fluorescent Fixtures 4.24 4' 4L T8 Premium. EB	30.0% \$ 3.6% \$		9 16	40.0% 100.0%	79.6% 100.0%	31.8% 100.0%	1.272 0.153	4.24 4.24	0.40 0.15	1.27 0.15	\$0.07 \$0.24	\$0.07 \$0.24	D F	D F
MPS Large_Office	Lighting_INC150W	Electric Stock	Existing	5.29 Halogen PAR Flood, 90W	40.0% \$	0.18	1	10.0%	100.0%	10.0%	2.116	5.29	0.21	2.12	\$0.10	\$0.10	Ë	Ë
MPS Large_Office MPS Large_Office	Lighting_INC150W Lighting_INC150W	Electric Stock Electric Stock	Existing Existing	5.29 HPS, 50W 5.29 Metal Halide, 50W	56.0% \$ 52.0% \$		6	45.0% 45.0%	93.9% 93.9%	42.2% 42.2%		5.29 5.29	1.25 1.16	2.96 2.75	\$0.38 \$0.80	\$0.38 \$0.80	F F	F F
MPS Large_Office	Lighting_INC40W	Electric Stock	Existing	5.29 LED Exit Signs	80.0% \$	0.05	20	90.0%	90.0%	81.0%	4.232	5.29	3.43	4.23	\$0.00	\$0.00	A	A
MPS Large_Office MPS Large_Office	Lighting_INC75W Plug_Load	Electric Stock	Existing Existing	5.29 CFL Screw-in, Modular 18W 1.59 Smart Networks	65.3% \$ 9.1% \$		5 4	90.0% 90.0%	72.5% 40.0%	65.2% 36.0%	3.454 0.145	5.29 1.59	2.25 0.05	3.45 0.15	\$0.18 \$0.02	\$0.18 \$0.02	F A	F A
MPS Large_Office	Plug_Load	Electric Stock	Existing	1.59 ENERGY STAR or Better Office Equipment: Monitors	21.9% \$	0.09	4	100.0%	71.0%	71.0%	0.349	1.54	0.24	0.34	\$0.09	\$0.09	E	E
MPS Large_Office MPS Large_Office	Plug_Load Plug_Load	Electric Stock Electric Stock	Existing Existing	1.59 ENERGY STAR or Better Office Equipment: Copiers 1.59 ENERGY STAR or Better Office Equipment: Computer	4.8% \$ 24.7% \$		4	100.0% 100.0%	65.0% 65.0%	65.0% 65.0%		1.30 1.26	0.04 0.20	0.06 0.31	\$0.14 \$0.15	\$0.18 \$0.19	F	F
MPS Large_Office	Plug_Load	Electric Stock	Existing	1.59 ENERGY STAR or Better Office Equipment: Printers	8.0% \$	0.10	4	100.0%	65.0%	65.0%	0.127	1.06	0.05	0.08	\$0.26	\$0.40	F	F
MPS Large_Office MPS Large_Office	Space_Heat Space Heat	Electric Stock Electric Stock	Existing Existing	6.18 Duct Repair and Sealing 6.18 Clock / Programmable Thermostat	2.0% \$ 30.0% \$		20 10	25.0% 100.0%	50.0% 58.5%	12.5% 58.5%	0.124 1.854	6.18 6.16	0.02 1.08	0.12 1.85	\$0.01 \$0.01	\$0.01 \$0.01	A A	A A
MPS Large_Office	Space_Heat	Electric Stock	Existing	6.18 Duct Insulation	2.0% \$	0.02	20	25.0%	58.5%	14.6%	0.124	5.08	0.01	0.10	\$0.02	\$0.02	Α	Α
MPS Large_Office MPS Large_Office	Space_Heat Space Heat	Electric Stock Electric Stock	Existing Existing	6.18 Ceiling R-0 to R-19 Insulation 6.18 Ceiling R-19 to R-38 Insulation	7.0% \$ 3.0% \$		20 20	50.0% 50.0%	12.9% 12.9%	6.5% 6.5%	0.433 0.185	5.07 5.05	0.02	0.35 0.15	\$0.04 \$0.09	\$0.05 \$0.11	B F	C F
MPS Large_Office	Space_Heat	Electric Stock	Existing	6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$	0.28	15	50.0%	100.0%	50.0%	0.309	5.04	0.13	0.25	\$0.11	\$0.14	F	F
MPS Large_Office MPS Large Office	Water_Heat Water Heat	Electric Stock	Existing Existing	0.95 Hot Water (SHW) Pipe Insulation 0.95 Heat Pump Water Heater	5.0% \$ 30.0% \$		15 15	50.0% 75.0%	39.3% 100.0%	19.6% 75.0%	0.048 0.285	0.95 0.94	0.01 0.21	0.05 0.28	\$0.01 \$0.25	\$0.01 \$0.25	A	A F
MPS Large_Office	Water_Heat	Electric Stock	Existing	0.95 Demand controlled circulating systems	5.0% \$	0.91	15	50.0%	93.2%	46.6%	0.048	0.73	0.02	0.04	\$2.35	\$3.06	F	F
MPS Lodging MPS Lodging	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	2.83 EMS Optimization 2.83 Two-Speed Cooling Tower, 300 Tons	1.0% \$ 14.0% \$		5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.028 0.396	2.83 2.81	0.02 0.18	0.03	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Lodging	Cooling_Chillers	Electric Stock	Existing	2.83 VSD Cooling Tower, 300 Tons	18.0% \$	0.11	15	50.0%	90.0%	45.0%	0.509	2.63	0.21	0.47	\$0.03	\$0.03	A	Α
MPS Lodging MPS Lodging	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	2.83 High Efficiency Windows, Low-e; U=0.35 2.83 Insulation of Pipes	7.0% \$ 1.0% \$		30 20	75.0% 50.0%	92.9% 50.0%	69.7% 25.0%		2.42	0.12 0.01	0.17 0.02	\$0.03 \$0.13	\$0.03 \$0.16	A	B F
MPS Lodging	Cooling_Chillers	Electric Stock	Existing	2.83 Installation of Energy Management Systems	10.0% \$	0.29	10	50.0%	37.5%	18.7%	0.283	2.29	0.04	0.23	\$0.16	\$0.20	F	F
MPS Lodging MPS Lodging	Cooling_Chillers Cooling Chillers	Electric Stock Electric Stock	Existing Existing	2.83 Ceiling R-0 to R-19 Insulation 2.83 Installation of Chiller Economizers (water side)	2.1% \$ 10.0% \$		20 20	50.0% 50.0%	34.6% 40.1%	17.3% 20.0%	0.059 0.283	2.25 2.24	0.01 0.04	0.05 0.22	\$0.19 \$0.22	\$0.24 \$0.28	F	F
MPS Lodging	Cooling_Chillers	Electric Stock	Existing	2.83 Primary/Secondary De-coupled Chilled Water System	12.0% \$	0.71	15	50.0%	80.0%	40.0%	0.340	2.20	0.11	0.26	\$0.26	\$0.33	F	F
MPS Lodging MPS Lodging	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.83 Chiller Tune-Up / Diagnostics	10.0% \$ 5.0% \$		10 5	50.0% 100.0%	100.0% 90.0%	50.0% 90.0%	0.283 0.142	2.09 1.99	0.10	0.21 0.10	\$0.26 \$0.34	\$0.35 \$0.49	F	F
MPS Lodging	Cooling_Chillers	Electric Stock	Existing	2.83 Optimize Chilled Water and Condenser Water Settings	5.0% \$	0.31	10	33.0%	50.0%	16.5%	0.142	1.90	0.02	0.09	\$0.35	\$0.52	F	F
MPS Lodging MPS Lodging	Cooling_Chillers Cooling_DX	Electric Stock	Existing Existing	2.83 Ceiling R-19 to R-38 Insulation 2.83 Duct Insulation	0.9% \$ 3.0% \$		20 20	50.0% 25.0%	34.6% 25.0%	17.3% 6.3%		1.88 2.83	0.00	0.02 0.08	\$0.44 \$0.02	\$0.66 \$0.02	F A	F A
MPS Lodging	Cooling_DX	Electric Stock	Existing	2.83 Occupancy Sensor for room HVAC units	35.0% \$	0.30	15	51.0%	100.0%	51.0%	0.991	2.82	0.50	0.99	\$0.04	\$0.04	В	В
MPS Lodging MPS Lodging	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	2.83 Clock / Programmable Thermostat 2.83 High Efficiency Windows, Low-e; U=0.35	10.0% \$ 5.0% \$		10 30	100.0% 75.0%	80.0% 92.9%	80.0% 69.7%	0.283 0.142	2.32 2.13	0.19 0.07	0.23 0.11	\$0.05 \$0.10	\$0.07 \$0.14	C F	D F
MPS Lodging	Cooling_DX	Electric Stock	Existing	2.83 Duct Repair and Sealing	1.0% \$	0.04	20	25.0%	50.0%	12.5%	0.028	2.06	0.00	0.02	\$0.15	\$0.21	F	F
MPS Lodging MPS Lodging	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	2.83 Ceiling R-0 to R-19 Insulation 2.83 Installation of Air Side Economizers	2.1% \$ 15.0% \$		20 10	50.0% 100.0%	34.6% 40.0%	17.3% 40.0%		2.06 2.05	0.01 0.12	0.04 0.31	\$0.19 \$0.22	\$0.26 \$0.30	F	F F
MPS Lodging	Cooling_DX	Electric Stock	Existing	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.46	10	50.0%	100.0%	50.0%	0.283	1.93	0.10	0.19	\$0.26	\$0.38	F	F
MPS Lodging MPS Lodging	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	2.83 Ceiling R-19 to R-38 Insulation 2.83 DX Tune-Up / Diagnostics	0.9% \$ 10.0% \$		20	50.0% 100.0%	34.6% 90.0%	17.3% 90.0%	0.025 0.283	1.83 1.83	0.00 0.16	0.02 0.18	\$0.44 \$0.55	\$0.68 \$0.85	F	F F
MPS Lodging	Cooling_HeatPump	Electric Stock	Existing	2.83 Duct Insulation	3.0% \$	0.01	20	25.0%	25.0%	6.3%	0.085	2.83	0.01	0.08	\$0.02	\$0.02	A	A
MPS Lodging MPS Lodging		Electric Stock Electric Stock	Existing Existing	2.83 Clock / Programmable Thermostat 2.83 High Efficiency Windows Low-e: U=0.35	10.0% \$ 5.0% \$		10 30	100.0% 75.0%	80.0% 92.9%	80.0% 69.7%	0.283 0.142	2.82	0.23	0.28	\$0.05 \$0.10	\$0.05 \$0.11	C F	C F
MPS Lodging		Electric Stock	Existing	2.83 Duct Repair and Sealing	1.0% \$		20	25.0%	50.0%	12.5%	0.028	2.51	0.00	0.13	\$0.15	\$0.17	F	F
MPS Lodging MPS Lodging	Cooling_HeatPump Cooling_HeatPump		Existing Existing	2.83 Ceiling R-0 to R-19 Insulation 2.83 Installation of Air Side Economizers	2.1% \$ 15.0% \$		20 10	50.0% 100.0%	34.6% 40.0%	17.3% 40.0%		2.51 2.50	0.01 0.15	0.05 0.37	\$0.19 \$0.22	\$0.21 \$0.25	F	F
MPS Lodging	Cooling_HeatPump	Electric Stock	Existing	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.46	10	50.0%	100.0%	50.0%	0.283	2.35	0.12	0.23	\$0.26	\$0.31	F	F
MPS Lodging MPS Lodging	Cooling_HeatPump Cooling_HeatPump		Existing Existing	2.83 Ceiling R-19 to R-38 Insulation 2.83 DX Tune-Up / Diagnostics	0.9% \$ 10.0% \$		20 3	50.0% 100.0%	34.6% 90.0%	17.3% 90.0%		2.23 2.23	0.00 0.20	0.02 0.22	\$0.44 \$0.55	\$0.56 \$0.70	F	F F
MPS Lodging	Lighting_2L4T12	Electric Stock	Existing	3.01 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0% \$		15	20.0%	89.6%	17.9%		3.01	0.16	0.22	\$0.03		В	В
MPS Lodging	Lighting_2L4T12	Electric Stock	Existing	3.01 4' 1L T8 Premium, EB, reflector 3.01 4' 2L T8 Premium, EB	61.1% \$		26 26	33.3%	100.0%	33.3%		3.01	0.61	1.84 0.75	\$0.04	\$0.04 \$0.05	В	B C
MPS Lodging MPS Lodging	Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	3.01 4' 1L T5HO, EB	25.0% \$ 13.9% \$	0.29	26 26	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	0.418	3.01 3.01	0.25 0.14	0.42	\$0.05 \$0.07	\$0.07	C D	D
MPS Lodging	Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	3.01 Continuous Dimming, 10-4' Fluorescent Fixtures 2.41 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% \$ 30.0% \$	1.89	19 15	30.0% 20.0%	100.0% 89.6%	30.0% 17.9%	2.258	3.01 2.41	0.68 0.13	2.26 0.72	\$0.09 \$0.04	\$0.09 \$0.04	E B	E
MPS Lodging MPS Lodging	Lighting_2L4T8 Lighting_2L4T8	Electric Stock	Existing	2.41 4' 2L T8 Premium, EB	30.0% \$ 8.5% \$		15 26	100.0%	100.0%	17.9% 100.0%		2.41	0.13	0.72	\$0.04 \$0.06	\$0.04 \$0.06	D	B D
MPS Lodging	Lighting_2L8T12	Electric Stock	Existing	3.01 8' 2L T8, EB	52.8% \$	0.18	26	50.0%	100.0%	50.0%	1.589	3.01	0.79	1.59	\$0.01	\$0.01	Α	A
MPS Lodging MPS Lodging	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	3.01 8' 1L T12, 60W, EB, reflector 3.01 8' 2L T12, 60W, EB	55.3% \$ 10.6% \$		26 26	25.0% 25.0%	100.0% 79.9%	25.0% 20.0%	1.665 0.318	3.01 3.01	0.42	1.66 0.32	\$0.02 \$0.03	\$0.02 \$0.03	A A	A A
MPS Lodging	Lighting_2L8T12	Electric Stock	Existing	3.01 Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0% \$	0.28	15	20.0%	89.6%	17.9%	0.903	3.01	0.16	0.90	\$0.04	\$0.04	В	В
MPS Lodging MPS Lodging	Lighting_2L8T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing Existing	3.01 Continuous Dimming, 5-8' Fluorescent Fixtures 3.01 4' 1L T5HO, EB	75.0% \$ 46.1% \$		19 26	30.0% 75.0%	100.0% 100.0%	30.0% 75.0%		3.01 3.01	0.68 1.04	2.26 1.39	\$0.10 \$0.00	\$0.10 \$0.00	E A	E A
MPS Lodging	Lighting_3L4T12	Electric Stock	Existing	3.01 4' 3L T8, EB	22.6% \$	0.02	26	75.0%	100.0%	75.0%	0.681	3.01	0.51	0.68	\$0.00	\$0.00	Α	A
MPS Lodging	Lighting_3L4T12	Electric Stock	Existing	3.01 4' 2L T8 Premium, EB, reflector	53.0% \$	0.11	26	40.0%	100.0%	40.0%	1.597	3.01	0.64	1.60	\$0.01	\$0.01	Α	Α

March Marc	Are	a Building Type	End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost		Stand Alone Cost Group	
Mary			Lighting_3L4T12 Lighting_3L4T8																	A F	A F
Margin M	MP	S Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01 4' 3L T8, EB	38.2% \$	0.05	26	16.7%	100.0%	16.7%	1.150	3.01	0.19	1.15	\$0.00	\$0.00		A
March Marc																					A A
Column C	MP	S Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01 4' 2L T8 Premium, EB, reflector	62.5% \$	0.36	26	16.7%	100.0%	16.7%	1.881	3.01	0.31	1.88	\$0.02	\$0.02		A
March Marc													16.7%							В	В
March Marc	MP	S Lodging	Lighting_4L4T12																		В
Lie Claring Control Co	MP	S Lodging	Lighting_4L4T8	Electric	Stock	Existing	2.41 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0% \$	0.26	15	20.0%	89.6%	17.9%	0.723	2.41	0.13	0.72	\$0.04	\$0.04		=
Second Company Compa																				F D	F D
March Control Contro	MP	S Lodging	Lighting_INC150W			Existing	3.01 HPS, 50W													F	F
March Marc																				A	A
1. 1. 1. 1. 1. 1. 1. 1.																				F	F
March Marc	MP	S Lodging		Electric	Stock	Existing	0.1 ENERGY STAR or Better Office Equipment: Copiers	20.2% \$	0.00	4	100.0%	65.0%	65.0%	0.020	0.10	0.01	0.02	\$0.04	\$0.04		В
Methods																				F	F
Mary	MP	S Lodging	Plug_Load	Electric	Stock	Existing	0.1 ENERGY STAR or Better Office Equipment: Printers	7.6% \$	0.01	4	100.0%	65.0%	65.0%	0.008	0.07	0.00	0.01	\$0.45	\$0.61	F	F
March Marc																					A A
March Marc	MP	S Lodging		Electric	Stock	Existing									2.52						A
Marcia M						Existing														_	E
March Marc																				F	F
Mary	MP	S Lodging	Water_Heat	Electric	Stock	Existing	2.79 Hot Water (SHW) Pipe Insulation	5.0% \$	0.03	15	50.0%	100.0%	50.0%	0.140	2.79	0.07	0.14	\$0.03	\$0.03	В	В
March Marc																				F	F F
Marcian Marc	MP:	S Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39 EMS Optimization	1.0% \$	-	5	100.0%	75.0%	75.0%	0.024	2.39	0.02	0.02	\$0.00	\$0.00	A	A
Mary Section Confect College Section																					A A
Mary	MP	S Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39 High Efficiency Windows, Low-e; U=0.35	2.5% \$	0.02	30	75.0%	76.3%	57.2%	0.059	2.04	0.03	0.05	\$0.03	\$0.04	Α	_
Mile																					E
Medicalisance Cooling, Clifford Section (C. Clifford Section Cooling,						Existing	2.39 Primary/Secondary De-coupled Chilled Water System	12.0% \$	0.30					0.287			0.23			F	F
Model Mode			Cooling_Chillers																	F	F
Medical color Colo																				F	F
Mediculescone Condrig XX	MP	S Miscellaneous	Cooling_Chillers												1.57					F	F
Medium M																				F A	F A
MPS Minestermone Country, LIN Empire Country	MP	S Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39 Clock / Programmable Thermostat	10.0% \$	0.04	10	100.0%	35.9%	35.9%	0.239	2.39	0.09	0.24	\$0.03	\$0.03	A	A
MeS Macellanesson Cooling, DX Earlier Stock Earlier St																				B F	B F
MeD Microellaness Cooling, DK Electic State	MP	S Miscellaneous	Cooling_DX			Existing	2.39 Duct Repair and Sealing			20					2.12			\$0.18		F	F
MRPS Microalmentson Conting, Teach Primary (1988) and the conting of the conting																				F	F
MPS Macellamona Cooling, Healthum Electron Sock Cooling, Healthum Electron Sock Cooling, Healthum Cooling,																				F	F
MeD Miscolamona Cooling-JeaPhrap Before Stock Easting 2.39 high Efficiency Miscolamona Cooling-JeaPhrap Before Stock Easting 2.30 high Efficience Stock Easting 2.30 high Effi	MP	S Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39 Duct Insulation	3.0% \$	0.01	20	25.0%	25.0%	6.3%	0.072	2.39	0.00	0.07	\$0.02	\$0.02	A	A
Median Cooling Hearthurn Electric Stock Existing Cooling																					A B
Medical Merical Medical Medical Cooling, Healthurp Electric Stock Easilring 2.39 Installation of Art Side Economics 1.07% 5.05% 10.07% 0.05% 0.02% 10.07% 0.05% 0.02% 10.07% 0.05% 0.02% 10.07% 0.05% 0.02% 10.07% 0.05% 0.02% 10.07% 0.05% 0.02% 10.07% 0.05% 0.05% 0.02% 10.07% 0.05% 0.	MP	S Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.19	10	50.0%	100.0%	50.0%	0.239	2.23	0.11	0.22	\$0.13	\$0.14	F	F
MPS Macellameoux Cooling, Healthump Electic Stock Easisting 2.30 DX Tume LpD Diagnostics 1.00 \(\) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\																				F	F
MPS Miscellameous Lighting_141712 Electric Stock Existing 2.30 Celling R-19 for R-38 insulation 0.9% \$ 0.42 2.0																				F	F
MPS Moscellameous Lighting 2,44712 Electic Stock Existing 2.12 * 1.11 * Deminum; Els, reflector 1.96 * MPS Moscellameous Lighting 2,44712 Electic Stock Existing 2.12 * 2.11 * Deminum; Els, reflector 1.96 * MPS Moscellameous Lighting 2,44712 Electic Stock Existing 2.12 * 2.11 * Deminum; Els, reflector 1.96 * MPS Moscellameous Lighting 2,44712 Electic Stock Existing 2.12 * Electic Stock Existing	MP	S Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39 Ceiling R-19 to R-38 Insulation	0.9% \$	0.22	20	50.0%	40.2%	20.1%	0.022	1.69	0.00	0.02	\$1.09	\$1.54	F	F
MPS Miscellaneous Lighting_2,14712 Electic Slock Existing 1.24 of 1.27 m 1.24 of 1.25 m 1.24																				D F	D F
MPS Miscellameous Lighting_214712 Electric Stock Existing 1.7 (Octupancy Sternor, 4.7 Electric Stock Existing 1.7 (Octupancy S	MP	S Miscellaneous	Lighting_2L4T12	Electric	Stock	Existing	2.12 4' 2L T8 Premium, EB	25.0% \$	0.73	36	33.3%	100.0%	33.3%	0.530	2.12	0.18	0.53	\$0.12	\$0.12	F	F
MPS Miscellameous Uphing_24178 Electric Stock Existing 1.7 of 2.11 Permium, EB 1.7	MP	S Miscellaneous	Lighting_2L4T12							26				1.590		0.48	1.59			F	F
MPS Miscellaneous Lighting_2E1712 Electric Stock Existing 2.12 \(^2 \) 1.12 \(^2 \) 1.03 \(^2 \) 0.03 \(^3 \) 0.03 \(^3 \) 0.05 \(^3 \) 0.05 \(^5 \) 0.05 \(^5 \) 1.17 \(^2 \) 0.03 \(^3 \) 0.03 \(^3 \) 0.05 \(^3 \) 0.05 \(^5 \) 0.		S Miscellaneous	Lighting_2L4T8			Existing	1.7 Occupancy Sensor, 8-4' Fluorescent Fixtures			21	20.0%				1.70						E
MPS Miscellaneous Lighting_ZLBT12 Electic Stock Existing 2.12 F2.112, 60W, EB No.	MP	S Miscellaneous	Lighting_2L8T12	Electric	Stock	Existing	2.12 8' 2L T8, EB	52.8% \$	0.35	36	50.0%	100.0%	50.0%	1.119	2.12	0.56	1.12	\$0.03	\$0.03	A	
MPS Miscellaneous Lighting_2LBT12 Electic Stock Existing 2.12 Coupancy Sensor, 4.9 Fluorescent Fixtures 50.0% 5.0%																					
MPS Miscellaneous Lighting, 3.4-712 Electric Stock Existing 2.1.2 ft. 1.5HO, EB 46.1% \$ 0.03 36 75.0% 10.0% 75.0% 0.977 2.1.2 0.38 \$0.00 \$0.00 A A MPS Miscellaneous Lighting, 3.4-712 Electric Stock Existing 2.1.2 ft. 3.1.8 EB electric Stock Existing 2.1.2 ft. 3.1.8 EB 0.00 \$0.00 A A MPS Miscellaneous Lighting, 3.4-712 Electric Stock Existing 2.1.2 ft. 3.1.8 Termium, EB 6.7% \$0.01 36 75.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 40.0% 10.00% 10.0% 40.0% 10.00% 40.0% 10.00% 10.0% 0.11 1.1.1 50.01 80.01 80.01 80.01 80.01 80.01 80.01 80.01 80.01 80.01	MP:	S Miscellaneous	Lighting_2L8T12	Electric	Stock	Existing	2.12 Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0% \$	0.53	21	20.0%	95.0%	19.0%	0.636	2.12	0.12	0.64	\$0.09	\$0.09	E	Ē
MPS Miscellaneous Lighting_3L4T12 Electric Stock Existing 9.12 4' 31.78, EB 2.12 4' 31.78, EB 2.12 4' 31.78, EB 2.12 4' 31.78, Femelum, EB, reflector 5.00x Existing 9.12 4' 21.78, Femelum, EB, reflector 5.00x Existing 9.12 4' 21.78, Femelum, EB, reflector 5.00x Existing 9.12 4' 21.78, Femelum, EB 4.78, S. 1.74, S. 1.78, Femelum, EB 4.74, S. 1.74, S. 1.								75.0% \$ 46.1% \$	4.03												F A
MPS Miscellaneous Lighting_3.44712 Electric Stock Existing MPS Miscellaneous Lighting_3.44712 Electric Stock Existing MPS Miscellaneous Lighting_3.4478 Electric Stock Existing MPS Miscellaneous Lighting_3.4478 Electric Stock Existing Carbon MPS Miscellaneous Lighting_4.44712 Electric Stock Existing Carbon MPS Miscellaneous Light	MP	S Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12 4' 3L T8, EB	22.6% \$	0.03	36	75.0%	100.0%	75.0%	0.479	2.12	0.36	0.48	\$0.01	\$0.01	A	A
MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing P4. Task E. Electric Stock Existing P4. Task				The state	011-	Francisco de la compansa del la compansa de la comp	0.40, 4101 T0 P				75.00/			0.470	0.40	0.00		7	00.00	A	A
MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 9.12 4'.31. Ta Premium, EB	MP	S Miscellaneous	Lighting_3L4T8	Electric	Stock	Existing	1.7 4' 3L T8 Premium, EB	6.7% \$	0.41	36	100.0%	100.0%	100.0%		1.70	0.11		\$0.31	\$0.31		F
MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 2.12 4'2 L. TSPHO_EB Stock Existing 2.12 4'4 L. TSPHO_EB Stock Existing 2.12 5'4 L. TSPHO_EB Stock Existing	MP	S Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	2.12 4' 3L T8 Premium, EB	42.4% \$	0.30	36	16.7%	100.0%	16.7%	0.898	2.12	0.15	0.90	\$0.03	\$0.03	Α	
MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 2.12 4'2 1.75HO_EB 18.8% \$ 0.27 \$ 36 16.7% \$ 100.0% \$ 16.7% \$ 100.0% \$ 16.7% \$ 0.398 \$ 2.12 \$ 0.07 \$ 0.40 \$ \$0.08 \$ 0.08 \$ 0.08 \$ C \$ C \$ C \$ C \$ MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 2.12 4'4 1.75 Premium_EB 2.50 % \$ 0.46 36 16.7% \$ 100.0% \$ 16.7% \$ 100.0% \$ 16.7% \$ 0.398 \$ 2.12 \$ 0.09 \$ 0.53 \$ 0.08 \$ 0.08 \$ 0.08 \$ C \$ E \$ C \$ MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 2.12 Cocupancy Sensor, 4-4' Fluorescent Fixtures 30.0% \$ 0.49 \$ 21 \$ 20.0% \$ 50.0% \$ 19.0% \$ 0.636 \$ 2.12 \$ 0.12 \$ 0.64 \$ 50.0% \$ 0.08 \$ 0.08 \$ 0.08 \$ E \$	MP:	S Miscellaneous	Lighting_4L4T12																		
MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 2.12 Occupancy Sensor, 4-4 Fluorescent Fixtures 30.0% 0.49 2.1 20.0% 95.0% 19.0% 0.636 2.12 0.12 0.64 80.08 80.08 E E MPS Miscellaneous Lighting_4L4T12 Electric Stock Existing 2.12 Continuous Dimming_4-4*Fluorescent Fixtures 30.0% 10.0% 30.0% 10.0% 30.0% 10.0% 15.0% 2.12 0.48 1.59 80.28 8.08 80.08 2.12 2.12 0.48 1.59 80.28 8.08 80.08 80.08 80.08 80.08 80.08 80.08 8.08 80.08	MP	S Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	2.12 4' 2L T5HO, EB	18.8% \$	0.27	36	16.7%	100.0%	16.7%	0.398	2.12	0.07	0.40	\$0.06	\$0.06	C	
MPS Miscellaneous Lighting_4L4T12 Electric Stock Lighting_4L4T2 Electric Stock Existing 2.12 Continuous Dimming, 5-4* Fluorescent Fixtures 7.50% \$ 3.69 2.6 30.0% \$ 10.0%																					E E
MPS Miscellaneous Lighting_AL478 Electric Stock Existing 1.7 4*L*T8 Premium_EB 3.6 % \$ 0.28 3.6 100.0% 100.0% 100.0% 0.061 1.7 0 0.06 \$ 0.40 \$ 0.40 F MPS Miscellaneous Lighting_INC150W Electric Stock Existing 2.12 Halogen PAR Flood,90W 40.0% \$ 0.19 1 10.0% 98.7% 9.9% 0.84 2.12 0.08 \$ 0.27 F F MPS Miscellaneous Lighting_INC150W Electric Stock Existing 2.12 HPS,50W 50.07 \$ 5.0% \$ 5.25 12 45.0% 98.0% 44.1% 1.10 2.12 0.52 1.19 \$ 0.62 \$ 0.62 F F MPS Miscellaneous Lighting_INC150W Electric Stock Existing 2.12 HPS,50W 50.0V \$ 0.08 \$ 0.28 \$ 0.27 \$ 0.52 \$ 1.7 \$ 0.08 \$ 0.27 \$ 0.08 \$ 0.27 \$ 0.08 \$ 0.27 \$ 0.08 \$ 0.28 \$ 0.27 \$ 0.08 \$ 0.28 \$ 0.27 \$ 0.08 \$ 0.28 \$ 0.28 \$ 0.27 \$ 0.08 <t< td=""><td>MP:</td><td>S Miscellaneous</td><td>Lighting_4L4T12</td><td>Electric</td><td>Stock</td><td>Existing</td><td>2.12 Continuous Dimming, 5-4' Fluorescent Fixtures</td><td>75.0% \$</td><td>3.69</td><td>26</td><td>30.0%</td><td>100.0%</td><td>30.0%</td><td>1.590</td><td>2.12</td><td>0.48</td><td>1.59</td><td>\$0.22</td><td>\$0.22</td><td>F</td><td>Ē</td></t<>	MP:	S Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	2.12 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$	3.69	26	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	\$0.22	\$0.22	F	Ē
MPS Miscellaneous Lighting_INC150W Electric Stock Existing 2.12 Halogen PAR Flood, 90W 40.0% \$ 0.19 1 10.0% 98.7% 9.9% 0.848 2.12 0.08 0.85 \$0.27 F F MPS Miscellaneous Lighting_INC150W Electric Stock Existing 2.12 HPS,50W 56.0% 5.25 12 45.0% 98.0% 44.1% 1.182 2.12 0.49 1.10 \$1.31 F F MPS Miscellaneous Lighting_INC150W Electric Stock Existing 2.12 LeD Ext Signs 80.0% 9.0% 90.0% 90.0% 90.0% 90.0% 81.0% 1.10 2.12 0.49 1.10 \$1.31 F F MPS Miscellaneous Lighting_INC40W Electric Stock Existing 2.12 LED Ext Signs 80.0% 90.0% 90.0% 90.0% 81.0% 1.10 2.12 1.37 1.70 80.0 80.0 8 9.0% 90.0% 81.0% 1.10 2.12 1.37 1.70 80.0 80.0 8 9.0% 90.0%																					F F
MPS Miscellaneous Lighting_INC160W Electric Stock Existing 2.12 Metal Halide, 50W 52.0% \$ 10.29 12 45.0% 98.0% 44.1% 1.102 2.12 0.49 1.10 \$1.31 \$1.31 F F MPS Miscellaneous Lighting_INC40W Electric Stock Existing 2.12 LED Exit Signs 80.0% \$ 0.06 20 90.0% 90.0% 81.0% 1.696 2.12 1.37 1.70 \$0.00 \$0.00 A A MPS Miscellaneous Lighting_INC75W Electric Stock Existing 2.12 CFL Screen-in, Modular 18W	MP	S Miscellaneous	Lighting_INC150W	Electric	Stock	Existing	2.12 Halogen PAR Flood, 90W	40.0% \$	0.19	1	10.0%	98.7%	9.9%	0.848	2.12	0.08	0.85	\$0.27	\$0.27	F	F
MPS Miscellaneous Lighting_INC40W Electric Stock Existing 2.12 LED Exit Signs 80.0% \$ 0.06 20 90.0% 90.0% 81.0% 1.696 2.12 1.37 1.70 \$0.00 \$0.00 A A MPS Miscellaneous Lighting_INC75W Electric Stock Existing 2.12 CFL Screw-in, Modular 18W 65.3% \$ 2.44 10 90.0% 95.3% 85.8% 1.384 2.12 1.19 1.38 \$0.28 \$0.28 F F						Existing Existing															F
	MP	S Miscellaneous	Lighting_INC40W			Existing			0.06	20	90.0%				2.12				\$0.00		
						Existing															A

Area Building	Туре	End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy Savings	Full Per Uni Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Enoray	Stand Alone Cost Group	
MPS Miscellan		Plug_Load	Electric		Existing	ENERGY STAR or Better Office Equipment: Copiers ENERGY STAR or Better Office Equipment: Monitors	11.4% 16.5%		4	100.0%	65.0%	65.0%	0.114	0.98	0.07	0.11	\$0.12 \$0.14	\$0.13 \$0.16	F	F
MPS Miscellan MPS Miscellan		Plug_Load Plug_Load	Electric Electric		Existing Existing	1 ENERGY STAR of Better Office Equipment: Monitors 1 ENERGY STAR or Better Office Equipment: Computer	18.6%		4		71.0% 65.0%	71.0% 65.0%	0.165 0.186	0.90 0.80	0.11 0.10	0.15 0.15	\$0.14		F	F
MPS Miscellan		Plug_Load	Electric		Existing	1 ENERGY STAR or Better Office Equipment: Printers	9.2%		4 20		65.0% 50.0%	65.0% 12.5%	0.092	0.70 2.76	0.04	0.06	\$0.38 \$0.01	\$0.54 \$0.01	F A	F
MPS Miscellan MPS Miscellan		Space_Heat Space_Heat	Electric		Existing Existing	2.76 Duct Repair and Sealing 2.76 Duct Insulation	2.0%		20		83.4%	20.9%	0.055	2.75	0.01	0.06	\$0.01	\$0.01	A	A
MPS Miscellan		Space_Heat	Electric		Existing Existing	2.76 Clock / Programmable Thermostat 2.76 Ceiling R-0 to R-19 Insulation	30.0% 7.0%				41.8% 13.4%	41.8% 6.7%	0.828 0.193	2.74 2.40	0.34	0.82 0.17	\$0.03 \$0.12	\$0.03 \$0.14	A	A
MPS Miscellan	eous	Space_Heat	Electric		Existing	2.76 Ceiling R-0 to R-19 Insulation 2.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	\$ 0.28	15	50.0%	100.0%	50.0%	0.138	2.39	0.06	0.12	\$0.12		F	F
MPS Miscellan		Space_Heat Water Heat	Electric		Existing Existing	2.76 Ceiling R-19 to R-38 Insulation 1.65 Hot Water (SHW) Pipe Insulation	3.0% 5.0%		20 15		13.4% 100.0%	6.7% 50.0%	0.083	2.33 1.65	0.00		\$0.28 \$0.01	\$0.34 \$0.01	F A	F
MPS Miscellan			Electric		Existing	1.65 Heat Pump Water Heater	30.0%	\$ 3.39	15	75.0%	100.0%	75.0%	0.495	1.61	0.36	0.48	\$0.84	\$0.87	F	F
MPS Miscellan MPS Restaura		Water_Heat Cooling_Chillers	Electric Electric		Existing Existing	1.65 Demand controlled circulating systems 4.49 EMS Optimization	5.0% 1.0%		15 5		100.0% 75.0%	50.0% 75.0%	0.083 0.045	1.25 4.49	0.03		\$7.94 \$0.00		F A	F
MPS Restaura	nt	Cooling_Chillers	Electric	Stock	Existing	4.49 Two-Speed Cooling Tower, 300 Tons	14.0%	\$ 0.01	15	50.0%	90.0%	45.0%	0.629	4.46	0.28	0.62	\$0.00	\$0.00	Α	Ä
MPS Restaura MPS Restaura		Cooling_Chillers Cooling_Chillers	Electric		Existing Existing	4.49 VSD Cooling Tower, 300 Tons 4.49 High Efficiency Windows, Low-e: U=0.35	18.0% 5.4%				90.0% 100.0%	45.0% 50.0%	0.808 0.242	4.18 3.84	0.34	0.75 0.21	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MPS Restaura	nt	Cooling_Chillers	Electric	Stock	Existing	4.49 Installation of Energy Management Systems	10.0%	\$ 0.11	10	50.0%	100.0%	50.0%	0.449	3.73	0.19	0.37	\$0.04	\$0.05	В	Ċ
MPS Restaura MPS Restaura		Cooling_Chillers Cooling_Chillers	Electric		Existing Existing	4.49 Insulation of Pipes 4.49 Primary/Secondary De-coupled Chilled Water System	1.0% 12.0%				50.0% 80.0%	25.0% 40.0%	0.045	3.55 3.54	0.01	0.04 0.42	\$0.06 \$0.07	\$0.07 \$0.08	C D	D F
MPS Restaura	nt	Cooling_Chillers	Electric	Stock	Existing	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.18	10	50.0%	100.0%	50.0%	0.449	3.37	0.17	0.34	\$0.07	\$0.09	D	Ē
MPS Restaura MPS Restaura		Cooling_Chillers Cooling_Chillers	Electric		Existing Existing	4.49 Chiller Tune-Up / Diagnostics 4.49 Optimize Chilled Water and Condenser Water Settings	5.0% 5.0%		5 10		90.0% 50.0%	90.0% 16.5%	0.225 0.225	3.20 3.06	0.14	0.16 0.15	\$0.09 \$0.09	\$0.12 \$0.13	E F	F F
MPS Restaura	nt	Cooling_Chillers	Electric	Stock	Existing	4.49 Installation of Chiller Economizers (water side)	10.0%	\$ 0.59	20	50.0%	100.0%	50.0%	0.449	3.03	0.15	0.30	\$0.14	\$0.21	F	F
MPS Restaura MPS Restaura		Cooling_Chillers Cooling_Chillers	Electric		Existing Existing	4.49 Ceiling R-0 to R-19 Insulation 4.49 Ceiling R-19 to R-38 Insulation	2.1% 0.9%				100.0% 100.0%	50.0% 50.0%	0.094 0.040	2.88 2.85	0.03	0.06 0.03	\$0.25 \$0.59	\$0.39 \$0.93	F F	F F
MPS Restaura	nt	Cooling_DX	Electric	Stock	Existing	4.49 Duct Insulation	3.0%	\$ 0.01	20	25.0%	25.0%	6.3%	0.135	4.49	0.01	0.13	\$0.01	\$0.01	A	A
MPS Restaura MPS Restaura		Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.49 Clock / Programmable Thermostat 4.49 High Efficiency Windows, Low-e; U=0.35	10.0% 5.0%				80.4% 100.0%	80.4% 50.0%	0.449 0.225	4.48 4.12	0.36 0.10		\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Restaura	nt	Cooling_DX	Electric	Stock	Existing	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.18	10	50.0%	100.0%	50.0%	0.449	4.02	0.20	0.40	\$0.07	\$0.07	D	D
MPS Restaura MPS Restaura		Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.49 Duct Repair and Sealing 4.49 Installation of Air Side Economizers	1.0% 15.0%				50.0% 55.4%	12.5% 55.4%	0.045 0.674	3.82 3.81	0.00 0.32	0.04 0.57	\$0.09 \$0.14	\$0.11 \$0.16	E F	F
MPS Restaura	nt	Cooling_DX	Electric	Stock	Existing	4.49 DX Tune-Up / Diagnostics	10.0%	\$ 0.15	3	100.0%	90.0%	90.0%	0.449	3.50	0.31	0.35	\$0.14		F	F
MPS Restaura MPS Restaura		Cooling_DX Cooling_DX	Electric		Existing Existing	4.49 Ceiling R-0 to R-19 Insulation 4.49 Ceiling R-19 to R-38 Insulation	2.1%				100.0% 100.0%	50.0% 50.0%	0.094 0.040	3.18 3.15	0.03	0.07 0.03	\$0.25 \$0.59	\$0.36 \$0.84	F	F
MPS Restaura	nt	Cooling_HeatPump	Electric		Existing	4.49 Duct Insulation	3.0%	\$ 0.01	20		25.0%	6.3%	0.135	4.49	0.01	0.13	\$0.01	\$0.01	A	A
MPS Restaura MPS Restaura		Cooling_HeatPump Cooling_HeatPump	Electric		Existing Existing	4.49 Clock / Programmable Thermostat 4.49 High Efficiency Windows, Low-e; U=0.35	10.0% 5.0%				80.4% 100.0%	80.4% 50.0%	0.449 0.225	4.48 4.12	0.36 0.10	0.45 0.21	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
MPS Restaura	nt	Cooling_HeatPump	Electric		Existing	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%				100.0%	50.0%	0.449	4.02	0.20		\$0.07		D	D
MPS Restaura MPS Restaura		Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.49 Duct Repair and Sealing 4.49 Installation of Air Side Economizers	1.0% 15.0%				50.0% 55.4%	25.0% 55.4%	0.045	3.82 3.81	0.01	0.04 0.57	\$0.09 \$0.14	\$0.11 \$0.16	E F	F
MPS Restaura MPS Restaura		Cooling_HeatPump	Electric		Existing Existing	4.49 DX Tune-Up / Diagnostics 4.49 Ceiling R-0 to R-19 Insulation	10.0% 2.1%				90.0% 100.0%	90.0% 50.0%	0.449 0.094	3.49 3.18	0.31	0.35 0.07	\$0.14 \$0.25	\$0.18 \$0.36	F	F
MPS Restaura		Cooling_HeatPump Cooling_HeatPump	Electric		Existing	4.49 Ceiling R-19 to R-38 Insulation	0.9%				100.0%	50.0%	0.094	3.14	0.03	0.07	\$0.25 \$0.59		F	F
MPS Restaura MPS Restaura		Lighting_2L4T12 Lighting_2L4T12	Electric		Existing Existing	8.74 Occupancy Sensor, 8-4' Fluorescent Fixtures 8.74 4' 1L T8 Premium. EB. reflector	30.0% 61.1%				95.7% 100.0%	9.6% 33.3%	2.622 5.341	8.74 8.74	0.25 1.78	2.62 5.34	\$0.02 \$0.03	\$0.02 \$0.03	A B	A
MPS Restaura		Lighting_2L4T12	Electric	Stock	Existing	8.74 4' 2L T8 Premium, EB	25.0%	\$ 0.79	22	33.3%	100.0%	33.3%	2.185	8.74	0.73	2.19	\$0.03	\$0.03	В	В
MPS Restaura MPS Restaura		Lighting_2L4T12 Lighting_2L4T12	Electric Electric		Existing Existing	8.74 4' 1L T5HO, EB 8.74 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% 75.0%				100.0% 100.0%	33.3% 12.0%	1.215 6.555	8.74 8.74	0.40 0.79		\$0.05 \$0.07	\$0.05 \$0.07	C D	C D
MPS Restaura	nt	Lighting_2L4T8	Electric	Stock	Existing	6.99 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	\$ 0.46	13	10.0%	95.7%	9.6%	2.097	6.99	0.20	2.10	\$0.03	\$0.03	Α	Α
MPS Restaura MPS Restaura		Lighting_2L4T8 Lighting_2L8T12	Electric		Existing Existing	6.99 4' 2L T8 Premium, EB 8.74 8' 2L T8, EB	8.5% 52.8%				100.0% 100.0%	100.0% 50.0%	0.594 4.615	6.99 8.74	0.59 2.31	0.59 4.61	\$0.05 \$0.01	\$0.05 \$0.01	C A	C A
MPS Restaura	nt	Lighting_2L8T12	Electric		Existing	8.74 8' 1L T12, 60W, EB, reflector	55.3%	\$ 0.84	22	25.0%	100.0%	25.0%	4.833	8.74	1.21	4.83	\$0.02	\$0.02	Ä	Ä
MPS Restaura MPS Restaura		Lighting_2L8T12 Lighting_2L8T12	Electric		Existing Existing	8.74 8' 2L T12, 60W, EB 8.74 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% 30.0%				68.1% 95.7%	17.0% 9.6%	0.924 2.622	8.74 8.74	0.16		\$0.02 \$0.03	\$0.02 \$0.03	A A	A A
MPS Restaura	nt	Lighting_2L8T12	Electric	Stock	Existing	8.74 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	\$ 4.37	16	12.0%	100.0%	12.0%	6.555	8.74	0.79	6.56	\$0.08	\$0.08	E	Ē
MPS Restaura MPS Restaura		Lighting_3L4T12 Lighting_3L4T12	Electric		Existing Existing	8.74 4' 1L T5HO, EB 8.74 4' 3L T8, EB	46.1% 22.6%				100.0% 100.0%	75.0% 75.0%	4.028 1.976	8.74 8.74	3.02 1.48	4.03 1.98	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Restaura	nt	Lighting_3L4T12	Electric	Stock	Existing	8.74 4' 2L T8 Premium, EB, reflector	53.0%	\$ 0.22	22	40.0%	100.0%	40.0%	4.636	8.74	1.85	4.64	\$0.00	\$0.00	Α	A
MPS Restaura MPS Restaura		Lighting_3L4T12 Lighting_3L4T8	Electric		Existing Existing	8.74 4' 3L T8 Premium, EB 6.99 4' 3L T8 Premium. EB	22.6% 6.7%				100.0% 100.0%	75.0% 100.0%	1.976 0.468	8.74 6.99	1.48 0.47	1.98 0.47	\$0.01 \$0.09	\$0.01 \$0.09	A E	A E
MPS Restaura		Lighting_4L4T12	Electric		Existing	8.74 4' 3L T8, EB	38.2%		22	16.7%	100.0%	16.7%	3.339	8.74	0.56	3.34	\$0.00	\$0.00	A	A
MPS Restaura MPS Restaura		Lighting_4L4T12 Lighting_4L4T12	Electric		Existing Existing	8.74 4' 3L T8 Premium, EB 8.74 4' 4L T8, EB	42.4% 22.2%				100.0% 100.0%	16.7% 16.7%	3.702 1.942	8.74 8.74	0.62 0.32		\$0.01 \$0.01		A A	A A
MPS Restaura MPS Restaura	nt	Lighting_4L4T12	Electric	Stock	Existing	8.74 4' 2L T8 Premium, EB, reflector 8.74 4' 2L T5HO, EB	62.5% 18.8%	\$ 0.76	22	16.7%	100.0% 100.0%	16.7% 16.7%	5.463 1.639	8.74 8.74	0.91 0.27	5.46 1.64	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
MPS Restaura MPS Restaura		Lighting_4L4T12 Lighting_4L4T12	Electric		Existing Existing	8.74 4' 2L 15HO, EB 8.74 4' 4L T8 Premium, EB	25.0%	\$ 0.51	22	16.7%	100.0%	16.7% 16.7%	2.185	8.74	0.36	2.19	\$0.02 \$0.02	\$0.02 \$0.02	A	A
MPS Restaura MPS Restaura	nt	Lighting_4L4T12 Lighting_4L4T12	Electric		Existing Existing	8.74 Occupancy Sensor, 4-4' Fluorescent Fixtures 8.74 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% 75.0%		13 16		95.7% 100.0%	9.6% 12.0%	2.622 6.555	8.74 8.74	0.25 0.79		\$0.03 \$0.07	\$0.03 \$0.07	A D	A D
MPS Restaura	nt	Lighting_4L4T8	Electric	Stock	Existing	6.99 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	\$ 0.53	13	10.0%	95.7%	9.6%	2.097	6.99	0.20	2.10	\$0.03	\$0.03	В	В
MPS Restaura MPS Restaura	nt	Lighting_4L4T8 Lighting_INC150W	Electric		Existing Existing	6.99 4' 4L T8 Premium, EB 8.74 Halogen PAR Flood, 90W	3.6% 40.0%		22		100.0% 100.0%	100.0% 10.0%	0.252 3.496	6.99 8.74	0.25 0.35	0.25 3.50	\$0.13 \$0.06	\$0.13 \$0.06	F D	F D
MPS Restaura	nt	Lighting_INC150W	Electric	Stock	Existing	8.74 HPS, 50W	56.0%	\$ 5.10	8	45.0%	90.4%	40.7%	4.894	8.74	1.99	4.89	\$0.19	\$0.19	F	F
MPS Restaura MPS Restaura		Lighting_INC150W Lighting_INC40W	Electric		Existing Existing	8.74 Metal Halide, 50W 8.74 LED Exit Signs	52.0% 80.0%				90.4%	40.7% 81.0%	4.545 6.992	8.74 8.74	1.85 5.66	4.54 6.99	\$0.41 \$0.00	\$0.41 \$0.00	F A	F A
MPS Restaura	nt	Lighting_INC75W	Electric	Stock	Existing	8.74 CFL Screw-in, Modular 18W	65.3%	\$ 2.33	6	50.0%	89.1%	44.5%	5.707	8.74	2.54	5.71	\$0.10	\$0.10	E	Ë
MPS Restaura MPS Restaura		Plug_Load Plug_Load	Electric		Existing Existing	0.23 Smart Networks 0.23 ENERGY STAR or Better Office Equipment: Monitors	6.8% 16.3%				40.0% 71.0%	36.0% 71.0%	0.016 0.038	0.23 0.22	0.01	0.02 0.04	\$0.03 \$0.13		A F	A F
MPS Restaura	nt	Plug_Load	Electric	Stock	Existing	0.23 ENERGY STAR or Better Office Equipment: Copiers	7.8%	\$ 0.01	4	100.0%	65.0%	65.0%	0.018	0.20	0.01	0.02	\$0.21	\$0.24	F	F
MPS Restaura MPS Restaura		Plug_Load Plug_Load	Electric		Existing Existing	0.23 ENERGY STAR or Better Office Equipment: Computer 0.23 ENERGY STAR or Better Office Equipment: Printers	18.4% 15.0%				65.0% 65.0%	65.0% 65.0%	0.042	0.19 0.17	0.02	0.03 0.02	\$0.24 \$0.34			F F
MPS Restaura	nt	Refrigeration	Electric	Stock	Existing	7.67 Night Covers for Display Cases	5.8%	\$ 0.01	5	50.0%	95.0%	47.5%	0.445	7.67	0.21	0.44	\$0.01	\$0.01	Α	Ā
MPS Restaura MPS Restaura		Refrigeration Refrigeration	Electric Electric		Existing Existing	7.67 Anti-Sweat (Humidistat) Controls 7.67 Demand Control Defrost - Electric	5.0% 7.8%				48.0% 48.0%	48.0% 48.0%	0.383 0.595	7.46 7.28	0.18 0.27		\$0.01 \$0.01		A A	A A
MPS Restaura	nt	Refrigeration	Electric	Stock	Existing	7.67 Installation of Floating Condenser Head Pressure Controls	6.8%	\$ 0.12	14	100.0%	44.4%	44.4%	0.524	7.01	0.21	0.48	\$0.03	\$0.03	В	В
MPS Restaura MPS Restaura		Refrigeration Refrigeration	Electric		Existing Existing	7.67 Strip Curtains for Walk-Ins 7.67 Demand Control Defrost - Hot Gas	4.0% 2.5%				30.0% 69.6%	30.0% 69.6%	0.309 0.192	6.80 6.71	0.08 0.12		\$0.05 \$0.05	\$0.06 \$0.06	C	C D
MPS Restaura	nt	Refrigeration	Electric	Stock	Existing	7.67 Refrigeration Commissioning	5.0%	\$ 0.06	3	100.0%	50.0%	50.0%	0.384	6.60	0.16	0.33	\$0.07	\$0.08		Ē
MPS Restaura MPS Restaura		Refrigeration Refrigeration	Electric		Existing Existing	7.67 Compressor VSD retrofit 7.67 High Efficiency Case Fans	6.2% 12.0%					47.5% 95.0%	0.476	6.43 6.24	0.19	0.40 0.75	\$0.14 \$0.15	\$0.16 \$0.18	F	F
MPS Restaura	nt	Refrigeration	Electric	Stock	Existing	7.67 Reduced Speed or Cycling of Evaporator Fans	0.6%	\$ 0.09	5	100.0%	80.0%	80.0%	0.042	5.53	0.02	0.03	\$0.58	\$0.80	F	F
MPS Restaura MPS Restaura		Space_Heat Space Heat	Electric		Existing Existing	3.76 Duct Repair and Sealing 3.76 Clock / Programmable Thermostat	2.0% 30.0%				50.0% 46.2%	12.5% 46.2%	0.075 1.128	3.76 3.75	0.01 0.52	0.08 1.13	\$0.02 \$0.02		A A	A A
MPS Restaura	nt	Space_Heat	Electric	Stock	Existing	3.76 Duct Insulation	2.0%	\$ 0.03	20	25.0%	56.8%	14.2%	0.075	3.23	0.01	0.06	\$0.05	\$0.05	С	С
MPS Restaura MPS Restaura		Space_Heat Space_Heat	Electric	Stock Stock	Existing Existing	3.76 Ceiling R-0 to R-19 Insulation 3.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	7.0% 5.0%					33.5% 50.0%	0.263 0.188	3.22 3.15	0.08 0.08		\$0.09 \$0.18			F
O INCOMUNIA		opase_i leat	LIGUITO	JIOUR	LAISTING	5.75 modulation of Automated Dalibling Ventulation Control (Via Occupancy Octions, CO2 Selistis, Etc.)	5.076	Ų 0.20	15	30.076	100.078	30.076	0.100	5.15	0.00	0.10	ψ0.10	ψυ.22		

Area Building Type	e End-Use	Fuel Efficien	icy Vintage	EUI Measure Names	Energy Fu Savings	ıll Per Unit M Cost	fleasure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor *	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Energy	Stand Alone Cost Group	
MPS Restaurant	Space_Heat	Electric Stock	Existing	3.76 Ceiling R-19 to R-38 Insulation	3.0% \$	0.22	20	50.0%	67.0%	Incomp Factor) 33.5%	0.113	3.07	0.03	0.09	\$0.21	\$0.26	F	F
MPS Restaurant MPS Restaurant	Water_Heat Water Heat	Electric Stock Electric Stock	Existing Existing	9.19 Hot Water (SHW) Pipe Insulation 9.19 Heat Pump Water Heater	5.0% \$ 30.0% \$	0.02 1.80	15 15	50.0% 75.0%	100.0% 100.0%	50.0% 75.0%	0.460 2.757	9.19 8.96	0.23 2.02	0.46 2.69	\$0.01 \$0.08	\$0.01 \$0.08	A E	A E
MPS Restaurant	Water_Heat	Electric Stock	Existing	9.19 Demand controlled circulating systems	5.0% \$	2.83	15	50.0%	100.0%	50.0%		6.94	0.17	0.35	\$0.76	\$1.00	F	F
MPS Retail MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.14 EMS Optimization 3.14 Two-Speed Cooling Tower, 300 Tons	1.0% \$ 14.0% \$	0.01	5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.031 0.440	3.14 3.12	0.02 0.20	0.03 0.44	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
MPS Retail MPS Retail	Cooling_Chillers	Electric Stock	Existing Existing	3.14 High Efficiency Windows, Low-e; U=0.35	10.3% \$ 18.0% \$	0.03	30 15	75.0% 50.0%	100.0% 90.0%	75.0%	0.324	2.92	0.23 0.22	0.30 0.48	\$0.01 \$0.01	\$0.01 \$0.02	A	A
MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing	3.14 VSD Cooling Tower, 300 Tons 3.14 Installation of Energy Management Systems	18.0% \$	0.06	10	50.0%	100.0%	45.0% 50.0%	0.565	2.69	0.22	0.48	\$0.01	\$0.02	A E	E
MPS Retail MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.14 Insulation of Pipes 3.14 Primary/Secondary De-coupled Chilled Water System	1.0% \$ 12.0% \$	0.03 0.38	20 15	50.0% 50.0%	50.0% 80.0%	25.0% 40.0%	0.031 0.377	2.35 2.35	0.01 0.11	0.02 0.28	\$0.09 \$0.12	\$0.12 \$0.16	E	F
MPS Retail	Cooling_Chillers	Electric Stock	Existing	3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.34	10	50.0%	100.0%	50.0%	0.314	2.23	0.11	0.22	\$0.12	\$0.17	F	F
MPS Retail MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.14 Optimize Chilled Water and Condenser Water Settings 3.14 Installation of Chiller Economizers (water side)	5.0% \$ 10.0% \$	0.17 0.59	10 20	33.0% 50.0%	50.0% 100.0%	16.5% 50.0%	0.157 0.314	2.12 2.10	0.02 0.11	0.11 0.21	\$0.17 \$0.20	\$0.25 \$0.30	F	F
MPS Retail	Cooling_Chillers	Electric Stock	Existing	3.14 Ceiling R-0 to R-19 Insulation	2.1% \$	0.24	20	50.0%	100.0%	50.0%	0.066	2.00	0.02	0.04	\$0.38	\$0.60	F	F
MPS Retail MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	3.14 Ceiling R-19 to R-38 Insulation 3.14 Chiller Tune-Up / Diagnostics	0.9% \$ 0.9% \$	0.24 0.09	20 5	50.0% 100.0%	100.0% 90.0%	50.0% 90.0%	0.028 0.028	1.98 1.97	0.01 0.02	0.02 0.02	\$0.89 \$0.90	\$1.41 \$1.43	F	F
MPS Retail	Cooling_DX	Electric Stock	Existing	3.14 Ceiling R-19 to R-38 Insulation	0.9% \$	-	20	50.0%	100.0%	50.0%	0.028	3.14	0.01	0.03	\$0.00	\$0.00	A	A
MPS Retail MPS Retail	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	3.14 Clock / Programmable Thermostat 3.14 Duct Insulation	10.0% \$ 3.0% \$	0.05 0.03	10 20	100.0% 25.0%	50.0% 25.0%	50.0% 6.3%		3.13 2.97	0.16 0.01	0.31 0.09	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
MPS Retail	Cooling_DX	Electric Stock	Existing	3.14 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.08	30	75.0%	100.0%	75.0%	0.157	2.96	0.11	0.15	\$0.05	\$0.05	В	Č
MPS Retail MPS Retail	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.14 Duct Repair and Sealing	10.0% \$ 1.0% \$	0.24	10 20	50.0% 25.0%	100.0% 50.0%	50.0% 12.5%	0.314 0.031	2.85	0.14	0.29	\$0.12 \$0.14	\$0.14 \$0.16	F	F
MPS Retail	Cooling_DX	Electric Stock	Existing	3.14 Installation of Air Side Economizers	15.0% \$	0.59	10	100.0%	92.3%	92.3%	0.471	2.71	0.37	0.41	\$0.20	\$0.23	F	F
MPS Retail MPS Retail	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	3.14 DX Tune-Up / Diagnostics 3.14 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$	0.20 0.24	3 20	100.0% 50.0%	90.0% 100.0%	90.0% 50.0%	0.314 0.066	2.33 2.12	0.21 0.02	0.23 0.04	\$0.26 \$0.38	\$0.35 \$0.56	F	F
MPS Retail	Cooling_HeatPump	Electric Stock	Existing	3.14 Clock / Programmable Thermostat	10.0% \$	0.05	10	100.0%	50.0%	50.0%	0.314	3.14	0.16	0.31	\$0.03	\$0.03	A	A
MPS Retail MPS Retail	Cooling_HeatPump Cooling_HeatPump		Existing Existing	3.14 Duct Insulation 3.14 High Efficiency Windows, Low-e; U=0.35	3.0% \$ 5.0% \$	0.03	20 30	25.0% 75.0%	25.0% 100.0%	6.3% 75.0%	0.094 0.157	2.98 2.98	0.01 0.11	0.09 0.15	\$0.04 \$0.05	\$0.04 \$0.05	B B	B C
MPS Retail	Cooling_HeatPump	Electric Stock	Existing	3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.24	10	50.0%	100.0%	50.0%	0.314	2.87	0.14	0.29	\$0.12	\$0.13	Ē	F
MPS Retail MPS Retail	Cooling_HeatPump Cooling_HeatPump		Existing Existing	3.14 Duct Repair and Sealing 3.14 Installation of Air Side Economizers	1.0% \$ 15.0% \$	0.04 0.59	20 10	25.0% 100.0%	50.0% 92.3%	12.5% 92.3%		2.72 2.72	0.00 0.38	0.03 0.41	\$0.14 \$0.20	\$0.16 \$0.23	F F	F F
MPS Retail	Cooling_HeatPump	Electric Stock	Existing	3.14 DX Tune-Up / Diagnostics	10.0% \$	0.20	3	100.0%	90.0%	90.0%	0.314	2.34	0.21	0.23	\$0.26	\$0.35	F	F
MPS Retail MPS Retail	Cooling_HeatPump Cooling_HeatPump	Electric Stock Electric Stock	Existing Existing	3.14 Ceiling R-0 to R-19 Insulation 3.14 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$	0.24 0.24	20 20	50.0% 50.0%	100.0% 100.0%	50.0% 50.0%	0.066 0.028	2.13 2.11	0.02 0.01	0.04 0.02	\$0.38 \$0.89	\$0.56 \$1.32	F F	F
MPS Retail	Lighting_2L4T12	Electric Stock	Existing	5.89 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0% \$	0.52	14	10.0%	100.0%	10.0%	1.767	5.89	0.18	1.77	\$0.04	\$0.04	В	В
MPS Retail MPS Retail	Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	5.89 4' 1L T8 Premium, EB, reflector 5.89 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$	1.80 0.88	25 25	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	3.599 1.473	5.89 5.89	1.20 0.49	3.60 1.47	\$0.05 \$0.06	\$0.05 \$0.06	C	C C
MPS Retail	Lighting_2L4T12	Electric Stock	Existing	5.89 4' 1L T5HO, EB	13.9% \$	0.67	25	33.3%	100.0%	33.3%	0.819	5.89	0.27	0.82	\$0.08	\$0.08	E	Ē
MPS Retail MPS Retail	Lighting_2L4T12 Lighting_2L4T8	Electric Stock Electric Stock	Existing Existing	5.89 Continuous Dimming, 10-4' Fluorescent Fixtures 4.71 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% \$ 30.0% \$	4.35 0.52	18 14	50.0% 10.0%	100.0% 100.0%	50.0% 10.0%	4.418 1.413	5.89 4.71	2.21 0.14	4.42 1.41	\$0.11 \$0.05	\$0.11 \$0.05	F C	C
MPS Retail	Lighting_2L4T8	Electric Stock	Existing	4.71 4' 2L T8 Premium, EB	8.5% \$	0.30	25	100.0%	100.0%	100.0%	0.400	4.71	0.40	0.40	\$0.07	\$0.07	D	D
MPS Retail MPS Retail	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	5.89 8' 2L T8, EB 5.89 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$	0.44 0.96	25 25	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	3.110 3.257	5.89 5.89	1.55 0.81	3.11 3.26	\$0.01 \$0.03	\$0.01 \$0.03	A A	A A
MPS Retail	Lighting_2L8T12	Electric Stock	Existing	5.89 8' 2L T12, 60W, EB	10.6% \$	0.21	25 14	25.0%	95.4%	23.9%		5.89	0.15	0.62	\$0.03	\$0.03	В	В
MPS Retail MPS Retail	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	5.89 Occupancy Sensor, 4-8' Fluorescent Fixtures 5.89 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% \$ 75.0% \$	0.67 5.02	18	10.0% 20.0%	100.0% 100.0%	10.0% 20.0%	1.767 4.418	5.89 5.89	0.18 0.88	1.77 4.42	\$0.05 \$0.13	\$0.05 \$0.13	C F	F
MPS Retail	Lighting_3L4T12	Electric Stock	Existing	5.89 4' 1L T5HO, EB 5.89 4' 3I T8 FB	46.1% \$	0.12	25	75.0%	100.0%	75.0%	2.715	5.89	2.04	2.71	\$0.00	\$0.00	A	A
MPS Retail MPS Retail	Lighting_3L4T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing Existing	5.89 4' 3L T8 Premium, EB, reflector	22.6% \$ 53.0% \$	0.11 0.70	25 25	75.0% 40.0%	100.0% 100.0%	75.0% 40.0%		5.89 5.89	1.00 1.25	1.33 3.12	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Retail MPS Retail	Lighting_3L4T12	Electric Stock	Existing	5.89 4' 3L T8 Premium, EB 4.71 4' 3L T8 Premium, EB	22.6% \$	0.31 0.49	25 25	75.0%	100.0%	75.0%	1.332	5.89 4.71	1.00	1.33 0.32	\$0.02	\$0.02 \$0.15	A	A
MPS Retail	Lighting_3L4T8 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.89 4' 3L T8, EB	6.7% \$ 38.2% \$	0.49	25	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.316 2.250	5.89	0.32 0.37	2.25	\$0.15 \$0.00	\$0.15	A	A
MPS Retail	Lighting_4L4T12	Electric Stock	Existing	5.89 4' 3L T8 Premium, EB 5.89 4' 4L T8. EB	42.4% \$	0.35	25 25	16.7%	100.0%	16.7%		5.89	0.42	2.50	\$0.01	\$0.01	A	A
MPS Retail MPS Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.89 4' 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$	0.23 0.83	25 25	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%		5.89 5.89	0.22 0.61	1.31 3.68	\$0.02 \$0.02	\$0.02 \$0.02	A A	A
MPS Retail MPS Retail	Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.89 4' 2L T5HO, EB 5.89 4' 4L T8 Premium. EB	18.8% \$ 25.0% \$	0.32 0.55	25 25	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.104	5.89 5.89	0.18 0.25	1.10 1.47	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
MPS Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Stock	Existing	5.89 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0% \$	0.58	14	10.0%	100.0%	10.0%		5.89	0.23	1.77	\$0.04	\$0.04	В	В
MPS Retail MPS Retail	Lighting_4L4T12 Lighting_4L4T8	Electric Stock Electric Stock	Existing Existing	5.89 Continuous Dimming, 5-4' Fluorescent Fixtures 4.71 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% \$ 30.0% \$	4.37 0.58	18 14	50.0% 10.0%	100.0% 100.0%	50.0% 10.0%	4.418 1.413	5.89 4.71	2.21 0.14	4.42 1.41	\$0.11 \$0.05	\$0.11 \$0.05	F C	F
MPS Retail	Lighting_4L4T8	Electric Stock	Existing	4.71 4' 4L T8 Premium, EB	3.6% \$	0.34	25	100.0%	100.0%	100.0%	0.170	4.71	0.17	0.17	\$0.19	\$0.19	F	F
MPS Retail MPS Retail	Lighting_INC150W Lighting_INC150W	Electric Stock Electric Stock	Existing Existing	5.89 Halogen PAR Flood, 90W 5.89 HPS, 50W	40.0% \$ 56.0% \$	0.19 5.13	1 8	10.0% 45.0%	99.3% 91.6%	9.9% 41.2%	2.356 3.298	5.89 5.89	0.23 1.36	2.36 3.30	\$0.09 \$0.29	\$0.09 \$0.29	E	E
MPS Retail	Lighting_INC150W	Electric Stock	Existing	5.89 Metal Halide, 50W	52.0% \$	10.05	8	45.0%	91.6%	41.2%	3.063	5.89	1.26	3.06	\$0.61	\$0.61	F	F
MPS Retail MPS Retail	Lighting_INC40W Lighting_INC75W	Electric Stock Electric Stock	Existing Existing	5.89 LED Exit Signs 5.89 CFL Screw-in, Modular 18W	80.0% \$ 65.3% \$	0.06 2.80	20 7	90.0% 50.0%	90.0% 75.0%	81.0% 37.5%	4.712 3.846	5.89 5.89	3.82 1.44	4.71 3.85	\$0.00 \$0.15	\$0.00 \$0.15	A F	A F
MPS Retail	Plug_Load	Electric Stock	Existing	0.15 Smart Networks	6.4% \$	0.00	4	90.0%	40.0%	36.0%	0.010	0.15	0.00	0.01	\$0.02	\$0.02	A	A
MPS Retail MPS Retail	Plug_Load Plug Load	Electric Stock Electric Stock	Existing Existing	0.15 ENERGY STAR or Better Office Equipment: Monitors 0.15 ENERGY STAR or Better Office Equipment: Copiers	15.3% \$ 9.6% \$	0.01 0.01	4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.023 0.014	0.15 0.13	0.02 0.01	0.02 0.01	\$0.10 \$0.12	\$0.11 \$0.13	F F	F
MPS Retail	Plug_Load	Electric Stock	Existing	0.15 ENERGY STAR or Better Office Equipment: Computer	17.2% \$	0.01	4	100.0%	65.0%	65.0%	0.026	0.12	0.01	0.02	\$0.18	\$0.23	F	F
MPS Retail MPS Retail	Plug_Load Space_Heat	Electric Stock Electric Stock	Existing Existing	0.15 ENERGY STAR or Better Office Equipment: Printers 4.59 Duct Repair and Sealing	14.6% \$ 2.0% \$	0.02 0.01	4 20	100.0% 25.0%	65.0% 50.0%	65.0% 12.5%	0.022 0.092	0.11 4.59	0.01 0.01	0.02 0.09	\$0.31 \$0.01	\$0.43 \$0.01	F A	A
MPS Retail	Space_Heat	Electric Stock	Existing	4.59 Duct Insulation	2.0% \$	0.01	20	25.0%	84.9%	21.2%	0.092	4.58	0.02	0.09	\$0.01	\$0.01	A	A
MPS Retail MPS Retail	Space_Heat Space_Heat	Electric Stock Electric Stock	Existing Existing	4.59 Clock / Programmable Thermostat 4.59 Ceiling R-0 to R-19 Insulation	30.0% \$ 7.0% \$	0.15 0.24	10 20	100.0% 50.0%	50.0% 55.7%	50.0% 27.9%		4.56 3.88	0.68 0.08	1.37 0.27	\$0.02 \$0.08	\$0.02 \$0.09	A E	E
MPS Retail MPS Retail	Space_Heat	Electric Stock	Existing	4.59 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$ 3.0% \$	0.28	15 20	50.0%	100.0% 55.7%	50.0% 27.9%		3.80 3.70	0.09	0.19 0.11	\$0.15 \$0.18	\$0.18 \$0.23	F	F
MPS Retail	Space_Heat Water_Heat	Electric Stock Electric Stock	Existing Existing	4.59 Ceiling R-19 to R-38 Insulation 1.01 Hot Water (SHW) Pipe Insulation	3.0% \$ 5.0% \$	0.24 0.03	20 15	50.0% 50.0%	55.7% 100.0%	27.9% 50.0%	0.138	1.01	0.03 0.03	0.11	\$0.18 \$0.06	\$0.23 \$0.06	D	D
MPS Retail MPS Retail	Water_Heat Water_Heat	Electric Stock Electric Stock	Existing Existing	1.01 Heat Pump Water Heater	30.0% \$ 5.0% \$	2.49	15 15	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%		0.98 0.76	0.22	0.30 0.04	\$1.01 \$9.50	\$1.04 \$12.58	F	F
MPS School	Cooling_Chillers	Electric Stock	Existing	1.01 Demand controlled circulating systems 1.51 EMS Optimization	1.0% \$	3.90	5	100.0%	75.0%	75.0%	0.015	1.51	0.01	0.02	\$0.00	\$0.00	A	A
MPS School MPS School	Cooling_Chillers	Electric Stock	Existing Existing	1.51 Two-Speed Cooling Tower, 300 Tons	14.0% \$ 18.0% \$	0.01 0.05	15 15	50.0% 50.0%	90.0% 90.0%	45.0% 45.0%	0.211 0.272	1.50 1.40	0.09 0.11	0.21	\$0.00 \$0.02	\$0.00 \$0.03	A	A
MPS School	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing	1.51 VSD Cooling Tower, 300 Tons 1.51 High Efficiency Windows, Low-e; U=0.35	3.9% \$	0.05	30	75.0%	66.0%	49.5%	0.059	1.29	0.11	0.25 0.05	\$0.03	\$0.03	A	В
MPS School	Cooling_Chillers	Electric Stock Electric Stock	Existing	1.51 Insulation of Pipes	1.0% \$	0.02 0.14	20 10	50.0%	50.0% 70.7%	25.0%	0.015	1.27	0.00	0.01 0.13	\$0.11	\$0.13 \$0.17	F	F
MPS School MPS School	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing Existing	1.51 Installation of Energy Management Systems 1.51 Primary/Secondary De-coupled Chilled Water System	10.0% \$ 12.0% \$	0.34	15	50.0% 50.0%	80.0%	35.3% 40.0%	0.181	1.26 1.22	0.04 0.06	0.15	\$0.14 \$0.23	\$0.28	F	F
MPS School	Cooling_Chillers	Electric Stock Electric Stock	Existing	1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.51 Chiller Tune-Up / Diagnostics	10.0% \$	0.22	10 5	50.0%	100.0%	50.0%	0.151	1.16	0.06	0.12	\$0.23	\$0.30 \$0.42	F	F
MPS School MPS School	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing Existing	1.51 Optimize Chilled Water and Condenser Water Settings	5.0% \$ 5.0% \$	0.08 0.15	10	100.0% 33.0%	90.0% 50.0%	90.0% 16.5%	0.076	1.10 1.05	0.05 0.01	0.06 0.05	\$0.30 \$0.31	\$0.45	F	F
MPS School MPS School	Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	1.51 Installation of Chiller Economizers (water side) 1.51 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$	0.59 0.23	20 20	50.0% 50.0%	81.3% 23.4%	40.6% 11.7%	0.151 0.032	1.04 1.00	0.04	0.10	\$0.42 \$0.78	\$0.60 \$1.18	F	F
MPS School	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing	1.51 Ceiling R-19 to R-38 Insulation	0.9% \$	0.23	20	50.0%	23.4%	11.7%	0.014	1.00	0.00	0.01	\$1.83	\$2.76	F	F
MPS School MPS School	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	1.51 Ceiling R-19 to R-38 Insulation 1.51 Duct Insulation	0.9% \$ 3.0% \$	0.01	20 20	50.0% 25.0%	23.4% 25.0%	11.7% 6.3%		1.51 1.51	0.00	0.01 0.05	\$0.00 \$0.02		A	A
5 501001	Jooning_DA	LIGOTIO STOCK	LABUIN	Data modificati	J.U /0 \$	0.01	20	25.0 /6	25.0 /6	0.3%	0.040	1.51	0.00	0.05	φυ.υ2	φυ.υ2	^	^

Area Building Type	End-Use	Fuel	Efficience	cy Vintage	EUI Measure Names	Energy Savings	Full Per Uni Cost	t Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
MPS School MPS School	Cooling_DX	Electric Electric		Existing	1.51 Clock / Programmable Thermostat 1.51 High Efficiency Windows, Low-e: U=0.35	10.0% 5.0%				41.1%	41.1%	0.151 0.076	1.51 1.44	0.06 0.04	0.15 0.07	\$0.05 \$0.05	\$0.05 \$0.05	C C	C
MPS School	Cooling_DX Cooling_DX	Electric		Existing Existing	1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%				66.0% 100.0%	49.5% 50.0%	0.076	1.44		0.07	\$0.05		F	F
MPS School MPS School	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	1.51 Duct Repair and Sealing 1.51 Installation of Air Side Economizers	1.0% 15.0%				50.0% 41.1%	12.5% 41.1%	0.015 0.227	1.34 1.34	0.00	0.01 0.20	\$0.28 \$0.41	\$0.32 \$0.47	F	F
MPS School	Cooling_DX	Electric	Stock	Existing	1.51 DX Tune-Up / Diagnostics	10.0%	\$ 0.18	3	100.0%	90.0%	90.0%	0.151	1.25	0.11	0.13	\$0.49	\$0.59	F	F
MPS School MPS School	Cooling_DX Cooling HeatPump	Electric Electric		Existing Existing	1.51 Ceiling R-0 to R-19 Insulation 1.51 Duct Insulation	2.1% 3.0%		20 20		23.4% 25.0%	11.7% 6.3%	0.032 0.045	1.14 1.51	0.00		\$0.78 \$0.02	\$1.04 \$0.02	F A	F A
MPS School	Cooling_HeatPump	Electric	Stock	Existing	1.51 Clock / Programmable Thermostat	10.0%	\$ 0.05	10	100.0%	41.1%	41.1%	0.151	1.51	0.06	0.15	\$0.05	\$0.05	С	Ĉ
MPS School MPS School	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	1.51 High Efficiency Windows, Low-e; U=0.351.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%				66.0% 100.0%	49.5% 50.0%	0.076 0.151	1.45 1.41	0.04	0.07 0.14	\$0.05 \$0.23	\$0.05 \$0.25	C F	C F
MPS School	Cooling_HeatPump	Electric	Stock	Existing	1.51 Duct Repair and Sealing	1.0%	\$ 0.04	20	25.0%	50.0%	12.5%	0.015	1.34	0.00	0.01	\$0.28	\$0.32	F	F
MPS School MPS School	Cooling_HeatPump Cooling_HeatPump			Existing Existing	1.51 Installation of Air Side Economizers 1.51 DX Tune-Up / Diagnostics	15.0% 10.0%		10		41.1% 90.0%	41.1% 90.0%	0.227 0.151	1.34 1.25	0.08 0.11	0.20 0.13	\$0.41 \$0.49	\$0.47 \$0.59	F F	F F
MPS School	Cooling_HeatPump	Electric	Stock	Existing	1.51 Ceiling R-0 to R-19 Insulation	2.1%	\$ 0.23		50.0%	23.4%	11.7%	0.032	1.14	0.00	0.02	\$0.78	\$1.03	F	F
MPS School MPS School	Cooling_HeatPump Lighting_2L4T12	Electric Electric		Existing Existing	1.51 Ceiling R-19 to R-38 Insulation 2.68 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% 30.0%				23.4% 94.7%	11.7% 47.4%	0.014 0.804	1.14 2.68	0.00 0.38	0.01 0.80	\$1.83 \$0.05	\$2.42 \$0.05	F C	C
MPS School	Lighting_2L4T12	Electric		Existing	2.68 4' 1L T8 Premium, EB, reflector	61.1%				100.0%	33.3%	1.638 0.670	2.68			\$0.08 \$0.09	\$0.08 \$0.09	E E	E E
MPS School MPS School	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		Existing Existing	2.68 4' 2L T8 Premium, EB 2.68 4' 1L T5HO, EB	25.0% 13.9%				100.0% 100.0%	33.3% 33.3%	0.670	2.68 2.68			\$0.09	\$0.09	F	F
MPS School MPS School	Lighting_2L4T12	Electric Electric		Existing Existing	2.68 Continuous Dimming, 10-4' Fluorescent Fixtures 2.14 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% 30.0%				100.0% 94.7%	30.0% 47.4%	2.010 0.642	2.68 2.14	0.60 0.30	2.01 0.64	\$0.17 \$0.07	\$0.17 \$0.07	F D	F D
MPS School	Lighting_2L4T8 Lighting_2L4T8	Electric		Existing	2.14 4' 2L T8 Premium, EB	8.5%				100.0%	100.0%	0.042	2.14			\$0.07	\$0.07	F	F
MPS School MPS School	Lighting_2L8T12	Electric		Existing Existing	2.68 8' 2L T8, EB	52.8% 55.3%				100.0% 100.0%	50.0% 25.0%	1.415 1.482	2.68		1.42 1.48	\$0.02 \$0.05	\$0.02 \$0.05	A C	A C
MPS School	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing	2.68 8' 1L T12, 60W, EB, reflector 2.68 8' 2L T12, 60W, EB	10.6%		34		32.9%	8.2%	0.283	2.68 2.68			\$0.05	\$0.05	c	c
MPS School MPS School	Lighting_2L8T12	Electric Electric		Existing Existing	2.68 Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0% 75.0%				94.7% 100.0%	47.4% 30.0%	0.804 2.010	2.68 2.68			\$0.07 \$0.20	\$0.07 \$0.20	D	D
MPS School	Lighting_2L8T12 Lighting_3L4T12	Electric		Existing	2.68 Continuous Dimming, 5-8' Fluorescent Fixtures 2.68 4' 1L T5HO, EB	46.1%		34	75.0%	100.0%	75.0%	1.235	2.68			\$0.20	\$0.20	Ā	Ā
MPS School MPS School	Lighting_3L4T12 Lighting_3L4T12	Electric Electric	Stock	Existing Existing	2.68 4' 3L T8, EB 2.68 4' 2L T8 Premium, EB, reflector	22.6% 53.0%	\$ 0.04	34	75.0%	100.0% 100.0%	75.0% 40.0%	0.606 1.422	2.68 2.68	0.45	0.61	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MPS School	Lighting_3L4T12 Lighting_3L4T12	Electric		Existing	2.68 4' 3L T8 Premium, EB	22.6%				100.0%	75.0%	0.606	2.68			\$0.01	\$0.01	A	A
MPS School	Lighting_3L4T8	Electric		Existing	2.14 4' 3L T8 Premium, EB	6.7%				100.0%	100.0%	0.143	2.14		0.14	\$0.23	\$0.23	F	F
MPS School MPS School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.68 4' 3L T8, EB 2.68 4' 3L T8 Premium, EB	38.2% 42.4%				100.0% 100.0%	16.7% 16.7%	1.024 1.135	2.68 2.68		1.02 1.14	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
MPS School	Lighting_4L4T12	Electric		Existing	2.68 4' 4L T8, EB	22.2%				100.0%	16.7%	0.596 1.675	2.68			\$0.03	\$0.03	A B	A B
MPS School MPS School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.68 4' 2L T8 Premium, EB, reflector 2.68 4' 2L T5HO, EB	62.5% 18.8%				100.0% 100.0%	16.7% 16.7%	0.503	2.68 2.68			\$0.04 \$0.05	\$0.04 \$0.05	C	C
MPS School	Lighting_4L4T12	Electric		Existing	2.68 4' 4L T8 Premium, EB	25.0%		34 20		100.0% 94.7%	16.7% 47.4%	0.670	2.68		0.67	\$0.06 \$0.06	\$0.06 \$0.06	C	C
MPS School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.68 Occupancy Sensor, 4-4' Fluorescent Fixtures 2.68 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% 75.0%				100.0%	47.4% 30.0%	2.010	2.68 2.68			\$0.06	\$0.06	F	F
MPS School MPS School	Lighting_4L4T8	Electric Electric		Existing Existing	2.14 Occupancy Sensor, 4-4' Fluorescent Fixtures 2.14 4' 4L T8 Premium, EB	30.0% 3.6%		20 34		94.7% 100.0%	47.4% 100.0%	0.642 0.077	2.14 2.14	0.30		\$0.08 \$0.31	\$0.08 \$0.31	E	E
MPS School	Lighting_4L4T8 Lighting_INC150W	Electric		Existing	2.68 Halogen PAR Flood, 90W	40.0%				97.3%	9.7%	1.072	2.14			\$0.08	\$0.08	É	Ē
MPS School MPS School	Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	2.68 HPS, 50W 2.68 Metal Halide, 50W	56.0% 52.0%				85.5% 85.5%	38.5% 38.5%	1.501 1.394	2.68 2.68		1.50 1.39	\$0.20 \$0.41	\$0.20 \$0.41	F	F
MPS School	Lighting_INC40W	Electric	Stock	Existing	2.68 LED Exit Signs	80.0%	\$ 0.05	20	90.0%	90.0%	81.0%	2.144	2.68	1.74	2.14	\$0.00	\$0.00	A	A
MPS School MPS School	Lighting_INC75W	Electric Electric		Existing Existing	2.68 CFL Screw-in, Modular 18W 0.11 Smart Networks	65.3% 7.2%				88.4% 40.0%	79.6% 36.0%	1.750 0.008	2.68 0.11	1.39 0.00		\$0.17 \$0.19	\$0.17 \$0.19	F	F
MPS School	Plug_Load Plug_Load	Electric	Stock	Existing	0.11 ENERGY STAR or Better Office Equipment: Copiers	9.0%	\$ 0.01	4	100.0%	65.0%	65.0%	0.010	0.11	0.01	0.01	\$0.48	\$0.49	F	F
MPS School MPS School	Plug_Load Plug_Load	Electric Electric		Existing Existing	0.11 ENERGY STAR or Better Office Equipment: Monitors 0.11 ENERGY STAR or Better Office Equipment: Printers	17.3% 11.2%		4		71.0% 65.0%	71.0% 65.0%	0.019 0.012	0.10 0.09	0.01	0.02 0.01	\$0.99 \$1.69	\$1.08 \$2.10	F	F
MPS School	Plug_Load	Electric	Stock	Existing	0.11 ENERGY STAR or Better Office Equipment: Computer	19.5%	\$ 0.12	4	100.0%	65.0%	65.0%	0.021	0.08	0.01	0.02	\$1.77	\$2.37	F	F
MPS School MPS School	Space_Heat Space Heat	Electric Electric		Existing Existing	2.77 Duct Repair and Sealing 2.77 Duct Insulation	2.0%				50.0% 71.8%	12.5% 18.0%	0.055	2.77 2.76	0.01	0.06	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MPS School	Space_Heat	Electric	Stock	Existing	2.77 Clock / Programmable Thermostat	30.0%	\$ 0.15	10	100.0%	41.1%	41.1%	0.831	2.75	0.34	0.83	\$0.03	\$0.03	Ä	Ä
MPS School MPS School	Space_Heat Space Heat	Electric Electric		Existing Existing	 2.77 Ceiling R-0 to R-19 Insulation 2.77 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	7.0% 5.0%				44.9% 100.0%	22.5% 50.0%	0.194 0.139	2.41 2.38	0.04	0.17 0.12	\$0.13 \$0.25	\$0.15 \$0.29	F	F
MPS School	Space_Heat	Electric		Existing	2.77 Ceiling R-19 to R-38 Insulation	3.0%	\$ 0.23	20	50.0%	44.9%	22.5%	0.083	2.32	0.02	0.07	\$0.30	\$0.36	F	F
MPS School MPS School	Water_Heat Water Heat	Electric Electric		Existing Existing	0.9 Hot Water (SHW) Pipe Insulation 0.9 Heat Pump Water Heater	5.0% 30.0%				9.9% 87.2%	4.9% 65.4%	0.045 0.270	0.90 0.90			\$0.04 \$1.15	\$0.04 \$1.16	B	B
MPS School	Water_Heat	Electric	Stock	Existing	0.9 Demand controlled circulating systems	5.0%	\$ 3.97	15	50.0%	100.0%	50.0%	0.045	0.72	0.02	0.04	\$10.86	\$13.55	F	F
MPS Small_Office MPS Small_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 EMS Optimization 4.19 Two-Speed Cooling Tower, 300 Tons	1.0% 14.0%		5 15		75.0% 90.0%	75.0% 45.0%	0.042 0.587	4.19 4.16			\$0.00 \$0.00	\$0.00 \$0.00	A A	A
MPS Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19 Insulation of Pipes	1.0%	\$ 0.00	20	50.0%	50.0%	25.0%	0.042	3.90	0.01	0.04	\$0.01	\$0.01	Α	A
MPS Small_Office MPS Small Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 VSD Cooling Tower, 300 Tons 4.19 High Efficiency Windows, Low-e: U=0.35	18.0% 9.3%				90.0% 99.4%	45.0% 74.6%	0.754 0.388	3.89 3.57	0.31 0.25	0.70 0.33	\$0.01 \$0.01	\$0.01 \$0.02	A A	A
MPS Small_Office	Cooling_Chillers	Electric		Existing	4.19 Installation of Energy Management Systems	10.0%				19.1%	9.5%	0.419	3.33	0.03	0.33	\$0.07	\$0.09	D	E
MPS Small_Office MPS Small Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Primary/Secondary De-coupled Chilled Water System4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%				80.0% 100.0%	40.0% 50.0%	0.503 0.419	3.29 3.14	0.16 0.16		\$0.11 \$0.11	\$0.14 \$0.15	F	F
MPS Small_Office	Cooling_Chillers	Electric		Existing	4.19 Chiller Tune-Up / Diagnostics	5.0%	\$ 0.11	5		90.0%	90.0%	0.210	2.98		0.15	\$0.15	\$0.20	Ē	Ē
MPS Small_Office MPS Small Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Installation of Chiller Economizers (water side) 4.19 Optimize Chilled Water and Condenser Water Settings	10.0% 5.0%				56.9% 50.0%	28.4% 16.5%	0.419 0.210	2.84 2.76	0.08		\$0.15 \$0.15	\$0.22 \$0.23	F F	F
MPS Small_Office	Cooling_Chillers	Electric		Existing	4.19 Ceiling R-0 to R-19 Insulation	2.1%	\$ 0.16	20	50.0%	8.7%	4.4%	0.088	2.74	0.00	0.06	\$0.20	\$0.30	F	F
MPS Small_Office MPS Small Office	Cooling_Chillers Cooling_DX	Electric Electric		Existing Existing	4.19 Ceiling R-19 to R-38 Insulation 4.19 Ceiling R-19 to R-38 Insulation	0.9% 0.9%		20 20		8.7% 8.7%	4.4% 4.4%	0.038	2.74 4.19	0.00	0.02 0.04	\$0.46 \$0.00	\$0.70 \$0.00	F A	F A
MPS Small_Office	Cooling_DX	Electric		Existing	4.19 Duct Insulation	3.0%		20	25.0%	25.0%	6.3%	0.126	4.19	0.01	0.13	\$0.02	\$0.02	Α	Α
MPS Small_Office MPS Small Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 Clock / Programmable Thermostat 4.19 High Efficiency Windows, Low-e; U=0.35	10.0% 5.0%	\$ 0.06 \$ 0.15	10 30	100.0% 75.0%	58.4% 99.4%	58.4% 74.6%	0.419 0.210	4.18 3.94	0.24 0.15	0.42 0.20	\$0.02 \$0.06	\$0.02 \$0.07	A D	A D
MPS Small_Office	Cooling_DX	Electric	Stock	Existing	4.19 Duct Repair and Sealing	1.0%	\$ 0.04	20	25.0%	50.0%	12.5%	0.042	3.79	0.00	0.04	\$0.10	\$0.11	F	F
MPS Small_Office MPS Small Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.19 Installation of Air Side Economizers	10.0% 15.0%				100.0% 30.4%	50.0% 30.4%	0.419 0.629	3.78 3.60			\$0.11 \$0.15	\$0.12 \$0.17	F F	F
MPS Small_Office	Cooling_DX	Electric	Stock	Existing	4.19 Ceiling R-0 to R-19 Insulation	2.1%	\$ 0.16	20	50.0%	8.7%	4.4%	0.088	3.43	0.00	0.07	\$0.20	\$0.24	F	F
MPS Small_Office MPS Small_Office	Cooling_DX Cooling_HeatPump	Electric Electric		Existing Existing	4.19 DX Tune-Up / Diagnostics 4.19 Duct Insulation	10.0% 3.0%				90.0% 25.0%	90.0% 6.3%	0.419 0.126	3.43 4.19			\$0.24 \$0.02	\$0.29 \$0.02	F A	F A
MPS Small_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19 Clock / Programmable Thermostat	10.0%	\$ 0.06	10	100.0%	58.4%	58.4%	0.419	4.18	0.24	0.42	\$0.02	\$0.02	Α	A
MPS Small_Office MPS Small Office	Cooling_HeatPump Cooling_HeatPump			Existing Existing	4.19 High Efficiency Windows, Low-e; U=0.35 4.19 Duct Repair and Sealing	5.0% 1.0%				99.4% 50.0%	74.6% 12.5%	0.210 0.042	3.94 3.79	0.15 0.00		\$0.06 \$0.10	\$0.07 \$0.11	D F	D F
MPS Small_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.29	10	50.0%	100.0%	50.0%	0.419	3.79	0.19	0.38	\$0.11	\$0.12	F	F
MPS Small_Office MPS Small_Office	Cooling_HeatPump Cooling_HeatPump			Existing Existing	4.19 Installation of Air Side Economizers 4.19 Ceiling R-0 to R-19 Insulation	15.0% 2.1%				30.4% 8.7%	30.4% 4.4%	0.629 0.088	3.60 3.43			\$0.15 \$0.20	\$0.17 \$0.24	F F	F F
MPS Small_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19 DX Tune-Up / Diagnostics	10.0%	\$ 0.23	3	100.0%	90.0%	90.0%	0.419	3.43	0.31	0.34	\$0.24	\$0.29	F	F
MPS Small_Office MPS Small_Office	Cooling_HeatPump Lighting_2L4T12	Electric Electric		Existing Existing	4.19 Ceiling R-19 to R-38 Insulation 5.29 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% 30.0%				8.7% 79.6%	4.4% 31.8%	0.038 1.587	3.12 5.29			\$0.46 \$0.05	\$0.62 \$0.05	F C	F C
MPS Small_Office	Lighting_2L4T12	Electric	Stock	Existing	5.29 4' 1L T8 Premium, EB, reflector	61.1%	\$ 1.58	16	33.3%	100.0%	33.3%	3.233	5.29	1.08	3.23	\$0.06	\$0.06	С	С
MPS Small_Office	Lighting_2L4T12	Electric	STOCK	Existing	5.29 4' 2L T8 Premium, EB	25.0%	\$ 0.77	16	33.3%	100.0%	33.3%	1.323	5.29	0.44	1.32	\$0.07	\$0.07	D	D

Area Building Type	End-Use	Fuel Efficienc	cy Vintage	EUI Measure Names	Energy Savings	Full Per Uni Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings			avings Full	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	Stacked Cost Group
MPS Small_Office	Lighting_2L4T12	Electric Stock	Existing	5.29 4' 1L T5HO, EB	13.9%		16	33.3%	100.0%	33.3%	0.735	5.29	0.25	0.74	\$0.09	\$0.09	E	E
MPS Small_Office MPS Small_Office	Lighting_2L4T12 Lighting_2L4T8	Electric Stock Electric Stock	Existing Existing	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures 4.24 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% 30.0%		11 9	40.0% 40.0%	100.0% 79.6%	40.0% 31.8%	3.968 1.272	5.29 4.24	1.59 0.40	3.97 1.27	\$0.14 \$0.06	\$0.14 \$0.06	F D	F D
MPS Small_Office MPS Small Office	Lighting_2L4T8	Electric Stock	Existing	4.24 4' 2L T8 Premium, EB 5.29 8' 2L T8. EB	8.5% 52.8%	\$ 0.27	16 16	100.0% 50.0%	100.0% 100.0%	100.0%	0.360 2.793	4.24	0.36	0.36 2.79	\$0.09 \$0.02	\$0.09 \$0.02	E A	E
MPS Small_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	5.29 8' 1L T12, 60W, EB, reflector	55.3%	\$ 0.79	16	25.0%	100.0%	25.0%	2.925	5.29 5.29	0.73	2.79	\$0.02	\$0.02	В	A B
MPS Small_Office MPS Small Office	Lighting_2L8T12 Lighting_2L8T12	Electric Stock	Existing Existing	5.29 8' 2L T12, 60W, EB 5.29 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% 30.0%		16 9	25.0% 40.0%	26.6% 79.6%	6.6% 31.8%	0.559 1.587	5.29 5.29	0.04 0.51	0.56 1.59	\$0.04 \$0.06	\$0.04 \$0.06	B C	B C
MPS Small_Office	Lighting_2L8T12	Electric Stock	Existing	5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	\$ 4.09	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.15	\$0.15	F	F
MPS Small_Office MPS Small_Office	Lighting_3L4T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 1L T5HO, EB 5.29 4' 3L T8, EB	46.1% 22.6%		16 16	75.0% 75.0%	100.0% 100.0%	75.0% 75.0%	2.438 1.196	5.29 5.29	1.83 0.90	2.44 1.20	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Small_Office MPS Small Office	Lighting_3L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 2L T8 Premium, EB, reflector 5.29 4' 3L T8 Premium, EB	53.0% 22.6%		16 16	40.0% 75.0%	100.0% 100.0%	40.0% 75.0%	2.806 1.196	5.29 5.29	1.12 0.90	2.81 1.20	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MPS Small_Office	Lighting_3L4T12 Lighting_3L4T8	Electric Stock	Existing	4.24 4' 3L T8 Premium, EB	6.7%	\$ 0.43	16	100.0%	100.0%	100.0%	0.284	4.24	0.28	0.28	\$0.01	\$0.01	F	A F
MPS Small_Office MPS Small_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 3L T8, EB 5.29 4' 3L T8 Premium FB	38.2% 42.4%		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	2.021 2.241	5.29 5.29	0.34	2.02 2.24	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Small_Office	Lighting_4L4T12	Electric Stock	Existing	5.29 4' 4L T8, EB	22.2%	\$ 0.21	16	16.7%	100.0%	16.7%	1.176	5.29	0.20	1.18	\$0.02	\$0.02	Α	A
MPS Small_Office MPS Small_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Stock	Existing Existing	5.29 4' 2L T8 Premium, EB, reflector 5.29 4' 2L T5HO, EB	62.5% 18.8%		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	3.306 0.992	5.29 5.29	0.55 0.17	3.31 0.99	\$0.03 \$0.03	\$0.03 \$0.03	A B	В
MPS Small_Office MPS Small_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	5.29 4' 4L T8 Premium, EB 5.29 Occupancy Sensor, 4-4' Fluorescent Fixtures	25.0% 30.0%		16 9	16.7% 40.0%	100.0% 79.6%	16.7% 31.8%	1.323 1.587	5.29 5.29	0.22	1.32 1.59	\$0.04 \$0.06	\$0.04 \$0.06	B C	B C
MPS Small_Office	Lighting_4L4T12	Electric Stock	Existing	5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	\$ 3.93	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.15	\$0.15	F	F
MPS Small_Office MPS Small_Office	Lighting_4L4T8 Lighting_4L4T8	Electric Stock Electric Stock	Existing Existing	4.24 Occupancy Sensor, 4-4' Fluorescent Fixtures 4.24 4' 4L T8 Premium, EB	30.0% 3.6%		9 16	40.0% 100.0%	79.6% 100.0%	31.8% 100.0%	1.272 0.153	4.24 4.24	0.40 0.15	1.27 0.15	\$0.07 \$0.24	\$0.07 \$0.24	D F	D F
MPS Small_Office	Lighting_INC150W	Electric Stock	Existing	5.29 Halogen PAR Flood, 90W	40.0%	\$ 0.18	1	10.0%	100.0%	10.0%	2.116	5.29	0.21	2.12	\$0.10	\$0.10	E	E
MPS Small_Office MPS Small_Office	Lighting_INC150W Lighting_INC150W	Electric Stock Electric Stock	Existing Existing	5.29 HPS, 50W 5.29 Metal Halide, 50W	56.0% 52.0%		6 6	45.0% 45.0%	93.9% 93.9%	42.2% 42.2%	2.962 2.751	5.29 5.29	1.25 1.16	2.96 2.75	\$0.38 \$0.80	\$0.38 \$0.80	F	F
MPS Small_Office MPS Small_Office	Lighting_INC40W Lighting_INC75W	Electric Stock Electric Stock	Existing Existing	5.29 LED Exit Signs 5.29 CFL Screw-in, Modular 18W	80.0% 65.3%		20 5	90.0% 90.0%	90.0% 72.5%	81.0% 65.2%	4.232 3.454	5.29 5.29	3.43 2.25	4.23 3.45	\$0.00 \$0.18	\$0.00 \$0.18	A F	A F
MPS Small_Office	Plug_Load	Electric Stock	Existing	1.59 Smart Networks	9.1%	\$ 0.01	4	90.0%	40.0%	36.0%	0.145	1.59	0.05	0.15	\$0.02	\$0.02	Ā	A
MPS Small_Office MPS Small_Office	Plug_Load Plug_Load	Electric Stock Electric Stock	Existing Existing	1.59 ENERGY STAR or Better Office Equipment: Monitors 1.59 ENERGY STAR or Better Office Equipment: Copiers	21.9% 4.8%		4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.349 0.077	1.54 1.30	0.24	0.34 0.06	\$0.09 \$0.14	\$0.09 \$0.18	E F	E F
MPS Small_Office	Plug_Load	Electric Stock	Existing	1.59 ENERGY STAR or Better Office Equipment: Computer	24.7%		4	100.0%	65.0%	65.0%	0.393	1.26	0.20	0.31	\$0.15	\$0.19	F	F
MPS Small_Office MPS Small_Office	Plug_Load Space_Heat	Electric Stock Electric Stock	Existing Existing	1.59 ENERGY STAR or Better Office Equipment: Printers 6.18 Duct Repair and Sealing	8.0% 2.0%	\$ 0.01	4 20	100.0% 25.0%	65.0% 50.0%	65.0% 12.5%	0.127 0.124	1.06 6.18	0.05 0.02	0.08 0.12	\$0.26 \$0.01	\$0.40 \$0.01	A	A
MPS Small_Office MPS Small Office	Space_Heat Space Heat	Electric Stock Electric Stock	Existing Existing	6.18 Clock / Programmable Thermostat 6.18 Duct Insulation	30.0% 2.0%		10 20	100.0% 25.0%	58.5% 58.5%	58.5% 14.6%	1.854 0.124	6.16 5.08	1.08	1.85 0.10	\$0.01 \$0.02	\$0.01 \$0.02	A	A
MPS Small_Office	Space_Heat	Electric Stock	Existing	6.18 Ceiling R-0 to R-19 Insulation	7.0%	\$ 0.16	20	50.0%	12.9%	6.5%	0.433	5.07	0.02	0.35	\$0.04	\$0.05	В	Ĉ
MPS Small_Office MPS Small Office	Space_Heat Space Heat	Electric Stock	Existing Existing	6.18 Ceiling R-19 to R-38 Insulation6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	3.0% 5.0%		20 15	50.0% 50.0%	12.9% 100.0%	6.5% 50.0%	0.185	5.05 5.04	0.01 0.13	0.15 0.25	\$0.09 \$0.11	\$0.11 \$0.14	E F	F F
MPS Small_Office	Water_Heat	Electric Stock	Existing	0.95 Hot Water (SHW) Pipe Insulation	5.0%	\$ 0.00	15	50.0%	39.3%	19.6%	0.048	0.95	0.01	0.05	\$0.01	\$0.01	A	A
MPS Small_Office MPS Small_Office	Water_Heat Water_Heat	Electric Stock Electric Stock	Existing Existing	0.95 Heat Pump Water Heater 0.95 Demand controlled circulating systems	30.0% 5.0%		15 15	75.0% 50.0%	100.0% 93.2%	75.0% 46.6%	0.285 0.048	0.94 0.73	0.21	0.28 0.04	\$0.25 \$2.35	\$0.25 \$3.06	F	F
MPS Warehouse MPS Warehouse	Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	1.66 EMS Optimization 1.66 Two-Speed Cooling Tower, 300 Tons	1.0% 14.0%		5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.017 0.232	1.66 1.65	0.01	0.02 0.23	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
MPS Warehouse	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing	1.66 VSD Cooling Tower, 300 Tons	18.0%	\$ 0.02	15	50.0%	90.0%	45.0%	0.299	1.54	0.13	0.28	\$0.01	\$0.01	Ä	Â
MPS Warehouse MPS Warehouse	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing Existing	1.66 Insulation of Pipes 1.66 High Efficiency Windows, Low-e: U=0.35	1.0% 5.4%		20 30	50.0% 75.0%	50.0% 100.0%	25.0% 75.0%	0.017 0.090	1.42 1.42	0.00	0.01 0.08	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MPS Warehouse	Cooling_Chillers	Electric Stock	Existing	1.66 Installation of Energy Management Systems	10.0%	\$ 0.05	10	50.0%	80.0%	40.0%	0.166	1.36	0.05	0.14	\$0.05	\$0.06	С	D
MPS Warehouse MPS Warehouse	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	1.66 Primary/Secondary De-coupled Chilled Water System 1.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%		15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.199 0.166	1.30 1.24	0.06	0.16 0.12	\$0.08 \$0.08	\$0.11 \$0.11	E E	F
MPS Warehouse MPS Warehouse	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	1.66 Chiller Tune-Up / Diagnostics 1.66 Optimize Chilled Water and Condenser Water Settings	5.0% 5.0%		5 10	100.0% 33.0%	90.0% 50.0%	90.0% 16.5%	0.083	1.18 1.13	0.05	0.06 0.06	\$0.11 \$0.11	\$0.16 \$0.17	F	F
MPS Warehouse	Cooling_Chillers	Electric Stock	Existing	1.66 Installation of Chiller Economizers (water side)	10.0%	\$ 0.59	20	50.0%	100.0%	50.0%	0.166	1.12	0.06	0.11	\$0.38	\$0.56	F	F
MPS Warehouse MPS Warehouse	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	1.66 Ceiling R-0 to R-19 Insulation 1.66 Ceiling R-19 to R-38 Insulation	2.1% 0.9%		20 20	50.0% 50.0%	20.0% 20.0%	10.0% 10.0%	0.035 0.015	1.06 1.06	0.00	0.02 0.01	\$0.69 \$1.61	\$1.08 \$2.53	F F	F F
MPS Warehouse MPS Warehouse	Cooling_DX	Electric Stock Electric Stock	Existing Existing	1.66 Ceiling R-19 to R-38 Insulation 1.66 Duct Insulation	0.9% 3.0%	\$ -	20 20	50.0% 25.0%	20.0% 25.0%	10.0% 6.3%	0.015 0.050	1.66 1.66	0.00	0.01 0.05	\$0.00 \$0.01	\$0.00 \$0.01	A	A
MPS Warehouse	Cooling_DX Cooling_DX	Electric Stock	Existing	1.66 Clock / Programmable Thermostat	10.0%		10	100.0%	25.0% 46.6%	46.6%	0.050	1.66	0.08	0.17	\$0.01	\$0.01	A A	A
MPS Warehouse MPS Warehouse	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	1.66 High Efficiency Windows, Low-e; U=0.351.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%		30 10	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%	0.083 0.166	1.58 1.52	0.06	0.08 0.15	\$0.03 \$0.08	\$0.03 \$0.09	B E	B
MPS Warehouse	Cooling_DX	Electric Stock	Existing	1.66 DX Tune-Up / Diagnostics	10.0%	\$ 0.07	3	100.0%	90.0%	90.0%	0.166	1.44	0.13	0.14	\$0.18	\$0.21	F	F
MPS Warehouse MPS Warehouse	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	1.66 Duct Repair and Sealing 1.66 Installation of Air Side Economizers	1.0% 15.0%		20 10	25.0% 100.0%	50.0% 53.5%	12.5% 53.5%	0.017 0.249	1.31 1.31	0.00 0.11	0.01 0.20	\$0.26 \$0.38	\$0.32 \$0.48	F	F
MPS Warehouse MPS Warehouse	Cooling_DX	Electric Stock Electric Stock	Existing	1.66 Ceiling R-0 to R-19 Insulation 1.66 Duct Insulation	2.1% 3.0%	\$ 0.23	20 20	50.0% 25.0%	20.0% 25.0%	10.0% 6.3%	0.035 0.050	1.21	0.00	0.03 0.05	\$0.69 \$0.01	\$0.95 \$0.01	F A	F
MPS Warehouse	Cooling_HeatPump Cooling_HeatPump	Electric Stock	Existing Existing	1.66 Clock / Programmable Thermostat	10.0%	\$ 0.02	10	100.0%	46.6%	46.6%	0.166	1.66 1.66	0.08	0.17	\$0.02	\$0.02	Α	Ä
MPS Warehouse MPS Warehouse	Cooling_HeatPump Cooling_HeatPump	Electric Stock Electric Stock	Existing Existing	1.66 High Efficiency Windows, Low-e; U=0.351.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%		30 10	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%	0.083 0.166	1.58 1.52	0.06	0.08 0.15	\$0.03 \$0.08	\$0.03 \$0.09	B E	B E
MPS Warehouse	Cooling_HeatPump	Electric Stock	Existing	1.66 DX Tune-Up / Diagnostics	10.0%	\$ 0.07	3	100.0%	90.0%	90.0%	0.166	1.44	0.13	0.14	\$0.18	\$0.20	F	F
MPS Warehouse MPS Warehouse	Cooling_HeatPump Cooling_HeatPump	Electric Stock Electric Stock	Existing Existing	1.66 Duct Repair and Sealing 1.66 Installation of Air Side Economizers	1.0% 15.0%		20 10	25.0% 100.0%	50.0% 53.5%	12.5% 53.5%	0.017 0.249	1.31 1.31	0.00 0.11	0.01 0.20	\$0.26 \$0.38	\$0.32 \$0.48	F	F
MPS Warehouse MPS Warehouse	Cooling_HeatPump Cooling_HeatPump	Electric Stock Electric Stock	Existing Existing	1.66 Ceiling R-0 to R-19 Insulation 1.66 Ceiling R-19 to R-38 Insulation	2.1% 0.9%		20 20	50.0% 50.0%	20.0% 20.0%	10.0% 10.0%	0.035 0.015	1.21 1.21	0.00	0.03 0.01	\$0.69 \$1.61	\$0.95 \$2.22	F	F
MPS Warehouse	Lighting_2L4T12	Electric Stock	Existing	2.94 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	\$ 0.23	12	20.0%	98.0%	19.6%	0.882	2.94	0.17	0.88	\$0.04	\$0.04	В	В
MPS Warehouse MPS Warehouse	Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	2.94 4' 1L T8 Premium, EB, reflector 2.94 4' 2L T8 Premium, EB	61.1% 25.0%		22 22	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	1.797 0.735	2.94 2.94	0.60 0.25	1.80 0.74	\$0.05 \$0.05	\$0.05 \$0.05	C C	C C
MPS Warehouse	Lighting_2L4T12	Electric Stock	Existing	2.94 4' 1L T5HO, EB	13.9%	\$ 0.30	22	33.3%	100.0%	33.3%	0.409	2.94	0.14	0.41	\$0.07	\$0.07	D	D
MPS Warehouse MPS Warehouse	Lighting_2L4T12 Lighting_2L4T8	Electric Stock Electric Stock	Existing Existing	2.94 Continuous Dimming, 10-4' Fluorescent Fixtures 2.36 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% 30.0%	\$ 0.23	16 12	40.0% 20.0%	100.0% 98.0%	40.0% 19.6%	2.205 0.708	2.94 2.36	0.88 0.14	2.21 0.71	\$0.10 \$0.05	\$0.10 \$0.05	C	C
MPS Warehouse MPS Warehouse	Lighting_2L4T8 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	2.36 4' 2L T8 Premium, EB 2.94 8' 2L T8, EB	8.5% 52.8%	\$ 0.13	22 22	100.0% 50.0%	100.0% 100.0%	100.0% 50.0%	0.201 1.552	2.36 2.94	0.20 0.78	0.20 1.55	\$0.07 \$0.01	\$0.07 \$0.01	D A	D A
MPS Warehouse	Lighting_2L8T12	Electric Stock	Existing	2.94 8' 1L T12, 60W, EB, reflector	55.3%	\$ 0.46	22	25.0%	100.0%	25.0%	1.626	2.94	0.41	1.63	\$0.03	\$0.03	Α	Α
MPS Warehouse MPS Warehouse	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	2.94 8' 2L T12, 60W, EB 2.94 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% 30.0%		22 12	25.0% 20.0%	84.7% 98.0%	21.2% 19.6%	0.311 0.882	2.94 2.94	0.07 0.17	0.31 0.88	\$0.03 \$0.05	\$0.03 \$0.05	B C	B C
MPS Warehouse MPS Warehouse	Lighting_2L8T12	Electric Stock	Existing Existing	2.94 Continuous Dimming, 5-8' Fluorescent Fixtures 2.94 t '1L T5HO. EB	75.0%	\$ 2.39	16 22		100.0% 100.0%	40.0%	2.205	2.94 2.94	0.88	2.21	\$0.13	\$0.13	F	F
MPS Warehouse	Lighting_3L4T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing	2.94 4' 3L T8, EB	46.1% 22.6%	\$ 0.01	22	75.0%	100.0%	75.0% 75.0%	0.665	2.94	1.02 0.50	1.35 0.66	\$0.00 \$0.00		A A	A
MPS Warehouse MPS Warehouse	Lighting_3L4T12 Lighting_3L4T12	Electric Stock	Existing Existing	2.94 4' 2L T8 Premium, EB, reflector 2.94 4' 3L T8 Premium, EB	53.0% 22.6%	\$ 0.04	22		100.0% 100.0%	40.0% 75.0%		2.94 2.94	0.62	1.56 0.66	\$0.00 \$0.00		A A	A
MPS Warehouse	Lighting_3L4T8	Electric Stock	Existing	2.36 4' 3L T8 Premium, EB	6.7%	\$ 0.22	22	100.0%	100.0%	100.0%	0.158	2.36	0.16	0.16	\$0.14	\$0.14	F	F
MPS Warehouse MPS Warehouse	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	2.94 4' 3L T8, EB 2.94 4' 3L T8 Premium. EB	38.2% 42.4%		22 22	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.123 1.245	2.94 2.94	0.19 0.21	1.12 1.25	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
MPS Warehouse	Lighting_4L4T12	Electric Stock	Existing	2.94 4' 4L T8, EB	22.2%	\$ 0.10	22	16.7%	100.0%	16.7%	0.653	2.94	0.11	0.65	\$0.02	\$0.02	Α	Α
MPS Warehouse MPS Warehouse	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	2.94 4' 2L T8 Premium, EB, reflector 2.94 4' 2L T5HO, EB	62.5% 18.8%		22 22	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.838 0.551	2.94 2.94	0.31	1.84 0.55	\$0.02 \$0.03	\$0.02 \$0.03	A A	A A
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Area Building Type	e End-Use	Fuel	Efficiency	/ Vintage	EUI Measure Names	Energy F Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
MPS Warehouse	Lighting_4L4T12	Electric		Existing	2.94 4' 4L T8 Premium, EB	25.0%		22	16.7%	100.0%	16.7%	0.735	2.94	0.12	0.74	\$0.03	\$0.03	В	В
MPS Warehouse MPS Warehouse	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.94 Occupancy Sensor, 4-4' Fluorescent Fixtures 2.94 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% 5 75.0% 5		12 16	20.0% 40.0%	98.0% 100.0%	19.6% 40.0%	0.882 2.205	2.94 2.94	0.17 0.88	0.88 2.21	\$0.04 \$0.11	\$0.04 \$0.11	B F	B F
MPS Warehouse	Lighting_4L4T8	Electric	Stock	Existing	2.36 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	0.26	12	20.0%	98.0%	19.6%	0.708	2.36	0.14	0.71	\$0.05	\$0.05	Ċ	Ċ
MPS Warehouse MPS Warehouse	Lighting_4L4T8 Lighting_INC150W	Electric Electric		Existing Existing	2.36 4' 4L T8 Premium, EB 2.94 Halogen PAR Flood, 90W	3.6% \$ 40.0% \$		22 1	100.0% 10.0%	100.0% 100.0%	100.0% 10.0%	0.085 1.176	2.36 2.94	0.08	0.08 1.18	\$0.18 \$0.10	\$0.18 \$0.10	F E	E
MPS Warehouse MPS Warehouse	Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	2.94 HPS, 50W 2.94 Metal Halide, 50W	56.0% 5 52.0%		7 7	45.0% 45.0%	90.2% 90.2%	40.6% 40.6%	1.646 1.529	2.94 2.94	0.67 0.62	1.65 1.53	\$0.34 \$0.71	\$0.34 \$0.71	F	F
MPS Warehouse	Lighting_INC150W Lighting_INC40W	Electric		Existing	2.94 Metal Hallde, 50W 2.94 LED Exit Signs	80.0%		20	45.0% 90.0%	90.2%	40.6% 81.0%	2.352	2.94	1.91	2.35	\$0.71	\$0.71	A	A
MPS Warehouse MPS Warehouse	Lighting_INC75W Plug_Load	Electric Electric		Existing Existing	2.94 CFL Screw-in, Modular 18W 0.15 Smart Networks	65.3% 5 7.8%		6	90.0% 90.0%	88.7% 40.0%	79.8% 36.0%	1.920 0.012	2.94 0.15	1.53 0.00	1.92 0.01	\$0.16 \$0.11	\$0.16 \$0.11	F	F
MPS Warehouse	Plug_Load	Electric	Stock	Existing	0.15 ENERGY STAR or Better Office Equipment: Monitors	18.6%	0.05	4	100.0%	71.0%	71.0%	0.028	0.15	0.02	0.03	\$0.58	\$0.59	F	F
MPS Warehouse MPS Warehouse	Plug_Load Plug_Load	Electric Electric		Existing Existing	0.15 ENERGY STAR or Better Office Equipment: Copiers 0.15 ENERGY STAR or Better Office Equipment: Computer	7.1% : 21.0% :		4	100.0% 100.0%	65.0% 65.0%	65.0% 65.0%	0.011 0.031	0.13 0.12	0.01	0.01	\$0.66 \$1.02	\$0.78 \$1.27	F	F
MPS Warehouse	Plug_Load	Electric	Stock	Existing	0.15 ENERGY STAR or Better Office Equipment: Printers	11.4%	0.06	4	100.0%	65.0%	65.0%	0.017	0.10	0.01	0.01	\$1.20	\$1.73	F	F
MPS Warehouse MPS Warehouse	Space_Heat Space Heat	Electric Electric		Existing Existing	4.02 Duct Repair and Sealing 4.02 Duct Insulation	2.0%		20 20	25.0% 25.0%	50.0% 62.3%	12.5% 15.6%	0.080	4.02 4.01	0.01 0.01	0.08 0.08	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
MPS Warehouse	Space_Heat	Electric		Existing	4.02 Clock / Programmable Thermostat	30.0%		10	100.0%	41.8%	41.8%	1.206	4.00	0.50	1.20	\$0.02	\$0.02	A	A
MPS Warehouse MPS Warehouse	Space_Heat Space_Heat	Electric Electric		Existing Existing	4.02 Ceiling R-0 to R-19 Insulation 4.02 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	7.0% 5.0% 5		20 15	50.0% 50.0%	33.7% 100.0%	16.8% 50.0%	0.281 0.201	3.50 3.45	0.04	0.24 0.17	\$0.09 \$0.17	\$0.10 \$0.20	E F	E F
MPS Warehouse MPS Warehouse	Space_Heat	Electric Electric		Existing	4.02 Ceiling R-19 to R-38 Insulation 0.42 Hot Water (SHW) Pipe Insulation	3.0% 5.0%		20 15	50.0% 50.0%	33.7%	16.8% 47.6%	0.121 0.021	3.37 0.42	0.02	0.10 0.02	\$0.20 \$0.01	\$0.24 \$0.01	F A	F
MPS Warehouse	Water_Heat Water_Heat	Electric		Existing Existing	0.42 Hoat Pump Water Heater	30.0%		15	75.0%	95.2% 100.0%	75.0%	0.021	0.42	0.01	0.02	\$0.01	\$0.01	F	F
MPS Warehouse SJD Grocerv	Water_Heat	Electric Electric		Existing Existing	0.42 Demand controlled circulating systems 4.1 EMS Optimization	5.0% S		15 5	50.0% 100.0%	100.0% 75.0%	50.0% 75.0%	0.021	0.32 4.10	0.01	0.02 0.04	\$0.98 \$0.00	\$1.29 \$0.00	F A	F
SJD Grocery	Cooling_Chillers Cooling_Chillers	Electric		Existing	4.1 Two-Speed Cooling Tower, 300 Tons	14.0%	0.01	15	50.0%	90.0%	45.0%	0.574	4.07	0.26	0.57	\$0.00	\$0.00	Ä	Ä
SJD Grocery SJD Grocery	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.1 High Efficiency Windows, Low-e; U=0.35 4.1 VSD Cooling Tower, 300 Tons	5.4% 18.0%		30 15	75.0% 50.0%	100.0% 90.0%	75.0% 45.0%	0.221 0.738	3.81 3.66	0.15	0.21 0.66	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1 Insulation of Pipes	1.0%	0.01	20	50.0%	50.0%	25.0%	0.041	3.36	0.01	0.03	\$0.02	\$0.03	A	Ä
SJD Grocery SJD Grocery	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	Installation of Energy Management Systems Primary/Secondary De-coupled Chilled Water System	10.0% 1 12.0%		10 15	50.0% 50.0%	100.0% 80.0%	50.0% 40.0%	0.410 0.492	3.35 3.19	0.17 0.15	0.34 0.38	\$0.08 \$0.12	\$0.09 \$0.16	E F	E F
SJD Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.32	10	50.0%	100.0%	50.0%	0.410	3.03	0.15	0.30	\$0.12	\$0.17	F.	F
SJD Grocery SJD Grocery	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.1 Installation of Chiller Economizers (water side) 4.1 Chiller Tune-Up / Diagnostics	10.0% 5.0%		20 5	50.0% 100.0%	100.0% 90.0%	50.0% 90.0%	0.410 0.205	2.88 2.74	0.14 0.12	0.29 0.14	\$0.15 \$0.16	\$0.22 \$0.24	F F	F F
SJD Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1 Optimize Chilled Water and Condenser Water Settings	5.0%	0.21	10	33.0%	50.0%	16.5%	0.205	2.61	0.02	0.13	\$0.17	\$0.26	F	F
SJD Grocery SJD Grocery	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.1 Ceiling R-0 to R-19 Insulation 4.1 Ceiling R-19 to R-38 Insulation	2.1% ÷ 0.9% ÷		20 20	50.0% 50.0%	20.0% 20.0%	10.0% 10.0%	0.086 0.037	2.59 2.59	0.01	0.05 0.02	\$0.30 \$0.69	\$0.47 \$1.10	F	F
SJD Grocery	Cooling_DX	Electric		Existing	4.1 Duct Insulation 4.1 Clock / Programmable Thermostat	3.0%		20 10	25.0%	25.0% 84.7%	6.3%	0.123 0.410	4.10	0.01 0.35	0.12	\$0.01 \$0.03	\$0.01	A	A
SJD Grocery SJD Grocery	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.1 High Efficiency Windows, Low-e; U=0.35	10.0% 5.0%		30	100.0% 75.0%	100.0%	84.7% 75.0%	0.410	4.09 3.75	0.35	0.41 0.19	\$0.03	\$0.03 \$0.03	В	В
SJD Grocery SJD Grocery	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.1 Duct Repair and Sealing 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	1.0% 1 10.0%		20 10	25.0% 50.0%	50.0% 100.0%	12.5% 50.0%	0.041	3.61 3.60	0.00	0.04 0.36	\$0.10 \$0.12	\$0.12 \$0.14	F	F
SJD Grocery	Cooling_DX	Electric	Stock	Existing	4.1 Installation of Air Side Economizers	15.0%	0.59	10	100.0%	98.6%	98.6%	0.615	3.42	0.51	0.51	\$0.15	\$0.18	F	F
SJD Grocery SJD Grocery	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.1 DX Tune-Up / Diagnostics 4.1 Ceiling R-0 to R-19 Insulation	10.0% : 2.1% :		3 20	100.0% 50.0%	90.0% 20.0%	90.0% 10.0%	0.410	2.91 2.65	0.26	0.29	\$0.26 \$0.30	\$0.37 \$0.46	F	F
SJD Grocery	Cooling_DX	Electric	Stock	Existing	4.1 Ceiling R-19 to R-38 Insulation	0.9%	0.24	20	50.0%	20.0%	10.0%	0.037	2.65	0.00	0.02	\$0.69	\$1.07	F	Ē
SJD Grocery SJD Grocery	Cooling_HeatPump Cooling HeatPump	Electric Electric		Existing Existing	4.1 Duct Insulation 4.1 Clock / Programmable Thermostat	3.0% \$ 10.0% \$		20 10	25.0% 100.0%	25.0% 84.7%	6.3% 84.7%	0.123 0.410	4.10 4.09	0.01	0.12 0.41	\$0.01 \$0.03	\$0.01 \$0.03	A A	A
SJD Grocery	Cooling_HeatPump	Electric		Existing	4.1 High Efficiency Windows, Low-e; U=0.35	5.0%	0.07	30	75.0%	100.0%	75.0%	0.205	3.75	0.14	0.19	\$0.03	\$0.03	В	В
SJD Grocery SJD Grocery	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	 4.1 Duct Repair and Sealing 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	1.0%		20 10	25.0% 50.0%	50.0% 100.0%	12.5% 50.0%	0.041 0.410	3.61 3.60	0.00 0.18	0.04 0.36	\$0.10 \$0.12	\$0.12 \$0.14	F	F
SJD Grocery SJD Grocery	Cooling_HeatPump Cooling HeatPump	Electric Electric		Existing Existing	4.1 Installation of Air Side Economizers 4.1 DX Tune-Up / Diagnostics	15.0% 1 10.0%		10 3	100.0% 100.0%	98.6% 90.0%	98.6% 90.0%	0.615 0.410	3.42 2.91	0.51 0.26	0.51 0.29	\$0.15 \$0.26	\$0.18 \$0.37	F	F
SJD Grocery	Cooling_HeatPump			Existing	4.1 Ceiling R-0 to R-19 Insulation	2.1%		20	50.0%	20.0%	10.0%	0.086	2.65	0.01	0.06	\$0.20	\$0.46	F	F
SJD Grocery SJD Grocery	Cooling_HeatPump Lighting_2L4T12	Electric Electric		Existing Existing	4.1 Ceiling R-19 to R-38 Insulation 12.76 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% 3 30.0%		20 7	50.0% 10.0%	20.0% 100.0%	10.0% 10.0%	0.037 3.828	2.65 12.76	0.00	0.02 3.83	\$0.69 \$0.02	\$1.07 \$0.02	F A	F A
SJD Grocery	Lighting_2L4T12	Electric	Stock	Existing	12.76 4' 1L T8 Premium, EB, reflector	61.1%	1.55	12	33.3%	100.0%	33.3%	7.798	12.76	2.60	7.80	\$0.03	\$0.03	Α	A
SJD Grocery SJD Grocery	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		Existing Existing	12.76 4' 2L T8 Premium, EB 12.76 4' 1L T5HO, EB	25.0% : 13.9% :		12 12	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	3.190 1.774	12.76 12.76	1.06 0.59	3.19 1.77	\$0.03 \$0.05	\$0.03 \$0.05	B C	B C
SJD Grocery	Lighting_2L4T12	Electric	Stock	Existing	12.76 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	3.75	8	26.0%	100.0%	26.0%	9.570	12.76	2.49	9.57	\$0.07	\$0.07	D	D
SJD Grocery SJD Grocery	Lighting_2L4T8 Lighting_2L4T8	Electric Electric		Existing Existing	10.21 Occupancy Sensor, 8-4' Fluorescent Fixtures 10.21 4' 2L T8 Premium, EB	30.0% 5 8.5% 5		12	10.0% 100.0%	100.0% 100.0%	10.0% 100.0%	3.063 0.868	10.21 10.21	0.31 0.87	3.06 0.87	\$0.03 \$0.04	\$0.03 \$0.04	B B	B B
SJD Grocery SJD Grocery	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	12.76 8' 2L T8, EB 12.76 8' 1L T12, 60W, EB, reflector	52.8% 55.3%		12 12	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	6.737 7.056	12.76 12.76	3.37 1.76	6.74 7.06	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
SJD Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76 8' 2L T12, 60W, EB	10.6%	0.18	12	25.0%	54.2%	13.6%	1.349	12.76	0.18	1.35	\$0.02	\$0.02	Α	Ä
SJD Grocery SJD Grocery	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	12.76 Occupancy Sensor, 4-8' Fluorescent Fixtures 12.76 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% 5 75.0%		7 8	10.0% 26.0%	100.0% 100.0%	10.0% 26.0%	3.828 9.570	12.76 12.76	0.38 2.49	3.83 9.57	\$0.03 \$0.08	\$0.03 \$0.08	B E	B E
SJD Grocery	Lighting_3L4T12	Electric	Stock	Existing	12.76 4' 1L T5HO, EB	46.1%	0.06	12	75.0%	100.0%	75.0%	5.881	12.76	4.41	5.88	\$0.00	\$0.00	A	A
SJD Grocery SJD Grocery	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		Existing Existing	12.76 4' 3L T8, EB 12.76 4' 2L T8 Premium, EB, reflector	22.6% 5 53.0%		12 12	75.0% 40.0%	100.0% 100.0%	75.0% 40.0%	2.885 6.768	12.76 12.76	2.16 2.71	2.88 6.77	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
SJD Grocery	Lighting_3L4T12	Electric		Existing	12.76 4' 3L T8 Premium, EB	22.6% 6.7%	0.16	12	75.0%	100.0% 100.0%	75.0%	2.885	12.76 10.21	2.16	2.88 0.68	\$0.01	\$0.01	A	Α
SJD Grocery SJD Grocery	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		Existing Existing	10.21 4' 3L T8 Premium, EB 12.76 4' 3L T8, EB	38.2%	0.10	12	100.0% 16.7%	100.0%	100.0% 16.7%	4.874	12.76	0.81	4.87	\$0.09 \$0.00	\$0.09 \$0.00	E A	E A
SJD Grocery SJD Grocery	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	12.76 4' 3L T8 Premium, EB 12.76 4' 4L T8, EB	42.4% 22.2%		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	5.405 2.836	12.76 12.76	0.90	5.41 2.84	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD Grocery	Lighting_4L4T12	Electric	Stock	Existing	12.76 4' 2L T8 Premium, EB, reflector	62.5%	0.74	12	16.7%	100.0%	16.7%	7.975	12.76	1.33	7.98	\$0.01	\$0.01	A	Â
SJD Grocery SJD Grocery	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	12.76 4' 2L T5HO, EB 12.76 4' 4L T8 Premium, EB	18.8% 3 25.0%		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	2.393 3.190	12.76 12.76	0.40 0.53	2.39 3.19	\$0.02 \$0.02	\$0.02 \$0.02	A	A
SJD Grocery	Lighting_4L4T12	Electric	Stock	Existing	12.76 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	0.52	7	10.0%	100.0%	10.0%	3.828	12.76	0.38	3.83	\$0.03	\$0.03	A	A
SJD Grocery SJD Grocery	Lighting_4L4T12 Lighting_4L4T8	Electric Electric		Existing Existing	12.76 Continuous Dimming, 5-4' Fluorescent Fixtures 10.21 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% 3 30.0%		8 7	26.0% 10.0%	100.0% 100.0%	26.0% 10.0%	9.570 3.063	12.76 10.21	2.49 0.31	9.57 3.06	\$0.08 \$0.03	\$0.08 \$0.03	E B	E B
SJD Grocery	Lighting_4L4T8	Electric	Stock	Existing	10.21 4' 4L T8 Premium, EB	3.6%	0.30	12	100.0%	100.0%	100.0%	0.368	10.21	0.37	0.37	\$0.11	\$0.11	F	F
SJD Grocery SJD Grocery	Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	12.76 Halogen PAR Flood, 90W 12.76 HPS, 50W	40.0% 56.0%		1 4	10.0% 45.0%	99.6% 94.3%	10.0% 42.4%	5.104 7.146	12.76 12.76	0.51 3.03	5.10 7.15	\$0.08 \$0.41	\$0.08 \$0.41	E F	F
SJD Grocery	Lighting_INC150W	Electric	Stock	Existing	12.76 Metal Halide, 50W 12.76 LED Exit Signs	52.0% 80.0%	17.62	4	45.0%	94.3% 90.0%	42.4% 81.0%	6.635 10.208	12.76 12.76	2.82 8.27		\$0.87 \$0.00	\$0.87 \$0.00	F A	F
SJD Grocery SJD Grocery	Lighting_INC40W Lighting_INC75W	Electric Electric	Stock	Existing Existing	12.76 CFL Screw-in, Modular 18W	65.3%	2.36	20 3	90.0%	95.4%	85.8%	8.332	12.76	7.15	8.33	\$0.12	\$0.12	F	F
SJD Grocery SJD Grocery	Plug_Load	Electric Electric		Existing Existing	0.41 Smart Networks 0.41 ENERGY STAR or Better Office Equipment: Monitors	6.6% 1 15.9%	0.00	4	90.0% 100.0%	40.0% 71.0%	36.0% 71.0%	0.027 0.065	0.41 0.40	0.01 0.05	0.03 0.06	\$0.01 \$0.03	\$0.01 \$0.03	A	A B
SJD Grocery	Plug_Load Plug_Load	Electric	Stock	Existing	0.41 ENERGY STAR or Better Office Equipment: Computer	17.9%	0.01	4	100.0%	65.0%	65.0%	0.073	0.36	0.04	0.06	\$0.05	\$0.06	С	D
SJD Grocery SJD Grocery	Plug_Load Plug_Load	Electric Electric		Existing Existing	0.41 ENERGY STAR or Better Office Equipment: Printers 0.41 ENERGY STAR or Better Office Equipment: Copiers	13.0% 5 9.7%		4	100.0% 100.0%	65.0% 65.0%	65.0% 65.0%	0.053 0.040	0.31 0.29	0.03	0.04	\$0.07 \$0.10	\$0.10 \$0.14	D F	E F
SJD Grocery	Refrigeration	Electric	Stock	Existing	28.13 Night Covers for Display Cases	5.8%	0.01	5	50.0%	95.0%	47.5%	1.631	28.13	0.77	1.63	\$0.00	\$0.00	A	A
SJD Grocery SJD Grocery	Refrigeration Refrigeration	Electric Electric		Existing Existing	28.13 Anti-Sweat (Humidistat) Controls 28.13 Demand Control Defrost - Electric	5.0% 5.8% 5		12 10	100.0% 100.0%	48.0% 48.0%	48.0% 48.0%	1.404 2.184	27.36 26.70	0.66 0.99	1.37 2.07	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
SJD Grocery	Refrigeration	Electric		Existing	28.13 Installation of Floating Condenser Head Pressure Controls	6.8%		14		44.4%	44.4%		25.71	0.78		\$0.01		A	Α

Schedule MED-3 Page 39 of 96

Are	a Building Type	End-Use	Fuel	Efficienc	cy Vintage	EUI Measure Names	Energy F Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	Stacked Cost Group
	Grocery	Refrigeration	Electric		Existing	28.13 Strip Curtains for Walk-Ins	4.0%		4	100.0%	30.0%	30.0%	1.132	24.93	0.30	1.00	\$0.01	\$0.02	A	A
	Grocery Grocery	Refrigeration Refrigeration	Electric Electric		Existing Existing	28.13 Demand Control Defrost - Hot Gas 28.13 Refrigeration Commissioning	2.5% S		10 3	100.0% 100.0%	69.6% 50.0%	69.6% 50.0%	0.705 1.407	24.63 24.20	0.43	0.62 1.21	\$0.01 \$0.02	\$0.02 \$0.02	A A	A A
SJD	Grocery	Refrigeration	Electric	Stock	Existing	28.13 Compressor VSD retrofit	6.2%	0.41	10	50.0%	95.0%	47.5%	1.745	23.59	0.69	1.46	\$0.04	\$0.04	В	В
	Grocery Grocery	Refrigeration Refrigeration	Electric Electric		Existing Existing	28.13 High Efficiency Case Fans 28.13 Reduced Speed or Cycling of Evaporator Fans	12.0% S		16 5	100.0% 100.0%	95.0% 80.0%	95.0% 80.0%	3.370 0.155	22.90 20.29	2.61 0.09	2.74 0.11	\$0.04 \$0.16	\$0.05 \$0.22	B F	C F
SJD	Grocery	Space_Heat	Electric		Existing	5.42 Duct Repair and Sealing	2.0%		20	25.0%	50.0%	12.5%	0.108	5.42	0.01	0.11	\$0.01	\$0.01	A	A
	Grocery Grocery	Space_Heat Space Heat	Electric Electric		Existing Existing	5.42 Duct Insulation 5.42 Clock / Programmable Thermostat	2.0% S		20 10	25.0% 100.0%	71.5% 50.0%	17.9% 50.0%	0.108 1.626	5.41 5.39	0.02 0.81	0.11 1.62	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD	Grocery	Space_Heat	Electric	Stock	Existing	5.42 Ceiling R-0 to R-19 Insulation	7.0% \$	0.24	20	50.0%	85.0%	42.5%	0.379	4.58	0.14	0.32	\$0.07	\$0.08	D	E
SJD	Grocery Grocery	Space_Heat Space Heat	Electric Electric		Existing Existing	5.42 Ceiling R-19 to R-38 Insulation 5.42 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	3.0% S		20 15	50.0% 50.0%	85.0% 100.0%	42.5% 50.0%	0.163 0.271	4.44 4.39	0.06 0.11	0.13 0.22	\$0.08 \$0.13	\$0.10 \$0.16	E F	F
SJD	Grocery	Water_Heat	Electric		Existing	2.4 Hot Water (SHW) Pipe Insulation	5.0% \$	0.01	15		100.0%	50.0%	0.120	2.40	0.06	0.12	\$0.01	\$0.01	A	A
	Grocery Grocery	Water_Heat Water Heat	Electric Flectric		Existing Existing	2.4 Heat Pump Water Heater 2.4 Demand controlled circulating systems	30.0% S		15 15		100.0% 100.0%	75.0% 50.0%	0.720	2.34 1.81	0.53	0.70	\$0.14 \$1.35	\$0.15 \$1.79	F	F
SJD	Health	Cooling_Chillers	Electric		Existing	3.36 EMS Optimization	1.0% \$	- 8	5	100.0%	75.0%	75.0%	0.034	3.36	0.03	0.03	\$0.00	\$0.00	A	A
	Health Health	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	3.36 Two-Speed Cooling Tower, 300 Tons 3.36 VSD Cooling Tower, 300 Tons	14.0% S		15 15	50.0% 50.0%	90.0% 90.0%	45.0% 45.0%	0.470 0.605	3.33 3.12	0.21 0.25	0.47 0.56	\$0.00 \$0.02	\$0.00 \$0.02	A A	A
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36 Insulation of Pipes	1.0% \$	0.01	20	50.0%	50.0%	25.0%	0.034	2.87	0.01	0.03	\$0.03	\$0.03	Α	В
	Health Health	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	3.36 High Efficiency Windows, Low-e; U=0.35 3.36 Installation of Energy Management Systems	1.2% 5		30 10	75.0% 50.0%	66.0% 75.0%	49.5% 37.5%	0.039 0.336	2.86 2.85	0.02	0.03 0.28	\$0.03 \$0.13	\$0.04 \$0.15	B F	B F
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36 Installation of Chiller Economizers (water side)	10.0%	0.59	20	50.0%	100.0%	50.0%	0.336	2.74	0.14	0.27	\$0.19	\$0.23	F	F
	Health Health	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	3.36 Primary/Secondary De-coupled Chilled Water System 3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% \$ 10.0% \$		15 10		80.0% 100.0%	40.0% 50.0%	0.403 0.336	2.60 2.48	0.12 0.12	0.31 0.25	\$0.21 \$0.21	\$0.27 \$0.28	F F	F F
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36 Chiller Tune-Up / Diagnostics	5.0% \$	0.17	5	100.0%	90.0%	90.0%	0.168	2.36	0.11	0.12	\$0.27	\$0.39	F	E
	Health Health	Cooling_Chillers Cooling Chillers	Electric Electric		Existing Existing	3.36 Optimize Chilled Water and Condenser Water Settings 3.36 Ceiling R-0 to R-19 Insulation	5.0% S 2.1% S		10 20	33.0% 50.0%	50.0% 20.0%	16.5% 10.0%	0.168 0.071	2.25 2.23	0.02	0.11 0.05	\$0.28 \$0.32	\$0.42 \$0.49	F F	F F
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36 Ceiling R-19 to R-38 Insulation	0.9%	0.21	20	50.0%	20.0%	10.0%	0.030	2.23	0.00	0.02	\$0.75	\$1.13	F	F
	Health Health	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	3.36 Duct Insulation 3.36 High Efficiency Windows, Low-e; U=0.35	3.0% S		20 30		25.0% 66.0%	6.3% 49.5%	0.101 0.168	3.36 3.35	0.01	0.10 0.17	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
SJD	Health	Cooling_DX	Electric	Stock	Existing	3.36 Clock / Programmable Thermostat	10.0%	0.09	10	100.0%	60.0%	60.0%	0.336	3.27	0.20	0.33	\$0.04	\$0.04	B	В
	Health Health	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	3.36 Duct Repair and Sealing 3.36 Installation of Air Side Economizers	1.0% S		20 10	25.0% 100.0%	50.0% 40.0%	12.5% 40.0%	0.034 0.504	3.07 3.07	0.00 0.18	0.03 0.46	\$0.13 \$0.19	\$0.14 \$0.20	F F	F F
SJD	Health	Cooling_DX	Electric	Stock	Existing	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.44	10	50.0%	100.0%	50.0%	0.336	2.89	0.14	0.29	\$0.21	\$0.24	F	F
	Health Health	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	3.36 Ceiling R-0 to R-19 Insulation 3.36 DX Tune-Up / Diagnostics	2.1% S		20 3	50.0% 100.0%	20.0% 90.0%	10.0% 90.0%	0.071 0.336	2.74 2.74	0.01 0.25	0.06 0.27	\$0.32 \$0.44	\$0.39 \$0.54	F	F
SJD	Health	Cooling_DX	Electric	Stock	Existing	3.36 Ceiling R-19 to R-38 Insulation	0.9%	0.21	20	50.0%	20.0%	10.0%	0.030	2.49	0.00	0.02	\$0.75	\$1.01	F	F
	Health Health	Cooling_HeatPump Cooling HeatPump	Electric Electric		Existing Existing	3.36 Duct Insulation 3.36 High Efficiency Windows, Low-e; U=0.35	3.0% S		20 30	25.0% 75.0%	25.0% 66.0%	6.3% 49.5%	0.101 0.168	3.36 3.35	0.01 0.08	0.10 0.17	\$0.01 \$0.02	\$0.01 \$0.02	A	A
SJD	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36 Clock / Programmable Thermostat	10.0% \$	0.09	10	100.0%	60.0%	60.0%	0.336	3.27	0.20	0.33	\$0.04	\$0.04	В	В
	Health Health	Cooling_HeatPump Cooling HeatPump	Electric Electric		Existing Existing	3.36 Duct Repair and Sealing 3.36 Installation of Air Side Economizers	1.0% S		20 10	25.0% 100.0%	50.0% 40.0%	12.5% 40.0%	0.034 0.504	3.07 3.07	0.00	0.03 0.46	\$0.13 \$0.19	\$0.14 \$0.20	F F	F F
SJD	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.44	10	50.0%	100.0%	50.0%	0.336	2.89	0.14	0.29	\$0.21	\$0.24	F	F
	Health Health	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	3.36 Ceiling R-0 to R-19 Insulation 3.36 DX Tune-Up / Diagnostics	2.1% S		20	50.0% 100.0%	20.0% 90.0%	10.0% 90.0%	0.071 0.336	2.74 2.74	0.01 0.25	0.06 0.27	\$0.32 \$0.44	\$0.39 \$0.54	F	F
SJD	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36 Ceiling R-19 to R-38 Insulation	0.9% \$	0.21	20	50.0%	20.0%	10.0%	0.030	2.49	0.00	0.02	\$0.75	\$1.01	F	F
	Health Health	Lighting_2L4T12 Lighting_2L4T12	Electric Flectric		Existing Existing	10.77 Occupancy Sensor, 8-4' Fluorescent Fixtures 10.77 4' 1L T8 Premium, EB, reflector	30.0% § 61.1% §		7 12	50.0% 33.3%	90.0% 100.0%	45.0% 33.3%	3.231 6.582	10.77 10.77	1.45 2.19	3.23 6.58	\$0.03 \$0.03	\$0.03 \$0.03	A B	A B
SJD	Health	Lighting_2L4T12	Electric	Stock	Existing	10.77 4' 2L T8 Premium, EB	25.0% \$	0.76	12	33.3%	100.0%	33.3%	2.693	10.77	0.90	2.69	\$0.04	\$0.04	В	В
	Health Health	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		Existing Existing	10.77 4' 1L T5HO, EB 10.77 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% S 75.0% S		12 8		100.0% 100.0%	33.3% 10.0%	1.497 8.078	10.77 10.77	0.50 0.81	1.50 8.08	\$0.05 \$0.09	\$0.05 \$0.09	C E	C E
SJD	Health	Lighting_2L4T8	Electric	Stock	Existing	8.62 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	0.44	7	50.0%	90.0%	45.0%	2.586	8.62	1.16	2.59	\$0.04	\$0.04	В	В
	Health Health	Lighting_2L4T8 Lighting_2L8T12	Electric Electric		Existing Existing	8.62 4' 2L T8 Premium, EB 10.77 8' 2L T8, EB	8.5% S 52.8% S		12 12		100.0% 100.0%	100.0% 50.0%	0.733 5.687	8.62 10.77	0.73 2.84	0.73 5.69	\$0.05 \$0.01	\$0.05 \$0.01	C A	C
SJD	Health	Lighting_2L8T12	Electric	Stock	Existing	10.77 8' 1L T12, 60W, EB, reflector	55.3% \$	0.77	12	25.0%	100.0%	25.0%	5.956	10.77	1.49	5.96	\$0.02	\$0.02	Α	A
SJD	Health Health	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	10.77 8' 2L T12, 60W, EB 10.77 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% S		12 7	25.0% 50.0%	50.0% 90.0%	12.5% 45.0%	1.138 3.231	10.77 10.77	0.14 1.45	1.14 3.23	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
SJD	Health	Lighting_2L8T12	Electric	Stock	Existing	10.77 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	3.99	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	\$0.09	\$0.09	Ē	E
	Health Health	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		Existing Existing	10.77 4' 1L T5HO, EB 10.77 4' 3L T8. EB	46.1% S		12 12		100.0% 100.0%	75.0% 75.0%	4.964 2.435	10.77 10.77	3.72 1.83	4.96 2.43	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
SJD	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77 4' 2L T8 Premium, EB, reflector	53.0%	0.07	12	40.0%	100.0%	40.0%	5.713	10.77	2.29	5.71	\$0.00	\$0.00	Α	Ä
	Health Health	Lighting_3L4T12 Lighting_3L4T8	Electric Electric		Existing Existing	10.77 4' 3L T8 Premium, EB 8.62 4' 3L T8 Premium, EB	22.6% S		12 12	75.0% 100.0%	100.0% 100.0%	75.0% 100.0%	2.435 0.578	10.77 8.62	1.83 0.58	2.43 0.58	\$0.00 \$0.10	\$0.00 \$0.10	A F	A F
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77 4' 3L T8, EB	38.2% \$	0.09	12	16.7%	100.0%	16.7%	4.114	10.77	0.69	4.11	\$0.00	\$0.00	A	A
SJD	Health Health	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	10.77 4' 3L T8 Premium, EB 10.77 4' 4L T8. EB	42.4% S 22.2% S		12 12		100.0% 100.0%	16.7% 16.7%	4.562 2.393	10.77 10.77	0.76 0.40	4.56 2.39	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77 4' 2L T8 Premium, EB, reflector	62.5%	0.72	12	16.7%	100.0%	16.7%	6.731	10.77	1.12	6.73	\$0.02	\$0.02	A	A
	Health Health	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	10.77 4' 2L T5HO, EB 10.77 4' 4L T8 Premium, EB	18.8% \$ 25.0% \$		12 12		100.0% 100.0%	16.7% 16.7%	2.019 2.693	10.77 10.77	0.34 0.45	2.02 2.69	\$0.02 \$0.03	\$0.02 \$0.03	A A	A A
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0% \$	0.51	7	50.0%	90.0%	45.0%	3.231	10.77	1.45	3.23	\$0.03	\$0.03	В	В
	Health Health	Lighting_4L4T12 Lighting_4L4T8	Electric Electric		Existing Existing	10.77 Continuous Dimming, 5-4' Fluorescent Fixtures 8.62 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% S		8 7	10.0% 50.0%	100.0% 90.0%	10.0% 45.0%	8.078 2.586	10.77 8.62	0.81 1.16	8.08 2.59	\$0.09 \$0.04	\$0.09 \$0.04	E B	E B
SJD	Health	Lighting_4L4T8	Electric	Stock	Existing	8.62 4' 4L T8 Premium, EB	3.6% \$	0.30	12	100.0%	100.0%	100.0%	0.310	8.62	0.31	0.31	\$0.13	\$0.13	F	F
	Health Health	Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	10.77 Halogen PAR Flood, 90W 10.77 HPS, 50W	40.0% \$ 56.0% \$		1 4	10.0% 45.0%	95.0% 90.0%	9.5% 40.5%	4.308 6.031	10.77 10.77	0.41 2.44	4.31 6.03	\$0.03 \$0.15	\$0.03 \$0.15	A F	A F
	Health	Lighting_INC150W	Electric		Existing	10.77 Metal Halide, 50W	52.0% \$	5.59	4	45.0%	90.0%	40.5%	5.600	10.77	2.27	5.60	\$0.33	\$0.33	F	F
	Health Health	Lighting_INC40W Lighting_INC75W	Electric Electric		Existing Existing	10.77 LED Exit Signs 10.77 CFL Screw-in, Modular 18W	80.0% § 65.3% §		20		90.0% 85.0%	81.0% 76.5%	8.616 7.033	10.77 10.77	6.98 5.38	8.62 7.03	\$0.00 \$0.14	\$0.00 \$0.14	A F	A F
SJD	Health	Plug_Load	Electric	Stock	Existing	0.52 Smart Networks	6.4% \$	0.00	4	90.0%	40.0%	36.0%	0.033	0.52	0.01	0.03	\$0.04	\$0.04	В	В
SJD		Plug_Load Plug_Load	Electric Electric		Existing Existing	0.52 ENERGY STAR or Better Office Equipment: Monitors 0.52 ENERGY STAR or Better Office Equipment: Copiers	15.4% S 10.2% S		4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.080 0.053	0.51 0.45	0.06	0.08 0.05	\$0.23 \$0.24	\$0.23 \$0.28	F F	F F
SJD	Health	Plug_Load	Electric	Stock	Existing	0.52 ENERGY STAR or Better Office Equipment: Computer	17.4%	0.11	4	100.0%	65.0%	65.0%	0.090	0.42	0.05	0.07	\$0.40	\$0.50	F	F.
	Health Health	Plug_Load Space_Heat	Electric Electric		Existing Existing	0.52 ENERGY STAR or Better Office Equipment: Printers 4.96 Duct Repair and Sealing	13.2% S 2.0% S		4 20	100.0% 25.0%	65.0% 50.0%	65.0% 12.5%	0.069	0.37 4.96	0.03 0.01	0.05 0.10	\$0.53 \$0.00	\$0.73 \$0.00	F A	F A
SJD	Health	Space_Heat	Electric	Stock	Existing	4.96 Duct Insulation	2.0% \$	0.01	20	25.0%	70.3%	17.6%	0.099	4.95	0.02	0.10	\$0.01	\$0.01	Α	A
SJD	Health Health	Space_Heat Space Heat	Electric Electric		Existing Existing	4.96 Clock / Programmable Thermostat 4.96 Ceiling R-0 to R-19 Insulation	30.0% S		10 20	100.0% 50.0%	70.0% 40.0%	70.0% 20.0%	1.488 0.347	4.93 3.89	1.04		\$0.02 \$0.07	\$0.02 \$0.08	A D	A F
SJD	Health	Space_Heat	Electric	Stock	Existing	4.96 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	0.28	15	50.0%	100.0%	50.0%	0.248	3.84	0.10	0.19	\$0.14	\$0.18	F	F
	Health Health	Space_Heat Water Heat	Electric Flectric		Existing Existing	4.96 Ceiling R-19 to R-38 Insulation 2.27 Hot Water (SHW) Pipe Insulation	3.0% S		20 15	50.0% 50.0%	40.0% 80.0%	20.0%	0.149	3.74 2.27	0.02		\$0.15 \$0.01	\$0.20 \$0.01	F A	F A
SJD	Health	Water_Heat	Electric	Stock	Existing	2.27 Heat Pump Water Heater	30.0%	3.95	15	75.0%	100.0%	75.0%	0.681	2.22	0.50	0.67	\$0.71	\$0.73	F	Ê
	Health Large_Office	Water_Heat Cooling_Chillers	Electric Electric		Existing Existing	2.27 Demand controlled circulating systems 4.19 EMS Optimization	5.0% S		15 5	50.0% 100.0%	90.0% 75.0%	45.0% 75.0%	0.114 0.042	1.72 4.19	0.04	0.09 0.04	\$6.73 \$0.00	\$8.86 \$0.00	F A	F A
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19 Two-Speed Cooling Tower, 300 Tons	14.0%	0.01	15	50.0%	90.0%	45.0%	0.587	4.16	0.26	0.58	\$0.00	\$0.00	Α	Α
	Large_Office Large_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Insulation of Pipes 4.19 VSD Cooling Tower, 300 Tons	1.0% S 18.0% S		20 15		50.0% 90.0%	25.0% 45.0%	0.042 0.754	3.90 3.89	0.01 0.31	0.04 0.70	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD	zarge_Onice	Sooming_Crimiers	LICCUIC	JIOUR	Laisting	1.10 100 000ling 10moi, 000 10mo	10.076	, 0.07	15	50.0%	30.076	40.0%	0.704	3.03	0.01	0.70	φυ.01	φυ.υ I	^	^

Are	a Building Type	e End-Use	Fuel	Efficiency	/ Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor *	Stand Alone	Adjusted Base	Stacked Savings	Stacked Savings Full	Stand-alone Marginal	Enormy	Stand Alone Cost Group	Cost
		Occupant Objects	Florida	011-	F. Carrier	440 Usb Efficient Western Laure II 205						Incomp Factor)	Savings				Energy Cost	Cost	Cost Group	Group
SJD	Large_Office Large_Office	Cooling_Chillers Cooling_Chillers	Electric Electric	Stock	Existing Existing	4.19 High Efficiency Windows, Low-e; U=0.35 4.19 Installation of Energy Management Systems	9.3% \$ 10.0% \$		30 10		99.4% 19.1%	74.6% 9.5%	0.388 0.419	3.57 3.33	0.25 0.03	0.33 0.33	\$0.01 \$0.07	\$0.02 \$0.09	A D	E
	Large_Office Large_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	 4.19 Primary/Secondary De-coupled Chilled Water System 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	12.0% \$ 10.0% \$	0.45 0.29	15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.503 0.419	3.29 3.14	0.16 0.16	0.40 0.31	\$0.11 \$0.11	\$0.14 \$0.15	F	F F
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19 Chiller Tune-Up / Diagnostics	5.0% \$	0.11	5	100.0%	90.0%	90.0%	0.210	2.98	0.13	0.15	\$0.15	\$0.20	Ē	Ē
SJD	Large_Office Large_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Installation of Chiller Economizers (water side) 4.19 Optimize Chilled Water and Condenser Water Settings	10.0% \$ 5.0% \$	0.59 0.20	20 10		56.9% 50.0%	28.4% 16.5%	0.419 0.210	2.84 2.76	0.08	0.28 0.14	\$0.15 \$0.15	\$0.22 \$0.23	F	F F
SJD	Large_Office	Cooling_Chillers	Electric Electric		Existing Existing	4.19 Ceiling R-0 to R-19 Insulation 4.19 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$	0.16 0.16	20 20	50.0% 50.0%	8.7% 8.7%	4.4% 4.4%	0.088	2.74 2.74	0.00	0.06 0.02	\$0.20 \$0.46	\$0.30 \$0.70	F	F
SJD	Large_Office Large_Office	Cooling_Chillers Cooling_DX	Electric		Existing	4.19 Duct Insulation	3.0% \$	0.02	20	25.0%	25.0%	6.3%	0.126	4.19	0.01	0.13	\$0.02	\$0.02	Ā	A
SJD	Large_Office Large_Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 Clock / Programmable Thermostat 4.19 High Efficiency Windows, Low-e; U=0.35	10.0% \$ 5.0% \$	0.06 0.15	10 30		58.4% 99.4%	58.4% 74.6%	0.419 0.210	4.18 3.94	0.24 0.15	0.42 0.20	\$0.02 \$0.06	\$0.02 \$0.07	A D	A D
SJD	Large_Office	Cooling_DX	Electric	Stock	Existing	4.19 Duct Repair and Sealing	1.0% \$	0.04	20	25.0%	50.0%	12.5%	0.042	3.79	0.00	0.04	\$0.10	\$0.11	F	F
	Large_Office Large_Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.19 Installation of Air Side Economizers	10.0% \$ 15.0% \$		10 10	50.0% 100.0%	100.0% 30.4%	50.0% 30.4%	0.419 0.629	3.79 3.60	0.19 0.16	0.38 0.54	\$0.11 \$0.15	\$0.12 \$0.17	F	F
SJD	Large_Office Large_Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 Ceiling R-0 to R-19 Insulation 4.19 DX Tune-Up / Diagnostics	2.1% \$ 10.0% \$	0.16 0.23	20 3		8.7% 90.0%	4.4% 90.0%	0.088 0.419	3.43 3.43	0.00 0.31	0.07 0.34	\$0.20 \$0.24	\$0.24 \$0.29	F	F
SJD	Large_Office	Cooling_DX	Electric	Stock	Existing	4.19 Ceiling R-19 to R-38 Insulation	0.9% \$	0.16	20	50.0%	8.7%	4.4%	0.038	3.12	0.00	0.03	\$0.46	\$0.62	F	F
	Large_Office Large Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.19 Duct Insulation 4.19 Clock / Programmable Thermostat	3.0% \$ 10.0% \$	0.02 0.06	20 10	25.0% 100.0%	25.0% 58.4%	6.3% 58.4%	0.126 0.419	4.19 4.18	0.01 0.24	0.13 0.42	\$0.02 \$0.02	\$0.02 \$0.02	A A	A A
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.15	30	75.0%	99.4%	74.6%	0.210	3.94	0.15	0.20	\$0.06	\$0.07	D	D
	Large_Office Large_Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.19 Duct Repair and Sealing 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	1.0% \$ 10.0% \$	0.04 0.29	20 10		50.0% 100.0%	12.5% 50.0%	0.042 0.419	3.79 3.79	0.00 0.19		\$0.10 \$0.11	\$0.11 \$0.12	F	F
	Large_Office Large_Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.19 Installation of Air Side Economizers 4.19 Ceiling R-0 to R-19 Insulation	15.0% \$ 2.1% \$	0.59 0.16	10 20	100.0% 50.0%	30.4% 8.7%	30.4% 4.4%	0.629 0.088	3.60 3.43	0.16 0.00	0.54 0.07	\$0.15 \$0.20	\$0.17 \$0.24	F	F
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19 DX Tune-Up / Diagnostics	10.0% \$	0.23	3	100.0%	90.0%	90.0%	0.419	3.43	0.31	0.34	\$0.24	\$0.29	F	F
	Large_Office Large_Office	Cooling_HeatPump Lighting_2L4T12	Electric Electric		Existing Existing	4.19 Ceiling R-19 to R-38 Insulation 5.29 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% \$ 30.0% \$	0.16 0.45	20 9	50.0% 40.0%	8.7% 79.6%	4.4% 31.8%	0.038 1.587	3.12 5.29	0.00 0.51	0.03 1.59	\$0.46 \$0.05	\$0.62 \$0.05	F C	F C
SJD	Large_Office	Lighting_2L4T12	Electric	Stock	Existing	5.29 4' 1L T8 Premium, EB, reflector	61.1% \$	1.58	16	33.3%	100.0%	33.3%	3.233	5.29	1.08	3.23	\$0.06	\$0.06	C	C
SJD	Large_Office Large_Office	Lighting_2L4T12 Lighting_2L4T12	Electric Electric	Stock	Existing Existing	5.29 4' 2L T8 Premium, EB 5.29 4' 1L T5HO, EB	25.0% \$ 13.9% \$	0.59	16 16	33.3%	100.0% 100.0%	33.3% 33.3%	1.323 0.735	5.29 5.29	0.44 0.25		\$0.07 \$0.09	\$0.07 \$0.09	D E	D E
SJD	Large_Office Large_Office	Lighting_2L4T12 Lighting_2L4T8	Electric Electric		Existing Existing	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures 4.24 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% \$ 30.0% \$		11 9		100.0% 79.6%	40.0% 31.8%	3.968 1.272	5.29 4.24	1.59 0.40	3.97	\$0.14 \$0.06	\$0.14 \$0.06	F D	F D
SJD	Large_Office	Lighting_2L4T8	Electric	Stock	Existing	4.24 4' 2L T8 Premium, EB	8.5% \$	0.27	16	100.0%	100.0%	100.0%	0.360	4.24	0.36	0.36	\$0.09	\$0.09	E	E
	Large_Office Large_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	5.29 8' 2L T8, EB 5.29 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$		16 16	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	2.793 2.925	5.29 5.29	1.40 0.73	2.79 2.93	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
SJD	Large_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29 8' 2L T12, 60W, EB	10.6% \$	0.17	16	25.0%	26.6%	6.6%	0.559	5.29	0.04	0.56	\$0.04	\$0.04	В	В
	Large_Office Large_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	5.29 Occupancy Sensor, 4-8' Fluorescent Fixtures 5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% \$ 75.0% \$	0.54 4.09	9 11	40.0% 40.0%	79.6% 100.0%	31.8% 40.0%	1.587 3.968	5.29 5.29	0.51 1.59	1.59 3.97	\$0.06 \$0.15	\$0.06 \$0.15	C F	F
	Large_Office Large_Office	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		Existing Existing	5.29 4' 1L T5HO, EB 5.29 4' 3L T8, EB	46.1% \$ 22.6% \$		16 16	75.0% 75.0%	100.0% 100.0%	75.0% 75.0%	2.438 1.196	5.29 5.29	1.83 0.90	2.44 1.20	\$0.00 \$0.00	\$0.00 \$0.00	A	A
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29 4' 2L T8 Premium, EB, reflector	53.0% \$	0.28	16	40.0%	100.0%	40.0%	2.806	5.29	1.12	2.81	\$0.01	\$0.01	Ä	Ä
	Large_Office Large_Office	Lighting_3L4T12 Lighting_3L4T8	Electric Electric		Existing Existing	5.29 4' 3L T8 Premium, EB 4.24 4' 3L T8 Premium, EB	22.6% \$ 6.7% \$	0.13 0.43	16 16	75.0% 100.0%	100.0% 100.0%	75.0% 100.0%	1.196 0.284	5.29 4.24	0.90 0.28	1.20 0.28	\$0.01 \$0.18	\$0.01 \$0.18	A F	A F
SJD	Large_Office	Lighting_4L4T12	Electric		Existing	5.29 4' 3L T8, EB 5.29 4' 3L T8 Premium, EB	38.2% \$ 42.4% \$		16	16.7% 16.7%	100.0%	16.7%	2.021	5.29	0.34 0.37	2.02 2.24	\$0.01 \$0.02	\$0.01 \$0.02	A	A
SJD	Large_Office Large_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Electric	Stock	Existing Existing	5.29 4' 4L T8, EB	22.2% \$		16 16	16.7%	100.0% 100.0%	16.7% 16.7%	2.241 1.176	5.29 5.29	0.20	1.18	\$0.02	\$0.02	A	A
	Large_Office Large_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	5.29 4' 2L T8 Premium, EB, reflector 5.29 4' 2L T5HO, EB	62.5% \$ 18.8% \$	0.74 0.29	16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	3.306 0.992	5.29 5.29	0.55 0.17	3.31 0.99	\$0.03 \$0.03	\$0.03 \$0.03	A B	A B
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29 4' 4L T8 Premium, EB	25.0% \$	0.50	16	16.7%	100.0%	16.7%	1.323	5.29	0.22	1.32	\$0.04	\$0.04	В	В
SJD	Large_Office Large_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	5.29 Occupancy Sensor, 4-4' Fluorescent Fixtures 5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% \$ 75.0% \$		9 11	40.0% 40.0%	79.6% 100.0%	31.8% 40.0%	1.587 3.968	5.29 5.29	0.51 1.59	1.59 3.97	\$0.06 \$0.15	\$0.06 \$0.15	C F	C F
SJD	Large_Office	Lighting_4L4T8	Electric Electric		Existing Existing	4.24 Occupancy Sensor, 4-4' Fluorescent Fixtures 4.24 4' 4L T8 Premium. EB	30.0% \$ 3.6% \$	0.52 0.30	9 16	40.0% 100.0%	79.6% 100.0%	31.8% 100.0%	1.272 0.153	4.24 4.24	0.40 0.15		\$0.07 \$0.24	\$0.07 \$0.24	D	D
SJD	Large_Office Large_Office	Lighting_4L4T8 Lighting_INC150W	Electric	Stock	Existing	5.29 Halogen PAR Flood, 90W	40.0% \$	0.18	1	10.0%	100.0%	10.0%	2.116	5.29	0.21	2.12	\$0.10	\$0.10	Ē	E
SJD	Large_Office Large_Office	Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	5.29 HPS, 50W 5.29 Metal Halide, 50W	56.0% \$ 52.0% \$		6	45.0% 45.0%	93.9% 93.9%	42.2% 42.2%	2.962 2.751	5.29 5.29	1.25 1.16	2.96 2.75	\$0.38 \$0.80	\$0.38 \$0.80	F F	F F
SJD	Large_Office	Lighting_INC40W	Electric		Existing	5.29 LED Exit Signs	80.0% \$ 65.3% \$	0.05	20		90.0% 72.5%	81.0%	4.232	5.29	3.43		\$0.00	\$0.00	A	A
SJD	Large_Office Large_Office	Lighting_INC75W Plug_Load	Electric Electric		Existing Existing	5.29 CFL Screw-in, Modular 18W 1.59 Smart Networks	9.1% \$	2.25 0.01	5 4	90.0% 90.0%	40.0%	65.2% 36.0%	3.454 0.145	5.29 1.59	2.25 0.05	3.45 0.15	\$0.18 \$0.02	\$0.18 \$0.02	Ā	Ā
SJD	Large_Office Large_Office	Plug_Load Plug_Load	Electric Electric		Existing Existing	1.59 ENERGY STAR or Better Office Equipment: Monitors 1.59 ENERGY STAR or Better Office Equipment: Copiers	21.9% \$ 4.8% \$	0.09	4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.349	1.54 1.30	0.24	0.34 0.06	\$0.09 \$0.14	\$0.09 \$0.18	E	E
SJD	Large_Office	Plug_Load	Electric	Stock	Existing	1.59 ENERGY STAR or Better Office Equipment: Computer	24.7% \$	0.18	4	100.0%	65.0%	65.0%	0.393	1.26	0.20	0.31	\$0.15	\$0.19	Ē	F.
	Large_Office Large_Office	Plug_Load Space Heat	Electric Electric		Existing Existing	1.59 ENERGY STAR or Better Office Equipment: Printers 6.18 Duct Repair and Sealing	8.0% \$ 2.0% \$	0.10 0.01	4 20	100.0% 25.0%	65.0% 50.0%	65.0% 12.5%	0.127 0.124	1.06 6.18	0.05	0.08 0.12	\$0.26 \$0.01	\$0.40 \$0.01	F A	F A
SJD	Large_Office Large_Office	Space_Heat Space Heat	Electric	Stock	Existing Existing	6.18 Clock / Programmable Thermostat 6.18 Duct Insulation	30.0% \$ 2.0% \$		10 20	100.0%	58.5% 58.5%	58.5% 14.6%	1.854 0.124	6.16 5.08	1.08	1.85 0.10	\$0.01 \$0.02	\$0.01	A	A
SJD	Large_Office	Space_Heat	Electric	Stock	Existing	6.18 Ceiling R-0 to R-19 Insulation	7.0% \$	0.16	20	50.0%	12.9%	6.5%	0.433	5.07	0.02	0.35	\$0.04	\$0.05	В	Ĉ
	Large_Office Large_Office	Space_Heat Space Heat	Electric Electric		Existing Existing	6.18 Ceiling R-19 to R-38 Insulation 6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	3.0% \$ 5.0% \$	0.16 0.28	20 15	50.0% 50.0%	12.9% 100.0%	6.5% 50.0%	0.185	5.05 5.04	0.01 0.13	0.15 0.25	\$0.09 \$0.11	\$0.11 \$0.14	E F	F F
SJD	Large_Office	Water_Heat	Electric	Stock	Existing	0.95 Hot Water (SHW) Pipe Insulation	5.0% \$	0.00	15	50.0%	39.3%	19.6%	0.048	0.95	0.01	0.05	\$0.01	\$0.01	A	A
	Large_Office Large_Office	Water_Heat Water_Heat	Electric Electric		Existing Existing	0.95 Heat Pump Water Heater 0.95 Demand controlled circulating systems	30.0% \$ 5.0% \$	0.58 0.91	15 15		100.0% 93.2%	75.0% 46.6%	0.285 0.048	0.94 0.73	0.21 0.02	0.28 0.04	\$0.25 \$2.35	\$0.25 \$3.06	F	F
SJD	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	2.83 EMS Optimization 2.83 Two-Speed Cooling Tower, 300 Tons	1.0% \$ 14.0% \$	0.01	5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.028 0.396	2.83 2.81	0.02 0.18	0.03 0.39	\$0.00 \$0.00	\$0.00 \$0.00	A	A
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83 VSD Cooling Tower, 300 Tons	18.0% \$	0.11	15	50.0%	90.0%	45.0%	0.509	2.63	0.21	0.47	\$0.03	\$0.03	Α	Â
	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	2.83 High Efficiency Windows, Low-e; U=0.35 2.83 Insulation of Pipes	7.0% \$ 1.0% \$	0.06 0.03	30 20		92.9% 50.0%	69.7% 25.0%	0.199 0.028	2.42 2.30	0.12 0.01	0.17 0.02	\$0.03 \$0.13	\$0.03 \$0.16	A F	B F
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83 Installation of Energy Management Systems	10.0% \$	0.29	10	50.0%	37.5%	18.7%	0.283	2.29	0.04	0.23	\$0.16	\$0.20	F	F
SJD	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric Electric	Stock	Existing Existing	2.83 Ceiling R-0 to R-19 Insulation 2.83 Installation of Chiller Economizers (water side)	2.1% \$ 10.0% \$	0.59	20 20	50.0%	34.6% 40.1%	17.3% 20.0%	0.059 0.283	2.25 2.24	0.01 0.04	0.05 0.22	\$0.19 \$0.22	\$0.28	F	F
SJD	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric Electric	Stock	Existing Existing	2.83 Primary/Secondary De-coupled Chilled Water System 2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% \$ 10.0% \$	0.71	15 10	50.0%	80.0% 100.0%	40.0% 50.0%	0.340 0.283	2.20 2.09	0.11 0.10	0.26	\$0.26 \$0.26	\$0.33 \$0.35	F	F
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83 Chiller Tune-Up / Diagnostics	5.0% \$	0.18	5	100.0%	90.0%	90.0%	0.142	1.99	0.09	0.10	\$0.34	\$0.49	F	F
	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	2.83 Optimize Chilled Water and Condenser Water Settings 2.83 Ceiling R-19 to R-38 Insulation	5.0% \$ 0.9% \$	0.31 0.11	10 20		50.0% 34.6%	16.5% 17.3%	0.142 0.025	1.90 1.88	0.02	0.09 0.02	\$0.35 \$0.44	\$0.52 \$0.66	F F	F F
SJD	Lodging	Cooling_DX	Electric	Stock	Existing	2.83 Duct Insulation	3.0% \$	0.01	20	25.0%	25.0%	6.3%	0.085	2.83	0.01	0.08	\$0.02	\$0.02	A	A
SJD	Lodging Lodging	Cooling_DX Cooling_DX	Electric Electric	Stock	Existing Existing	2.83 Occupancy Sensor for room HVAC units 2.83 Clock / Programmable Thermostat	35.0% \$ 10.0% \$	0.10	15 10	100.0%	100.0% 80.0%	51.0% 80.0%	0.991 0.283	2.82 2.32	0.50 0.19	0.23	\$0.04 \$0.05	\$0.04 \$0.07	B C	B D
SJD	Lodging Lodging	Cooling_DX	Electric Electric	Stock	Existing Existing	2.83 High Efficiency Windows, Low-e; U=0.35 2.83 Duct Repair and Sealing	5.0% \$ 1.0% \$		30 20		92.9% 50.0%	69.7% 12.5%	0.142 0.028	2.13 2.06	0.07 0.00	0.11 0.02	\$0.10 \$0.15		F	F
SJD	Lodging	Cooling_DX Cooling_DX	Electric	Stock	Existing	2.83 Ceiling R-0 to R-19 Insulation	2.1% \$	0.11	20	50.0%	34.6%	17.3%	0.059	2.06	0.01	0.04	\$0.19	\$0.26	F	F
	Lodging Lodging	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	2.83 Installation of Air Side Economizers 2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	15.0% \$ 10.0% \$	0.59 0.46	10 10		40.0% 100.0%	40.0% 50.0%	0.425 0.283	2.05 1.93	0.12 0.10		\$0.22 \$0.26	\$0.30 \$0.38	F F	F F
SJD	Lodging	Cooling_DX	Electric	Stock	Existing	2.83 Ceiling R-19 to R-38 Insulation	0.9% \$	0.11	20	50.0%	34.6%	17.3%	0.025	1.83	0.00	0.02	\$0.44	\$0.68	F	F F
SJD	Lodging	Cooling_DX	Electric	STOCK	Existing	2.83 DX Tune-Up / Diagnostics	10.0% \$	0.37	3	100.0%	90.0%	90.0%	0.283	1.83	0.16	0.18	\$0.55	\$0.85	F	۲

Area Building Type	End-Use	Fuel Efficie	ncy Vintage	EUI Measure Names	Energy F Savings	full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
SJD Lodging	Cooling_HeatPump	Electric Stock	Existing	2.83 Duct Insulation	3.0% \$		20	25.0%	25.0%	6.3%		2.83		0.08	\$0.02	\$0.02	A	A
SJD Lodging SJD Lodging		Electric Stock Electric Stock	Existing Existing	2.83 Clock / Programmable Thermostat 2.83 High Efficiency Windows, Low-e; U=0.35	10.0% S		10 30	100.0% 75.0%	80.0% 92.9%	80.0% 69.7%	0.283 0.142	2.82 2.60	0.23	0.28 0.13	\$0.05 \$0.10	\$0.05 \$0.11	C F	C F
SJD Lodging	Cooling_HeatPump	Electric Stock	Existing	2.83 Duct Repair and Sealing	1.0% \$	0.04	20	25.0%	50.0%	12.5%	0.028	2.51	0.00	0.03	\$0.15	\$0.17	F	F
SJD Lodging SJD Lodging	Cooling_HeatPump Cooling_HeatPump	Electric Stock	Existing Existing	2.83 Ceiling R-0 to R-19 Insulation 2.83 Installation of Air Side Economizers	2.1% S 15.0% S		20 10	50.0% 100.0%	34.6% 40.0%	17.3% 40.0%	0.059 0.425	2.51 2.50	0.01 0.15	0.05 0.37	\$0.19 \$0.22	\$0.21 \$0.25	F	F
SJD Lodging	Cooling_HeatPump	Electric Stock	Existing	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.46	10	50.0%	100.0%	50.0%	0.283	2.35	0.12	0.23	\$0.26	\$0.31	F	F
SJD Lodging	Cooling_HeatPump Cooling HeatPump	Electric Stock	Existing	2.83 Ceiling R-19 to R-38 Insulation	0.9% 5		20	50.0%	34.6%	17.3%		2.23		0.02	\$0.44	\$0.56	F	F
SJD Lodging SJD Lodging	Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	2.83 DX Tune-Up / Diagnostics 3.01 Occupancy Sensor, 8-4' Fluorescent Fixtures	10.0% S		3 15	100.0% 20.0%	90.0% 89.6%	90.0% 17.9%	0.283 0.903	2.23 3.01	0.20 0.16	0.22 0.90	\$0.55 \$0.03	\$0.70 \$0.03	В	В
SJD Lodging	Lighting_2L4T12	Electric Stock	Existing	3.01 4' 1L T8 Premium, EB, reflector	61.1% 5		26	33.3%	100.0%	33.3%	1.839	3.01		1.84	\$0.04	\$0.04	В	В
SJD Lodging SJD Lodging	Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	3.01 4' 2L T8 Premium, EB 3.01 4' 1L T5HO, EB	25.0% S		26 26	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%		3.01 3.01	0.25 0.14	0.75 0.42	\$0.05 \$0.07	\$0.05 \$0.07	C D	C D
SJD Lodging	Lighting_2L4T12	Electric Stock	Existing	3.01 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0% \$	1.89	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	\$0.09	\$0.09	E	E
SJD Lodging SJD Lodging	Lighting_2L4T8 Lighting 2L4T8	Electric Stock Electric Stock	Existing Existing	2.41 Occupancy Sensor, 8-4' Fluorescent Fixtures 2.41 4' 2L T8 Premium. EB	30.0% S 8.5% S		15 26	20.0% 100.0%	89.6% 100.0%	17.9% 100.0%	0.723 0.205	2.41 2.41	0.13 0.20	0.72 0.20	\$0.04 \$0.06	\$0.04 \$0.06	B D	B D
SJD Lodging	Lighting_2L8T12	Electric Stock	Existing	3.01 8' 2L T8, EB	52.8%	0.18	26	50.0%	100.0%	50.0%	1.589	3.01	0.79	1.59	\$0.01	\$0.01	Ā	Ā
SJD Lodging SJD Lodging	Lighting_2L8T12 Lighting_2L8T12	Electric Stock Electric Stock	Existing Existing	3.01 8' 1L T12, 60W, EB, reflector 3.01 8' 2L T12, 60W, EB	55.3% S		26 26	25.0% 25.0%	100.0% 79.9%	25.0% 20.0%		3.01 3.01		1.66 0.32	\$0.02 \$0.03	\$0.02 \$0.03	A A	A
SJD Lodging	Lighting_2L8T12	Electric Stock	Existing	3.01 Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%		15	20.0%	89.6%	17.9%	0.903	3.01	0.16	0.90	\$0.04	\$0.04	В	В
SJD Lodging	Lighting_2L8T12	Electric Stock	Existing Existing	3.01 Continuous Dimming, 5-8' Fluorescent Fixtures 3.01 4' 1L T5HO, FB	75.0% \$ 46.1% \$		19	30.0% 75.0%	100.0% 100.0%	30.0%	2.258 1.387	3.01 3.01	0.68 1.04	2.26	\$0.10 \$0.00	\$0.10 \$0.00	E	E
SJD Lodging SJD Lodging	Lighting_3L4T12 Lighting_3L4T12	Electric Stock Electric Stock	Existing	3.01 4 1L 15HO, EB 3.01 4' 3L T8, EB	22.6%		26 26	75.0%	100.0%	75.0% 75.0%		3.01		1.39 0.68	\$0.00	\$0.00	A A	A A
SJD Lodging	Lighting_3L4T12	Electric Stock	Existing	3.01 4' 2L T8 Premium, EB, reflector	53.0%		26	40.0%	100.0%	40.0%		3.01		1.60	\$0.01	\$0.01	A	A
SJD Lodging SJD Lodging	Lighting_3L4T12 Lighting_3L4T8	Electric Stock Electric Stock	Existing Existing	3.01 4' 3L T8 Premium, EB 2.41 4' 3L T8 Premium, EB	22.6% S		26 26	75.0% 100.0%	100.0% 100.0%	75.0% 100.0%	0.681 0.161	3.01 2.41	0.51 0.16	0.68 0.16	\$0.01 \$0.13	\$0.01 \$0.13	A F	A F
SJD Lodging	Lighting_4L4T12	Electric Stock	Existing	3.01 4' 3L T8, EB	38.2%	0.05	26	16.7%	100.0%	16.7%	1.150	3.01	0.19	1.15	\$0.00	\$0.00	A	A
SJD Lodging SJD Lodging	Lighting_4L4T12 Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	3.01 4' 3L T8 Premium, EB 3.01 4' 4L T8, EB	42.4% \$ 22.2% \$		26 26	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%		3.01 3.01	0.21 0.11	1.28 0.67	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD Lodging	Lighting_4L4T12	Electric Stock	Existing	3.01 4' 2L T8 Premium, EB, reflector	62.5% \$	0.36	26	16.7%	100.0%	16.7%	1.881	3.01	0.31	1.88	\$0.02	\$0.02	Ä	Â
SJD Lodging	Lighting_4L4T12	Electric Stock Electric Stock	Existing Existing	3.01 4' 2L T5HO, EB 3.01 4' 4L T8 Premium FB	18.8% S		26 26	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	0.564 0.753	3.01 3.01	0.09 0.13	0.56 0.75	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
SJD Lodging SJD Lodging	Lighting_4L4T12 Lighting_4L4T12	Electric Stock	Existing	3.01 4: 4L 18 Premium, EB 3.01 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%		26 15	20.0%	89.6%	17.9%		3.01		0.75	\$0.03	\$0.03	В	В
SJD Lodging	Lighting_4L4T12	Electric Stock	Existing	3.01 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$	1.92	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	\$0.09	\$0.09	E	E
SJD Lodging SJD Lodging	Lighting_4L4T8 Lighting 4L4T8	Electric Stock Electric Stock	Existing Existing	2.41 Occupancy Sensor, 4-4' Fluorescent Fixtures 2.41 4' 4I T8 Premium FB	30.0% S 3.6% S		15 26	20.0% 100.0%	89.6% 100.0%	17.9% 100.0%	0.723 0.087	2.41 2.41	0.13	0.72	\$0.04 \$0.16	\$0.04 \$0.16	B F	B F
SJD Lodging	Lighting_INC150W	Electric Stock	Existing	3.01 Halogen PAR Flood, 90W	40.0%	0.07	1	10.0%	99.0%	9.9%	1.204	3.01	0.12	1.20	\$0.07	\$0.07	D.	D
SJD Lodging SJD Lodging	Lighting_INC150W Lighting_INC150W	Electric Stock Electric Stock	Existing Existing	3.01 HPS, 50W 3.01 Metal Halide, 50W	56.0% S		9	45.0% 45.0%	92.2% 92.2%	41.5% 41.5%		3.01 3.01		1.69 1.57	\$0.20 \$0.42	\$0.20 \$0.42	F	F
SJD Lodging	Lighting_INC40W	Electric Stock	Existing	3.01 LED Exit Signs	80.0%		20	90.0%	90.0%	81.0%	2.408	3.01	1.95	2.41	\$0.01	\$0.01	A	A
SJD Lodging	Lighting_INC75W	Electric Stock Electric Stock	Existing Existing	3.01 CFL Screw-in, Modular 18W 0.1 Smart Networks	65.3% S		8	70.0% 90.0%	72.5% 40.0%	50.8% 36.0%	1.966 0.005	3.01 0.10	1.00	1.97 0.00	\$0.12 \$0.03	\$0.12 \$0.03	F A	F
SJD Lodging SJD Lodging	Plug_Load Plug_Load	Electric Stock	Existing	0.1 Smart Networks 0.1 ENERGY STAR or Better Office Equipment: Copiers	20.2%		4	100.0%	65.0%	65.0%		0.10		0.00	\$0.03	\$0.03	В	A B
SJD Lodging	Plug_Load	Electric Stock	Existing	0.1 ENERGY STAR or Better Office Equipment: Monitors	10.9%		4	100.0%	71.0%	71.0%		0.09		0.01	\$0.14	\$0.17	F	F
SJD Lodging SJD Lodging	Plug_Load Plug_Load	Electric Stock Electric Stock	Existing Existing	0.1 ENERGY STAR or Better Office Equipment: Computer 0.1 ENERGY STAR or Better Office Equipment: Printers	12.2% \$ 7.6% \$		4	100.0% 100.0%	65.0% 65.0%	65.0% 65.0%	0.012 0.008	0.08 0.07	0.01	0.01 0.01	\$0.26 \$0.45	\$0.33 \$0.61	F	F
SJD Lodging	Space_Heat	Electric Stock	Existing	2.54 Duct Repair and Sealing	2.0%		20	25.0%	50.0%	12.5%	0.051	2.54	0.01	0.05	\$0.01	\$0.01	A	A
SJD Lodging SJD Lodging	Space_Heat Space Heat	Electric Stock Electric Stock	Existing Existing	2.54 Duct Insulation 2.54 Occupancy Sensor for room HVAC units	2.0% S 35.0% S		20 15	25.0% 51.0%	79.1% 100.0%	19.8% 51.0%		2.53 2.52		0.05 0.88	\$0.03 \$0.03	\$0.03 \$0.03	A A	A
SJD Lodging	Space_Heat	Electric Stock	Existing	2.54 Clock / Programmable Thermostat	30.0%	0.15	10	100.0%	59.4%	59.4%	0.762	2.07	0.37	0.62	\$0.03	\$0.04	В	В
SJD Lodging SJD Lodging	Space_Heat Space Heat	Electric Stock Electric Stock	Existing Existing	2.54 Ceiling R-0 to R-19 Insulation 2.54 Ceiling R-19 to R-38 Insulation	7.0% S		20 20	50.0% 50.0%	62.3% 62.3%	31.1% 31.1%	0.178 0.076	1.70 1.67	0.04	0.12 0.05	\$0.06 \$0.15	\$0.09 \$0.22	D F	E
SJD Lodging	Space_Heat	Electric Stock	Existing	2.54 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	0.28	15	50.0%	100.0%	50.0%	0.127	1.65	0.04	0.08	\$0.27	\$0.42	F	F
SJD Lodging	Water_Heat Water Heat	Electric Stock Electric Stock	Existing Existing	2.79 Hot Water (SHW) Pipe Insulation 2.79 Heat Pump Water Heater	5.0% S		15 15	50.0% 75.0%	100.0% 100.0%	50.0% 75.0%	0.140 0.837	2.79 2.72	0.07	0.14	\$0.03 \$0.51	\$0.03 \$0.52	B	В
SJD Lodging SJD Lodging	Water_Heat	Electric Stock	Existing	2.79 Demand controlled circulating systems	5.0%		15	50.0%	100.0%	50.0%	0.037	2.12	0.05	0.62	\$4.81	\$6.36	F	F
SJD Miscellaneous SJD Miscellaneous	Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	2.39 EMS Optimization 2.39 Two-Speed Cooling Tower, 300 Tons	1.0% S		5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.024 0.335	2.39 2.37	0.02 0.15	0.02 0.33	\$0.00 \$0.00	\$0.00 \$0.00	A	A
SJD Miscellaneous	Cooling_Chillers Cooling_Chillers	Electric Stock	Existing	2.39 VSD Cooling Tower, 300 Tons	18.0%		15	50.0%	90.0%	45.0% 45.0%		2.37		0.33	\$0.00	\$0.00	A A	A
SJD Miscellaneous	Cooling_Chillers	Electric Stock	Existing	2.39 High Efficiency Windows, Low-e; U=0.35	2.5% \$		30	75.0%	76.3%	57.2%		2.04	0.03	0.05	\$0.03	\$0.04	A	В
SJD Miscellaneous SJD Miscellaneous	Cooling_Chillers Cooling Chillers	Electric Stock Electric Stock	Existing Existing	2.39 Insulation of Pipes 2.39 Installation of Energy Management Systems	1.0% S		20 10	50.0% 50.0%	50.0% 100.0%	25.0% 50.0%	0.024 0.239	2.01 2.01	0.01 0.10	0.02 0.20	\$0.04 \$0.08	\$0.05 \$0.09	B E	C E
SJD Miscellaneous	Cooling_Chillers	Electric Stock	Existing	2.39 Primary/Secondary De-coupled Chilled Water System	12.0% \$	0.30	15	50.0%	80.0%	40.0%	0.287	1.91		0.23	\$0.13	\$0.16	F	F
SJD Miscellaneous SJD Miscellaneous	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.39 Chiller Tune-Up / Diagnostics	10.0% S		10 5	50.0% 100.0%	100.0% 90.0%	50.0% 90.0%	0.239 0.120	1.82 1.73		0.18	\$0.13 \$0.17	\$0.17 \$0.24	F	F
SJD Miscellaneous	Cooling_Chillers	Electric Stock	Existing	2.39 Optimize Chilled Water and Condenser Water Settings	5.0%	0.13	10	33.0%	50.0%	16.5%	0.120	1.65	0.01	0.08	\$0.18	\$0.25	F	F
SJD Miscellaneous SJD Miscellaneous	Cooling_Chillers Cooling_Chillers	Electric Stock Electric Stock	Existing Existing	2.39 Installation of Chiller Economizers (water side) 2.39 Ceiling R-0 to R-19 Insulation	10.0% S		20 20	50.0% 50.0%	76.3% 40.2%	38.1% 20.1%	0.239 0.050	1.63 1.57	0.06 0.01	0.16 0.03	\$0.26 \$0.47	\$0.38 \$0.71	F	F
SJD Miscellaneous	Cooling_Chillers	Electric Stock	Existing	2.39 Ceiling R-19 to R-38 Insulation	0.9% \$	0.22	20	50.0%	40.2%	20.1%	0.022	1.57	0.00	0.01	\$1.09	\$1.66	F	F
SJD Miscellaneous SJD Miscellaneous	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	2.39 Duct Insulation 2.39 Clock / Programmable Thermostat	3.0% S		20 10	25.0% 100.0%	25.0% 35.9%	6.3% 35.9%	0.072 0.239	2.39 2.39	0.00	0.07 0.24	\$0.02 \$0.03	\$0.02 \$0.03	A A	A
SJD Miscellaneous	Cooling_DX	Electric Stock	Existing	2.39 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.05	30	75.0%	76.3%	57.2%	0.120	2.30	0.07	0.11	\$0.04	\$0.04	В	В
SJD Miscellaneous SJD Miscellaneous	Cooling_DX Cooling_DX	Electric Stock Electric Stock	Existing Existing	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.39 Duct Repair and Sealing	10.0% \$		10 20	50.0% 25.0%	100.0% 50.0%	50.0% 12.5%		2.23 2.12	0.11 0.00	0.22 0.02	\$0.13 \$0.18	\$0.14 \$0.20	F	F
SJD Miscellaneous	Cooling_DX Cooling_DX	Electric Stock	Existing	2.39 Installation of Air Side Economizers	15.0%		10	100.0%	79.7%	79.7%	0.359	2.12	0.25	0.02	\$0.16	\$0.29	F	F
SJD Miscellaneous	Cooling_DX	Electric Stock	Existing	2.39 DX Tune-Up / Diagnostics 2.39 Ceiling R-0 to R-19 Insulation	10.0% 5		3 20	100.0% 50.0%	90.0%	90.0% 20.1%	0.239 0.050	1.87 1.70	0.17	0.19 0.04	\$0.28 \$0.47	\$0.35	F	F
SJD Miscellaneous SJD Miscellaneous		Electric Stock Electric Stock	Existing Existing	2.39 Ceiling R-0 to R-19 insulation	0.9% \$		20	50.0%	40.2% 40.2%	20.1%	0.030	1.69	0.01	0.04	\$1.09	\$0.66 \$1.54	F	F
SJD Miscellaneous	Cooling_HeatPump	Electric Stock	Existing	2.39 Duct Insulation	3.0%		20	25.0%	25.0%	6.3%	0.072	2.39	0.00	0.07	\$0.02	\$0.02	Α	Α
SJD Miscellaneous SJD Miscellaneous		Electric Stock	Existing Existing	2.39 Clock / Programmable Thermostat 2.39 High Efficiency Windows, Low-e; U=0.35	10.0% S		10 30	100.0% 75.0%	35.9% 76.3%	35.9% 57.2%	0.239 0.120	2.39 2.30	0.09 0.07	0.24 0.11	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
SJD Miscellaneous	Cooling_HeatPump	Electric Stock	Existing	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.19	10	50.0%	100.0%	50.0%	0.239	2.23	0.11	0.22	\$0.13	\$0.14	F	F
SJD Miscellaneous SJD Miscellaneous	Cooling_HeatPump Cooling_HeatPump		Existing Existing	2.39 Duct Repair and Sealing 2.39 Installation of Air Side Economizers	1.0% S 15.0% S		20 10	25.0% 100.0%	50.0% 79.7%	12.5% 79.7%		2.12 2.12		0.02 0.32	\$0.18 \$0.26	\$0.20 \$0.29	F	F F
SJD Miscellaneous	Cooling_HeatPump	Electric Stock	Existing	2.39 DX Tune-Up / Diagnostics	10.0% \$	0.16	3	100.0%	90.0%	90.0%	0.239	1.87	0.17	0.19	\$0.28	\$0.35	F	F
SJD Miscellaneous	Cooling_HeatPump	Electric Stock	Existing Existing	2.39 Ceiling R-0 to R-19 Insulation	2.1% \$		20	50.0% 50.0%	40.2%	20.1% 20.1%	0.050 0.022	1.70 1.69	0.01	0.04 0.02	\$0.47 \$1.09	\$0.66 \$1.54	F	F
SJD Miscellaneous SJD Miscellaneous		Electric Stock Electric Stock	Existing	2.39 Ceiling R-19 to R-38 Insulation 2.12 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% S 30.0% S		20 21	20.0%	40.2% 95.0%	20.1% 19.0%		2.12		0.02	\$1.09	\$1.54 \$0.07	D	D
SJD Miscellaneous	Lighting_2L4T12	Electric Stock	Existing	2.12 4' 1L T8 Premium, EB, reflector	61.1%	1.49	36	33.3%	100.0%	33.3%	1.296	2.12	0.43	1.30	\$0.10	\$0.10	F	F
SJD Miscellaneous SJD Miscellaneous	Lighting_2L4T12 Lighting_2L4T12	Electric Stock Electric Stock	Existing Existing	2.12 4' 2L T8 Premium, EB 2.12 4' 1L T5HO, EB	25.0% S		36 36	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	0.530 0.295	2.12 2.12		0.53 0.29	\$0.12 \$0.16	\$0.12 \$0.16	F F	F
SJD Miscellaneous	Lighting_2L4T12	Electric Stock	Existing	2.12 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	3.62	26	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	\$0.22	\$0.22	Ē	F
SJD Miscellaneous SJD Miscellaneous	Lighting_2L4T8 Lighting_2L4T8	Electric Stock Electric Stock	Existing Existing	1.7 Occupancy Sensor, 8-4' Fluorescent Fixtures 1.7 4' 2L T8 Premium, EB	30.0% \$ 8.5% \$		21 36	20.0% 100.0%	95.0% 100.0%	19.0% 100.0%		1.70 1.70		0.51 0.14	\$0.09 \$0.15	\$0.09 \$0.15	E F	E F
SJD Miscellaneous	Lighting_2L8T12	Electric Stock	Existing	2.12 8' 2L T8, EB	52.8% \$	0.35	36	50.0%	100.0%	50.0%	1.119	2.12	0.56	1.12	\$0.03	\$0.03	Α	A
SJD Miscellaneous	Lighting_2L8T12	Electric Stock	Existing	2.12 8' 1L T12, 60W, EB, reflector	55.3% \$	0.77	36	25.0%	100.0%	25.0%	1.172	2.12	0.29	1.17	\$0.06	\$0.06	С	С

Are	a Buildin	д Туре	End-Use	Fuel	Efficienc	cy Vintage	EUI Measure Names	Energy Savings	Full Per Uni Cost	t Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	Stacked Cost Group
	Miscella		Lighting_2L8T12		Stock	Existing	2.12 8' 2L T12, 60W, EB	10.6%		36		46.2%	11.5%	0.224	2.12	0.03	0.22	\$0.07	\$0.07	D	D
	MiscellarMiscellar		Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	2.12 Occupancy Sensor, 4-8' Fluorescent Fixtures 2.12 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% 75.0%				95.0% 100.0%	19.0% 30.0%	0.636 1.590	2.12 2.12	0.12	0.64 1.59	\$0.09 \$0.24	\$0.09 \$0.24	E F	E F
SJE) Miscellar	neous	Lighting_3L4T12		Stock	Existing	2.12 4' 1L T5HO, EB	46.1%				100.0%	75.0%	0.977	2.12	0.73		\$0.00	\$0.00	A	A
SJE			Lighting_3L4T12 Lighting_3L4T12	Electric Electric	Stock	Existing Existing	2.12 4' 3L T8, EB 2.12 4' 2L T8 Premium, EB, reflector	22.6% 53.0%				100.0% 100.0%	75.0% 40.0%	1.125	2.12 2.12	0.36 0.45	0.48 1.12	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
			Lighting_3L4T12 Lighting_3L4T8	Electric	Stock	Existing Existing	2.12 4' 3L T8 Premium, EB 1.7 4' 3L T8 Premium, EB	22.6% 6.7%				100.0% 100.0%	75.0% 100.0%	0.479 0.114	2.12 1.70	0.36 0.11	0.48 0.11	\$0.02 \$0.31	\$0.02 \$0.31	A	A
) Miscellar		Lighting_4L4T12	Electric		Existing	2.12 4' 3L T8, EB	38.2%		36	16.7%	100.0%	16.7%	0.114	2.12	0.11	0.11	\$0.01	\$0.01	Ā	Ā
SJE			Lighting_4L4T12 Lighting_4L4T12	Electric	Stock Stock	Existing Existing	2.12 4' 3L T8 Premium, EB 2.12 4' 4L T8. EB	42.4% 22.2%				100.0% 100.0%	16.7% 16.7%	0.898 0.471	2.12 2.12	0.15	0.90 0.47	\$0.03 \$0.04	\$0.03 \$0.04	A B	A
SJE	Miscella	neous	Lighting_4L4T12	Electric	Stock	Existing	2.12 4' 2L T8 Premium, EB, reflector	62.5%	0.70	36	16.7%	100.0%	16.7%	1.325	2.12	0.22	1.33	\$0.05	\$0.05	С	Č
	MiscellarMiscellar		Lighting_4L4T12 Lighting_4L4T12	Electric	Stock Stock	Existing Existing	2.12 4' 2L T5HO, EB 2.12 4' 4L T8 Premium, EB	18.8% 25.0%				100.0% 100.0%	16.7% 16.7%	0.398	2.12 2.12	0.07	0.40 0.53	\$0.06 \$0.08	\$0.06 \$0.08	C E	C F
SJE	Miscella	neous	Lighting_4L4T12	Electric	Stock	Existing	2.12 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	\$ 0.49	21	20.0%	95.0%	19.0%	0.636	2.12	0.12	0.64	\$0.08	\$0.08	E	E
SJE			Lighting_4L4T12 Lighting_4L4T8	Electric	Stock Stock	Existing Existing	2.12 Continuous Dimming, 5-4' Fluorescent Fixtures 1.7 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% 30.0%				100.0% 95.0%	30.0% 19.0%	1.590 0.510	2.12 1.70	0.48 0.10	1.59 0.51	\$0.22 \$0.10	\$0.22 \$0.10	F F	F
SJE) Miscellar	neous	Lighting_4L4T8	Electric		Existing	1.7 4' 4L T8 Premium, EB	3.6%				100.0%	100.0%	0.061	1.70	0.06	0.06	\$0.40	\$0.40	F	F
	MiscellarMiscellar		Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	2.12 Halogen PAR Flood, 90W 2.12 HPS, 50W	40.0% 56.0%				98.7% 98.0%	9.9% 44.1%	0.848 1.187	2.12 2.12	0.08 0.52	0.85 1.19	\$0.27 \$0.62	\$0.27 \$0.62	F	F
SJE	Miscellar Miscellar		Lighting_INC150W	Electric	Stock	Existing Existing	2.12 Metal Halide, 50W 2.12 LED Exit Signs	52.0% 80.0%			45.0%	98.0% 90.0%	44.1% 81.0%	1.102 1.696	2.12 2.12	0.49 1.37	1.10 1.70	\$1.31 \$0.00	\$1.31 \$0.00	F A	F
			Lighting_INC40W Lighting_INC75W	Electric		Existing	2.12 CFL Screw-in, Modular 18W	65.3%				95.3%	85.8%	1.384	2.12	1.19	1.38	\$0.28	\$0.00	F	F
	Miscellar Miscellar		Plug_Load Plug_Load	Electric		Existing Existing	Smart Networks ENERGY STAR or Better Office Equipment: Copiers	6.9% 11.4%				40.0% 65.0%	36.0% 65.0%	0.069	1.00 0.98	0.02	0.07 0.11	\$0.03 \$0.12	\$0.03 \$0.13	A	A
SJE	Miscella	neous	Plug_Load	Electric	Stock	Existing	1 ENERGY STAR or Better Office Equipment: Monitors	16.5%	0.07	4	100.0%	71.0%	71.0%	0.165	0.90	0.11	0.15	\$0.14	\$0.16	F	F
) Miscellar) Miscellar		Plug_Load Plug_Load	Electric Electric		Existing Existing	ENERGY STAR or Better Office Equipment: Computer ENERGY STAR or Better Office Equipment: Printers	18.6% 9.2%		i 4 4		65.0% 65.0%	65.0% 65.0%	0.186 0.092	0.80 0.70	0.10	0.15 0.06	\$0.26 \$0.38	\$0.32 \$0.54	F	F
SJE) Miscellar	neous	Space_Heat	Electric	Stock	Existing	2.76 Duct Repair and Sealing	2.0%	\$ 0.01	20	25.0%	50.0%	12.5%	0.055	2.76	0.01	0.06	\$0.01	\$0.01	A	A
SJE SJE	MiscellarMiscellar		Space_Heat Space_Heat	Electric Electric	Stock Stock	Existing Existing	2.76 Duct Insulation 2.76 Clock / Programmable Thermostat	2.0% 30.0%				83.4% 41.8%	20.9% 41.8%	0.055 0.828	2.75 2.74	0.01 0.34	0.06 0.82	\$0.02 \$0.03	\$0.02 \$0.03	A A	A A
SJE	Miscella	neous	Space_Heat	Electric	Stock	Existing	2.76 Ceiling R-0 to R-19 Insulation	7.0%	0.22	20	50.0%	13.4%	6.7%	0.193	2.40	0.01	0.17	\$0.12	\$0.14	F	F
	MiscellarMiscellar		Space_Heat Space_Heat	Electric Electric	Stock	Existing Existing	2.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.76 Ceiling R-19 to R-38 Insulation	5.0% 3.0%				100.0% 13.4%	50.0% 6.7%	0.138 0.083	2.39 2.33	0.06	0.12 0.07	\$0.25 \$0.28	\$0.29 \$0.34	F	F
SJE	Miscella		Water_Heat Water Heat	Electric	Stock Stock	Existing	1.65 Hot Water (SHW) Pipe Insulation	5.0% 30.0%				100.0% 100.0%	50.0% 75.0%	0.083 0.495	1.65 1.61	0.04 0.36	0.08 0.48	\$0.01 \$0.84	\$0.01 \$0.87	A	A
	MiscellarMiscellar		Water_Heat	Electric		Existing Existing	1.65 Heat Pump Water Heater 1.65 Demand controlled circulating systems	5.0%				100.0%	50.0%	0.495	1.25	0.03	0.46	\$0.64 \$7.94	\$10.51	F	F
	Restaura Restaura		Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.49 EMS Optimization 4.49 Two-Speed Cooling Tower, 300 Tons	1.0% 14.0%		5 15		75.0% 90.0%	75.0% 45.0%	0.045 0.629	4.49 4.46	0.03 0.28	0.04 0.62	\$0.00 \$0.00	\$0.00 \$0.00	A	A
SJE	Restaura	ant	Cooling_Chillers	Electric	Stock	Existing	4.49 VSD Cooling Tower, 300 Tons	18.0%	\$ 0.05	15	50.0%	90.0%	45.0%	0.808	4.18	0.34	0.75	\$0.01	\$0.01	Ä	Ä
SJE	Restaura Restaura		Cooling_Chillers Cooling_Chillers	Electric Electric	Stock Stock	Existing Existing	4.49 High Efficiency Windows, Low-e; U=0.35 4.49 Installation of Energy Management Systems	5.4% 10.0%				100.0% 100.0%	50.0% 50.0%	0.242	3.84 3.73	0.10 0.19	0.21 0.37	\$0.01 \$0.04	\$0.01 \$0.05	A B	A C
SJE	Restaura	ant	Cooling_Chillers	Electric	Stock	Existing	4.49 Insulation of Pipes	1.0%	0.02	20	50.0%	50.0%	25.0%	0.045	3.55	0.01	0.04	\$0.06	\$0.07	c	D
SJE			Cooling_Chillers Cooling_Chillers	Electric	Stock Stock	Existing Existing	4.49 Primary/Secondary De-coupled Chilled Water System 4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%				80.0% 100.0%	40.0% 50.0%	0.539 0.449	3.54 3.37	0.17 0.17	0.42 0.34	\$0.07 \$0.07	\$0.08 \$0.09	D D	E E
SJE			Cooling_Chillers		Stock	Existing	4.49 Chiller Tune-Up / Diagnostics	5.0% 5.0%		5	100.0%	90.0%	90.0%	0.225	3.20	0.14	0.16 0.15	\$0.09	\$0.12 \$0.13	E	F
	Restaura Restaura		Cooling_Chillers Cooling_Chillers	Electric		Existing Existing	4.49 Optimize Chilled Water and Condenser Water Settings 4.49 Installation of Chiller Economizers (water side)	10.0%				50.0% 100.0%	16.5% 50.0%	0.225 0.449	3.06 3.03	0.03		\$0.09 \$0.14	\$0.13	F	F
	Restaura	ant	Cooling_Chillers	Electric		Existing Existing	4.49 Ceiling R-0 to R-19 Insulation 4.49 Ceiling R-19 to R-38 Insulation	2.1%				100.0% 100.0%	50.0% 50.0%	0.094	2.88 2.85	0.03	0.06 0.03	\$0.25 \$0.59	\$0.39 \$0.93	F	F
SJE	Restaura	ant	Cooling_Chillers Cooling_DX	Electric	Stock	Existing	4.49 Duct Insulation	3.0%	0.01	20	25.0%	25.0%	6.3%	0.135	4.49	0.01	0.13	\$0.01	\$0.01	A	A
	Restaura Restaura		Cooling_DX Cooling_DX	Electric		Existing Existing	4.49 Clock / Programmable Thermostat 4.49 High Efficiency Windows, Low-e: U=0.35	10.0% 5.0%				80.4% 100.0%	80.4% 50.0%	0.449 0.225	4.48 4.12	0.36 0.10	0.45 0.21	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
SJE	Restaura	ant	Cooling_DX	Electric	Stock	Existing	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.18	10	50.0%	100.0%	50.0%	0.449	4.02	0.20	0.40	\$0.07	\$0.07	D	D
SJE	RestauraRestaura		Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.49 Duct Repair and Sealing 4.49 Installation of Air Side Economizers	1.0% 15.0%				50.0% 55.4%	12.5% 55.4%	0.045 0.674	3.82 3.81	0.00	0.04 0.57	\$0.09 \$0.14	\$0.11 \$0.16	E F	F F
	Restaura		Cooling_DX	Electric		Existing Existing	4.49 DX Tune-Up / Diagnostics 4.49 Ceiling R-0 to R-19 Insulation	10.0% 2.1%				90.0% 100.0%	90.0% 50.0%	0.449 0.094	3.50 3.18	0.31	0.35 0.07	\$0.14 \$0.25	\$0.18 \$0.36	F	F
	Restaura		Cooling_DX Cooling_DX	Electric		Existing	4.49 Ceiling R-19 to R-38 Insulation	0.9%				100.0%	50.0%	0.094	3.15	0.03	0.07	\$0.25	\$0.36	F	F
SJE	Restaura Restaura		Cooling_HeatPump Cooling_HeatPump	Electric		Existing Existing	4.49 Duct Insulation 4.49 Clock / Programmable Thermostat	3.0% 10.0%				25.0% 80.4%	6.3% 80.4%	0.135 0.449	4.49 4.48	0.01	0.13 0.45	\$0.01 \$0.01	\$0.01 \$0.01	A A	A A
SJE	Restaura	ant	Cooling_HeatPump	Electric	Stock	Existing	4.49 High Efficiency Windows, Low-e; U=0.35	5.0%	0.05	30	50.0%	100.0%	50.0%	0.225	4.12	0.10	0.21	\$0.02	\$0.02	Α	Α
	Restaura Restaura		Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.49 Duct Repair and Sealing	10.0% 1.0%				100.0% 50.0%	50.0% 25.0%	0.449 0.045	4.02 3.82	0.20 0.01	0.40 0.04	\$0.07 \$0.09	\$0.07 \$0.11	D E	D F
SJE	Restaura	ant	Cooling_HeatPump	Electric	Stock	Existing	4.49 Installation of Air Side Economizers	15.0%	\$ 0.59	10	100.0%	55.4%	55.4%	0.674	3.81	0.32	0.57	\$0.14	\$0.16	F	F
	Restaura	ant	Cooling_HeatPump Cooling_HeatPump	Electric Electric	Stock	Existing Existing	4.49 DX Tune-Up / Diagnostics 4.49 Ceiling R-0 to R-19 Insulation	10.0% 2.1%	0.22		50.0%	90.0% 100.0%	90.0% 50.0%	0.449 0.094	3.49 3.18	0.31 0.03	0.35 0.07	\$0.14 \$0.25	\$0.18 \$0.36	F	F
	Restaura Restaura		Cooling_HeatPump Lighting_2L4T12	Electric Electric		Existing Existing	4.49 Ceiling R-19 to R-38 Insulation 8.74 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% 30.0%				100.0% 95.7%	50.0% 9.6%	0.040 2.622	3.14 8.74	0.01 0.25	0.03 2.62	\$0.59 \$0.02	\$0.84 \$0.02	F A	F A
SJE	Restaura	ant	Lighting_2L4T12	Electric	Stock	Existing	8.74 4' 1L T8 Premium, EB, reflector	61.1%	1.60	22	33.3%	100.0%	33.3%	5.341	8.74	1.78	5.34	\$0.03	\$0.03	В	В
SJE	Restaura Restaura		Lighting_2L4T12 Lighting_2L4T12	Electric	Stock Stock	Existing Existing	8.74 4' 2L T8 Premium, EB 8.74 4' 1L T5HO, EB	25.0% 13.9%				100.0% 100.0%	33.3% 33.3%	2.185 1.215	8.74 8.74	0.73 0.40	2.19 1.21	\$0.04 \$0.05	\$0.04 \$0.05	B C	B C
	Restaura	ant	Lighting_2L4T12	Electric	Stock	Existing	8.74 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	3.89	16	12.0%	100.0%	12.0%	6.555	8.74	0.79	6.56	\$0.07	\$0.07	D	D
	Restaura Restaura		Lighting_2L4T8 Lighting_2L4T8	Electric Electric		Existing Existing	6.99 Occupancy Sensor, 8-4' Fluorescent Fixtures 6.99 4' 2L T8 Premium, EB	30.0% 8.5%				95.7% 100.0%	9.6% 100.0%	2.097 0.594	6.99 6.99	0.20 0.59	2.10 0.59	\$0.03 \$0.05	\$0.03 \$0.05	A C	A C
SJE		ant	Lighting_2L8T12	Electric		Existing	8.74 8' 2L T8, EB 8.74 8' 1L T12, 60W, EB, reflector	52.8% 55.3%		22	50.0%	100.0%	50.0%	4.615 4.833	8.74 8.74	2.31	4.61 4.83	\$0.01 \$0.02	\$0.01 \$0.02	A	A
	Restaura Restaura		Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	8.74 8' 2L T12, 60W, EB, Tellector	10.6%				100.0% 68.1%	25.0% 17.0%	0.924	8.74	1.21 0.16	0.92	\$0.02	\$0.02	A A	A
SJE	Restaura Restaura	ant	Lighting_2L8T12 Lighting_2L8T12	Electric		Existing Existing	8.74 Occupancy Sensor, 4-8' Fluorescent Fixtures 8.74 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% 75.0%		13		95.7% 100.0%	9.6% 12.0%	2.622 6.555	8.74 8.74	0.25	2.62 6.56	\$0.03 \$0.08	\$0.03 \$0.08	A E	A F
SJE	Restaura	ant	Lighting_3L4T12	Electric	Stock	Existing	8.74 4' 1L T5HO, EB	46.1%	\$ 0.04	22	75.0%	100.0%	75.0%	4.028	8.74	3.02	4.03	\$0.00	\$0.00	Α	Ā
	Restaura Restaura		Lighting_3L4T12 Lighting_3L4T12	Electric		Existing Existing	8.74 4' 3L T8, EB 8.74 4' 2L T8 Premium, EB, reflector	22.6% 53.0%				100.0% 100.0%	75.0% 40.0%	1.976 4.636	8.74 8.74	1.48 1.85	1.98 4.64	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
SJE	Restaura	ant	Lighting_3L4T12	Electric	Stock	Existing	8.74 4' 3L T8 Premium, EB	22.6%	0.10	22	75.0%	100.0%	75.0%	1.976	8.74	1.48	1.98	\$0.01	\$0.01	Α	Α
SJE	Restaura Restaura		Lighting_3L4T8 Lighting_4L4T12	Electric Electric		Existing Existing	6.99 4' 3L T8 Premium, EB 8.74 4' 3L T8, EB	6.7% 38.2%				100.0% 100.0%	100.0% 16.7%	0.468 3.339	6.99 8.74	0.47 0.56	0.47 3.34	\$0.09 \$0.00	\$0.09 \$0.00	E A	E A
SJE	Restaura	ant	Lighting_4L4T12	Electric	Stock	Existing	8.74 4' 3L T8 Premium, EB	42.4%	0.32	. 22	16.7%	100.0%	16.7%	3.702	8.74	0.62	3.70	\$0.01	\$0.01	Α	A
	Restaura Restaura	ant ant	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	8.74 4' 4L T8, EB 8.74 4' 2L T8 Premium, EB, reflector	22.2% 62.5%				100.0% 100.0%	16.7% 16.7%	1.942 5.463	8.74 8.74	0.32 0.91	1.94 5.46	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJE	Restaura	ant	Lighting_4L4T12 Lighting_4L4T12	Electric	Stock	Existing	8.74 4' 2L T5HO, EB 8.74 4' 4L T8 Premium, EB	18.8% 25.0%	\$ 0.29	22	16.7%	100.0% 100.0%	16.7% 16.7%	1.639 2.185	8.74 8.74	0.27 0.36	1.64 2.19	\$0.02 \$0.02	\$0.02 \$0.02	A A	A A
SJE	Restaura Restaura	ant	Lighting_4L4T12	Electric		Existing Existing	8.74 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	0.53	13	10.0%	95.7%	9.6%	2.622	8.74	0.25	2.62	\$0.03	\$0.03	Α	Α
	Restaura Restaura		Lighting_4L4T12 Lighting_4L4T8	Electric		Existing Existing	8.74 Continuous Dimming, 5-4' Fluorescent Fixtures 6.99 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% 30.0%				100.0% 95.7%	12.0% 9.6%	6.555 2.097	8.74 6.99	0.79 0.20		\$0.07 \$0.03	\$0.07 \$0.03	D B	D B
SJE	Restaura	ant	Lighting_4L4T8	Electric	Stock	Existing	6.99 4' 4L T8 Premium, EB	3.6%	\$ 0.31	22	100.0%	100.0%	100.0%	0.252	6.99	0.25	0.25	\$0.13	\$0.13	F	F
SJE	Restaura	ant	Lighting_INC150W	Electric	Stock	Existing	8.74 Halogen PAR Flood, 90W	40.0%	0.19	1	10.0%	100.0%	10.0%	3.496	8.74	0.35	3.50	\$0.06	\$0.06	D	D

										Measure	Stand			Stacked	Stand-alone	Stacked		Stacked
Area Building	Type End-Use	Fuel Effic	iency Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Applicability (Feas Factor *	Alone Savings	Adjusted Base	Stacked Savings	Savings Full	Marginal Energy Cost	Energy	Stand Alone Cost Group	Cost
SJD Restaura	nt Lighting_INC150W	Electric Stoc	k Existing	8.74 HPS, 50W	56.0% \$	5.10	8	45.0%	90.4%	Incomp Factor) 40.7%	4.894	8.74	1.99	4.89	\$0.19	Cost \$0.19	F	F
SJD Restaura	nt Lighting_INC150W	Electric Stoc	k Existing	8.74 Metal Halide, 50W	52.0% \$	9.99	8	45.0%	90.4%	40.7%	4.545	8.74	1.85	4.54	\$0.41	\$0.41	F	F
SJD Restaura SJD Restaura		Electric Stoc		8.74 LED Exit Signs 8.74 CFL Screw-in, Modular 18W	80.0% \$ 65.3% \$		20 6		90.0% 89.1%	81.0% 44.5%	6.992 5.707	8.74 8.74	5.66 2.54	6.99 5.71	\$0.00 \$0.10	\$0.00 \$0.10	A E	A E
SJD Restaura	nt Plug_Load	Electric Stoc	k Existing	0.23 Smart Networks	6.8% \$	0.00	4	90.0%	40.0%	36.0%	0.016	0.23	0.01	0.02	\$0.03	\$0.03	A	A
SJD Restaura SJD Restaura		Electric Stoc		0.23 ENERGY STAR or Better Office Equipment: Monitors 0.23 ENERGY STAR or Better Office Equipment: Copiers	16.3% \$ 7.8% \$		4		71.0% 65.0%	71.0% 65.0%	0.038 0.018	0.22 0.20	0.03	0.04 0.02	\$0.13 \$0.21	\$0.14 \$0.24	F F	F F
SJD Restaura	nt Plug_Load	Electric Stoc		0.23 ENERGY STAR or Better Office Equipment: Computer	18.4% \$	0.03	4	100.0%	65.0%	65.0%	0.042	0.19	0.02	0.03	\$0.24	\$0.29	F	F
SJD Restaura SJD Restaura		Electric Stoc		0.23 ENERGY STAR or Better Office Equipment: Printers 7.67 Night Covers for Display Cases	15.0% \$ 5.8% \$		4 5		65.0% 95.0%	65.0% 47.5%	0.034 0.445	0.17 7.67	0.02 0.21	0.02 0.44	\$0.34 \$0.01	\$0.47 \$0.01	F A	F A
SJD Restaura	nt Refrigeration	Electric Stoc	k Existing	7.67 Anti-Sweat (Humidistat) Controls	5.0% \$	0.02	12	100.0%	48.0%	48.0%	0.383	7.46	0.18	0.37	\$0.01	\$0.01	A	A
SJD Restaura SJD Restaura		Electric Stoc		7.67 Demand Control Defrost - Electric 7.67 Installation of Floating Condenser Head Pressure Controls	7.8% \$ 6.8% \$	0.04 0.12	10 14		48.0% 44.4%	48.0% 44.4%	0.595 0.524	7.28 7.01	0.27 0.21	0.57 0.48	\$0.01 \$0.03	\$0.01 \$0.03	A B	A B
SJD Restaura	nt Refrigeration	Electric Stoc	k Existing	7.67 Strip Curtains for Walk-Ins	4.0% \$	0.05	4	100.0%	30.0%	30.0%	0.309	6.80	0.08	0.27	\$0.05	\$0.06	С	c
SJD Restaura SJD Restaura		Electric Stoc Electric Stoc		7.67 Demand Control Defrost - Hot Gas 7.67 Refrigeration Commissioning	2.5% \$ 5.0% \$		10 3		69.6% 50.0%	69.6% 50.0%	0.192 0.384	6.71 6.60	0.12 0.16	0.17 0.33	\$0.05 \$0.07	\$0.06 \$0.08	C D	D F
SJD Restaura	nt Refrigeration	Electric Stoc	k Existing	7.67 Compressor VSD retrofit	6.2% \$	0.41	10	50.0%	95.0%	47.5%	0.476	6.43	0.19	0.40	\$0.14	\$0.16	F	F
SJD Restaura SJD Restaura		Electric Stoc		7.67 High Efficiency Case Fans 7.67 Reduced Speed or Cycling of Evaporator Fans	12.0% \$ 0.6% \$	1.16 0.09	16 5		95.0% 80.0%	95.0% 80.0%	0.919 0.042	6.24 5.53	0.71 0.02	0.75 0.03	\$0.15 \$0.58	\$0.18 \$0.80	F F	F
SJD Restaura	nt Space_Heat	Electric Stoc	k Existing	3.76 Duct Repair and Sealing	2.0% \$	0.01	20	25.0%	50.0%	12.5%	0.075	3.76	0.01	0.08	\$0.02	\$0.02	Α	A
SJD Restaura SJD Restaura		Electric Stoc		3.76 Clock / Programmable Thermostat 3.76 Duct Insulation	30.0% \$ 2.0% \$		10 20		46.2% 56.8%	46.2% 14.2%	1.128 0.075	3.75 3.23	0.52 0.01	1.13 0.06	\$0.02 \$0.05	\$0.02 \$0.05	A C	A C
SJD Restaura	nt Space_Heat	Electric Stoc	k Existing	3.76 Ceiling R-0 to R-19 Insulation	7.0% \$	0.22	20	50.0%	67.0%	33.5%	0.263	3.22	0.08	0.23	\$0.09	\$0.11	E	F
SJD Restaura SJD Restaura		Electric Stoc		3.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.76 Ceiling R-19 to R-38 Insulation	5.0% \$ 3.0% \$		15 20		100.0% 67.0%	50.0% 33.5%	0.188 0.113	3.15 3.07	0.08	0.16 0.09	\$0.18 \$0.21	\$0.22 \$0.26	F F	F
SJD Restaura	nt Water_Heat	Electric Stoc	k Existing	9.19 Hot Water (SHW) Pipe Insulation	5.0% \$	0.02	15	50.0%	100.0%	50.0%	0.460	9.19	0.23	0.46	\$0.01	\$0.01	A	A
SJD Restaura SJD Restaura		Electric Stoc Electric Stoc		9.19 Heat Pump Water Heater 9.19 Demand controlled circulating systems	30.0% \$ 5.0% \$	1.80 2.83	15 15		100.0% 100.0%	75.0% 50.0%	2.757 0.460	8.96 6.94	2.02 0.17	2.69 0.35	\$0.08 \$0.76	\$0.08 \$1.00	E F	E F
SJD Retail	Cooling_Chillers	Electric Stoc	k Existing	3.14 EMS Optimization	1.0% \$	-	5	100.0%	75.0%	75.0%	0.031	3.14	0.02	0.03	\$0.00	\$0.00	Ä	A
SJD Retail SJD Retail	Cooling_Chillers Cooling_Chillers	Electric Stoc Electric Stoc		3.14 Two-Speed Cooling Tower, 300 Tons 3.14 High Efficiency Windows, Low-e; U=0.35	14.0% \$ 10.3% \$		15 30		90.0% 100.0%	45.0% 75.0%	0.440 0.324	3.12 2.92	0.20 0.23	0.44 0.30	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
SJD Retail	Cooling_Chillers	Electric Stoc	k Existing	3.14 VSD Cooling Tower, 300 Tons	18.0% \$	0.06	15	50.0%	90.0%	45.0%	0.565	2.69	0.22	0.48	\$0.01	\$0.02	A	A
SJD Retail SJD Retail	Cooling_Chillers Cooling Chillers	Electric Stoc		3.14 Installation of Energy Management Systems 3.14 Insulation of Pipes	10.0% \$ 1.0% \$	0.15 0.03	10 20		100.0% 50.0%	50.0% 25.0%	0.314 0.031	2.48 2.35	0.12	0.25 0.02	\$0.08 \$0.09	\$0.10 \$0.12	E E	E F
SJD Retail	Cooling_Chillers	Electric Stoc	k Existing	3.14 Primary/Secondary De-coupled Chilled Water System	12.0% \$	0.38	15	50.0%	80.0%	40.0%	0.377	2.35	0.11	0.28	\$0.12	\$0.16	F	F
SJD Retail SJD Retail	Cooling_Chillers Cooling_Chillers	Electric Stoc		3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.14 Optimize Chilled Water and Condenser Water Settings	10.0% \$ 5.0% \$		10 10		100.0% 50.0%	50.0% 16.5%	0.314 0.157	2.23 2.12	0.11 0.02	0.22 0.11	\$0.12 \$0.17	\$0.17 \$0.25	F F	F
SJD Retail	Cooling_Chillers	Electric Stoc	k Existing	3.14 Installation of Chiller Economizers (water side)	10.0% \$	0.59	20	50.0%	100.0%	50.0%	0.314	2.10	0.11	0.21	\$0.20	\$0.30	Ē	F
SJD Retail SJD Retail	Cooling_Chillers Cooling_Chillers	Electric Stoc		3.14 Ceiling R-0 to R-19 Insulation 3.14 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$	0.24 0.24	20 20		100.0% 100.0%	50.0% 50.0%	0.066 0.028	2.00 1.98	0.02	0.04 0.02	\$0.38 \$0.89	\$0.60 \$1.41	F F	F
SJD Retail	Cooling_Chillers	Electric Stoc	k Existing	3.14 Chiller Tune-Up / Diagnostics	0.9% \$	0.09	5	100.0%	90.0%	90.0%	0.028	1.97	0.02	0.02	\$0.90	\$1.43	F	F
SJD Retail SJD Retail	Cooling_DX Cooling_DX	Electric Stoc		3.14 Clock / Programmable Thermostat 3.14 Duct Insulation	10.0% \$	0.05 0.03	10 20		50.0% 25.0%	50.0% 6.3%	0.314	3.14 2.98	0.16 0.01	0.31 0.09	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
SJD Retail	Cooling_DX	Electric Stoc	k Existing	3.14 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.08	30	75.0%	100.0%	75.0%	0.157	2.98	0.11	0.15	\$0.05	\$0.05	В	c
SJD Retail SJD Retail	Cooling_DX Cooling_DX	Electric Stoc Electric Stoc		3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.14 Duct Repair and Sealing	10.0% \$ 1.0% \$		10 20		100.0% 50.0%	50.0% 12.5%	0.314 0.031	2.87 2.72	0.14	0.29	\$0.12 \$0.14	\$0.13 \$0.16	F F	F
SJD Retail	Cooling_DX	Electric Stoc	k Existing	3.14 Installation of Air Side Economizers	15.0% \$	0.59	10		92.3%	92.3%	0.471	2.72	0.38	0.41	\$0.20	\$0.23	F	F
SJD Retail SJD Retail	Cooling_DX Cooling_DX	Electric Stoc Electric Stoc		3.14 DX Tune-Up / Diagnostics 3.14 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$	0.20 0.24	3 20		90.0% 100.0%	90.0% 50.0%	0.314	2.34 2.13	0.21	0.23 0.04	\$0.26 \$0.38	\$0.35 \$0.56	F F	F
SJD Retail	Cooling_DX	Electric Stoc	k Existing	3.14 Ceiling R-19 to R-38 Insulation	0.9% \$	0.24	20		100.0%	50.0%	0.028	2.11	0.01	0.02	\$0.89	\$1.32	F	F
SJD Retail SJD Retail	Cooling_HeatPump Cooling_HeatPump			3.14 Clock / Programmable Thermostat 3.14 Duct Insulation	10.0% \$ 3.0% \$		10 20		50.0% 25.0%	50.0% 6.3%	0.314 0.094	3.14 2.98	0.16 0.01	0.31 0.09	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
SJD Retail	Cooling_HeatPump	Electric Stoc		3.14 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.08	30	75.0%	100.0%	75.0%	0.157	2.98	0.11	0.15	\$0.05	\$0.05	В	C
SJD Retail SJD Retail	Cooling_HeatPump Cooling HeatPump			3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.14 Duct Repair and Sealing	10.0% \$ 1.0% \$		10 20		100.0% 50.0%	50.0% 12.5%	0.314	2.87 2.72	0.14	0.29 0.03	\$0.12 \$0.14	\$0.13 \$0.16	F	F
SJD Retail	Cooling_HeatPump	Electric Stoc	k Existing	3.14 Installation of Air Side Economizers	15.0% \$	0.59	10	100.0%	92.3%	92.3%	0.471	2.72	0.38	0.41	\$0.20	\$0.23	Ē	F
SJD Retail SJD Retail	Cooling_HeatPump Cooling_HeatPump			3.14 DX Tune-Up / Diagnostics 3.14 Ceiling R-0 to R-19 Insulation	10.0% \$ 2.1% \$		3 20		90.0% 100.0%	90.0% 50.0%	0.314	2.34 2.13	0.21	0.23 0.04	\$0.26 \$0.38	\$0.35 \$0.56	F	F
SJD Retail	Cooling_HeatPump	Electric Stoc	k Existing	3.14 Ceiling R-19 to R-38 Insulation	0.9% \$	0.24	20	50.0%	100.0%	50.0%	0.028	2.11	0.01	0.02	\$0.89	\$1.32	F	F
SJD Retail SJD Retail	Lighting_2L4T12 Lighting_2L4T12	Electric Stoc Electric Stoc		5.89 Occupancy Sensor, 8-4' Fluorescent Fixtures 5.89 4' 1L T8 Premium, EB, reflector	30.0% \$ 61.1% \$		14 25		100.0% 100.0%	10.0% 33.3%	1.767 3.599	5.89 5.89	0.18 1.20	1.77 3.60	\$0.04 \$0.05	\$0.04 \$0.05	B C	B C
SJD Retail	Lighting_2L4T12	Electric Stoc	k Existing	5.89 4' 2L T8 Premium, EB	25.0% \$	0.88	25	33.3%	100.0%	33.3%	1.473	5.89	0.49	1.47	\$0.06	\$0.06	Ċ	Ċ
SJD Retail SJD Retail	Lighting_2L4T12 Lighting_2L4T12	Electric Stoc Electric Stoc		5.89 4' 1L T5HO, EB 5.89 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% \$ 75.0% \$	0.67 4.35	25 18		100.0% 100.0%	33.3% 50.0%	0.819 4.418	5.89 5.89	0.27 2.21	0.82 4.42	\$0.08 \$0.11	\$0.08 \$0.11	E F	E F
SJD Retail	Lighting_2L4T8	Electric Stoc	k Existing	4.71 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0% \$	0.52	14	10.0%	100.0%	10.0%	1.413	4.71	0.14	1.41	\$0.05	\$0.05	C	Ċ
SJD Retail SJD Retail	Lighting_2L4T8 Lighting_2L8T12	Electric Stoc Electric Stoc		4.71 4' 2L T8 Premium, EB 5.89 8' 2L T8, EB	8.5% \$ 52.8% \$		25 25		100.0% 100.0%	100.0% 50.0%	0.400 3.110	4.71 5.89	0.40 1.55	0.40 3.11	\$0.07 \$0.01	\$0.07 \$0.01	D A	D A
SJD Retail	Lighting_2L8T12	Electric Stoc		5.89 8' 1L T12, 60W, EB, reflector	55.3% \$	0.96	25	25.0%	100.0%	25.0%	3.257	5.89	0.81	3.26	\$0.03	\$0.03	A	A
SJD Retail SJD Retail	Lighting_2L8T12 Lighting_2L8T12	Electric Stoc Electric Stoc		5.89 8' 2L T12, 60W, EB 5.89 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% \$ 30.0% \$		25 14		95.4% 100.0%	23.9% 10.0%	0.623 1.767	5.89 5.89	0.15 0.18	0.62 1.77	\$0.03 \$0.05	\$0.03 \$0.05	B C	B C
SJD Retail	Lighting_2L8T12	Electric Stoc	k Existing	5.89 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0% \$	5.02	18	20.0%	100.0%	20.0%	4.418	5.89	0.88	4.42	\$0.13	\$0.13	F	F
SJD Retail SJD Retail	Lighting_3L4T12 Lighting_3L4T12	Electric Stoc Electric Stoc		5.89 4' 1L T5HO, EB 5.89 4' 3L T8, EB	46.1% \$ 22.6% \$	0.12 0.11	25 25		100.0% 100.0%	75.0% 75.0%	2.715 1.332	5.89 5.89	2.04 1.00	2.71 1.33	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
SJD Retail	Lighting_3L4T12	Electric Stoc	k Existing	5.89 4' 2L T8 Premium, EB, reflector	53.0% \$	0.70	25	40.0%	100.0%	40.0%	3.124	5.89	1.25	3.12	\$0.02	\$0.02	Α	A
SJD Retail SJD Retail	Lighting_3L4T12 Lighting_3L4T8	Electric Stoc Electric Stoc	k Existing	5.89 4' 3L T8 Premium, EB 4.71 4' 3L T8 Premium, EB	22.6% \$ 6.7% \$	0.49	25 25	100.0%	100.0% 100.0%	75.0% 100.0%	1.332 0.316	5.89 4.71	1.00 0.32	1.33 0.32	\$0.02 \$0.15	\$0.15	A F	F
SJD Retail	Lighting_4L4T12	Electric Stoc	k Existing	5.89 4' 3L T8, EB	38.2% \$	0.11	25	16.7%	100.0%	16.7%	2.250	5.89	0.37	2.25	\$0.00	\$0.00	A	A
SJD Retail SJD Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Stoc Electric Stoc	k Existing	5.89 4' 3L T8 Premium, EB 5.89 4' 4L T8, EB	42.4% \$ 22.2% \$	0.35 0.23	25 25		100.0% 100.0%	16.7% 16.7%	2.495 1.309	5.89 5.89	0.42 0.22	2.50 1.31	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
SJD Retail	Lighting_4L4T12	Electric Stoc	k Existing	5.89 4' 2L T8 Premium, EB, reflector	62.5% \$	0.83	25		100.0%	16.7%	3.681	5.89	0.61	3.68	\$0.02		A	A
SJD Retail SJD Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Stoc Electric Stoc		5.89 4' 2L T5HO, EB 5.89 4' 4L T8 Premium, EB	18.8% \$ 25.0% \$		25 25		100.0% 100.0%	16.7% 16.7%	1.104 1.473	5.89 5.89	0.18 0.25	1.10 1.47	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
SJD Retail	Lighting_4L4T12	Electric Stoc	k Existing	5.89 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0% \$	0.58	14	10.0%	100.0%	10.0%	1.767	5.89	0.18	1.77	\$0.04	\$0.04	В	В
SJD Retail SJD Retail	Lighting_4L4T12 Lighting_4L4T8	Electric Stoc Electric Stoc		5.89 Continuous Dimming, 5-4' Fluorescent Fixtures 4.71 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% \$ 30.0% \$		18 14		100.0% 100.0%	50.0% 10.0%	4.418 1.413	5.89 4.71	2.21 0.14	4.42 1.41	\$0.11 \$0.05	\$0.11 \$0.05	F C	F C
SJD Retail	Lighting 4L4T8	Electric Stoc	k Existing	4.71 4' 4L T8 Premium, EB	3.6% \$	0.34	25	100.0%	100.0%	100.0%	0.170	4.71	0.17	0.17	\$0.19	\$0.19	F	F
SJD Retail SJD Retail	Lighting_INC150W Lighting_INC150W	Electric Stoc		5.89 Halogen PAR Flood, 90W 5.89 HPS, 50W	40.0% \$ 56.0% \$		1 8		99.3% 91.6%	9.9% 41.2%	2.356 3.298	5.89 5.89	0.23 1.36		\$0.09 \$0.29	\$0.09 \$0.29	E F	F
SJD Retail	Lighting_INC150W	Electric Stoc	k Existing	5.89 Metal Halide, 50W	52.0% \$	10.05	8	45.0%	91.6%	41.2%	3.063	5.89	1.26	3.06	\$0.61	\$0.61	F	F
SJD Retail SJD Retail	Lighting_INC40W Lighting_INC75W	Electric Stoc Electric Stoc		5.89 LED Exit Signs 5.89 CFL Screw-in, Modular 18W	80.0% \$ 65.3% \$		20 7		90.0% 75.0%	81.0% 37.5%	4.712 3.846	5.89 5.89	3.82 1.44		\$0.00 \$0.15	\$0.00 \$0.15	A F	A F
SJD Retail	Plug_Load	Electric Stoc	k Existing	0.15 Smart Networks	6.4% \$	0.00	4	90.0%	40.0%	36.0%	0.010	0.15	0.00	0.01	\$0.02	\$0.02	A	A
SJD Retail SJD Retail	Plug_Load Plug_Load	Electric Stoc Electric Stoc		0.15 ENERGY STAR or Better Office Equipment: Monitors 0.15 ENERGY STAR or Better Office Equipment: Copiers	15.3% \$ 9.6% \$		4		71.0% 65.0%	71.0% 65.0%	0.023 0.014	0.15 0.13	0.02	0.02 0.01	\$0.10 \$0.12	\$0.11 \$0.13	F F	F
SJD Retail	Plug_Load	Electric Stoc	k Existing	0.15 ENERGY STAR or Better Office Equipment: Computer	17.2% \$	0.01	4	100.0%	65.0%	65.0%	0.026	0.12	0.01	0.02	\$0.18	\$0.23	F	F
SJD Retail	Plug_Load	Electric Stoc	k Existing	0.15 ENERGY STAR or Better Office Equipment: Printers	14.6% \$	0.02	4	100.0%	65.0%	65.0%	0.022	0.11	0.01	0.02	\$0.31	\$0.43	F	F

Area	Building Type	End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost		Stand Alone Cost Group	
SJD		Space_Heat	Electric		Existing	4.59 Duct Repair and Sealing	2.0%		20	25.0%	50.0%	12.5%	0.092	4.59	0.01	0.09	\$0.01	\$0.01	A	A
SJD		Space_Heat Space Heat	Electric Electric		Existing Existing	4.59 Duct Insulation 4.59 Clock / Programmable Thermostat	2.0% 30.0%		20 10	25.0% 100.0%	84.9% 50.0%	21.2% 50.0%	0.092 1.377	4.58 4.56	0.02	0.09 1.37	\$0.01 \$0.02	\$0.01 \$0.02	A	A
SJD		Space_Heat Space Heat	Electric Electric		Existing Existing	4.59 Ceiling R-0 to R-19 Insulation	7.0%		20 15	50.0% 50.0%	55.7% 100.0%	27.9% 50.0%	0.321	3.88 3.80	0.08	0.27	\$0.08 \$0.15	\$0.09 \$0.18	E	E
SJD		Space_Heat	Electric		Existing	4.59 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.59 Ceiling R-19 to R-38 Insulation	3.0%		20	50.0%	55.7%	27.9%	0.230	3.70	0.09	0.19	\$0.15	\$0.18	F	F
SJD SJD		Water_Heat Water Heat	Electric Electric		Existing Existing	1.01 Hot Water (SHW) Pipe Insulation 1.01 Heat Pump Water Heater	5.0% 30.0%		15 15	50.0% 75.0%	100.0% 100.0%	50.0% 75.0%	0.051	1.01 0.98	0.03	0.05 0.30	\$0.06 \$1.01	\$0.06 \$1.04	D F	D F
SJD	Retail	Water_Heat	Electric	Stock	Existing	1.01 Demand controlled circulating systems	5.0%	3.90	15	50.0%	100.0%	50.0%	0.051	0.76	0.02	0.04	\$9.50	\$12.58	F	F
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	1.51 EMS Optimization 1.51 Two-Speed Cooling Tower, 300 Tons	1.0% 14.0%		5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.015 0.211	1.51 1.50	0.01	0.02 0.21	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51 VSD Cooling Tower, 300 Tons	18.0%	0.05	15	50.0%	90.0%	45.0%	0.272	1.40	0.11	0.25	\$0.02	\$0.03	Α	Α
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	1.51 High Efficiency Windows, Low-e; U=0.35 1.51 Insulation of Pipes	3.9% 1.0%		30 20	75.0% 50.0%	66.0% 50.0%	49.5% 25.0%	0.059 0.015	1.29 1.27	0.02	0.05 0.01	\$0.03 \$0.11	\$0.03 \$0.13	A F	B F
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51 Installation of Energy Management Systems	10.0%	0.14	10	50.0%	70.7%	35.3%	0.151	1.26	0.04	0.13	\$0.14	\$0.17	F	F
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	 1.51 Primary/Secondary De-coupled Chilled Water System 1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	12.0% 10.0%		15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.181 0.151	1.22 1.16	0.06 0.06	0.15 0.12	\$0.23 \$0.23	\$0.28 \$0.30	F	F
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	1.51 Chiller Tune-Up / Diagnostics 1.51 Optimize Chilled Water and Condenser Water Settings	5.0% 5.0%		5 10	100.0% 33.0%	90.0% 50.0%	90.0% 16.5%	0.076 0.076	1.10 1.05	0.05 0.01	0.06 0.05	\$0.30 \$0.31	\$0.42 \$0.45	F	F
	School	Cooling_Chillers	Electric		Existing	1.51 Optimize Crimer Water and Condenser Water Settings 1.51 Installation of Chiller Economizers (water side)	10.0%		20	50.0%	81.3%	40.6%	0.070	1.03	0.04	0.10	\$0.42	\$0.43	F	F
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	1.51 Ceiling R-0 to R-19 Insulation 1.51 Ceiling R-19 to R-38 Insulation	2.1% 0.9%		20 20	50.0% 50.0%	23.4% 23.4%	11.7% 11.7%	0.032 0.014	1.00 1.00	0.00	0.02 0.01	\$0.78 \$1.83	\$1.18 \$2.76	F F	F
SJD	School	Cooling_DX	Electric		Existing	1.51 Duct Insulation	3.0%	0.01	20	25.0%	25.0%	6.3%	0.045	1.51	0.00	0.05	\$0.02	\$0.02	A	A
	School School	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	1.51 Clock / Programmable Thermostat 1.51 High Efficiency Windows, Low-e; U=0.35	10.0% 5.0%		10 30	100.0% 75.0%	41.1% 66.0%	41.1% 49.5%	0.151	1.51 1.45	0.06	0.15 0.07	\$0.05 \$0.05	\$0.05 \$0.05	C	C
SJD	School	Cooling_DX	Electric	Stock	Existing	1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.22	10	50.0%	100.0%	50.0%	0.151	1.41	0.07	0.14	\$0.23	\$0.25	F	F
	School School	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	1.51 Duct Repair and Sealing 1.51 Installation of Air Side Economizers	1.0%		20 10	25.0% 100.0%	50.0% 41.1%	12.5% 41.1%	0.015 0.227	1.34 1.34	0.00	0.01 0.20	\$0.28 \$0.41	\$0.32 \$0.47	F F	F F
SJD	School	Cooling_DX	Electric	Stock	Existing	1.51 DX Tune-Up / Diagnostics	10.0%	0.18	3	100.0%	90.0%	90.0%	0.151	1.25	0.11	0.13	\$0.49	\$0.59	F	F
	School School	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	1.51 Ceiling R-0 to R-19 Insulation 1.51 Ceiling R-19 to R-38 Insulation	2.1% 0.9%		20 20	50.0% 50.0%	23.4% 23.4%	11.7% 11.7%	0.032 0.014	1.14 1.14	0.00	0.02 0.01	\$0.78 \$1.83	\$1.03 \$2.42	F F	F F
SJD	School	Cooling_HeatPump	Electric	Stock	Existing	1.51 Duct Insulation	3.0%	0.01	20	25.0%	25.0%	6.3%	0.045	1.51	0.00	0.05	\$0.02	\$0.02	A	A
	School School	Cooling_HeatPump Cooling_HeatPump			Existing Existing	1.51 Clock / Programmable Thermostat 1.51 High Efficiency Windows, Low-e; U=0.35	10.0%		10 30	100.0% 75.0%	41.1% 66.0%	41.1% 49.5%	0.151 0.076	1.51 1.45	0.06 0.04	0.15 0.07	\$0.05 \$0.05	\$0.05 \$0.05	C C	C C
SJD	School	Cooling_HeatPump	Electric	Stock	Existing	1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.22	10	50.0%	100.0%	50.0%	0.151	1.41	0.07	0.14	\$0.23	\$0.25	F	F
	School School	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	1.51 Duct Repair and Sealing 1.51 Installation of Air Side Economizers	1.0% 15.0%		20 10	25.0% 100.0%	50.0% 41.1%	12.5% 41.1%	0.015 0.227	1.34 1.34	0.00	0.01 0.20	\$0.28 \$0.41	\$0.32 \$0.47	F	F
	School	Cooling_HeatPump	Electric Electric		Existing	1.51 DX Tune-Up / Diagnostics	10.0%		3	100.0%	90.0%	90.0%	0.151 0.032	1.25	0.11	0.13	\$0.49 \$0.78	\$0.59	F	F
	School School	Cooling_HeatPump Cooling_HeatPump	Electric		Existing Existing	1.51 Ceiling R-0 to R-19 Insulation 1.51 Ceiling R-19 to R-38 Insulation	2.1% 0.9%		20 20	50.0% 50.0%	23.4% 23.4%	11.7% 11.7%	0.032	1.14 1.14	0.00	0.02 0.01	\$0.78 \$1.83	\$1.03 \$2.42	F	F
	School School	Lighting_2L4T12	Electric Electric		Existing Existing	2.68 Occupancy Sensor, 8-4' Fluorescent Fixtures 2.68 4' 1L T8 Premium, EB, reflector	30.0% 61.1%		20 34	50.0% 33.3%	94.7% 100.0%	47.4% 33.3%	0.804 1.638	2.68 2.68	0.38 0.55	0.80 1.64	\$0.05 \$0.08	\$0.05 \$0.08	C F	C E
	School	Lighting_2L4T12 Lighting_2L4T12	Electric		Existing	2.68 4' 2L T8 Premium, EB	25.0%		34	33.3%	100.0%	33.3%	0.670	2.68	0.33	0.67	\$0.00	\$0.08	Ē	E
	School School	Lighting_2L4T12	Electric Electric		Existing Existing	2.68 4' 1L T5HO, EB 2.68 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% 75.0%		34 24	33.3% 30.0%	100.0% 100.0%	33.3% 30.0%	0.373 2.010	2.68 2.68	0.12	0.37 2.01	\$0.12 \$0.17	\$0.12 \$0.17	F	F
	School	Lighting_2L4T12 Lighting_2L4T8	Electric		Existing	2.14 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%		20	50.0%	94.7%	47.4%	0.642	2.14	0.30	0.64	\$0.07	\$0.17	D	Ď
	School School	Lighting_2L4T8 Lighting_2L8T12	Electric Electric		Existing Existing	2.14 4' 2L T8 Premium, EB 2.68 8' 2L T8. EB	8.5% 52.8%		34 34	100.0% 50.0%	100.0% 100.0%	100.0% 50.0%	0.182 1.415	2.14 2.68	0.18 0.71	0.18 1.42	\$0.11 \$0.02	\$0.11 \$0.02	F A	F A
SJD	School	Lighting_2L8T12	Electric	Stock	Existing	2.68 8' 1L T12, 60W, EB, reflector	55.3%	0.79	34	25.0%	100.0%	25.0%	1.482	2.68	0.37	1.48	\$0.05	\$0.05	С	С
	School School	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	2.68 8' 2L T12, 60W, EB 2.68 Occupancy Sensor, 4-8' Fluorescent Fixtures	10.6% 30.0%		34 20	25.0% 50.0%	32.9% 94.7%	8.2% 47.4%	0.283 0.804	2.68 2.68	0.02	0.28 0.80	\$0.05 \$0.07	\$0.05 \$0.07	C D	C D
SJD	School	Lighting_2L8T12	Electric	Stock	Existing	2.68 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	4.12	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	\$0.20	\$0.20	F	F
	School School	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		Existing Existing	2.68 4' 1L T5HO, EB 2.68 4' 3L T8, EB	46.1% 22.6%		34 34	75.0% 75.0%	100.0% 100.0%	75.0% 75.0%	1.235 0.606	2.68 2.68	0.93 0.45	1.24 0.61	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
SJD	School	Lighting_3L4T12	Electric		Existing	2.68 4' 2L T8 Premium, EB, reflector	53.0%	0.23	34	40.0%	100.0%	40.0%	1.422	2.68	0.57	1.42	\$0.01	\$0.01	A	A
	School School	Lighting_3L4T12 Lighting_3L4T8	Electric Electric		Existing Existing	2.68 4' 3L T8 Premium, EB 2.14 4' 3L T8 Premium, EB	22.6% 6.7%		34 34	75.0% 100.0%	100.0% 100.0%	75.0% 100.0%	0.606 0.143	2.68 2.14	0.45 0.14	0.61 0.14	\$0.02 \$0.23	\$0.02 \$0.23	A F	F
	School	Lighting_4L4T12	Electric		Existing	2.68 4' 3L T8, EB	38.2%		34	16.7%	100.0%	16.7%	1.024	2.68	0.17	1.02	\$0.01	\$0.01	A	A
	School School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.68 4' 3L T8 Premium, EB 2.68 4' 4L T8, EB	42.4% 22.2%		34 34	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.135 0.596	2.68 2.68	0.19 0.10	1.14 0.60	\$0.02 \$0.03	\$0.02 \$0.03	A A	A
	School School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.68 4' 2L T8 Premium, EB, reflector 2.68 4' 2L T5HO, EB	62.5% 18.8%		34 34	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.675 0.503	2.68 2.68	0.28	1.68 0.50	\$0.04 \$0.05	\$0.04 \$0.05	B C	B C
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68 4' 4L T8 Premium, EB	25.0%	0.44	34	16.7%	100.0%	16.7%	0.670	2.68	0.11	0.67	\$0.06	\$0.06	С	C
	School School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.68 Occupancy Sensor, 4-4' Fluorescent Fixtures 2.68 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% 75.0%		20 24	50.0% 30.0%	94.7% 100.0%	47.4% 30.0%	0.804 2.010	2.68 2.68	0.38	0.80 2.01	\$0.06 \$0.17	\$0.06 \$0.17	D F	D F
	School	Lighting_4L4T8	Electric	Stock	Existing	2.14 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	0.47	20	50.0%	94.7%	47.4%	0.642	2.14	0.30	0.64	\$0.08	\$0.08	Ē	Ē
	School School	Lighting_4L4T8 Lighting_INC150W	Electric Electric		Existing Existing	2.14 4' 4L T8 Premium, EB 2.68 Halogen PAR Flood, 90W	3.6% 40.0%		34 1	100.0% 10.0%	100.0% 97.3%	100.0% 9.7%	0.077 1.072	2.14 2.68	0.08	0.08 1.07	\$0.31 \$0.08	\$0.31 \$0.08	F E	E
	School	Lighting_INC150W	Electric		Existing	2.68 HPS, 50W	56.0%	2.09	12	45.0%	85.5%	38.5%	1.501	2.68	0.58	1.50	\$0.20	\$0.20	F	F
	School School	Lighting_INC150W Lighting_INC40W	Electric Electric		Existing Existing	2.68 Metal Halide, 50W 2.68 LED Exit Signs	52.0% 80.0%		12 20	45.0% 90.0%	85.5% 90.0%	38.5% 81.0%	1.394 2.144	2.68 2.68	0.54 1.74	1.39 2.14	\$0.41 \$0.00	\$0.41 \$0.00	F A	A
	School School	Lighting_INC75W	Electric Electric	Stock	Existing Existing	2.68 CFL Screw-in, Modular 18W 0.11 Smart Networks	65.3% 7.2%		10	90.0% 90.0%	88.4% 40.0%	79.6% 36.0%	1.750 0.008	2.68 0.11	1.39 0.00	1.75 0.01	\$0.17 \$0.19	\$0.17 \$0.19	F	F
SJD	School	Plug_Load Plug_Load	Electric		Existing	0.11 ENERGY STAR or Better Office Equipment: Copiers	9.0%	0.01	4	100.0%	65.0%	65.0%	0.010	0.11	0.01	0.01	\$0.48	\$0.49	F	F
	School School	Plug_Load Plug_Load	Electric Electric		Existing Existing	0.11 ENERGY STAR or Better Office Equipment: Monitors 0.11 ENERGY STAR or Better Office Equipment: Printers	17.3% 11.2%		4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.019 0.012	0.10 0.09	0.01 0.01	0.02 0.01	\$0.99 \$1.69	\$1.08 \$2.10	F	F
SJD	School	Plug_Load	Electric	Stock	Existing	0.11 ENERGY STAR or Better Office Equipment: Computer	19.5%	0.12	4	100.0%	65.0%	65.0%	0.021	0.08	0.01	0.02	\$1.77	\$2.37	F	F
	School School	Space_Heat Space Heat	Electric Electric		Existing Existing	2.77 Duct Repair and Sealing 2.77 Duct Insulation	2.0%		20 20	25.0% 25.0%	50.0% 71.8%	12.5% 18.0%	0.055 0.055	2.77 2.76	0.01 0.01	0.06 0.06	\$0.01 \$0.01	\$0.01 \$0.01	A	A
SJD	School	Space_Heat	Electric	Stock	Existing	2.77 Clock / Programmable Thermostat	30.0%	0.15	10	100.0%	41.1%	41.1%	0.831	2.75	0.34	0.83	\$0.03	\$0.03	Ä	A
	School School	Space_Heat Space Heat	Electric Electric		Existing Existing	2.77 Ceiling R-0 to R-19 Insulation 2.77 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	7.0% 5.0%		20 15	50.0% 50.0%	44.9% 100.0%	22.5% 50.0%	0.194 0.139	2.41 2.38	0.04 0.06	0.17 0.12	\$0.13 \$0.25	\$0.15 \$0.29	F F	F F
SJD	School	Space_Heat	Electric	Stock	Existing	2.77 Ceiling R-19 to R-38 Insulation	3.0%	0.23	20	50.0%	44.9%	22.5%	0.083	2.32	0.02	0.07	\$0.30	\$0.36	F	F
	School School	Water_Heat Water Heat	Electric Electric		Existing Existing	0.9 Hot Water (SHW) Pipe Insulation 0.9 Heat Pump Water Heater	5.0% 30.0%		15 15	50.0% 75.0%	9.9% 87.2%	4.9% 65.4%	0.045 0.270	0.90 0.90	0.00	0.05 0.27	\$0.04 \$1.15	\$0.04 \$1.16	B F	E R
	School Small Office	Water_Heat	Electric		Existing	0.9 Demand controlled circulating systems	5.0%	3.97	15	50.0%	100.0%	50.0%	0.045	0.72	0.02		\$10.86	\$13.55	F	F
	Small_Office Small_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 EMS Optimization 4.19 Two-Speed Cooling Tower, 300 Tons	1.0% 14.0%		5 15	100.0% 50.0%	75.0% 90.0%	75.0% 45.0%	0.042 0.587	4.19 4.16	0.03 0.26		\$0.00 \$0.00	\$0.00 \$0.00	A A	A
SJD	Small_Office Small_Office	Cooling_Chillers	Electric Flectric	Stock	Existing Existing	4.19 Insulation of Pipes 4.19 VSD Cooling Tower, 300 Tons	1.0% 18.0%	0.00	20 15	50.0%	50.0% 90.0%	25.0% 45.0%	0.042	3.90 3.89	0.01 0.31	0.04 0.70	\$0.01 \$0.01	\$0.01 \$0.01	A	A
	Small_Office Small_Office	Cooling_Chillers Cooling_Chillers	Electric		Existing	4.19 VSD Cooling Tower, 300 Tons 4.19 High Efficiency Windows, Low-e; U=0.35	9.3%	0.06	30	75.0%	99.4%	74.6%	0.388	3.57	0.25	0.33	\$0.01 \$0.01	\$0.02	A A	A A
	Small_Office Small Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Installation of Energy Management Systems 4.19 Primary/Secondary De-coupled Chilled Water System	10.0% 12.0%		10 15	50.0% 50.0%	19.1% 80.0%	9.5% 40.0%	0.419 0.503	3.33 3.29	0.03 0.16	0.33 0.40	\$0.07 \$0.11	\$0.09 \$0.14	D F	E
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.29	10	50.0%	100.0%	50.0%	0.419	3.14	0.16	0.31	\$0.11	\$0.15	F	F
	Small_Office Small_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Chiller Tune-Up / Diagnostics 4.19 Installation of Chiller Economizers (water side)	5.0% 10.0%		5 20	100.0% 50.0%	90.0% 56.9%	90.0% 28.4%	0.210 0.419	2.98 2.84	0.13 0.08	0.15 0.28	\$0.15 \$0.15	\$0.20 \$0.22	F F	F F
200	aJilloo	_ 50g_ 51613		Dioon	Lading		10.070	. 0.00	20	30.070	30.376	20.470	3.713	2.04	3.00	0.20	ψ0.15	ψ0.22		•

												Measure						Stacked		
Area	Building Type	End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names				Feasibility	Incomplete	Applicability	Stand Alone	Adjusted		Stacked Savings Full	Stand-alone Marginal	Enormy	Stand Alone	
							Savings	Cost	Life	Factor	Factor	(Feas Factor * Incomp Factor)	Savings	Base	Savings	App	Energy Cost	Energy Cost	Cost Group	Group
	Small_Office	Cooling_Chillers	Electric		Existing	4.19 Optimize Chilled Water and Condenser Water Settings	5.0% \$	0.20	10	33.0%	50.0%	16.5%	0.210	2.76	0.02	0.14	\$0.15	\$0.23	F	F
	Small_Office Small_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	4.19 Ceiling R-0 to R-19 Insulation 4.19 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$		20 20	50.0% 50.0%	8.7% 8.7%	4.4% 4.4%	0.088	2.74 2.74	0.00	0.06 0.02	\$0.20 \$0.46	\$0.30 \$0.70	F F	F
	Small_Office	Cooling_DX	Electric		Existing	4.19 Duct Insulation	3.0% \$		20	25.0%	25.0%	6.3%	0.126	4.19	0.00	0.02	\$0.40	\$0.70	A	A
	Small_Office	Cooling_DX	Electric		Existing	4.19 Clock / Programmable Thermostat	10.0% \$		10	100.0%	58.4%	58.4%	0.419	4.18	0.24	0.42	\$0.02	\$0.02	A	A
	Small_Office Small Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 High Efficiency Windows, Low-e; U=0.35 4.19 Duct Repair and Sealing	5.0% \$ 1.0% \$		30 20	75.0% 25.0%	99.4% 50.0%	74.6% 12.5%	0.210 0.042	3.94 3.79	0.15	0.20 0.04	\$0.06 \$0.10	\$0.07 \$0.11	D F	D F
	Small_Office	Cooling_DX	Electric		Existing	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.29	10	50.0%	100.0%	50.0%	0.419	3.79	0.19	0.38	\$0.11	\$0.12	F	F
	Small_Office Small Office	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	4.19 Installation of Air Side Economizers 4.19 Ceiling R-0 to R-19 Insulation	15.0% \$ 2.1% \$	0.59 0.16	10 20	100.0% 50.0%	30.4% 8.7%	30.4% 4.4%	0.629 0.088	3.60 3.43	0.16	0.54 0.07	\$0.15 \$0.20	\$0.17 \$0.24	F	F
	Small_Office	Cooling_DX Cooling_DX	Electric		Existing	4.19 DX Tune-Up / Diagnostics	10.0% \$		3	100.0%	90.0%	90.0%	0.419	3.43	0.31	0.34	\$0.24	\$0.24	F	F
	Small_Office	Cooling_DX	Electric		Existing	4.19 Ceiling R-19 to R-38 Insulation	0.9% \$		20	50.0%	8.7%	4.4%	0.038	3.12	0.00		\$0.46	\$0.62	F	F
	Small_Office Small Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.19 Duct Insulation 4.19 Clock / Programmable Thermostat	3.0% \$ 10.0% \$	0.02	20 10	25.0% 100.0%	25.0% 58.4%	6.3% 58.4%	0.126 0.419	4.19 4.18	0.01 0.24	0.13 0.42	\$0.02 \$0.02	\$0.02 \$0.02	A A	A
SJD	Small_Office	Cooling_HeatPump	Electric		Existing	4.19 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.15	30	75.0%	99.4%	74.6%	0.210	3.94	0.15	0.20	\$0.06	\$0.07	D	D
	Small_Office Small Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	4.19 Duct Repair and Sealing 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	1.0% \$ 10.0% \$		20 10	25.0% 50.0%	50.0% 100.0%	12.5% 50.0%	0.042 0.419	3.79 3.79	0.00	0.04 0.38	\$0.10 \$0.11	\$0.11 \$0.12	F	F
	Small_Office	Cooling_HeatPump	Electric		Existing	4.19 Installation of Air Side Economizers	15.0% \$	0.59	10	100.0%	30.4%	30.4%	0.629	3.60	0.16	0.54	\$0.15	\$0.17	F	F
	Small_Office	Cooling_HeatPump	Electric		Existing	4.19 Ceiling R-0 to R-19 Insulation	2.1% \$	0.16	20	50.0%	8.7%	4.4%	0.088	3.43	0.00		\$0.20	\$0.24	F	F
	Small_Office Small_Office	Cooling_HeatPump Cooling HeatPump	Electric Electric		Existing Existing	4.19 DX Tune-Up / Diagnostics 4.19 Ceiling R-19 to R-38 Insulation	10.0% \$ 0.9% \$		3 20	100.0% 50.0%	90.0% 8.7%	90.0% 4.4%	0.419 0.038	3.43 3.12	0.31	0.34 0.03	\$0.24 \$0.46	\$0.29 \$0.62	F	F
SJD	Small_Office	Lighting_2L4T12	Electric	Stock	Existing	5.29 Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0% \$	0.45	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	\$0.05	\$0.05	С	С
	Small_Office Small Office	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		Existing Existing	5.29 4' 1L T8 Premium, EB, reflector 5.29 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$	1.58 0.77	16 16	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	3.233 1.323	5.29 5.29	1.08 0.44	3.23 1.32	\$0.06 \$0.07	\$0.06 \$0.07	C	C D
	Small_Office	Lighting_2L4T12	Electric		Existing	5.29 4' 1L T5HO, EB	13.9% \$		16	33.3%	100.0%	33.3%	0.735	5.29	0.25	0.74	\$0.09	\$0.09	Ē	Ē
SJD	Small_Office	Lighting_2L4T12	Electric		Existing	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0% \$	3.82	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.14	\$0.14	F	F
	Small_Office Small_Office	Lighting_2L4T8 Lighting_2L4T8	Electric Electric		Existing Existing	4.24 Occupancy Sensor, 8-4' Fluorescent Fixtures 4.24 4' 2L T8 Premium. EB	30.0% \$ 8.5% \$	0.45 0.27	9 16	40.0% 100.0%	79.6% 100.0%	31.8% 100.0%	1.272 0.360	4.24 4.24	0.40 0.36	1.27 0.36	\$0.06 \$0.09	\$0.06 \$0.09	D E	D E
SJD	Small_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29 8' 2L T8, EB	52.8% \$	0.36	16	50.0%	100.0%	50.0%	2.793	5.29	1.40	2.79	\$0.02	\$0.02	Α	Ā
	Small_Office Small_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	5.29 8' 1L T12, 60W, EB, reflector 5.29 8' 2L T12, 60W, EB	55.3% \$ 10.6% \$		16 16	25.0% 25.0%	100.0% 26.6%	25.0% 6.6%	2.925 0.559	5.29 5.29	0.73 0.04	2.93 0.56	\$0.03 \$0.04	\$0.03 \$0.04	B B	B B
	Small Office	Lighting_2L8T12 Lighting_2L8T12	Electric		Existing	5.29 Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0% \$		9	40.0%	79.6%	31.8%	1.587	5.29	0.04	1.59	\$0.04	\$0.04	Č	Č
	Small_Office	Lighting_2L8T12	Electric		Existing	5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0% \$	4.09	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.15	\$0.15	F	F
	Small_Office Small Office	Lighting_3L4T12 Lighting_3L4T12	Electric Flectric		Existing Existing	5.29 4' 1L T5HO, EB 5.29 4' 3L T8. FB	46.1% \$ 22.6% \$		16 16	75.0% 75.0%	100.0% 100.0%	75.0% 75.0%	2.438 1.196	5.29 5.29	1.83 0.90	2.44 1.20	\$0.00 \$0.00	\$0.00 \$0.00	A A	Α Δ
SJD	Small_Office	Lighting_3L4T12	Electric		Existing	5.29 4' 2L T8 Premium, EB, reflector	53.0% \$	0.28	16	40.0%	100.0%	40.0%	2.806	5.29	1.12	2.81	\$0.01	\$0.01	Ä	Ä
	Small_Office	Lighting_3L4T12	Electric		Existing	5.29 4' 3L T8 Premium, EB 4.24 4' 3L T8 Premium, EB	22.6% \$		16	75.0%	100.0%	75.0%	1.196	5.29	0.90		\$0.01	\$0.01	A	A
	Small_Office Small Office	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		Existing Existing	4.24 4 3L 18 Premium, EB 5.29 4' 3L T8, EB	6.7% \$ 38.2% \$	0.43 0.10	16 16	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.284 2.021	4.24 5.29	0.28 0.34	0.28 2.02	\$0.18 \$0.01	\$0.18 \$0.01	A	A
	Small_Office	Lighting_4L4T12	Electric		Existing	5.29 4' 3L T8 Premium, EB	42.4% \$		16	16.7%	100.0%	16.7%	2.241	5.29	0.37	2.24	\$0.02	\$0.02	A	Α
	Small_Office Small Office	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	5.29 4' 4L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.176 3.306	5.29 5.29	0.20 0.55	1.18 3.31	\$0.02 \$0.03	\$0.02 \$0.03	A A	A
	Small_Office	Lighting_4L4T12	Electric		Existing	5.29 4' 2L T5HO, EB	18.8% \$	0.29	16	16.7%	100.0%	16.7%	0.992	5.29	0.17	0.99	\$0.03	\$0.03	В	В
	Small_Office	Lighting_4L4T12	Electric Flectric		Existing	5.29 4' 4L T8 Premium, EB	25.0% \$		16	16.7%	100.0%	16.7%	1.323	5.29	0.22	1.32	\$0.04	\$0.04	В	В
	Small_Office Small_Office	Lighting_4L4T12 Lighting_4L4T12	Electric		Existing Existing	5.29 Occupancy Sensor, 4-4' Fluorescent Fixtures 5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	30.0% \$ 75.0% \$		9 11	40.0% 40.0%	79.6% 100.0%	31.8% 40.0%	1.587 3.968	5.29 5.29	0.51 1.59	1.59 3.97	\$0.06 \$0.15	\$0.06 \$0.15	C F	C F
SJD	Small_Office	Lighting_4L4T8	Electric	Stock	Existing	4.24 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0% \$	0.52	9	40.0%	79.6%	31.8%	1.272	4.24	0.40	1.27	\$0.07	\$0.07	D	D
	Small_Office Small Office	Lighting_4L4T8 Lighting_INC150W	Electric Electric		Existing Existing	4.24 4' 4L T8 Premium, EB 5.29 Halogen PAR Flood, 90W	3.6% \$ 40.0% \$	0.30 0.18	16 1	100.0% 10.0%	100.0% 100.0%	100.0% 10.0%	0.153 2.116	4.24 5.29	0.15 0.21	0.15 2.12	\$0.24 \$0.10	\$0.24 \$0.10	F F	F
	Small_Office	Lighting_INC150W	Electric		Existing	5.29 HPS, 50W	56.0% \$		6	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	\$0.38	\$0.38	F	F
	Small_Office Small Office	Lighting_INC150W	Electric		Existing Existing	5.29 Metal Halide, 50W 5.29 LED Exit Signs	52.0% \$ 80.0% \$		6 20	45.0% 90.0%	93.9% 90.0%	42.2% 81.0%	2.751 4.232	5.29 5.29	1.16 3.43	2.75 4.23	\$0.80 \$0.00	\$0.80 \$0.00	F	F
	Small_Office	Lighting_INC40W Lighting_INC75W	Electric Electric		Existing	5.29 CFL Screw-in, Modular 18W	65.3% \$	2.25	20 5	90.0%	72.5%	65.2%	3.454	5.29	2.25		\$0.00	\$0.00	A F	F
SJD	Small_Office	Plug_Load	Electric	Stock	Existing	1.59 Smart Networks	9.1% \$		4	90.0%	40.0%	36.0%	0.145	1.59	0.05	0.15	\$0.02	\$0.02	Α	Α
	Small_Office Small_Office	Plug_Load Plug Load	Electric Electric		Existing Existing	1.59 ENERGY STAR or Better Office Equipment: Monitors 1.59 ENERGY STAR or Better Office Equipment: Copiers	21.9% \$ 4.8% \$		4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.349 0.077	1.54 1.30	0.24	0.34 0.06	\$0.09 \$0.14	\$0.09 \$0.18	E	E
	Small_Office	Plug_Load	Electric		Existing	1.59 ENERGY STAR or Better Office Equipment: Computer	24.7% \$		4	100.0%	65.0%	65.0%	0.393	1.26	0.20		\$0.15		F	F
	Small_Office	Plug_Load	Electric		Existing	1.59 ENERGY STAR or Better Office Equipment: Printers	8.0% \$	0.10	4	100.0%	65.0%	65.0%	0.127	1.06	0.05	0.08	\$0.26	\$0.40	F	F
	Small_Office Small Office	Space_Heat Space Heat	Electric Electric		Existing Existing	6.18 Duct Repair and Sealing 6.18 Clock / Programmable Thermostat	2.0% \$ 30.0% \$	0.01 0.15	20 10	25.0% 100.0%	50.0% 58.5%	12.5% 58.5%	0.124 1.854	6.18 6.16	0.02 1.08	0.12 1.85	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJD	Small_Office	Space_Heat	Electric	Stock	Existing	6.18 Duct Insulation	2.0% \$	0.02	20	25.0%	58.5%	14.6%	0.124	5.08	0.01	0.10	\$0.02	\$0.02	A	Α
	Small_Office Small_Office	Space_Heat Space_Heat	Electric Electric		Existing Existing	6.18 Ceiling R-0 to R-19 Insulation 6.18 Ceiling R-19 to R-38 Insulation	7.0% \$ 3.0% \$	0.16 0.16	20 20	50.0% 50.0%	12.9% 12.9%	6.5% 6.5%	0.433 0.185	5.07 5.05	0.02	0.35 0.15	\$0.04 \$0.09	\$0.05 \$0.11	B E	C
	Small_Office	Space_Heat	Electric		Existing	6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$		15	50.0%	100.0%	50.0%	0.309	5.04	0.13	0.15	\$0.09	\$0.11	F	F
	Small_Office	Water_Heat	Electric		Existing	0.95 Hot Water (SHW) Pipe Insulation	5.0% \$		15	50.0%	39.3%	19.6%	0.048	0.95	0.01	0.05	\$0.01	\$0.01	A	A
	Small_Office Small Office	Water_Heat Water Heat	Electric Electric		Existing Existing	0.95 Heat Pump Water Heater 0.95 Demand controlled circulating systems	30.0% \$ 5.0% \$		15 15	75.0% 50.0%	100.0% 93.2%	75.0% 46.6%	0.285 0.048	0.94 0.73	0.21	0.28 0.04	\$0.25 \$2.35	\$0.25 \$3.06	F	F
SJD	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66 EMS Optimization	1.0% \$	-	5	100.0%	75.0%	75.0%	0.017	1.66	0.01	0.02	\$0.00	\$0.00	A	A
	Warehouse Warehouse	Cooling_Chillers Cooling_Chillers	Electric Flectric		Existing Existing	1.66 Two-Speed Cooling Tower, 300 Tons 1.66 VSD Cooling Tower, 300 Tons	14.0% \$ 18.0% \$		15 15	50.0% 50.0%	90.0% 90.0%	45.0% 45.0%	0.232 0.299	1.65 1.54	0.10 0.13	0.23 0.28	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
	Warehouse	Cooling_Chillers Cooling_Chillers	Electric		Existing	1.66 Insulation of Pipes	1.0% \$	0.00	20	50.0%	90.0% 50.0%	25.0%	0.017	1.42	0.00	0.01	\$0.01	\$0.01	A	Ä
SJD	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66 High Efficiency Windows, Low-e; U=0.35	5.4% \$	0.01	30	75.0%	100.0%	75.0%	0.090	1.42	0.06	0.08	\$0.01	\$0.01	A	A
	Warehouse Warehouse	Cooling_Chillers Cooling_Chillers	Electric Electric		Existing Existing	1.66 Installation of Energy Management Systems 1.66 Primary/Secondary De-coupled Chilled Water System	10.0% \$ 12.0% \$	0.05 0.14	10 15	50.0% 50.0%	80.0% 80.0%	40.0% 40.0%	0.166 0.199	1.36 1.30	0.05 0.06	0.14 0.16	\$0.05 \$0.08	\$0.06 \$0.11	C E	D F
SJD	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.09	10	50.0%	100.0%	50.0%	0.166	1.24	0.06	0.12	\$0.08	\$0.11	Ē	F
	Warehouse Warehouse	Cooling_Chillers Cooling_Chillers	Electric Flectric		Existing Existing	1.66 Chiller Tune-Up / Diagnostics 1.66 Optimize Chilled Water and Condenser Water Settings	5.0% \$ 5.0% \$		5 10	100.0% 33.0%	90.0% 50.0%	90.0% 16.5%	0.083	1.18 1.13	0.05 0.01	0.06 0.06	\$0.11 \$0.11	\$0.16 \$0.17	F	F
	Warehouse	Cooling_Chillers Cooling_Chillers	Electric		Existing	1.66 Installation of Chiller Economizers (water side)	10.0% \$	0.06	20	50.0%	100.0%	50.0%	0.083	1.13	0.01	0.06	\$0.11	\$0.17	F	F
	Warehouse	Cooling_Chillers	Electric		Existing	1.66 Ceiling R-0 to R-19 Insulation	2.1% \$	0.23	20	50.0%	20.0%	10.0%	0.035	1.06	0.00	0.02	\$0.69	\$1.08	F	F
	Warehouse Warehouse	Cooling_Chillers Cooling_DX	Electric Electric		Existing Existing	1.66 Ceiling R-19 to R-38 Insulation 1.66 Duct Insulation	0.9% \$ 3.0% \$		20 20	50.0% 25.0%	20.0% 25.0%	10.0% 6.3%	0.015 0.050	1.06 1.66	0.00	0.01 0.05	\$1.61 \$0.01	\$2.53 \$0.01	F A	F A
	Warehouse	Cooling_DX	Electric		Existing	1.66 Clock / Programmable Thermostat	10.0% \$	0.02	10	100.0%	46.6%	46.6%	0.166	1.66	0.08	0.17	\$0.02	\$0.02	A	Ä
	Warehouse	Cooling_DX	Electric		Existing	1.66 High Efficiency Windows, Low-e; U=0.35	5.0% \$		30	75.0%	100.0%	75.0%	0.083	1.58	0.06		\$0.03	\$0.03	В	В
	Warehouse Warehouse	Cooling_DX Cooling_DX	Electric Electric		Existing Existing	1.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.66 DX Tune-Up / Diagnostics	10.0% \$ 10.0% \$		10 3	50.0% 100.0%	100.0% 90.0%	50.0% 90.0%	0.166 0.166	1.52 1.44	0.08	0.15 0.14	\$0.08 \$0.18	\$0.09 \$0.20	E F	E F
SJD	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66 Duct Repair and Sealing	1.0% \$	0.04	20	25.0%	50.0%	12.5%	0.017	1.31	0.00	0.01	\$0.26	\$0.32	F	F
	Warehouse Warehouse	Cooling_DX	Electric Electric		Existing Existing	1.66 Installation of Air Side Economizers	15.0% \$ 2.1% \$		10 20	100.0% 50.0%	53.5% 20.0%	53.5% 10.0%	0.249 0.035	1.31 1.21	0.11		\$0.38 \$0.69	\$0.48 \$0.95	F F	F
	Warehouse	Cooling_DX Cooling_DX	Electric		Existing	1.66 Ceiling R-0 to R-19 Insulation 1.66 Ceiling R-19 to R-38 Insulation	2.1% \$ 0.9% \$	0.23	20	50.0%	20.0%	10.0% 10.0%	0.035	1.21 1.21	0.00	0.03	\$0.69 \$1.61	\$0.95 \$2.22	F	F
SJD	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66 Duct Insulation	3.0% \$	0.01	20	25.0%	25.0%	6.3%	0.050	1.66	0.00	0.05	\$0.01	\$0.01	A	A
	Warehouse Warehouse	Cooling_HeatPump Cooling_HeatPump	Electric Electric		Existing Existing	1.66 Clock / Programmable Thermostat 1.66 High Efficiency Windows, Low-e; U=0.35	10.0% \$ 5.0% \$		10 30	100.0% 75.0%	46.6% 100.0%	46.6% 75.0%	0.166 0.083	1.66 1.58	0.08		\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
	Warehouse	Cooling_HeatPump	Electric		Existing	1.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$		10		100.0%	50.0%	0.166	1.52	0.08		\$0.03	\$0.03	E	E
	Warehouse	Cooling_HeatPump			Existing	1.66 DX Tune-Up / Diagnostics	10.0% \$		3	100.0%	90.0%	90.0%	0.166	1.44	0.13	0.14	\$0.18	\$0.20	F	F
	Warehouse Warehouse	Cooling_HeatPump Cooling_HeatPump			Existing Existing	1.66 Duct Repair and Sealing 1.66 Installation of Air Side Economizers	1.0% \$ 15.0% \$		20 10	25.0% 100.0%	50.0% 53.5%	12.5% 53.5%	0.017 0.249	1.31 1.31	0.00 0.11	0.01 0.20	\$0.26 \$0.38	\$0.32 \$0.48	F F	F
505		a rodu dirip			9		.0.070 4	0.00	.0	. 55.576	30.070	55.570	5.2.0	1.01	0	5.20	ψ0.00	\$0.70		

An	ea Building Type	e End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	Stacked Cost Group
) Warehouse	Cooling_HeatPump	Electric		Existing	1.66 Ceiling R-0 to R-19 Insulation	2.1% \$		20	50.0%	20.0%	10.0%	0.035	1.21	0.00	0.03	\$0.69	\$0.95	F	F
	Warehouse Warehouse	Cooling_HeatPump Lighting_2L4T12	Electric Electric		Existing Existing	1.66 Ceiling R-19 to R-38 Insulation 2.94 Occupancy Sensor, 8-4' Fluorescent Fixtures	0.9% \$ 30.0% \$		20 12	50.0% 20.0%	20.0% 98.0%	10.0% 19.6%	0.015 0.882	1.21 2.94	0.00 0.17	0.01 0.88	\$1.61 \$0.04	\$2.22 \$0.04	F B	F B
SJI) Warehouse	Lighting_2L4T12	Electric		Existing	2.94 4' 1L T8 Premium, EB, reflector	61.1%	0.80	22	33.3%	100.0%	33.3%	1.797	2.94	0.60	1.80	\$0.05	\$0.05	С	С
SJI	Warehouse Warehouse	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		Existing Existing	2.94 4' 2L T8 Premium, EB 2.94 4' 1L T5HO, EB	25.0% \$ 13.9% \$		22 22	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	0.735 0.409	2.94 2.94	0.25 0.14	0.74 0.41	\$0.05 \$0.07	\$0.05 \$0.07	C D	C D
) Warehouse) Warehouse	Lighting_2L4T12	Electric Electric		Existing Existing	2.94 Continuous Dimming, 10-4' Fluorescent Fixtures 2.36 Occupancy Sensor, 8-4' Fluorescent Fixtures	75.0% \$		16 12	40.0% 20.0%	100.0% 98.0%	40.0% 19.6%	2.205 0.708	2.94 2.36	0.88 0.14	2.21 0.71	\$0.10 \$0.05	\$0.10 \$0.05	F C	F C
SJI		Lighting_2L4T8 Lighting_2L4T8	Electric		Existing	2.36 Occupancy Sensor, 8-4° Fluorescent Fixtures 2.36 4' 2L T8 Premium, EB	8.5% \$	0.13	22	100.0%	100.0%	100.0%	0.708	2.36	0.14	0.71	\$0.05 \$0.07	\$0.05	D	D
SJI SJI) Warehouse) Warehouse	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	2.94 8' 2L T8, EB 2.94 8' 1L T12. 60W. EB, reflector	52.8% \$ 55.3% \$		22 22	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	1.552 1.626	2.94 2.94	0.78 0.41	1.55 1.63	\$0.01 \$0.03	\$0.01 \$0.03	A A	A
SJI) Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94 8' 2L T12, 60W, EB	10.6%	0.10	22	25.0%	84.7%	21.2%	0.311	2.94	0.07	0.31	\$0.03	\$0.03	В	В
	Warehouse Warehouse	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		Existing Existing	2.94 Occupancy Sensor, 4-8' Fluorescent Fixtures 2.94 Continuous Dimming, 5-8' Fluorescent Fixtures	30.0% \$ 75.0% \$		12 16	20.0% 40.0%	98.0% 100.0%	19.6% 40.0%	0.882 2.205	2.94 2.94	0.17 0.88	0.88 2.21	\$0.05 \$0.13	\$0.05 \$0.13	C F	C F
SJI) Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94 4' 1L T5HO, EB	46.1% \$	0.01	22	75.0%	100.0%	75.0%	1.355	2.94	1.02	1.35	\$0.00	\$0.00	A	A
SJI SJI) Warehouse) Warehouse	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		Existing Existing	2.94 4' 3L T8, EB 2.94 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		22 22	75.0% 40.0%	100.0% 100.0%	75.0% 40.0%	0.665 1.559	2.94 2.94	0.50 0.62	0.66 1.56	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
	Warehouse	Lighting_3L4T12	Electric		Existing	2.94 4' 3L T8 Premium, EB	22.6% \$		22	75.0%	100.0%	75.0%	0.665	2.94	0.50	0.66	\$0.00	\$0.00	A	A
	Warehouse Warehouse	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		Existing Existing	2.36 4' 3L T8 Premium, EB 2.94 4' 3L T8, EB	6.7% \$ 38.2% \$		22 22	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.158 1.123	2.36 2.94	0.16 0.19	0.16 1.12	\$0.14 \$0.00	\$0.14 \$0.00	A	A
SJI) Warehouse) Warehouse	Lighting_4L4T12	Electric		Existing	2.94 4' 3L T8 Premium, EB 2.94 4' 4L T8. EB	42.4% \$		22	16.7% 16.7%	100.0% 100.0%	16.7%	1.245 0.653	2.94 2.94	0.21	1.25 0.65	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
) Warehouse	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		Existing Existing	2.94 4 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$		22 22	16.7%	100.0%	16.7% 16.7%	1.838	2.94	0.11	1.84	\$0.02	\$0.02	A	A
	Warehouse Warehouse	Lighting_4L4T12	Electric Electric		Existing Existing	2.94 4' 2L T5HO, EB 2.94 4' 4L T8 Premium. EB	18.8% \$ 25.0% \$		22 22	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	0.551 0.735	2.94 2.94	0.09	0.55 0.74	\$0.03 \$0.03	\$0.03 \$0.03	A B	A B
SJI		Lighting_4L4T12 Lighting_4L4T12	Electric		Existing	2.94 Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	0.26	12	20.0%	98.0%	19.6%	0.882	2.94	0.17	0.88	\$0.04	\$0.04	В	В
) Warehouse) Warehouse	Lighting_4L4T12 Lighting_4L4T8	Electric Electric		Existing Existing	2.94 Continuous Dimming, 5-4' Fluorescent Fixtures 2.36 Occupancy Sensor, 4-4' Fluorescent Fixtures	75.0% \$ 30.0% \$		16 12	40.0% 20.0%	100.0% 98.0%	40.0% 19.6%	2.205 0.708	2.94 2.36	0.88	2.21 0.71	\$0.11 \$0.05	\$0.11 \$0.05	F C	F C
SJI) Warehouse	Lighting_4L4T8	Electric	Stock	Existing	2.36 4' 4L T8 Premium, EB	3.6%	0.15	22	100.0%	100.0%	100.0%	0.085	2.36	0.08	0.08	\$0.18	\$0.18	F	F
SJI SJI	Warehouse Warehouse	Lighting_INC150W Lighting_INC150W	Electric Electric		Existing Existing	2.94 Halogen PAR Flood, 90W 2.94 HPS, 50W	40.0% \$ 56.0% \$		1 7	10.0% 45.0%	100.0% 90.2%	10.0% 40.6%	1.176 1.646	2.94 2.94	0.12	1.18 1.65	\$0.10 \$0.34	\$0.10 \$0.34	E F	E F
SJI) Warehouse	Lighting_INC150W	Electric	Stock	Existing	2.94 Metal Halide, 50W	52.0% \$	5.28	7	45.0%	90.2%	40.6%	1.529	2.94	0.62	1.53	\$0.71	\$0.71	F	F
	Warehouse Warehouse	Lighting_INC40W Lighting_INC75W	Electric Electric		Existing Existing	2.94 LED Exit Signs 2.94 CFL Screw-in, Modular 18W	80.0% \$ 65.3% \$		20 6	90.0% 90.0%	90.0% 88.7%	81.0% 79.8%	2.352 1.920	2.94 2.94	1.91 1.53	2.35 1.92	\$0.00 \$0.16	\$0.00 \$0.16	A F	A F
SJI) Warehouse	Plug_Load	Electric	Stock	Existing	0.15 Smart Networks	7.8% \$	0.00	4	90.0%	40.0%	36.0%	0.012	0.15	0.00	0.01	\$0.11	\$0.11	F	F
SJI SJI	Warehouse Warehouse	Plug_Load Plug_Load	Electric Electric		Existing Existing	0.15 ENERGY STAR or Better Office Equipment: Monitors 0.15 ENERGY STAR or Better Office Equipment: Copiers	18.6% \$ 7.1% \$		4	100.0% 100.0%	71.0% 65.0%	71.0% 65.0%	0.028 0.011	0.15 0.13	0.02 0.01	0.03 0.01	\$0.58 \$0.66	\$0.59 \$0.78	F	F
	Warehouse	Plug_Load	Electric		Existing	D.15 ENERGY STAR or Better Office Equipment: Computer D.15 ENERGY STAR or Better Office Equipment: Printers	21.0% \$		4	100.0%	65.0%	65.0%	0.031 0.017	0.12	0.02	0.03	\$1.02	\$1.27	F	F
	Warehouse Warehouse	Plug_Load Space_Heat	Electric Electric		Existing Existing	4.02 Duct Repair and Sealing	11.4% \$		20	100.0% 25.0%	65.0% 50.0%	65.0% 12.5%	0.017	0.10 4.02	0.01 0.01	0.01 0.08	\$1.20 \$0.00	\$1.73 \$0.00	A	A
SJI) Warehouse) Warehouse	Space_Heat Space Heat	Electric Electric		Existing Existing	4.02 Duct Insulation 4.02 Clock / Programmable Thermostat	2.0% \$		20 10	25.0% 100.0%	62.3% 41.8%	15.6% 41.8%	0.080 1.206	4.01 4.00	0.01 0.50	0.08 1.20	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
SJI) Warehouse	Space_Heat	Electric		Existing	4.02 Ceiling R-0 to R-19 Insulation	7.0% \$	0.23	20	50.0%	33.7%	16.8%	0.281	3.50	0.04	0.24	\$0.09	\$0.10	Ē	Ê
	Warehouse Warehouse	Space_Heat Space Heat	Electric Electric		Existing Existing	4.02 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.02 Ceiling R-19 to R-38 Insulation	5.0% \$		15 20	50.0% 50.0%	100.0% 33.7%	50.0% 16.8%	0.201 0.121	3.45 3.37	0.09	0.17	\$0.17 \$0.20	\$0.20 \$0.24	F	F
SJI) Warehouse	Water_Heat	Electric	Stock	Existing	0.42 Hot Water (SHW) Pipe Insulation	5.0% \$	0.00	15	50.0%	95.2%	47.6%	0.021	0.42	0.01	0.02	\$0.01	\$0.01	A	A
) Warehouse) Warehouse	Water_Heat Water Heat	Electric Flectric		Existing Existing	0.42 Heat Pump Water Heater 0.42 Demand controlled circulating systems	30.0% \$ 5.0% \$		15 15	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%	0.126 0.021	0.41 0.32	0.09 0.01	0.12 0.02	\$0.10 \$0.98	\$0.11 \$1.29	F	F F
	S Grocery	Cooling_Chillers	Electric		New	4.1 EMS Optimization	1.0% \$	-	5	100.0%	50.0%	50.0%	0.041	4.10	0.02	0.04	\$0.00	\$0.00	A	A
	S Grocery S Grocery	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	4.1 High Efficiency Windows, Low-e; U=0.35 4.1 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	5.4% \$ 7.5% \$		30 15	75.0% 67.0%	100.0% 90.0%	75.0% 60.3%	0.221	4.08 3.91	0.17 0.18	0.22 0.29	\$0.01 \$0.05	\$0.01 \$0.05	A C	C
MF	S Grocery S Grocery	Cooling_Chillers	Electric Electric	Stock	New New	4.1 Primary/Secondary De-coupled Chilled Water System 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% \$ 10.0% \$		15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.492 0.410	3.74 3.56	0.18 0.18	0.45 0.36	\$0.12 \$0.12	\$0.13 \$0.14	F	F
MP	S Grocery	Cooling_Chillers Cooling_Chillers	Electric		New	4.1 Installation of Automated Building Vertilation Control (via Occupancy Sensors, CO2 Sensors, Etc.) 4.1 Optimize Chilled Water and Condenser Water Settings	5.0%		10	33.0%	50.0%	16.5%	0.205	3.38	0.18		\$0.12	\$0.14	F	F
	S Grocery S Grocery	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	4.1 Cool Roofs (Reflective and Spray Evaporative) 4.1 Ceiling R-19 to R-38 Insulation	4.3% \$ 0.9% \$		10 20	90.0% 50.0%	100.0% 20.0%	90.0% 10.0%	0.176 0.037	3.35 3.22	0.13	0.14 0.03	\$0.42 \$0.69	\$0.52 \$0.88	F	F F
MF	S Grocery	Cooling_Chillers	Electric	Stock	New	4.1 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	1.31	20	50.0%	90.0%	45.0%	0.108	3.22	0.04	0.08	\$1.29	\$1.64	F	F
	S Grocery S Grocery	Cooling_DX Cooling_DX	Electric Electric		New New	 4.1 High Efficiency Windows, Low-e; U=0.35 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	5.0% \$ 10.0% \$		30 10	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%	0.205 0.410	4.10 3.95	0.15 0.20	0.21 0.39	\$0.03 \$0.12	\$0.03 \$0.13	B F	B F
MF	S Grocery	Cooling_DX	Electric	Stock	New	4.1 DX Tune-Up / Diagnostics	10.0% \$	0.25	3	100.0%	10.0%	10.0%	0.410	3.75	0.04	0.37	\$0.26	\$0.29	F	F
	S Grocery S Grocery	Cooling_DX Cooling_DX	Electric Electric		New New	4.1 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 4.1 Cool Roofs (Reflective and Spray Evaporative)	10.0% \$ 4.3% \$		10 10	25.0% 50.0%	95.0% 100.0%	23.8% 50.0%	0.410 0.176	3.71 3.62	0.09 0.08		\$0.37 \$0.42	\$0.40 \$0.48	F	F
	S Grocery S Grocery	Cooling_DX Cooling_DX	Electric Electric		New New	4.1 Ceiling R-19 to R-38 Insulation 4.1 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% \$ 2.6% \$		20 20	50.0% 50.0%	20.0% 90.0%	10.0% 45.0%	0.037 0.108	3.55 3.54	0.00 0.04	0.03 0.09	\$0.69 \$1.29	\$0.80 \$1.49	F	F
MF	S Grocery	Cooling_HeatPump	Electric	Stock	New	4.1 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.07	30	75.0%	100.0%	75.0%	0.205	4.10	0.15	0.21	\$0.03	\$0.03	В	В
	S Grocery S Grocery	Cooling_HeatPump Cooling HeatPump	Electric Electric		New New	 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) DX Tune-Up / Diagnostics 	10.0% \$		10 3	50.0% 100.0%	100.0% 10.0%	50.0% 10.0%	0.410 0.410	3.95 3.75	0.20	0.39 0.37	\$0.12 \$0.26	\$0.13 \$0.29	F F	F F
MF	S Grocery	Cooling_HeatPump	Electric	Stock	New	4.1 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	0.94	10	25.0%	95.0%	23.8%	0.410	3.71	0.09	0.37	\$0.37	\$0.40	F	F
	S Grocery S Grocery	Cooling_HeatPump Cooling_HeatPump	Electric Electric		New New	4.1 Cool Roofs (Reflective and Spray Evaporative) 4.1 Ceiling R-19 to R-38 Insulation	4.3% \$ 0.9% \$		10 20	50.0% 50.0%	100.0% 20.0%	50.0% 10.0%	0.176 0.037	3.62 3.55	0.08	0.16 0.03	\$0.42 \$0.69	\$0.48 \$0.80	F	F
MF	S Grocery	Cooling_HeatPump	Electric		New	4.1 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 12.76 4* 1L T8 Premium. EB. reflector	2.6% \$		20	50.0% 33.3%	90.0%	45.0%	0.108	3.54 12.76	0.04	0.09	\$1.29	\$1.49	F	F
MF	S Grocery S Grocery	Lighting_2L4T12 Lighting_2L4T12	Electric		New New	12.76 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$	0.76	12 12	33.3%	100.0% 100.0%	33.3% 33.3%	7.798 3.190	12.76	2.60 1.06	3.19	\$0.03 \$0.03	\$0.03 \$0.03	A B	A B
	S Grocery S Grocery	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		New New	12.76 4' 1L T5HO, EB 12.76 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% \$ 75.0% \$		12 8	33.3% 26.0%	100.0% 100.0%	33.3% 26.0%	1.774 9.570	12.76 12.76	0.59 2.49	1.77 9.57	\$0.05 \$0.07	\$0.05 \$0.07	C	C
MF	S Grocery	Lighting_2L4T8	Electric	Stock	New	10.21 4' 2L T8 Premium, EB	8.5% \$	0.26	12	100.0%	100.0%	100.0%	0.868	10.21	0.87	0.87	\$0.04	\$0.04	В	В
	S Grocery S Grocery	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	12.76 8' 2L T8, EB 12.76 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$		12 12	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	6.737 7.056	12.76 12.76	3.37 1.76	6.74 7.06	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MF	S Grocery	Lighting_2L8T12	Electric	Stock	New	12.76 8' 2L T12, 60W, EB	10.6%	0.18	12	25.0%	54.2%	13.6%	1.349	12.76	0.18	1.35	\$0.02	\$0.02	A	A
MF MF	S Grocery S Grocery	Lighting_2L8T12 Lighting_3L4T12	Electric Electric		New New	12.76 Continuous Dimming, 5-8' Fluorescent Fixtures 12.76 4' 1L T5HO, EB	75.0% \$ 46.1% \$		8 12	26.0% 25.0%	100.0% 100.0%	26.0% 25.0%	9.570 5.881	12.76 12.76	2.49 1.47	9.57 5.88	\$0.08 \$0.00	\$0.08 \$0.00	E A	E A
MF	S Grocery S Grocery	Lighting_3L4T12	Electric Electric	Stock	New New	12.76 4' 3L T8, EB 12.76 4' 2L T8 Premium. EB. reflector	22.6% \$ 53.0% \$		12 12		100.0% 100.0%	25.0% 25.0%	2.885 6.768	12.76 12.76	0.72 1.69	2.88	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
MF	S Grocery	Lighting_3L4T12 Lighting_3L4T12	Electric		New	12.76 4' 3L T8 Premium, EB	22.6%	0.16	12	25.0%	100.0%	25.0%	2.885	12.76	0.72	2.88	\$0.01	\$0.01	Α	A A
MF	S Grocery S Grocery	Lighting_3L4T8 Lighting_4L4T12	Electric Electric	Stock	New New	10.21 4' 3L T8 Premium, EB 12.76 4' 3L T8, EB	6.7% \$ 38.2% \$	0.42	12 12		100.0% 100.0%	100.0% 16.7%	0.684 4.874	10.21 12.76	0.68 0.81	0.68 4.87	\$0.09 \$0.00	\$0.09 \$0.00	E A	E
MF	S Grocery	Lighting_4L4T12	Electric	Stock	New	12.76 4' 3L T8 Premium, EB	42.4% \$	0.31	12	16.7%	100.0%	16.7%	5.405	12.76	0.90	5.41	\$0.01	\$0.01	Α	Ä
	S Grocery S Grocery	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	12.76 4' 4L T8, EB 12.76 4' 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	2.836 7.975	12.76 12.76	0.47 1.33		\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MF	S Grocery	Lighting_4L4T12	Electric	Stock	New	12.76 4' 2L T5HO, EB	18.8% \$	0.29	12	16.7%	100.0%	16.7%	2.393	12.76	0.40	2.39	\$0.02	\$0.02	Α	Ä
	S Grocery S Grocery	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	12.76 4' 4L T8 Premium, EB 12.76 Continuous Dimming, 5-4' Fluorescent Fixtures	25.0% \$ 75.0% \$		12 8	16.7% 26.0%	100.0% 100.0%	16.7% 26.0%	3.190 9.570	12.76 12.76	0.53 2.49		\$0.02 \$0.08	\$0.02 \$0.08	A E	A E
MF	S Grocery	Lighting_4L4T8	Electric	Stock	New	10.21 4' 4L T8 Premium, EB	3.6% \$	0.30	12	100.0%	100.0%	100.0%	0.368	10.21	0.37	0.37	\$0.11	\$0.11	F	F
MF	S Grocery S Grocery	Lighting_INC150W Plug_Load	Electric Electric		New New	12.76 HPS, 50W 0.41 Smart Networks	56.0% \$ 6.6% \$		4	45.0% 90.0%	94.3% 40.0%	42.4% 36.0%		12.76 0.41	3.03 0.01	0.03	\$0.41 \$0.01	\$0.41 \$0.01	F A	F A
	S Grocery	Plug_Load	Electric	Stock	New	0.41 ENERGY STAR or Better Office Equipment: Monitors	15.9%	0.01	4	100.0%	71.0%	71.0%	0.065	0.40	0.05	0.06	\$0.03	\$0.03	Α	В

Area Building	Type End-Use	1	Fuel Efficier	ncy Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
MPS Grocery	Plug_Load		ectric Stock	New	0.41 ENERGY STAR or Better Office Equipment: Computer	17.9% 13.0%		4	100.0%	65.0%	65.0%	0.073 0.053	0.36	0.04	0.06	\$0.05	\$0.06 \$0.10	C D	D
MPS Grocery MPS Grocery	Plug_Load Plug_Load		ectric Stock ectric Stock	New New	0.41 ENERGY STAR or Better Office Equipment: Printers 0.41 ENERGY STAR or Better Office Equipment: Copiers	9.7%		4	100.0% 100.0%	99.0% 33.0%	99.0% 33.0%		0.31 0.27	0.04 0.01	0.04 0.03	\$0.07 \$0.10			E F
MPS Grocery MPS Grocery	Refrigeration Refrigeration		ectric Stock	New New	28.13 Night Covers for Display Cases 28.13 Anti-Sweat (Humidistat) Controls	5.8%		5 12	50.0% 100.0%	95.0% 48.0%	47.5% 48.0%	1.631	28.13 27.36	0.77	1.63	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Grocery	Refrigeration		ectric Stock	New	28.13 Demand Control Defrost - Electric	7.8%	0.04	10	100.0%	48.0%	48.0%	2.184	26.70	0.99	2.07	\$0.00	\$0.00	Ä	Ä
MPS Grocery MPS Grocery	Refrigeration Refrigeration		ectric Stock ectric Stock	New New	28.13 Installation of Floating Condenser Head Pressure Controls 28.13 Strip Curtains for Walk-Ins	6.8% 4.0%		14 4	100.0% 100.0%	44.4% 30.0%	44.4% 30.0%	1.921 1.132	25.71 24.93	0.78 0.30	1.76 1.00	\$0.01 \$0.01	\$0.01 \$0.02	A A	A
MPS Grocery	Refrigeration	Ele	ectric Stock	New	28.13 Demand Control Defrost - Hot Gas	2.5%	0.07	10	100.0%	69.6%	69.6%	0.705	24.63	0.43	0.62	\$0.01	\$0.02	Α	Ä
MPS Grocery MPS Grocery	Refrigeration Refrigeration		ectric Stock ectric Stock	New New	28.13 Refrigeration Commissioning 28.13 Compressor VSD retrofit	5.0% 6.2%		3 10	100.0% 50.0%	50.0% 95.0%	50.0% 47.5%	1.407 1.745	24.20 23.59	0.60 0.69	1.21 1.46	\$0.02 \$0.04	\$0.02 \$0.04	A B	A B
MPS Grocery	Refrigeration	Ele	ectric Stock	New	28.13 High Efficiency Case Fans	12.0%	1.16	16	100.0%	95.0%	95.0%	3.370	22.90	2.61	2.74	\$0.04	\$0.05	В	Ċ
MPS Grocery MPS Grocery	Refrigeration Space Heat		ectric Stock ectric Stock	New New	28.13 Reduced Speed or Cycling of Evaporator Fans 5.42 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	0.6% 5.0%		5 15	100.0% 50.0%	80.0% 100.0%	80.0% 50.0%	0.155 0.271	20.29 5.42		0.11 0.27	\$0.16 \$0.13	\$0.22 \$0.13	F	F
MPS Grocery	Space_Heat Space_Heat		ectric Stock	New	5.42 Ceiling R-19 to R-38 Insulation 5.42 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	3.0% 2.6%	0.24	20 20	50.0% 50.0%	85.0% 90.0%	42.5% 45.0%	0.163 0.143	5.28 5.22	0.07 0.06	0.16 0.14	\$0.16 \$0.98	\$0.16 \$1.01	F	F
MPS Grocery MPS Grocery	Water_Heat		ectric Stock ectric Stock	New New	2.4 Heat Pump Water Heater	30.0%	0.84	15	75.0%	100.0%	75.0%	0.720	2.40	0.54	0.72	\$0.14	\$0.14	F	F
MPS Grocery MPS Health	Water_Heat Cooling_Chiller		ectric Stock ectric Stock	New New	2.4 Demand controlled circulating systems 3.36 EMS Optimization	5.0% 1.0%		15 5	50.0% 100.0%	100.0% 50.0%	50.0% 50.0%		1.86 3.36	0.05 0.02	0.09 0.03	\$1.35 \$0.00		F A	F A
MPS Health	Cooling_Chiller	s Ele	ectric Stock	New	3.36 High Efficiency Windows, Low-e; U=0.35	1.2%	0.01	30	75.0%	66.0%	49.5%	0.039	3.34	0.02	0.04	\$0.03	\$0.03	В	В
MPS Health MPS Health	Cooling_Chiller Cooling Chiller		ectric Stock ectric Stock	New New	3.36 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F 3.36 Primary/Secondary De-coupled Chilled Water System	7.5% 12.0%		15 15	67.0% 50.0%	90.0% 80.0%	60.3% 40.0%	0.252 0.403	3.32 3.17	0.15 0.15	0.25 0.38	\$0.08 \$0.21	\$0.08 \$0.22	E F	E F
MPS Health	Cooling_Chiller	s Ele	ectric Stock	New	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.44	10		100.0%	50.0%	0.336	3.02		0.30	\$0.21	\$0.23	F	F
MPS Health MPS Health	Cooling_Chiller Cooling_Chiller		ectric Stock ectric Stock	New New	3.36 Optimize Chilled Water and Condenser Water Settings 3.36 Ceiling R-19 to R-38 Insulation	5.0% 0.9%		10 20	33.0% 50.0%	50.0% 20.0%	16.5% 10.0%	0.168 0.030	2.87 2.85	0.02	0.14 0.03	\$0.28 \$0.75	\$0.33 \$0.89	F	F
MPS Health MPS Health	Cooling_Chiller Cooling_Chiller	s Ele	ectric Stock ectric Stock	New New	3.36 Cool Roofs (Reflective and Spray Evaporative) 3.36 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.6% 2.6%	0.16	10 20	90.0% 50.0%	100.0% 90.0%	90.0% 45.0%	0.021 0.088	2.84 2.83	0.02	0.02 0.07	\$1.17 \$1.57	\$1.38 \$1.87	F	F
MPS Health	Cooling_DX	Ele	ectric Stock	New	3.36 High Efficiency Windows, Low-e; U=0.35	5.0%	0.03	30	75.0%	66.0%	49.5%	0.168	3.36	0.08	0.17	\$0.02	\$0.02	Α	A
MPS Health MPS Health	Cooling_DX Cooling_DX		ectric Stock	New New	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.36 DX Tune-Up / Diagnostics	10.0%		10 3	50.0% 100.0%	100.0% 10.0%	50.0% 10.0%	0.336 0.336	3.28 3.11	0.16	0.33 0.31	\$0.21 \$0.44	\$0.21 \$0.48	F F	F F
MPS Health	Cooling_DX	Ele	ectric Stock	New	3.36 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	1.31	10	25.0%	95.0%	23.8%	0.336	3.08	0.07	0.31	\$0.62	\$0.67	F	F
MPS Health MPS Health	Cooling_DX Cooling_DX		ectric Stock ectric Stock	New New	3.36 Ceiling R-19 to R-38 Insulation 3.36 Cool Roofs (Reflective and Spray Evaporative)	0.9%		20 10	50.0% 50.0%	20.0% 100.0%	10.0% 50.0%	0.030 0.021	3.01 3.01	0.00 0.01	0.03 0.02	\$0.75 \$1.17	\$0.84 \$1.30	F	F
MPS Health MPS Health	Cooling_DX		ectric Stock	New	3.36 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	1.31	20 30	50.0% 75.0%	90.0%	45.0%		3.00 3.36	0.04	0.08	\$1.57 \$0.02	\$1.76 \$0.02		F
MPS Health	Cooling_HeatP Cooling_HeatP		ectric Stock ectric Stock	New New	3.36 High Efficiency Windows, Low-e; U=0.35 3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%		10	75.0% 50.0%	100.0%	49.5% 50.0%	0.168	3.36	0.08 0.16	0.17	\$0.02 \$0.21	\$0.02	A F	F
MPS Health MPS Health	Cooling_HeatP Cooling_HeatP		ectric Stock	New New	3.36 DX Tune-Up / Diagnostics3.36 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% 10.0%		3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.336 0.336	3.11 3.08	0.03	0.31 0.31	\$0.44 \$0.62	\$0.48 \$0.67	F	F
MPS Health	Cooling_HeatP		ectric Stock	New	3.36 Ceiling R-19 to R-38 Insulation	0.9%	0.21	20	50.0%	20.0%	10.0%	0.030	3.01	0.00	0.03	\$0.75	\$0.84	F	F
MPS Health MPS Health	Cooling_HeatP Cooling_HeatP		ectric Stock ectric Stock	New New	3.36 Cool Roofs (Reflective and Spray Evaporative) 3.36 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.6% 2.6%		10 20	50.0% 50.0%	100.0% 90.0%	50.0% 45.0%	0.021 0.088	3.01 3.00	0.01 0.04	0.02 0.08	\$1.17 \$1.57	\$1.30 \$1.76	F	F
MPS Health	Lighting_2L4T1	2 Ele	ectric Stock	New	10.77 4' 1L T8 Premium, EB, reflector	61.1%	1.54	12	33.3%	100.0%	33.3%	6.582	10.77	2.19	6.58	\$0.03	\$0.03	В.	В
MPS Health MPS Health	Lighting_2L4T1 Lighting_2L4T1		ectric Stock ectric Stock	New New	10.77 4' 2L T8 Premium, EB 10.77 4' 1L T5HO, EB	25.0% 13.9%		12 12	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%		10.77 10.77		2.69 1.50	\$0.04 \$0.05	\$0.04 \$0.05	B C	B C
MPS Health MPS Health	Lighting_2L4T1 Lighting_2L4T8	2 Ele	ectric Stock	New New	10.77 Continuous Dimming, 10-4' Fluorescent Fixtures 8.62 4' 2L T8 Premium, EB	75.0% 8.5%		8 12	10.0% 100.0%	100.0% 100.0%	10.0% 100.0%	8.078 0.733	10.77 8.62	0.81 0.73	8.08 0.73	\$0.09 \$0.05	\$0.09 \$0.05	E C	E C
MPS Health	Lighting_2L8T1	2 Ele	ectric Stock	New	10.77 8' 2L T8, EB	52.8%	0.35	12	50.0%	100.0%	50.0%	5.687	10.77	2.84	5.69	\$0.01	\$0.01	A	A
MPS Health MPS Health	Lighting_2L8T1 Lighting_2L8T1	2 Ele 2 Fle	ectric Stock ectric Stock	New New	10.77 8' 1L T12, 60W, EB, reflector 10.77 8' 2L T12, 60W, EB	55.3% 10.6%		12 12		100.0% 50.0%	25.0% 12.5%	5.956 1.138	10.77 10.77		5.96 1.14	\$0.02 \$0.02			A A
MPS Health	Lighting_2L8T1	2 Ele	ectric Stock	New	10.77 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	3.99	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	\$0.09	\$0.09	E	Ē
MPS Health MPS Health	Lighting_3L4T1 Lighting_3L4T1		ectric Stock ectric Stock	New New	10.77 4' 1L T5HO, EB 10.77 4' 3L T8, EB	46.1% 22.6%		12 12		100.0% 100.0%	25.0% 25.0%	4.964 2.435	10.77 10.77	1.24 0.61	4.96 2.43	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS Health MPS Health	Lighting_3L4T1 Lighting_3L4T1	2 Ele	ectric Stock ectric Stock	New New	10.77 4' 2L T8 Premium, EB, reflector 10.77 4' 3L T8 Premium, EB	53.0% 22.6%		12 12	25.0% 25.0%	100.0% 100.0%	25.0% 25.0%		10.77 10.77		5.71 2.43	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
MPS Health	Lighting_3L4T8	Ele	ectric Stock	New	8.62 4' 3L T8 Premium, EB	6.7%	0.42	12	100.0%	100.0%	100.0%	0.578	8.62	0.58	0.58	\$0.10	\$0.10	F	F
MPS Health MPS Health	Lighting_4L4T1 Lighting_4L4T1		ectric Stock ectric Stock	New New	10.77 4' 3L T8, EB 10.77 4' 3L T8 Premium, EB	38.2% 42.4%		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	4.114 4.562	10.77 10.77	0.69 0.76	4.11 4.56	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
MPS Health	Lighting_4L4T1	2 Ele	ectric Stock	New	10.77 4' 4L T8, EB	22.2%	0.20	12	16.7%	100.0%	16.7%	2.393	10.77	0.40	2.39	\$0.01	\$0.01	Α	A
MPS Health MPS Health	Lighting_4L4T1 Lighting_4L4T1		ectric Stock ectric Stock	New New	10.77 4" 2L T8 Premium, EB, reflector 10.77 4" 2L T5HO, EB	62.5% 18.8%		12 12	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	6.731 2.019	10.77 10.77	1.12 0.34	6.73 2.02	\$0.02 \$0.02	\$0.02 \$0.02	A A	A A
MPS Health	Lighting_4L4T1	2 Ele	ectric Stock	New	10.77 4' 4L T8 Premium, EB	25.0%		12 8	16.7% 10.0%	100.0%	16.7%	2.693 8.078	10.77 10.77	0.45	2.69 8.08	\$0.03	\$0.03 \$0.09	A F	Α
MPS Health MPS Health	Lighting_4L4T1 Lighting_4L4T8		ectric Stock ectric Stock	New New	10.77 Continuous Dimming, 5-4' Fluorescent Fixtures 8.62 4' 4L T8 Premium, EB	75.0% 3.6%		12		100.0% 100.0%	10.0% 100.0%		8.62	0.81 0.31	0.00	\$0.09 \$0.13	\$0.09		E F
MPS Health MPS Health	Lighting_INC15 Plug_Load		ectric Stock	New New	10.77 HPS, 50W 0.52 Smart Networks	56.0% 6.4%		4	45.0% 90.0%	90.0% 40.0%	40.5% 36.0%	6.031 0.033	10.77 0.52		6.03 0.03	\$0.15 \$0.04	\$0.15 \$0.04	F B	F B
MPS Health	Plug_Load	Ele	ectric Stock	New	0.52 ENERGY STAR or Better Office Equipment: Monitors	15.4%	0.06	4	100.0%	71.0%	71.0%	0.080	0.51	0.06	0.08	\$0.23	\$0.23	Ē	Ē
MPS Health MPS Health	Plug_Load Plug_Load		ectric Stock ectric Stock	New New	0.52 ENERGY STAR or Better Office Equipment: Copiers 0.52 ENERGY STAR or Better Office Equipment: Computer	10.2% 17.4%		4	100.0% 100.0%	33.0% 65.0%	33.0% 65.0%	0.053 0.090	0.45 0.44	0.02 0.05	0.05 0.08	\$0.24 \$0.40	\$0.28 \$0.48	F F	F
MPS Health	Plug_Load	Ele	ectric Stock	New	0.52 ENERGY STAR or Better Office Equipment: Printers	13.2%	0.11	4	100.0%	99.0%	99.0%		0.39		0.05	\$0.53 \$0.14		F	F
MPS Health MPS Health	Space_Heat Space_Heat		ectric Stock ectric Stock	New New	4.96 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.96 Ceiling R-19 to R-38 Insulation	5.0% 3.0%	0.21	15 20	50.0%	100.0% 40.0%	50.0% 20.0%	0.149	4.96 4.84	0.12 0.03	0.25 0.15	\$0.14 \$0.15	\$0.14 \$0.16	F	F
MPS Health MPS Health	Space_Heat Water Heat	Ele	ectric Stock	New New	4.96 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 2.27 Heat Pump Water Heater	2.6% 30.0%		20 15	50.0% 75.0%	90.0% 100.0%	45.0% 75.0%	0.131 0.681	4.81 2.27	0.06 0.51	0.13 0.68	\$1.07 \$0.71	\$1.10 \$0.71	F	F
MPS Health	Water_Heat	Ele	ectric Stock	New	2.27 Demand controlled circulating systems	5.0%	6.20	15	50.0%	90.0%	45.0%	0.114	1.76	0.04	0.09	\$6.73	\$8.68	F	F
MPS Large_Off MPS Large_Off			ectric Stock ectric Stock	New New	4.19 EMS Optimization 4.19 High Efficiency Windows, Low-e; U=0.35	1.0% 9.3%		5 30	100.0% 75.0%	50.0% 99.4%	50.0% 74.6%	0.042 0.388	4.19 4.17	0.02	0.04 0.39	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
MPS Large_Off	ice Cooling_Chiller	s Ele	ectric Stock	New	4.19 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	0.11	15	67.0%	90.0%	60.3%	0.314	3.88	0.18	0.29	\$0.04	\$0.04	В	В
MPS Large_Off MPS Large_Off	ice Cooling_Chiller		ectric Stock ectric Stock	New New	4.19 Primary/Secondary De-coupled Chilled Water System4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%	0.29	15 10	50.0%	80.0% 100.0%	40.0% 50.0%	0.503 0.419	3.71 3.53	0.18	0.44 0.35	\$0.11 \$0.11	\$0.12 \$0.13	F	F
MPS Large_Off MPS Large_Off			ectric Stock	New New	4.19 Optimize Chilled Water and Condenser Water Settings 4.19 Ceiling R-19 to R-38 Insulation	5.0% 0.9%		10 20		50.0% 8.7%	16.5% 4.4%		3.35 3.32		0.17 0.03	\$0.15 \$0.46			F
MPS Large_Off	ice Cooling_Chiller	s Ele	ectric Stock	New	4.19 Cool Roofs (Reflective and Spray Evaporative)	1.8%	0.24	10	90.0%	100.0%	90.0%	0.076	3.32	0.05	0.06	\$0.49	\$0.62	F	F
MPS Large_Off MPS Large_Off			ectric Stock ectric Stock	New New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.19 Ceiling R-19 to R-38 Insulation	2.6% 0.9%		20 20	50.0% 50.0%	90.0% 8.7%	45.0% 4.4%		3.27 4.19		0.09 0.04	\$1.26 \$0.00			F A
MPS Large_Off	ice Cooling_DX	Ele	ectric Stock	New	4.19 High Efficiency Windows, Low-e; U=0.35	5.0%	0.15	30	75.0%	99.4%	74.6%	0.210	4.19	0.16	0.21	\$0.06	\$0.06	D	Ď
MPS Large_Off MPS Large_Off			ectric Stock ectric Stock	New New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.19 DX Tune-Up / Diagnostics	10.0% 10.0%		10 3	50.0% 100.0%	100.0% 10.0%	50.0% 10.0%	0.419 0.419		0.20 0.04	0.40 0.38	\$0.11 \$0.24	\$0.11 \$0.26	F F	F
MPS Large_Off	ice Cooling_DX	Ele	ectric Stock	New	4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	0.87	10 10	25.0%	95.0%	23.8%	0.419	3.79		0.38 0.07	\$0.33	\$0.36		F
MPS Large_Off MPS Large_Off	ice Cooling_DX	Ele	ectric Stock ectric Stock	New New	4.19 Cool Roofs (Reflective and Spray Evaporative) 4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.8% 2.6%	1.31	20	50.0%	100.0% 90.0%	50.0% 45.0%	0.110	3.67	0.03 0.04	0.10	\$0.49 \$1.26	\$1.44	F	F
MPS Large_Off MPS Large_Off	ice Cooling_HeatP		ectric Stock	New New	4.19 High Efficiency Windows, Low-e; U=0.354.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%		30 10		99.4% 100.0%	74.6% 50.0%			0.16 0.20	0.21 0.40	\$0.06 \$0.11	\$0.06 \$0.11	D F	D F
MPS Large_Off	ice Cooling_HeatP	ımp Ele	ectric Stock	New	4.19 DX Tune-Up / Diagnostics	10.0%	0.23	3	100.0%	10.0%	10.0%	0.419	3.83	0.04	0.38	\$0.24	\$0.26	F	F
MPS Large_Off MPS Large_Off				New New	4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 4.19 Ceiling R-19 to R-38 Insulation	10.0%		10 20		95.0% 8.7%	23.8% 4.4%		3.79 3.70	0.09	0.38	\$0.33 \$0.46			F F
MPS Large_Off		ımp Ele	ectric Stock	New	4.19 Cool Roofs (Reflective and Spray Evaporative)	1.8%		10		100.0%	50.0%				0.07	\$0.49			F

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Are	a Building Type	End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Applicability (Feas Factor *	Stand Alone	Adjusted Base	Stacked Savings	Stacked Savings Full	Stand-alone Marginal	Marginal Energy	Stand Alone Cost Group	
							Savings	Cost	Lile	racioi	racioi	Incomp Factor)	Savings	Dase	Savings	App	Energy Cost	Cost	Cost Group	Group
MP	Large_Office	Cooling_HeatPump	Electric		New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$	1.31	20		90.0%	45.0%	0.110	3.67	0.04	0.10	\$1.26	\$1.44	F	F
	Large_Office Large_Office	Lighting_2L4T12 Lighting_2L4T12	Electric	Stock Stock	New New	5.29 4' 1L T8 Premium, EB, reflector 5.29 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$		16 16		100.0% 100.0%	33.3% 33.3%	3.233 1.323	5.29 5.29	1.08 0.44	3.23 1.32	\$0.06 \$0.07	\$0.06 \$0.07	C D	C D
MP	Large_Office	Lighting_2L4T12	Electric	Stock	New	5.29 4' 1L T5HO, EB	13.9% \$	0.59	16	33.3%	100.0%	33.3%	0.735	5.29	0.25	0.74	\$0.09	\$0.09	E	E
	Large_Office Large_Office	Lighting_2L4T12 Lighting_2L4T8	Electric		New New	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures 4.24 4' 2L T8 Premium, EB	75.0% \$ 8.5% \$		11 16		100.0% 100.0%	40.0% 100.0%	3.968 0.360	5.29 4.24	1.59 0.36	3.97 0.36	\$0.14 \$0.09	\$0.14 \$0.09	F E	F
MP	Large_Office	Lighting_2L8T12	Electric	Stock	New	5.29 8' 2L T8, EB	52.8% \$	0.36	16	50.0%	100.0%	50.0%	2.793	5.29	1.40	2.79	\$0.02	\$0.02	Α	Ā
	Large_Office Large Office	Lighting_2L8T12	Electric	Stock	New New	5.29 8' 1L T12, 60W, EB, reflector 5.29 8' 2L T12, 60W, EB	55.3% \$ 10.6% \$		16 16		100.0% 26.6%	25.0% 6.6%	2.925 0.559	5.29 5.29	0.73	2.93 0.56	\$0.03 \$0.04	\$0.03 \$0.04	B B	В
	Large_Office	Lighting_2L8T12 Lighting_2L8T12	Electric		New	5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0% \$		11		100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.04	\$0.04	F	F
	Large_Office	Lighting_3L4T12	Electric		New New	5.29 4' 1L T5HO, EB 5.29 4' 3L T8. EB	46.1% \$ 22.6% \$		16 16		100.0% 100.0%	25.0% 25.0%	2.438 1.196	5.29 5.29	0.61 0.30	2.44 1.20	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
	Large_Office Large_Office	Lighting_3L4T12 Lighting_3L4T12	Electric		New	5.29 4' 2L T8 Premium, EB, reflector	53.0% \$		16		100.0%	25.0%	2.806	5.29	0.30		\$0.00	\$0.00	A	A A
MP	Large_Office	Lighting_3L4T12	Electric		New	5.29 4' 3L T8 Premium, EB	22.6% \$		16		100.0%	25.0%	1.196	5.29	0.30		\$0.01	\$0.01	A	A
	Large_Office Large_Office	Lighting_3L4T8 Lighting_4L4T12	Electric	Stock Stock	New New	4.24 4' 3L T8 Premium, EB 5.29 4' 3L T8, EB	6.7% \$ 38.2% \$		16 16		100.0% 100.0%	100.0% 16.7%	0.284 2.021	4.24 5.29	0.28	0.28 2.02	\$0.18 \$0.01	\$0.18 \$0.01	A	A
MP	Large_Office	Lighting_4L4T12	Electric	Stock	New	5.29 4' 3L T8 Premium, EB	42.4% \$	0.32	16	16.7%	100.0%	16.7%	2.241	5.29	0.37	2.24	\$0.02	\$0.02	Α	Α
	Large_Office Large Office	Lighting_4L4T12 Lighting_4L4T12	Electric		New New	5.29 4' 4L T8, EB 5.29 4' 2L T8 Premium. EB. reflector	22.2% \$ 62.5% \$		16 16		100.0% 100.0%	16.7% 16.7%	1.176 3.306	5.29 5.29	0.20 0.55	1.18 3.31	\$0.02 \$0.03	\$0.02 \$0.03	A A	A
MP	Large_Office	Lighting_4L4T12	Electric		New	5.29 4' 2L T5HO, EB	18.8% \$		16		100.0%	16.7%	0.992	5.29	0.17	0.99	\$0.03	\$0.03	В	В
	Large_Office Large_Office	Lighting_4L4T12 Lighting_4L4T12	Electric		New New	5.29 4' 4L T8 Premium, EB 5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	25.0% \$ 75.0% \$		16 11		100.0% 100.0%	16.7% 40.0%	1.323 3.968	5.29 5.29	0.22 1.59	1.32 3.97	\$0.04 \$0.15	\$0.04 \$0.15	B F	B F
	Large_Office	Lighting_4L4T8		Stock	New	4.24 4' 4L T8 Premium, EB	3.6% \$	0.30	16	100.0%	100.0%	100.0%	0.153	4.24	0.15	0.15	\$0.24	\$0.24	F	F
	Large_Office	Lighting_INC150W	Electric		New New	5.29 HPS, 50W 1.59 Smart Networks	56.0% \$ 9.1% \$		6 4		93.9% 40.0%	42.2% 36.0%	2.962 0.145	5.29 1.59	1.25 0.05	2.96 0.15	\$0.38 \$0.02	\$0.38 \$0.02	F A	F
MP	Large_Office Large_Office	Plug_Load Plug_Load	Electric	Stock	New	1.59 ENERGY STAR or Better Office Equipment: Monitors	21.9% \$	0.09	4	100.0%	71.0%	71.0%	0.349	1.54	0.24	0.34	\$0.09	\$0.09	Ē	Ê
MP	Large_Office	Plug_Load	Electric		New New	1.59 ENERGY STAR or Better Office Equipment: Copiers 1.59 ENERGY STAR or Better Office Equipment: Computer	4.8% \$ 24.7% \$		4	100.0%	33.0% 65.0%	33.0% 65.0%	0.077 0.393	1.30	0.02 0.21	0.06 0.32	\$0.14 \$0.15	\$0.18 \$0.19	F	F
	Large_Office Large_Office	Plug_Load Plug_Load	Electric		New	1.59 ENERGY STAR or Better Office Equipment: Computer 1.59 ENERGY STAR or Better Office Equipment: Printers	24.7% \$ 8.0% \$		4		99.0%	99.0%	0.393	1.28 1.07	0.21	0.32	\$0.15 \$0.26	\$0.19	F	F
MP	Large_Office	Space_Heat	Electric		New	6.18 Ceiling R-19 to R-38 Insulation	3.0% \$		20		12.9%	6.5%	0.185	6.18	0.01	0.19	\$0.09	\$0.09	E	E
	Large_Office Large_Office	Space_Heat Space_Heat	Electric Electric		New New	6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 6.18 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	5.0% \$ 2.6% \$		15 20		100.0% 90.0%	50.0% 45.0%	0.309 0.163	6.17 6.01	0.15 0.07	0.31 0.16	\$0.11 \$0.86	\$0.11 \$0.88	F	F
MP	Large_Office	Water_Heat	Electric		New	0.95 Heat Pump Water Heater	30.0% \$	0.58	15	75.0%	100.0%	75.0%	0.285	0.95	0.21	0.29	\$0.25	\$0.25	F	F
	Large_Office Lodging	Water_Heat Cooling_Chillers	Electric		New New	0.95 Demand controlled circulating systems 2.83 EMS Optimization	5.0% \$ 1.0% \$		15 5		93.2% 50.0%	46.6% 50.0%	0.048 0.028	0.74 2.83	0.02	0.04 0.03	\$2.35 \$0.00	\$3.03 \$0.00	F A	F A
MP:	Lodging	Cooling_Chillers	Electric	Stock	New	2.83 High Efficiency Windows, Low-e; U=0.35	7.0% \$	0.06	30	75.0%	92.9%	69.7%	0.199	2.82	0.14	0.20	\$0.03	\$0.03	Α	A
	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric		New New	2.83 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F 2.83 Primary/Secondary De-coupled Chilled Water System	7.5% \$ 12.0% \$		15 15		90.0% 80.0%	60.3% 40.0%	0.212	2.68 2.56	0.12 0.12	0.20 0.31	\$0.10 \$0.26	\$0.10 \$0.29	E	F
	Lodging	Cooling_Chillers	Electric	Stock	New	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.46	10	50.0%	100.0%	50.0%	0.283	2.43	0.12	0.24	\$0.26	\$0.30	F	F
	Lodging Lodging	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	2.83 Optimize Chilled Water and Condenser Water Settings 2.83 Ceiling R-19 to R-38 Insulation	5.0% \$ 0.9% \$		10 20		50.0% 34.6%	16.5% 17.3%	0.142	2.31 2.29	0.02	0.12 0.02	\$0.35 \$0.44	\$0.43 \$0.54	F	F
	Lodging Lodging	Cooling_Chillers	Electric		New	2.83 Cool Roofs (Reflective and Spray Evaporative)	0.4% \$	0.04	10	90.0%	100.0%	90.0%	0.023	2.29	0.01	0.02	\$0.56	\$0.69	F	F
	Lodging	Cooling_Chillers	Electric		New New	2.83 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 2.83 Occupancy Sensor for room HVAC units	2.6% \$		20 15		90.0% 100.0%	45.0% 51.0%	0.074	2.28	0.03 0.51	0.06 0.99	\$1.87 \$0.04	\$2.32 \$0.04	F B	F
	Lodging Lodging	Cooling_DX Cooling_DX	Electric		New	2.83 High Efficiency Windows, Low-e; U=0.35	35.0% \$ 5.0% \$		30		92.9%	69.7%	0.991	2.83 2.32	0.51	0.99	\$0.04	\$0.04	F	F
MP:	Lodging	Cooling_DX	Electric		New	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$		10		100.0%	50.0%	0.283	2.24	0.11	0.22	\$0.26	\$0.33	F	F
	Lodging Lodging	Cooling_DX Cooling_DX	Electric		New New	2.83 Ceiling R-19 to R-38 Insulation 2.83 DX Tune-Up / Diagnostics	0.9% \$ 10.0% \$		20		34.6% 10.0%	17.3% 10.0%	0.025 0.283	2.13 2.13	0.00		\$0.44 \$0.55	\$0.58 \$0.73	F	F
MP	Lodging	Cooling_DX	Electric		New	2.83 Cool Roofs (Reflective and Spray Evaporative)	0.4% \$		10		100.0%	50.0%	0.011	2.11	0.00	0.01	\$0.56	\$0.75	F	F
	Lodging Lodging	Cooling_DX Cooling_DX	Electric	Stock Stock	New New	2.83 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 2.83 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	10.0% \$ 2.6% \$		10 20		95.0% 90.0%	23.8% 45.0%	0.283	2.10 2.05	0.05 0.02	0.21 0.05	\$0.77 \$1.87	\$1.04 \$2.57	F F	F
MP	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.16	30	75.0%	92.9%	69.7%	0.142	2.83	0.10	0.14	\$0.10	\$0.10	F	F
	Lodging Lodging	Cooling_HeatPump Cooling HeatPump	Electric		New New	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.83 Ceiling R-19 to R-38 Insulation	10.0% \$ 0.9% \$		10 20		100.0% 34.6%	50.0% 17.3%	0.283	2.73 2.59	0.14	0.27 0.02	\$0.26 \$0.44	\$0.27 \$0.48	F	F
MP	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83 DX Tune-Up / Diagnostics	10.0% \$	0.37	3	100.0%	10.0%	10.0%	0.283	2.59	0.03	0.26	\$0.55	\$0.60	F	F
	Lodging Lodging	Cooling_HeatPump Cooling_HeatPump	Electric		New New	2.83 Cool Roofs (Reflective and Spray Evaporative)2.83 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	0.4% \$ 10.0% \$		10 10		100.0% 95.0%	50.0% 23.8%	0.011 0.283	2.56 2.56	0.01 0.06	0.01 0.26	\$0.56 \$0.77	\$0.62 \$0.85	F	F
	Lodging	Cooling_HeatPump	Electric		New	2.83 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$		20		90.0%	45.0%	0.074	2.50	0.03	0.07	\$1.87	\$2.12	F	F
	Lodging Lodging	Lighting_2L4T12 Lighting_2L4T12	Electric		New New	3.01 4' 1L T8 Premium, EB, reflector 3.01 4' 2L T8 Premium, EB	61.1% \$ 25.0% \$		26 26		100.0% 100.0%	33.3% 33.3%	1.839 0.753	3.01 3.01	0.61 0.25	1.84 0.75	\$0.04 \$0.05	\$0.04 \$0.05	B	B C
MP:	Lodging	Lighting_2L4T12	Electric		New	3.01 4' 1L T5HO, EB	13.9% \$	0.29	26	33.3%	100.0%	33.3%	0.418	3.01	0.14	0.42	\$0.07	\$0.07	D	D
	Lodging	Lighting_2L4T12	Electric		New	3.01 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0% \$		19		100.0%	30.0%	2.258	3.01	0.68	2.26	\$0.09	\$0.09	E	E
	Lodging Lodging	Lighting_2L4T8 Lighting_2L8T12	Electric	Stock Stock	New New	2.41 4' 2L T8 Premium, EB 3.01 8' 2L T8, EB	8.5% \$ 52.8% \$		26 26		100.0% 100.0%	100.0% 50.0%	0.205 1.589	2.41 3.01	0.20 0.79	0.20 1.59	\$0.06 \$0.01	\$0.06 \$0.01	D A	D A
MP	Lodging	Lighting_2L8T12	Electric		New	3.01 8' 1L T12, 60W, EB, reflector	55.3% \$		26	25.0%	100.0%	25.0%	1.665	3.01	0.42	1.66	\$0.02	\$0.02	A	A
	Lodging Lodging	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	3.01 8' 2L T12, 60W, EB 3.01 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% \$ 75.0% \$		26 19		79.9% 100.0%	20.0% 30.0%	0.318 2.258	3.01 3.01	0.06 0.68	0.32 2.26	\$0.03 \$0.10	\$0.03 \$0.10	A E	A E
MP	Lodging	Lighting_3L4T12		Stock	New	3.01 4' 1L T5HO, EB	46.1% \$	0.02	26	25.0%	100.0%	25.0%	1.387	3.01	0.35	1.39	\$0.00	\$0.00	A	A
	Lodging Lodging	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		New New	3.01 4' 3L T8, EB 3.01 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		26 26		100.0% 100.0%	25.0% 25.0%	0.681 1.597	3.01 3.01	0.17 0.40	0.68 1.60	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
MP	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01 4' 3L T8 Premium, EB	22.6% \$	0.05	26	25.0%	100.0%	25.0%	0.681	3.01	0.17	0.68	\$0.01	\$0.01	Α	A
	Lodging Lodging	Lighting_3L4T8 Lighting_4L4T12	Electric		New New	2.41 4' 3L T8 Premium, EB 3.01 4' 3L T8 FB	6.7% \$ 38.2% \$		26 26		100.0% 100.0%	100.0% 16.7%	0.161 1.150	2.41 3.01	0.16 0.19	0.16 1.15	\$0.13 \$0.00	\$0.13 \$0.00	F A	F A
MP	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01 4' 3L T8 Premium, EB	42.4% \$	0.15	26	16.7%	100.0%	16.7%	1.275	3.01	0.21	1.28	\$0.01	\$0.01	Α	Â
	Lodging Lodging	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	3.01 4' 4L T8, EB 3.01 4' 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$		26 26		100.0% 100.0%	16.7% 16.7%	0.669 1.881	3.01 3.01	0.11 0.31	0.67 1.88	\$0.01 \$0.02	\$0.01 \$0.02	A	A
MP	Lodging Lodging	Lighting_4L4T12	Electric		New	3.01 4' 2L T5HO, EB	18.8% \$		26		100.0%	16.7%	0.564	3.01	0.09		\$0.02		Ä	Ä
	Lodging	Lighting_4L4T12	Electric		New New	3.01 4' 4L T8 Premium, EB	25.0% \$		26 19		100.0%	16.7% 30.0%	0.753	3.01 3.01	0.13	0.75 2.26	\$0.03	\$0.03 \$0.09	B F	В
MP	Lodging Lodging	Lighting_4L4T12 Lighting_4L4T8	Electric Electric		New	3.01 Continuous Dimming, 5-4' Fluorescent Fixtures 2.41 4' 4L T8 Premium, EB	75.0% \$ 3.6% \$		26		100.0% 100.0%	100.0%	2.258 0.087	2.41	0.09		\$0.09 \$0.16		F	F
MP	Lodging	Lighting_INC150W	Electric		New	3.01 HPS, 50W	56.0% \$	1.98	9	45.0%	92.2%	41.5%	1.686	3.01	0.70	1.69	\$0.20	\$0.20	F	F
	Lodging Lodging	Plug_Load Plug_Load	Electric		New New	0.1 Smart Networks 0.1 ENERGY STAR or Better Office Equipment: Copiers	4.5% \$ 20.2% \$		4		40.0% 33.0%	36.0% 33.0%	0.005 0.020	0.10 0.10	0.00	0.00 0.02	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
MP:	Lodging	Plug_Load	Electric	Stock	New	0.1 ENERGY STAR or Better Office Equipment: Monitors	10.9% \$	0.00	4	100.0%	71.0%	71.0%	0.011	0.09	0.01	0.01	\$0.14	\$0.16	F	F
	Lodging Lodging	Plug_Load Plug_Load	Electric Electric		New New	0.1 ENERGY STAR or Better Office Equipment: Computer 0.1 ENERGY STAR or Better Office Equipment: Printers	12.2% \$ 7.6% \$		4		65.0% 99.0%	65.0% 99.0%	0.012	80.0 80.0	0.01 0.01	0.01 0.01	\$0.26 \$0.45	\$0.30 \$0.57	F F	F F
MP	Lodging	Space_Heat	Electric	Stock	New	2.54 Occupancy Sensor for room HVAC units	35.0% \$	0.20	15	51.0%	100.0%	51.0%	0.889	2.54	0.45	0.89	\$0.03	\$0.03	A	A
	Lodging Lodging	Space_Heat Space Heat	Electric		New New	2.54 Ceiling R-19 to R-38 Insulation2.54 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	3.0% \$ 5.0% \$		20 15		62.3% 100.0%	31.1% 50.0%	0.076 0.127	2.09 2.07	0.02 0.05		\$0.15 \$0.27	\$0.18 \$0.33	F F	F F
MP	Lodging	Space_Heat	Electric	Stock	New	2.54 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$	1.31	20	50.0%	90.0%	45.0%	0.067	2.02	0.02	0.05	\$2.08	\$2.62	F	F
	Lodging Lodging	Water_Heat Water Heat		Stock Stock	New New	2.79 Heat Pump Water Heater 2.79 Demand controlled circulating systems	30.0% \$ 5.0% \$		15 15		100.0% 100.0%	75.0% 50.0%	0.837 0.140	2.79 2.16	0.63 0.05		\$0.51 \$4.81	\$0.51 \$6.20	F F	F
MP:	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39 EMS Optimization	1.0% \$	-	5	100.0%	50.0%	50.0%	0.024	2.39	0.01	0.02	\$0.00	\$0.00	A	A
		Cooling_Chillers Cooling_Chillers	Electric	Stock Stock	New New	2.39 High Efficiency Windows, Low-e; U=0.35 2.39 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	2.5% \$ 7.5% \$		30 15		76.3% 90.0%	57.2% 60.3%	0.059 0.179	2.38 2.34	0.03		\$0.03 \$0.05	\$0.03 \$0.05	A C	B C
		Cooling_Chillers Cooling_Chillers	Electric		New	2.39 Primary/Secondary De-coupled Chilled Water System	7.5% \$ 12.0% \$		15		90.0% 80.0%	40.0%	0.179	2.34	0.11		\$0.05		F	F

												Measure						Stacked		
Area E	Building Type	End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names				Feasibility	Incomplete	Applicability	Stand Alone	Adjusted		Stacked Savings Full	Stand-alone Marginal		Stand Alone	Stacked Cost
							Savings	Cost	Life	Factor	Factor	(Feas Factor * Incomp Factor)	Savings	Base	Savings	App	Energy Cost	Energy Cost	Cost Group	Group
	iscellaneous	Cooling_Chillers	Electric		New	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.19	10	50.0%	100.0%	50.0%	0.239	2.13	0.11	0.21	\$0.13	\$0.14	F	F
	iscellaneous iscellaneous	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	2.39 Optimize Chilled Water and Condenser Water Settings 2.39 Cool Roofs (Reflective and Spray Evaporative)	5.0% \$ 13.0% \$		10 10		50.0% 100.0%	16.5% 90.0%	0.120 0.310	2.02 2.01	0.02	0.10 0.26	\$0.18 \$0.24	\$0.21 \$0.29	F	F
MPS M	iscellaneous	Cooling_Chillers	Electric		New	2.39 Ceiling R-19 to R-38 Insulation	0.9% \$		20	50.0%	40.2%	20.1%	0.022	1.77	0.00	0.02	\$1.09	\$1.47	F	F
		Cooling_Chillers	Electric		New	2.39 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$		20	50.0%	90.0%	45.0%	0.063	1.77	0.02	0.05	\$2.21	\$2.99	F	F
	iscellaneous iscellaneous	Cooling_DX Cooling_DX	Electric Electric		New New	2.39 High Efficiency Windows, Low-e; U=0.352.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$ 10.0% \$		30 10	75.0% 50.0%	76.3% 100.0%	57.2% 50.0%	0.120 0.239	2.39 2.32	0.07 0.12	0.12 0.23	\$0.04 \$0.13	\$0.04 \$0.13	B F	В F
MPS M	iscellaneous	Cooling_DX	Electric		New	2.39 Cool Roofs (Reflective and Spray Evaporative)	13.0% \$	0.42	10	50.0%	100.0%	50.0%	0.310	2.21	0.14	0.29	\$0.22	\$0.24	F	F
		Cooling_DX Cooling_DX	Electric Electric		New New	2.39 DX Tune-Up / Diagnostics2.39 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% \$ 10.0% \$	0.16 0.58	3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.239	2.06 2.04	0.02	0.21 0.20	\$0.28 \$0.39	\$0.32 \$0.45	F	F
	iscellaneous	Cooling_DX Cooling_DX	Electric		New	2.39 Ceiling R-19 to R-38 Insulation	0.9% \$	0.22	20	50.0%	40.2%	20.1%	0.022	1.99	0.00	0.02	\$1.09	\$1.31	F	F
	iscellaneous	Cooling_DX	Electric		New	2.39 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$		20		90.0%	45.0%	0.063	1.99	0.02		\$2.21	\$2.66	F	F
	iscellaneous iscellaneous	Cooling_HeatPump Cooling HeatPump	Electric Electric		New New	2.39 High Efficiency Windows, Low-e; U=0.352.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$ 10.0% \$	0.05 0.19	30 10	75.0% 50.0%	76.3% 100.0%	57.2% 50.0%	0.120 0.239	2.39 2.32	0.07 0.12	0.12 0.23	\$0.04 \$0.13	\$0.04 \$0.13	B F	F
		Cooling_HeatPump	Electric		New	2.39 Cool Roofs (Reflective and Spray Evaporative)	13.0% \$		10		100.0%	50.0%	0.310	2.21	0.14	0.29	\$0.22	\$0.24	F	F
	iscellaneous iscellaneous	Cooling_HeatPump Cooling HeatPump	Electric Electric		New New	2.39 DX Tune-Up / Diagnostics2.39 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% \$ 10.0% \$		3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.239 0.239	2.06 2.04	0.02	0.21 0.20	\$0.28 \$0.39	\$0.32 \$0.45	F	F
MPS M	iscellaneous	Cooling_HeatPump	Electric	Stock	New	2.39 Ceiling R-19 to R-38 Insulation	0.9% \$	0.22	20	50.0%	40.2%	20.1%	0.022	1.99	0.00	0.02	\$1.09	\$1.31	F	F
		Cooling_HeatPump Lighting 2L4T12	Electric Electric		New New	2.39 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 2.12 4' 1L T8 Premium, EB, reflector	2.6% \$ 61.1% \$	1.31	20 36	50.0% 33.3%	90.0% 100.0%	45.0% 33.3%	0.063 1.296	1.99 2.12	0.02	0.05 1.30	\$2.21 \$0.10	\$2.66 \$0.10	F	F
		Lighting_2L4T12	Electric		New	2.12 4 LT 8 Premium, EB, renector 2.12 4 LT 8 Premium, EB	25.0% \$		36		100.0%	33.3%	0.530	2.12	0.43	0.53	\$0.10	\$0.10	F	F
	iscellaneous	Lighting_2L4T12	Electric		New	2.12 4' 1L T5HO, EB	13.9% \$		36		100.0%	33.3%	0.295	2.12	0.10		\$0.16	\$0.16	F	F
	iscellaneous iscellaneous	Lighting_2L4T12 Lighting_2L4T8	Electric Electric		New New	2.12 Continuous Dimming, 10-4' Fluorescent Fixtures 1.7 4' 2L T8 Premium. EB	75.0% \$ 8.5% \$		26 36	30.0% 100.0%	100.0% 100.0%	30.0% 100.0%	1.590 0.145	2.12 1.70	0.48	1.59 0.14	\$0.22 \$0.15	\$0.22 \$0.15	F	F
MPS M	iscellaneous	Lighting_2L8T12	Electric	Stock	New	2.12 8' 2L T8, EB	52.8% \$	0.35	36	50.0%	100.0%	50.0%	1.119	2.12	0.56	1.12	\$0.03	\$0.03	A	A
		Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	2.12 8' 1L T12, 60W, EB, reflector 2.12 8' 2L T12, 60W, EB	55.3% \$ 10.6% \$		36 36		100.0% 46.2%	25.0% 11.5%	1.172 0.224	2.12 2.12	0.29	1.17 0.22	\$0.06 \$0.07	\$0.06 \$0.07	C D	C
		Lighting_2L8T12 Lighting_2L8T12	Electric		New	2.12 8 2L 112, 60W, EB 2.12 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0% \$	4.03	36 26		100.0%	30.0%	1.590	2.12	0.03	1.59	\$0.07	\$0.07	F	F
MPS M	iscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12 4' 1L T5HO, EB	46.1% \$	0.03	36	25.0%	100.0%	25.0%	0.977	2.12	0.24	0.98	\$0.00	\$0.00	A	A
		Lighting_3L4T12 Lighting 3L4T12	Electric Electric		New New	2.12 4' 3L T8, EB 2.12 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		36 36		100.0% 100.0%	25.0% 25.0%	0.479 1.125	2.12 2.12	0.12 0.28	0.48 1.12	\$0.01 \$0.01	\$0.01 \$0.01	A	A
MPS M	iscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12 4' 3L T8 Premium, EB	22.6% \$	0.08	36	25.0%	100.0%	25.0%	0.479	2.12	0.12	0.48	\$0.02	\$0.02	Ä	Â
	iscellaneous iscellaneous	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		New New	1.7 4' 3L T8 Premium, EB 2.12 4' 3L T8, EB	6.7% \$ 38.2% \$	0.41	36 36		100.0% 100.0%	100.0% 16.7%	0.114 0.810	1.70 2.12	0.11	0.11 0.81	\$0.31 \$0.01	\$0.31 \$0.01	F A	F A
		Lighting 4L4T12	Electric		New	2.12 4 3L T8 Premium, EB	42.4% \$		36		100.0%	16.7%	0.898	2.12	0.15	0.90	\$0.01	\$0.01	A	A
		Lighting_4L4T12	Electric		New	2.12 4' 4L T8, EB	22.2% \$		36		100.0%	16.7%	0.471	2.12	0.08	0.47	\$0.04	\$0.04	В	В
	iscellaneous iscellaneous	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	2.12 4' 2L T8 Premium, EB, reflector 2.12 4' 2L T5HO, EB	62.5% \$ 18.8% \$	0.70 0.27	36 36		100.0% 100.0%	16.7% 16.7%	1.325 0.398	2.12 2.12	0.22	1.33 0.40	\$0.05 \$0.06	\$0.05 \$0.06	C C	C
		Lighting_4L4T12	Electric		New	2.12 4' 4L T8 Premium, EB	25.0% \$	0.46	36	16.7%	100.0%	16.7%	0.530	2.12	0.09	0.53	\$0.08	\$0.08	Ē	Ē
		Lighting_4L4T12	Electric		New	2.12 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$		26	30.0%	100.0%	30.0%	1.590 0.061	2.12	0.48	1.59 0.06	\$0.22 \$0.40	\$0.22 \$0.40	F	F
	iscellaneous	Lighting_4L4T8 Lighting_INC150W	Electric Electric		New New	1.7 4' 4L T8 Premium, EB 2.12 HPS, 50W	3.6% \$ 56.0% \$		36 12		100.0% 98.0%	100.0% 44.1%	1.187	1.70 2.12	0.06 0.52	1.19	\$0.40	\$0.40	F	F
	iscellaneous	Plug_Load	Electric		New	1 Smart Networks	6.9% \$	0.01	4	90.0%	40.0%	36.0%	0.069	1.00	0.02	0.07	\$0.03	\$0.03	Α	Α
		Plug_Load Plug_Load	Electric Electric		New New	ENERGY STAR or Better Office Equipment: Copiers ENERGY STAR or Better Office Equipment: Monitors	11.4% \$ 16.5% \$		4	100.0% 100.0%	33.0% 71.0%	33.0% 71.0%	0.114 0.165	0.98 0.94	0.04	0.11 0.16	\$0.12 \$0.14	\$0.13 \$0.15	F	F
	iscellaneous	Plug_Load	Electric	Stock	New	1 ENERGY STAR or Better Office Equipment: Computer	18.6% \$		4	100.0%	65.0%	65.0%	0.186	0.83	0.10	0.15	\$0.26	\$0.31	F	F
	iscellaneous iscellaneous	Plug_Load Space Heat	Electric Electric		New New	1 ENERGY STAR or Better Office Equipment: Printers	9.2% \$ 5.0% \$	0.11 0.28	4 15	100.0% 50.0%	99.0% 100.0%	99.0% 50.0%	0.092	0.73 2.76	0.07 0.07	0.07 0.14	\$0.38 \$0.25	\$0.52 \$0.25	F	F
	iscellaneous	Space_Heat	Electric		New	2.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.76 Ceiling R-19 to R-38 Insulation	3.0% \$	0.20	20	50.0%	13.4%	6.7%	0.136	2.76	0.07	0.14	\$0.25	\$0.25	F	F
		Space_Heat	Electric		New	2.76 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$		20	50.0%	90.0%	45.0%	0.073	2.69	0.03	0.07	\$1.92	\$1.97	F	F
	iscellaneous iscellaneous	Water_Heat Water Heat	Electric Electric		New New	1.65 Heat Pump Water Heater 1.65 Demand controlled circulating systems	30.0% \$ 5.0% \$		15 15		100.0% 100.0%	75.0% 50.0%	0.495 0.083	1.65 1.28	0.37	0.50 0.06	\$0.84 \$7.94	\$0.84 \$10.25	F	F
	estaurant	Cooling_Chillers	Electric		New	4.49 EMS Optimization	1.0% \$	-	5	100.0%	50.0%	50.0%	0.045	4.49	0.02	0.04	\$0.00	\$0.00	A	A
	estaurant estaurant	Cooling_Chillers	Electric Electric		New New	4.49 High Efficiency Windows, Low-e; U=0.35 4.49 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	5.4% \$ 7.5% \$		30 15	50.0% 67.0%	100.0% 90.0%	50.0% 60.3%	0.242	4.47 4.35	0.12	0.24 0.33	\$0.01 \$0.02	\$0.01 \$0.03	A A	A
	estaurant estaurant	Cooling_Chillers Cooling_Chillers	Electric		New	4.49 Primary/Secondary De-coupled Chilled Water System	12.0% \$		15		80.0%	40.0%	0.539	4.35	0.20	0.50	\$0.02	\$0.03	D	A D
	estaurant	Cooling_Chillers	Electric		New	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$		10		100.0%	50.0%	0.449	3.95	0.20	0.40	\$0.07	\$0.07	D	D
MPS R		Cooling_Chillers Cooling Chillers	Electric Electric		New New	4.49 Optimize Chilled Water and Condenser Water Settings 4.49 Cool Roofs (Reflective and Spray Evaporative)	5.0% \$ 4.3% \$	0.13	10 10	33.0% 90.0%	50.0% 100.0%	16.5% 90.0%	0.225 0.193	3.75 3.72	0.03	0.19 0.16	\$0.09 \$0.39	\$0.11 \$0.47	E F	F
	estaurant	Cooling_Chillers	Electric		New	4.49 Ceiling R-19 to R-38 Insulation	0.9% \$		20	50.0%	100.0%	50.0%	0.040	3.58	0.02	0.03	\$0.59	\$0.74	F	F
	estaurant estaurant	Cooling_Chillers	Electric Electric		New New	4.49 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.49 High Efficiency Windows, Low-e; U=0.35	2.6% \$ 5.0% \$	1.31 0.05	20 30		90.0% 100.0%	45.0% 50.0%	0.118 0.225	3.56 4.49	0.04	0.09 0.22	\$1.18 \$0.02	\$1.48 \$0.02	F A	F A
	estaurant	Cooling_DX Cooling_DX	Electric		New	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.18	10		100.0%	50.0%	0.449	4.38	0.22	0.44	\$0.02	\$0.07	Ď	Ď
MPS R		Cooling_DX	Electric		New	4.49 DX Tune-Up / Diagnostics	10.0% \$		3	100.0%	10.0%	10.0%	0.449	4.16	0.04	0.42	\$0.14	\$0.15	F	F
	estaurant estaurant	Cooling_DX Cooling_DX	Electric Electric		New New	4.49 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 4.49 Cool Roofs (Reflective and Spray Evaporative)	10.0% \$ 4.3% \$		10 10	25.0% 50.0%	95.0% 100.0%	23.8% 50.0%	0.449 0.193	4.12 4.02	0.10 0.09	0.41 0.17	\$0.19 \$0.39	\$0.21 \$0.43	F	F
MPS R	estaurant	Cooling_DX	Electric	Stock	New	4.49 Ceiling R-19 to R-38 Insulation	0.9% \$	0.22	20	50.0%	100.0%	50.0%	0.040	3.93	0.02	0.04	\$0.59	\$0.67	F	F
MPS R	estaurant estaurant	Cooling_DX Cooling_HeatPump	Electric Electric		New New	4.49 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.49 High Efficiency Windows, Low-e; U=0.35	2.6% \$ 5.0% \$	1.31 0.05	20 30	50.0% 50.0%	90.0% 100.0%	45.0% 50.0%	0.118 0.225	3.92 4.49	0.05	0.10 0.22	\$1.18 \$0.02	\$1.35 \$0.02	F A	F A
MPS R	estaurant	Cooling_HeatPump	Electric	Stock	New	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.18	10	50.0%	100.0%	50.0%	0.449	4.38	0.22	0.44	\$0.07	\$0.07	Ď	Ď
	estaurant estaurant	Cooling_HeatPump	Electric Electric		New New	4.49 DX Tune-Up / Diagnostics4.49 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% \$ 10.0% \$		3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.449 0.449	4.16 4.12	0.04	0.42 0.41	\$0.14 \$0.19	\$0.15 \$0.21	F	F
MPS R		Cooling_HeatPump Cooling_HeatPump	Electric		New	4.49 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 4.49 Cool Roofs (Reflective and Spray Evaporative)	4.3% \$	0.55	10		100.0%	23.8% 50.0%	0.449	4.12	0.10		\$0.19	\$0.21	F	F
MPS R		Cooling_HeatPump	Electric	Stock	New	4.49 Ceiling R-19 to R-38 Insulation	0.9% \$	0.22	20	50.0%	100.0%	50.0%	0.040	3.93	0.02	0.04	\$0.59	\$0.67	F	F
	estaurant estaurant	Cooling_HeatPump Lighting 2L4T12	Electric Electric		New New	4.49 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 8.74 4' 1L T8 Premium, EB, reflector	2.6% \$ 61.1% \$		20 22	50.0% 33.3%	90.0% 100.0%	45.0% 33.3%	0.118 5.341	3.92 8.74	0.05 1.78	0.10 5.34	\$1.18 \$0.03	\$1.35 \$0.03	F B	F B
MPS R	estaurant	Lighting_2L4T12	Electric	Stock	New	8.74 4' 2L T8 Premium, EB	25.0% \$	0.79	22	33.3%	100.0%	33.3%	2.185	8.74	0.73	2.19	\$0.04	\$0.04	В	В
	estaurant	Lighting_2L4T12	Electric		New	8.74 4' 1L T5HO, EB 8.74 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% \$	0.60	22		100.0%	33.3%	1.215	8.74 8.74	0.40	1.21	\$0.05	\$0.05	C	C
	estaurant estaurant	Lighting_2L4T12 Lighting_2L4T8	Electric Electric		New New	8.74 Continuous Dimming, 10-4' Fluorescent Fixtures 6.99 4' 2L T8 Premium, EB	75.0% \$ 8.5% \$		16 22	12.0% 100.0%	100.0% 100.0%	12.0% 100.0%	6.555 0.594	6.99	0.79 0.59	6.56 0.59	\$0.07 \$0.05	\$0.07 \$0.05	С	С
MPS R	estaurant	Lighting 2L8T12	Electric	Stock	New	8.74 8' 2L T8, EB	52.8% \$	0.38	22	50.0%	100.0%	50.0%	4.615	8.74	2.31	4.61	\$0.01	\$0.01	A	A
	estaurant estaurant	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	8.74 8' 1L T12, 60W, EB, reflector 8.74 8' 2L T12, 60W, EB	55.3% \$ 10.6% \$		22 22		100.0% 68.1%	25.0% 17.0%	4.833 0.924	8.74 8.74	1.21 0.16	4.83 0.92	\$0.02 \$0.02		A A	A A
MPS R	estaurant	Lighting_2L8T12	Electric	Stock	New	8.74 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0% \$	4.37	16	12.0%	100.0%	12.0%	6.555	8.74	0.79	6.56	\$0.08	\$0.08	Ē	Ē
MPS R	estaurant	Lighting_3L4T12		Stock	New	8.74 4' 1L T5HO, EB	46.1% \$	0.04	22		100.0%	25.0%	4.028	8.74	1.01	4.03	\$0.00		A	A
	estaurant estaurant	Lighting_3L4T12 Lighting_3L4T12	Electric Electric	Stock Stock	New New	8.74 4' 3L T8, EB 8.74 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		22 22	25.0% 25.0%	100.0% 100.0%	25.0% 25.0%	1.976 4.636	8.74 8.74	0.49 1.16	1.98 4.64	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
MPS R	estaurant	Lighting_3L4T12	Electric	Stock	New	8.74 4' 3L T8 Premium, EB	22.6% \$	0.10	22	25.0%	100.0%	25.0%	1.976	8.74	0.49	1.98	\$0.01	\$0.01	Α	A
	estaurant estaurant	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		New New	6.99 4" 3L T8 Premium, EB 8.74 4" 3L T8, EB	6.7% \$ 38.2% \$		22 22		100.0% 100.0%	100.0% 16.7%	0.468 3.339	6.99 8.74	0.47 0.56	0.47 3.34	\$0.09 \$0.00	\$0.09 \$0.00	E A	E A
MPS R	estaurant	Lighting 4L4T12	Electric	Stock	New	8.74 4' 3L T8 Premium, EB	42.4% \$	0.32	22	16.7%	100.0%	16.7%	3.702	8.74	0.62	3.70	\$0.01	\$0.01	Α	Α
MPS R	estaurant	Lighting_4L4T12	Electric	Stock	New	8.74 4' 4L T8, EB	22.2% \$	0.21	22	16.7%	100.0%	16.7%	1.942	8.74	0.32		\$0.01	\$0.01	Α	A
	estaurant estaurant	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	8.74 4' 2L T8 Premium, EB, reflector 8.74 4' 2L T5HO. EB	62.5% \$ 18.8% \$		22 22		100.0% 100.0%	16.7% 16.7%	5.463 1.639	8.74 8.74	0.91 0.27	5.46 1.64	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS R	estaurant	Lighting_4L4T12	Electric	Stock	New	8.74 4' 4L T8 Premium, EB	25.0% \$	0.51	22	16.7%	100.0%	16.7%	2.185	8.74	0.36	2.19	\$0.02	\$0.02	Α	Α
MPS R	estaurant	Lighting_4L4T12	Electric	Stock	New	8.74 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$	4.01	16	12.0%	100.0%	12.0%	6.555	8.74	0.79	6.56	\$0.07	\$0.07	D	D

Area Building Type	e End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Enormy	Stand Alone Cost Group	
MPS Restaurant	Lighting_4L4T8	Electric		New	6.99 4' 4L T8 Premium, EB	3.6% 56.0%		22		100.0%	100.0%	0.252 4.894	6.99 8.74	0.25	0.25	\$0.13	\$0.13 \$0.19	F	F
MPS Restaurant MPS Restaurant	Lighting_INC150W Plug_Load	Electric Electric		New New	8.74 HPS, 50W 0.23 Smart Networks	6.8%		8 4	45.0% 90.0%	90.4% 40.0%	40.7% 36.0%	0.016	0.23	1.99 0.01	4.89 0.02	\$0.19 \$0.03		A	A
MPS Restaurant MPS Restaurant	Plug_Load	Electric		New New	0.23 ENERGY STAR or Better Office Equipment: Monitors	16.3% 7.8%		4	100.0%	71.0%	71.0%	0.038	0.22	0.03	0.04	\$0.13 \$0.21	\$0.14	F	F
MPS Restaurant	Plug_Load Plug_Load	Electric Electric		New	0.23 ENERGY STAR or Better Office Equipment: Copiers 0.23 ENERGY STAR or Better Office Equipment: Computer	18.4%		4	100.0% 100.0%	33.0% 65.0%	33.0% 65.0%	0.018	0.20 0.19	0.01	0.02 0.04	\$0.21	\$0.24 \$0.28	F	F
MPS Restaurant	Plug_Load	Electric		New	0.23 ENERGY STAR or Better Office Equipment: Printers	15.0%		4	100.0%	99.0%	99.0%	0.034	0.17	0.03	0.03	\$0.34	\$0.45	F	F
MPS Restaurant	Refrigeration Refrigeration	Electric Electric		New New	7.67 Night Covers for Display Cases 7.67 Anti-Sweat (Humidistat) Controls	5.8% 5.0%		5 12	50.0% 100.0%	95.0% 48.0%	47.5% 48.0%	0.445 0.383	7.67 7.46	0.21 0.18	0.44 0.37	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
MPS Restaurant	Refrigeration	Electric		New	7.67 Demand Control Defrost - Electric	7.8%	\$ 0.04	10	100.0%	48.0%	48.0%	0.595	7.28	0.27	0.57	\$0.01	\$0.01	A	A
MPS Restaurant MPS Restaurant	Refrigeration Refrigeration	Electric Electric		New New	7.67 Installation of Floating Condenser Head Pressure Controls 7.67 Strip Curtains for Walk-Ins	6.8% 4.0%	\$ 0.12 \$ 0.05	14 4	100.0% 100.0%	44.4% 30.0%	44.4% 30.0%	0.524	7.01 6.80	0.21 0.08	0.48 0.27	\$0.03 \$0.05	\$0.03 \$0.06	B C	C
MPS Restaurant	Refrigeration	Electric		New	7.67 Demand Control Defrost - Hot Gas	2.5%		10 3		69.6%	69.6%	0.192	6.71	0.12		\$0.05	\$0.06 \$0.08	С	D
MPS Restaurant MPS Restaurant	Refrigeration Refrigeration	Electric Electric		New New	7.67 Refrigeration Commissioning 7.67 Compressor VSD retrofit	5.0% 6.2%		10	100.0% 50.0%	50.0% 95.0%	50.0% 47.5%	0.384 0.476	6.60 6.43	0.16 0.19	0.33 0.40	\$0.07 \$0.14	\$0.08	D F	E F
MPS Restaurant	Refrigeration	Electric		New	7.67 High Efficiency Case Fans	12.0%		16 5	100.0%	95.0%	95.0%	0.919 0.042	6.24	0.71	0.75	\$0.15	\$0.18 \$0.80	F	F
MPS Restaurant MPS Restaurant	Refrigeration Space Heat	Electric Electric		New New	7.67 Reduced Speed or Cycling of Evaporator Fans3.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	0.6% 5.0%		5 15	100.0% 50.0%	80.0% 100.0%	80.0% 50.0%	0.042	5.53 3.76	0.02	0.03 0.19	\$0.58 \$0.18	\$0.80	F	F
MPS Restaurant	Space_Heat	Electric		New	3.76 Ceiling R-19 to R-38 Insulation	3.0%		20		67.0%	33.5%	0.113	3.67	0.04	0.11	\$0.21	\$0.22	F	F
MPS Restaurant MPS Restaurant	Space_Heat Water Heat	Electric Electric		New New	3.76 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 9.19 Heat Pump Water Heater	2.6% 30.0%		20 15	50.0% 75.0%	90.0% 100.0%	45.0% 75.0%	0.099 2.757	3.63 9.19	0.04 2.07	0.10 2.76	\$1.41 \$0.08	\$1.46 \$0.08	E	E
MPS Restaurant	Water_Heat	Electric		New	9.19 Demand controlled circulating systems	5.0%		15		100.0%	50.0%	0.460	7.12	0.18	0.36	\$0.76	\$0.98	F	F
MPS Retail MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	3.14 EMS Optimization 3.14 High Efficiency Windows, Low-e; U=0.35	1.0% 10.3%		5 30	100.0% 75.0%	50.0% 100.0%	50.0% 75.0%	0.031 0.324	3.14 3.12	0.02 0.24	0.03 0.32	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
MPS Retail	Cooling_Chillers	Electric	Stock	New	3.14 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	\$ 0.09	15	67.0%	90.0%	60.3%	0.236	2.88	0.13	0.22	\$0.05	\$0.05	C	C
MPS Retail MPS Retail	Cooling_Chillers Cooling Chillers	Electric Electric		New New	3.14 Primary/Secondary De-coupled Chilled Water System 3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%		15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.377 0.314	2.75 2.62	0.13 0.13	0.33 0.26	\$0.12 \$0.12	\$0.14 \$0.15	F	F
MPS Retail	Cooling_Chillers	Electric		New	3.14 Optimize Chilled Water and Condenser Water Settings	5.0%		10		50.0%	16.5%	0.157	2.49	0.02	0.12	\$0.17	\$0.21	F	F
MPS Retail MPS Retail	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	3.14 Cool Roofs (Reflective and Spray Evaporative) 3.14 Ceiling R-19 to R-38 Insulation	6.9% 0.9%		10 20		100.0% 100.0%	90.0% 50.0%	0.217 0.028	2.47 2.31	0.15 0.01	0.17 0.02	\$0.34 \$0.89	\$0.44 \$1.20	F	F
MPS Retail	Cooling_Chillers	Electric		New	3.14 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		20	50.0%	90.0%	45.0%	0.083	2.30	0.03	0.06	\$1.68	\$2.29	F	F
MPS Retail MPS Retail	Cooling_DX Cooling_DX	Electric Electric		New New	3.14 Ceiling R-19 to R-38 Insulation 3.14 High Efficiency Windows, Low-e: U=0.35	0.9% 5.0%		20 30	50.0% 75.0%	100.0% 100.0%	50.0% 75.0%	0.028 0.157	3.14 3.13	0.01 0.12	0.03 0.16	\$0.00 \$0.05	\$0.00 \$0.05	A B	C
MPS Retail	Cooling_DX	Electric		New	3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.24	10	50.0%	100.0%	50.0%	0.314	3.01	0.15	0.30	\$0.12	\$0.13	F	F
MPS Retail MPS Retail	Cooling_DX Cooling_DX	Electric Electric		New New	3.14 DX Tune-Up / Diagnostics 3.14 Cool Roofs (Reflective and Spray Evaporative)	10.0% 6.9%		3 10	100.0% 50.0%	10.0% 100.0%	10.0% 50.0%	0.314 0.217	2.86 2.83	0.03	0.29 0.20	\$0.26 \$0.34	\$0.29 \$0.38	F F	F
MPS Retail	Cooling_DX	Electric		New	3.14 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%		10	25.0%	95.0%	23.8%	0.314	2.73	0.06	0.27	\$0.37	\$0.42	F	F
MPS Retail MPS Retail	Cooling_DX Cooling_HeatPump	Electric Electric		New New	3.14 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 3.14 High Efficiency Windows, Low-e; U=0.35	2.6% 5.0%		20 30		90.0% 100.0%	45.0% 75.0%	0.083 0.157	2.67 3.14	0.03 0.12	0.07 0.16	\$1.68 \$0.05	\$1.98 \$0.05	F B	F B
MPS Retail	Cooling_HeatPump	Electric	Stock	New	3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.24	10	50.0%	100.0%	50.0%	0.314	3.02	0.15	0.30	\$0.12	\$0.13	F	F
MPS Retail MPS Retail	Cooling_HeatPump Cooling HeatPump	Electric Electric		New New	3.14 DX Tune-Up / Diagnostics 3.14 Cool Roofs (Reflective and Spray Evaporative)	10.0% 6.9%		3 10	100.0% 50.0%	10.0% 100.0%	10.0% 50.0%	0.314 0.217	2.87 2.84	0.03	0.29 0.20	\$0.26 \$0.34	\$0.29 \$0.38	F	F
MPS Retail	Cooling_HeatPump	Electric		New	3.14 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%		10		95.0%	23.8%	0.314	2.74	0.07	0.27	\$0.37	\$0.42	F	F
MPS Retail MPS Retail	Cooling_HeatPump Cooling_HeatPump	Electric Electric		New New	3.14 Ceiling R-19 to R-38 Insulation 3.14 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%		20 20		100.0% 90.0%	50.0% 45.0%	0.028	2.68 2.67	0.01	0.02 0.07	\$0.89 \$1.68	\$1.04 \$1.98	F	F
MPS Retail	Lighting_2L4T12	Electric	Stock	New	5.89 4' 1L T8 Premium, EB, reflector	61.1%	\$ 1.80	25	33.3%	100.0%	33.3%	3.599	5.89	1.20	3.60	\$0.05	\$0.05	Ċ	Ċ
MPS Retail MPS Retail	Lighting_2L4T12 Lighting_2L4T12	Electric Flectric		New New	5.89 4' 2L T8 Premium, EB 5.89 4' 1L T5HO, EB	25.0% 13.9%		25 25	33.3% 33.3%	100.0% 100.0%	33.3% 33.3%	1.473 0.819	5.89 5.89	0.49 0.27	1.47 0.82	\$0.06 \$0.08	\$0.06 \$0.08	C F	C F
MPS Retail	Lighting_2L4T12	Electric		New	5.89 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	\$ 4.35	18	50.0%	100.0%	50.0%	4.418	5.89	2.21	4.42	\$0.11	\$0.11	F	F
MPS Retail MPS Retail	Lighting_2L4T8 Lighting_2L8T12	Electric Electric		New New	4.71 4' 2L T8 Premium, EB 5.89 8' 2L T8. EB	8.5% 52.8%		25 25		100.0% 100.0%	100.0% 50.0%	0.400 3.110	4.71 5.89	0.40 1.55	0.40 3.11	\$0.07 \$0.01	\$0.07 \$0.01	D A	D A
MPS Retail	Lighting_2L8T12	Electric	Stock	New	5.89 8' 1L T12, 60W, EB, reflector	55.3%	\$ 0.96	25	25.0%	100.0%	25.0%	3.257	5.89	0.81	3.26	\$0.03	\$0.03	Α	Α
MPS Retail MPS Retail	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	5.89 8' 2L T12, 60W, EB 5.89 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% 75.0%		25 18	25.0% 20.0%	95.4% 100.0%	23.9% 20.0%	0.623 4.418	5.89 5.89	0.15 0.88	0.62 4.42	\$0.03 \$0.13	\$0.03 \$0.13	B F	B F
MPS Retail	Lighting_3L4T12	Electric	Stock	New	5.89 4' 1L T5HO, EB	46.1%	\$ 0.12	25	25.0%	100.0%	25.0%	2.715	5.89	0.68	2.71	\$0.00	\$0.00	Α	A
MPS Retail MPS Retail	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		New New	5.89 4' 3L T8, EB 5.89 4' 2L T8 Premium, EB, reflector	22.6% 53.0%		25 25		100.0% 100.0%	25.0% 25.0%	1.332 3.124	5.89 5.89	0.33 0.78	1.33 3.12	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
MPS Retail	Lighting_3L4T12	Electric	Stock	New	5.89 4' 3L T8 Premium, EB	22.6%	\$ 0.31	25	25.0%	100.0%	25.0%	1.332	5.89	0.33	1.33	\$0.02	\$0.02	Α	A
MPS Retail MPS Retail	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		New New	4.71 4' 3L T8 Premium, EB 5.89 4' 3L T8. EB	6.7% 38.2%		25 25		100.0% 100.0%	100.0% 16.7%	0.316 2.250	4.71 5.89	0.32	0.32 2.25	\$0.15 \$0.00	\$0.15 \$0.00	F A	F A
MPS Retail	Lighting_4L4T12	Electric	Stock	New	5.89 4' 3L T8 Premium, EB	42.4%	\$ 0.35	25	16.7%	100.0%	16.7%	2.495	5.89	0.42	2.50	\$0.01	\$0.01	A	A
MPS Retail MPS Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	5.89 4' 4L T8, EB 5.89 4' 2L T8 Premium, EB, reflector	22.2% 62.5%		25 25	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.309 3.681	5.89 5.89	0.22	1.31 3.68	\$0.02 \$0.02	\$0.02 \$0.02	A A	A
MPS Retail	Lighting_4L4T12	Electric	Stock	New	5.89 4' 2L T5HO, EB	18.8%	\$ 0.32	25	16.7%	100.0%	16.7%	1.104	5.89	0.18	1.10	\$0.03	\$0.03	Α	Α
MPS Retail MPS Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	5.89 4' 4L T8 Premium, EB 5.89 Continuous Dimming, 5-4' Fluorescent Fixtures	25.0% 75.0%		25 18		100.0% 100.0%	16.7% 50.0%	1.473 4.418	5.89 5.89	0.25 2.21	1.47 4.42	\$0.04 \$0.11	\$0.04 \$0.11	B F	B F
MPS Retail	Lighting_4L4T8	Electric	Stock	New	4.71 4' 4L T8 Premium, EB	3.6%	\$ 0.34	25	100.0%	100.0%	100.0%	0.170	4.71	0.17	0.17	\$0.19	\$0.19	F	F
MPS Retail MPS Retail	Lighting_INC150W Plug_Load	Electric Electric		New New	5.89 HPS, 50W 0.15 Smart Networks	56.0% 6.4%		8 4	45.0% 90.0%	91.6% 40.0%	41.2% 36.0%	3.298 0.010	5.89 0.15	1.36 0.00	3.30 0.01	\$0.29 \$0.02	\$0.29 \$0.02	F A	F A
MPS Retail	Plug_Load	Electric	Stock	New	0.15 ENERGY STAR or Better Office Equipment: Monitors	15.3%	\$ 0.01	4	100.0%	71.0%	71.0%	0.023	0.15	0.02	0.02	\$0.10	\$0.11	F	F
MPS Retail MPS Retail	Plug_Load Plug_Load	Electric Electric		New New	0.15 ENERGY STAR or Better Office Equipment: Copiers 0.15 ENERGY STAR or Better Office Equipment: Computer	9.6% 17.2%		4	100.0% 100.0%	33.0% 65.0%	33.0% 65.0%	0.014 0.026	0.13 0.13	0.00 0.01	0.01 0.02	\$0.12 \$0.18	\$0.13 \$0.22	F F	F
MPS Retail	Plug_Load	Electric	Stock	New	0.15 ENERGY STAR or Better Office Equipment: Printers	14.6%	\$ 0.02	4	100.0%	99.0%	99.0%	0.022	0.11	0.02	0.02	\$0.31	\$0.41	F	F
MPS Retail MPS Retail	Space_Heat Space Heat	Electric Electric		New New	4.59 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.59 Ceiling R-19 to R-38 Insulation	5.0% 3.0%		15 20	50.0% 50.0%	100.0% 55.7%	50.0% 27.9%	0.230 0.138	4.59 4.48	0.11	0.23 0.13	\$0.15 \$0.18	\$0.15 \$0.19	F F	F F
MPS Retail	Space_Heat	Electric		New	4.59 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		20	50.0%	90.0%	45.0%	0.121	4.44	0.05	0.12	\$1.15	\$1.19	Ē	F
MPS Retail MPS Retail	Water_Heat Water Heat	Electric Flectric		New New	1.01 Heat Pump Water Heater 1.01 Demand controlled circulating systems	30.0% 5.0%		15 15	75.0% 50.0%	100.0% 100.0%	75.0% 50.0%	0.303 0.051	1.01 0.78	0.23	0.30 0.04	\$1.01 \$9.50	\$1.01 \$12.26	F F	F
MPS School	Cooling_Chillers	Electric	Stock	New	1.51 EMS Optimization	1.0%	\$ -	5	100.0%	50.0%	50.0%	0.015	1.51	0.01	0.02	\$0.00	\$0.00	A	A
MPS School MPS School	Cooling_Chillers Cooling Chillers	Electric Flectric	Stock Stock	New New	1.51 High Efficiency Windows, Low-e; U=0.35 1.51 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	3.9% 7.5%		30 15		66.0% 90.0%	49.5% 60.3%	0.059 0.113	1.50 1.47	0.03	0.06 0.11	\$0.03 \$0.09	\$0.03 \$0.09	A E	A F
MPS School	Cooling_Chillers	Electric	Stock	New	1.51 Primary/Secondary De-coupled Chilled Water System	12.0%	\$ 0.34	15	50.0%	80.0%	40.0%	0.181	1.41	0.07	0.17	\$0.23	\$0.25	F	F
MPS School MPS School	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.51 Optimize Chilled Water and Condenser Water Settings	10.0% 5.0%		10 10		100.0% 50.0%	50.0% 16.5%	0.151 0.076	1.34 1.27	0.07 0.01	0.13 0.06	\$0.23 \$0.31	\$0.26 \$0.37	F	F
MPS School	Cooling_Chillers	Electric	Stock	New	1.51 Cool Roofs (Reflective and Spray Evaporative)	6.1%	\$ 0.24	10	90.0%	100.0%	90.0%	0.093	1.26	0.07	0.08	\$0.40	\$0.48	F	F
MPS School MPS School	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	1.51 Ceiling R-19 to R-38 Insulation 1.51 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%		20 20	50.0% 50.0%	23.4% 90.0%	11.7% 45.0%	0.014 0.040	1.19 1.19	0.00	0.01 0.03	\$1.83 \$3.50	\$2.31 \$4.44	F	F
MPS School	Cooling_DX	Electric	Stock	New	1.51 Ceiling R-19 to R-38 Insulation	0.9%	\$ -	20	50.0%	23.4%	11.7%	0.014	1.51	0.00	0.01	\$0.00	\$0.00	A	A
MPS School MPS School	Cooling_DX	Electric		New New	1.51 High Efficiency Windows, Low-e; U=0.35	5.0% 10.0%		30 10		66.0% 100.0%	49.5% 50.0%	0.076 0.151	1.51 1.47	0.04	0.08	\$0.05 \$0.23	\$0.05 \$0.24	C F	C
MPS School	Cooling_DX Cooling_DX	Electric Electric	Stock Stock	New New	 1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.51 Cool Roofs (Reflective and Spray Evaporative) 	10.0% 6.1%		10 10		100.0%	50.0% 50.0%	0.151	1.47	0.07		\$0.23 \$0.40	\$0.24 \$0.43	F	F
MPS School	Cooling_DX	Electric	Stock	New	1.51 DX Tune-Up / Diagnostics	10.0%		3	100.0%	10.0%	10.0%	0.151	1.35	0.01	0.14	\$0.49	\$0.55	F	F
MPS School MPS School	Cooling_DX Cooling_DX	Electric Electric		New New	1.51 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 1.51 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	10.0% 2.6%		10 20	50.0%	95.0% 90.0%	23.8% 45.0%	0.151 0.040	1.34 1.31	0.03 0.02		\$0.69 \$3.50	\$0.77 \$4.04	F F	F
MPS School	Cooling_HeatPump	Electric	Stock	New	1.51 High Efficiency Windows, Low-e; U=0.35	5.0%	\$ 0.04	30	75.0%	66.0%	49.5%	0.076	1.51	0.04	0.08	\$0.05	\$0.05	C	C
MPS School	Cooling_HeatPump	Electric	STOCK	New	1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.22	10	50.0%	100.0%	50.0%	0.151	1.47	0.07	0.15	\$0.23	\$0.24	F	۲

Area Building Type	e End-Use	Fuel	Efficience	cy Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Enorav	Stand Alone Cost Group	Stacked Cost Group
MPS School	Cooling_HeatPump			New	1.51 Cool Roofs (Reflective and Spray Evaporative)	6.1%		10	50.0%	100.0%	50.0%	0.093	1.40	0.04	0.09	\$0.40	\$0.43	F	F
MPS School MPS School	Cooling_HeatPump Cooling_HeatPump			New New	1.51 DX Tune-Up / Diagnostics1.51 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%		3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.151 0.151	1.36 1.34	0.01	0.14 0.13	\$0.49 \$0.69	\$0.55 \$0.77	F	F F
MPS School	Cooling_HeatPump	Electric	Stock	New	1.51 Ceiling R-19 to R-38 Insulation	0.9%	0.23	20	50.0%	23.4%	11.7%	0.014	1.31	0.00	0.01	\$1.83	\$2.10	F	F
MPS School MPS School	Cooling_HeatPump Lighting_2L4T12		Stock Stock	New New	1.51 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 2.68 4' 1L T8 Premium, EB, reflector	2.6% 61.1%		20 34	50.0% 33.3%	90.0% 100.0%	45.0% 33.3%	0.040 1.638	1.31 2.68	0.02	0.03 1.64	\$3.50 \$0.08	\$4.04 \$0.08	F E	F
MPS School	Lighting_2L4T12	Electric	Stock	New	2.68 4' 2L T8 Premium, EB	25.0%	0.69	34	33.3%	100.0%	33.3%	0.670	2.68	0.22	0.67	\$0.09	\$0.09	Ē	Ē
MPS School MPS School	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		New New	2.68 4' 1L T5HO, EB 2.68 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% 75.0%		34 24		100.0% 100.0%	33.3% 30.0%	0.373 2.010	2.68 2.68	0.12 0.60		\$0.12 \$0.17		F	F F
MPS School	Lighting_2L4T8	Electric	Stock	New	2.14 4' 2L T8 Premium, EB	8.5%	0.24	34	100.0%	100.0%	100.0%	0.182	2.14	0.18	0.18	\$0.11	\$0.11	F	F
MPS School MPS School	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	2.68 8' 2L T8, EB 2.68 8' 1L T12, 60W, EB, reflector	52.8% 55.3%		34 34	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	1.415 1.482	2.68 2.68	0.71 0.37	1.42	\$0.02 \$0.05	\$0.02 \$0.05	A C	A C
MPS School	Lighting_2L8T12	Electric	Stock	New	2.68 8' 2L T12, 60W, EB	10.6%	0.17	34	25.0%	32.9%	8.2%	0.283	2.68	0.02	0.28	\$0.05	\$0.05	c	Ċ
MPS School	Lighting_2L8T12 Lighting_3L4T12	Electric		New New	2.68 Continuous Dimming, 5-8' Fluorescent Fixtures 2.68 4' 1L T5HO_FB	75.0% 46.1%		24 34	30.0% 25.0%	100.0% 100.0%	30.0% 25.0%	2.010 1.235	2.68 2.68	0.60	2.01 1.24	\$0.20 \$0.00	\$0.20 \$0.00	F A	F A
MPS School	Lighting_3L4T12		Stock	New	2.68 4' 3L T8, EB	22.6%	0.04	34		100.0%	25.0%	0.606	2.68	0.15	0.61	\$0.01	\$0.01	Ä	Ä
MPS School MPS School	Lighting_3L4T12 Lighting_3L4T12	Electric		New New	2.68 4' 2L T8 Premium, EB, reflector 2.68 4' 3L T8 Premium, EB	53.0% 22.6%		34 34	25.0% 25.0%	100.0% 100.0%	25.0% 25.0%	1.422 0.606	2.68 2.68	0.36 0.15		\$0.01 \$0.02	\$0.01 \$0.02	A A	A
MPS School	Lighting_3L4T8	Electric		New	2.14 4' 3L T8 Premium, EB	6.7%		34	100.0%	100.0%	100.0%	0.143	2.14	0.14	0.14	\$0.02	\$0.02	F	F
MPS School MPS School	Lighting_4L4T12 Lighting_4L4T12	Electric	Stock Stock	New New	2.68 4' 3L T8, EB 2.68 4' 3L T8 Premium, EB	38.2% 42.4%		34 34		100.0% 100.0%	16.7% 16.7%	1.024 1.135	2.68 2.68	0.17 0.19	1.02 1.14	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS School	Lighting_4L4T12	Electric		New	2.68 4' 4L T8, EB	22.2%	0.18	34	16.7%	100.0%	16.7%	0.596	2.68	0.10	0.60	\$0.03	\$0.03	Ä	Ä
MPS School MPS School	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	2.68 4' 2L T8 Premium, EB, reflector 2.68 4' 2L T5HO, EB	62.5% 18.8%		34 34	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.675 0.503	2.68 2.68	0.28 0.08		\$0.04 \$0.05	\$0.04 \$0.05	B C	B C
MPS School	Lighting_4L4T12	Electric		New	2.68 4' 4L T8 Premium, EB	25.0%		34		100.0%	16.7%	0.670	2.68	0.00	0.67	\$0.05	\$0.05	c	c
MPS School	Lighting_4L4T12	Electric		New	2.68 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% 3.6%		24 34	30.0% 100.0%	100.0%	30.0%	2.010 0.077	2.68 2.14	0.60	2.01 0.08	\$0.17 \$0.31	\$0.17 \$0.31	F	F
MPS School MPS School	Lighting_4L4T8 Lighting_INC150W	Electric Electric		New New	2.14 4' 4L T8 Premium, EB 2.68 HPS, 50W	56.0%		34 12		100.0% 85.5%	100.0% 38.5%	1.501	2.14	0.08		\$0.31		F	F
MPS School	Plug_Load	Electric		New New	0.11 Smart Networks 0.11 ENERGY STAR or Better Office Equipment: Copiers	7.2% 9.0%		4	90.0% 100.0%	40.0% 33.0%	36.0% 33.0%	0.008	0.11 0.11	0.00	0.01 0.01	\$0.19 \$0.48	\$0.19 \$0.49	F	F
MPS School	Plug_Load Plug_Load	Electric		New New	0.11 ENERGY STAR or Better Office Equipment: Copiers 0.11 ENERGY STAR or Better Office Equipment: Monitors	17.3%	0.06	4	100.0%	71.0%	71.0%	0.019	0.10	0.01	0.02	\$0.48 \$0.99	\$0.49 \$1.05	F	F
MPS School	Plug_Load	Electric		New	0.11 ENERGY STAR or Better Office Equipment: Printers	11.2%		4	100.0%	99.0%	99.0%	0.012	0.09	0.01	0.01	\$1.69	\$2.04	F	F
MPS School MPS School	Plug_Load Space_Heat	Electric Electric	Stock	New New	0.11 ENERGY STAR or Better Office Equipment: Computer 2.77 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	19.5% 5.0%		15	100.0% 50.0%	65.0% 100.0%	65.0% 50.0%	0.021 0.139	0.08 2.77	0.01 0.07	0.02 0.14	\$1.77 \$0.25	\$2.40 \$0.25	F	F
MPS School	Space_Heat	Electric		New	2.77 Ceiling R-19 to R-38 Insulation	3.0%		20	50.0%	44.9%	22.5%	0.083	2.70	0.02	0.08	\$0.30	\$0.31	F	F
MPS School MPS School	Space_Heat Water Heat	Electric	Stock Stock	New New	2.77 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 0.9 Heat Pump Water Heater	2.6% 30.0%		20 15	50.0% 75.0%	90.0% 87.2%	45.0% 65.4%	0.073 0.270	2.68 0.90	0.03	0.07 0.27	\$1.91 \$1.15	\$1.97 \$1.15	F	F
MPS School	Water_Heat	Electric		New	0.9 Demand controlled circulating systems	5.0%		15		100.0%	50.0%	0.045	0.72	0.02		\$10.86		F	F
MPS Small_Office MPS Small Office	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	4.19 EMS Optimization 4.19 High Efficiency Windows, Low-e; U=0.35	1.0% 9.3%		5 30		50.0% 99.4%	50.0% 74.6%	0.042 0.388	4.19 4.17	0.02		\$0.00 \$0.01	\$0.00 \$0.01	A	A
MPS Small_Office	Cooling_Chillers	Electric	Stock	New	4.19 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%		15		90.0%	60.3%	0.314	3.88	0.18	0.29	\$0.04	\$0.04	В	В
MPS Small_Office MPS Small Office	Cooling_Chillers Cooling_Chillers	Electric		New New	4.19 Primary/Secondary De-coupled Chilled Water System 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%		15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.503 0.419	3.71 3.53	0.18 0.18		\$0.11 \$0.11	\$0.12 \$0.13	F	F
MPS Small_Office	Cooling_Chillers	Electric		New	4.19 Optimize Chilled Water and Condenser Water Settings	5.0%	0.20	10	33.0%	50.0%	16.5%	0.210	3.35	0.03	0.17	\$0.15	\$0.19	F	F
MPS Small_Office MPS Small_Office	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	4.19 Ceiling R-19 to R-38 Insulation 4.19 Cool Roofs (Reflective and Spray Evaporative)	0.9% 1.8%		20 10		8.7% 100.0%	4.4% 90.0%	0.038 0.076	3.32 3.32	0.00	0.03 0.06	\$0.46 \$0.49	\$0.58 \$0.62	F	F
MPS Small_Office	Cooling_Chillers	Electric		New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		20	50.0%	90.0%	45.0%	0.110	3.27	0.04	0.09	\$1.26	\$1.62	F	F
MPS Small_Office MPS Small_Office	Cooling_DX Cooling_DX	Electric Electric		New New	4.19 Ceiling R-19 to R-38 Insulation 4.19 High Efficiency Windows, Low-e; U=0.35	0.9% 5.0%		20 30	50.0% 75.0%	8.7% 99.4%	4.4% 74.6%	0.038 0.210	4.19 4.19	0.00 0.16		\$0.00 \$0.06		A D	A D
MPS Small_Office	Cooling_DX	Electric	Stock	New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.29	10	50.0%	100.0%	50.0%	0.419	4.03	0.20	0.40	\$0.11	\$0.11	F	F
MPS Small_Office MPS Small Office	Cooling_DX Cooling_DX	Electric Electric		New New	 4.19 DX Tune-Up / Diagnostics 4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Coolin 	10.0% 10.0%		3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.419 0.419	3.83 3.79	0.04	0.38 0.38	\$0.24 \$0.33	\$0.26 \$0.36	F	F
MPS Small_Office	Cooling_DX	Electric		New	4.19 Cool Roofs (Reflective and Spray Evaporative)	1.8%		10		100.0%	50.0%	0.076	3.70	0.03		\$0.49		F	F
MPS Small_Office MPS Small Office	Cooling_DX Cooling_HeatPump		Stock	New New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.19 High Efficiency Windows, Low-e; U=0.35	2.6% 5.0%		20 30	50.0% 75.0%	90.0% 99.4%	45.0% 74.6%	0.110	3.67 4.19	0.04	0.10 0.21	\$1.26 \$0.06	\$1.44 \$0.06	F D	F D
MPS Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%		10		100.0%	50.0%	0.419	4.03	0.20	0.40	\$0.11	\$0.11	F	F
MPS Small_Office MPS Small Office	Cooling_HeatPump Cooling HeatPump			New New	4.19 DX Tune-Up / Diagnostics4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% 10.0%		3 10	100.0% 25.0%	10.0% 95.0%	10.0% 23.8%	0.419 0.419	3.83 3.79	0.04	0.38 0.38	\$0.24 \$0.33	\$0.26 \$0.36	F	F F
MPS Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19 Ceiling R-19 to R-38 Insulation	0.9%	0.16	20	50.0%	8.7%	4.4%	0.038	3.70	0.00	0.03	\$0.46	\$0.52	F	F
MPS Small_Office MPS Small_Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		New New	4.19 Cool Roofs (Reflective and Spray Evaporative) 4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.8% 2.6%		10 20		100.0% 90.0%	50.0% 45.0%	0.076 0.110	3.70 3.67	0.03	0.07 0.10	\$0.49 \$1.26	\$0.56 \$1.44	F	F F
MPS Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29 4' 1L T8 Premium, EB, reflector	61.1%	1.58	16	33.3%	100.0%	33.3%	3.233	5.29	1.08	3.23	\$0.06	\$0.06	Ċ	Ċ
MPS Small_Office MPS Small_Office	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		New New	5.29 4' 2L T8 Premium, EB 5.29 4' 1L T5HO, EB	25.0% 13.9%		16 16		100.0% 100.0%	33.3% 33.3%	1.323 0.735	5.29 5.29	0.44 0.25	1.32 0.74	\$0.07 \$0.09		D E	D E
MPS Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	3.82	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.14	\$0.14	F	F
MPS Small_Office MPS Small Office	Lighting_2L4T8 Lighting_2L8T12	Electric Electric	Stock Stock	New New	4.24 4' 2L T8 Premium, EB 5.29 8' 2L T8. EB	8.5% 52.8%		16 16	100.0% 50.0%	100.0% 100.0%	100.0% 50.0%	0.360 2.793	4.24 5.29	0.36 1.40		\$0.09 \$0.02	\$0.09 \$0.02	E A	E A
MPS Small_Office	Lighting_2L8T12	Electric	Stock	New	5.29 8' 1L T12, 60W, EB, reflector	55.3%	0.79	16	25.0%	100.0%	25.0%	2.925	5.29	0.73	2.93	\$0.03	\$0.03	В	В
MPS Small_Office MPS Small Office	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	5.29 8' 2L T12, 60W, EB 5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% 75.0%		16 11		26.6% 100.0%	6.6% 40.0%	0.559 3.968	5.29 5.29	0.04 1.59	0.56 3.97	\$0.04 \$0.15		B F	B F
MPS Small_Office	Lighting_3L4T12	Electric	Stock	New	5.29 4' 1L T5HO, EB	46.1%	0.05	16	25.0%	100.0%	25.0%	2.438	5.29	0.61	2.44	\$0.00	\$0.00	A	Ä
MPS Small_Office MPS Small Office	Lighting_3L4T12 Lighting_3L4T12	Electric		New New	5.29 4' 3L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.6% 53.0%		16 16	25.0% 25.0%	100.0% 100.0%	25.0% 25.0%	1.196 2.806	5.29 5.29	0.30		\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
MPS Small_Office	Lighting_3L4T12	Electric	Stock	New	5.29 4' 3L T8 Premium, EB	22.6%	0.13	16	25.0%	100.0%	25.0%	1.196	5.29	0.30	1.20	\$0.01	\$0.01	Α	Α
MPS Small_Office MPS Small Office	Lighting_3L4T8 Lighting_4L4T12	Electric Electric	Stock Stock	New New	4.24 4' 3L T8 Premium, EB 5.29 4' 3L T8. EB	6.7% 38.2%		16 16	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.284 2.021	4.24 5.29	0.28	0.28 2.02	\$0.18 \$0.01	\$0.18 \$0.01	F A	F A
MPS Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29 4' 3L T8 Premium, EB	42.4%	0.32	16	16.7%	100.0%	16.7%	2.241	5.29	0.37	2.24	\$0.02	\$0.02	Α	A
MPS Small_Office MPS Small Office	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	5.29 4' 4L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.2% 62.5%		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.176 3.306	5.29 5.29	0.20 0.55	1.18 3.31	\$0.02 \$0.03	\$0.02 \$0.03	A	A
MPS Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29 4' 2L T5HO, EB	18.8%	0.29	16	16.7%	100.0%	16.7%	0.992	5.29	0.17	0.99	\$0.03	\$0.03	В	В
MPS Small_Office MPS Small Office	Lighting_4L4T12 Lighting_4L4T12	Electric	Stock	New New	5.29 4' 4L T8 Premium, EB 5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	25.0% 75.0%		16 11	16.7% 40.0%	100.0% 100.0%	16.7% 40.0%	1.323 3.968	5.29 5.29	0.22 1.59		\$0.04 \$0.15		B	B
MPS Small_Office	Lighting_4L4T8	Electric	Stock	New	4.24 4' 4L T8 Premium, EB	3.6%	\$ 0.30	16	100.0%	100.0%	100.0%	0.153	4.24	0.15	0.15	\$0.24	\$0.24	F	F
MPS Small_Office	Lighting_INC150W	Electric		New New	5.29 HPS, 50W 1.59 Smart Networks	56.0% 9.1%		6	45.0% 90.0%	93.9% 40.0%	42.2% 36.0%	2.962 0.145	5.29 1.59	1.25 0.05		\$0.38 \$0.02	\$0.38 \$0.02	F A	F A
MPS Small_Office MPS Small_Office	Plug_Load Plug_Load	Electric		New New	1.59 ENERGY STAR or Better Office Equipment: Monitors	9.1% 21.9%	0.09	4	100.0%	71.0%	71.0%	0.349	1.54	0.24	0.34	\$0.02 \$0.09	\$0.09	E E	Ē
MPS Small_Office MPS Small Office	Plug_Load Plug_Load	Electric		New New	1.59 ENERGY STAR or Better Office Equipment: Copiers 1.59 ENERGY STAR or Better Office Equipment: Computer	4.8% 24.7%		4	100.0% 100.0%	33.0% 65.0%	33.0% 65.0%	0.077 0.393	1.30 1.28	0.02		\$0.14 \$0.15		F	F
MPS Small_Office	Plug_Load Plug_Load	Electric		New New	1.59 ENERGY STAR or Better Office Equipment: Printers	24.7% 8.0%	\$ 0.10	4	100.0%	99.0%	99.0%	0.127	1.07	0.09	0.09	\$0.15 \$0.26	\$0.39	F	F
MPS Small_Office	Space_Heat	Electric	Stock	New	6.18 Ceiling R-19 to R-38 Insulation	3.0%	0.16	20	50.0%	12.9%	6.5%	0.185	6.18	0.01	0.19	\$0.09		E	E
MPS Small_Office MPS Small_Office	Space_Heat Space_Heat	Electric Electric	Stock Stock	New New	6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 6.18 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	5.0% 2.6%		15 20	50.0% 50.0%	100.0% 90.0%	50.0% 45.0%	0.309 0.163	6.17 6.01	0.15 0.07	0.31 0.16	\$0.11 \$0.86	\$0.11 \$0.88	F	F
MPS Small_Office	Water_Heat	Electric	Stock	New	0.95 Heat Pump Water Heater	30.0%		15		100.0%	75.0%	0.285	0.95	0.21		\$0.25		F	F
MPS Small_Office MPS Warehouse	Water_Heat Cooling_Chillers	Electric	Stock Stock	New New	0.95 Demand controlled circulating systems 1.66 EMS Optimization	5.0% 1.0%		15 5		93.2% 50.0%	46.6% 50.0%	0.048 0.017	0.74 1.66	0.02		\$2.35 \$0.00		F A	F A
MPS Warehouse	Cooling_Chillers		Stock	New	1.66 High Efficiency Windows, Low-e; U=0.35	5.4%		30		100.0%	75.0%		1.65	0.07		\$0.01		A	A

Section Control Cont	Area Building Type	e End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
March Color Colo												60.3%						\$0.03		В
No. Control						1.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)													_	E
18 18 18 18 18 18 18 18		Cooling_Chillers				1.66 Optimize Chilled Water and Condenser Water Settings													F	F
1. 1. 1. 1. 1. 1. 1. 1.		Cooling_Chillers					0.9%	\$ 0.23											F	F
March Color Colo																			F A	F A
March Company Compan	MPS Warehouse	Cooling_DX	Electric	Stock	New	1.66 High Efficiency Windows, Low-e; U=0.35	5.0%	\$ 0.03	30	75.0%	100.0%	75.0%	0.083	1.66	0.06	0.08	\$0.03	\$0.03	В	В
West						1.66 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.66 DX Tune-Up / Diagnostics													E F	E F
Control Cont	MPS Warehouse	Cooling_DX	Electric	Stock	New	1.66 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	\$ 0.26	10	25.0%	95.0%	23.8%	0.166	1.50	0.04	0.15	\$0.25	\$0.28	F	F
West Control Contro																			F	F
15 March 15	MPS Warehouse	Cooling_HeatPump			New		5.0%	\$ 0.03	30	75.0%	100.0%	75.0%	0.083	1.66	0.06	0.08		\$0.03	_	В
March Control Contro																			F	F
March Control Contro																			F	F
March Marc	MPS Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66 Ceiling R-19 to R-38 Insulation	0.9%	\$ 0.23	20	50.0%	20.0%	10.0%	0.015	1.44	0.00	0.01	\$1.61	\$1.86	F	F
May Not May																			F C	F C
Mary	MPS Warehouse	Lighting_2L4T12	Electric	Stock	New	2.94 4' 2L T8 Premium, EB	25.0%	\$ 0.39	22	33.3%	100.0%	33.3%	0.735	2.94	0.25	0.74	\$0.05	\$0.05	С	С
Mary																				D F
Mary	MPS Warehouse	Lighting_2L4T8	Electric	Stock	New	2.36 4' 2L T8 Premium, EB	8.5%	\$ 0.13	22	100.0%	100.0%	100.0%	0.201	2.36		0.20				D
Mary Control Mary Mar																				A
Med March Med Me	MPS Warehouse	Lighting_2L8T12	Electric	Stock	New	2.94 8' 2L T12, 60W, EB	10.6%	\$ 0.10	22	25.0%	84.7%	21.2%	0.311	2.94	0.07	0.31	\$0.03	\$0.03	В	В
Mary																			A	A
March Marc		Lighting_3L4T12	Electric	Stock					22	25.0%				2.94						
March Marc																			A	A
Mart																				F
Mary Section Company	MPS Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94 4' 3L T8 Premium, EB	42.4%	\$ 0.16	22	16.7%	100.0%	16.7%	1.245	2.94	0.21	1.25	\$0.01	\$0.01		Ä
Mary Number		Lighting_4L4T12																	A	A
MES Merchand	MPS Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94 4' 2L T5HO, EB	18.8%	\$ 0.14	22	16.7%	100.0%	16.7%	0.551	2.94	0.09	0.55	\$0.03	\$0.03		A
Medical Control Cont																			B F	B F
Mary Numbers Mary	MPS Warehouse	Lighting_4L4T8	Electric	Stock	New	2.36 4' 4L T8 Premium, EB	3.6%	\$ 0.15	22	100.0%	100.0%	100.0%	0.085	2.36	0.08	0.08	\$0.18		Ē	Ē
March Marc																			F	F
MRS Marchands Pagl_Load Select		Plug_Load											0.028						F	F
Mary																			F	F
May Marchane Space Seef See		Plug_Load																	F	F
Mes Mest M																			F	F
MPS Mellenduse Wiles Flatel Electic Stock New 2 L. Demande controlled concluding systems 6.0% \$ 0.00 colors (). Coloring Children Electic Stock New 4 L. P. EMS Coloring Children Stock New 4 L. Coloring Children																			F	F
Sol Grockey Coloning Childres Educis Solos New 4 High Efficiency Mythodos, Low-st, Und 35 Coloning Childres Educis Solos New 4 High Efficiency Mythodos Coloning Childres Solos New 4 High Efficiency Mythodos New 4 New A New 4 New A New 4 New A New	MPS Warehouse	Water_Heat	Electric	Stock	New	0.42 Demand controlled circulating systems	5.0%	\$ 0.17	15	50.0%	100.0%	50.0%	0.021	0.33	0.01	0.02	\$0.98	\$1.26	F	F
Sol Grocey Cooling_Chillers Electic Stock New 4.1 Decreases Cooling Town Appendix Temperature, 300 Town, 6 Deg F 7.5% 8 0.11 15 87.0% 80.0% 60.3% 0.38 3.01 0.18 0.29 50.0%																				A A
Substitution Subs	SJD Grocery	Cooling_Chillers	Electric	Stock	New	4.1 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	\$ 0.11	15	67.0%	90.0%	60.3%	0.308	3.91	0.18	0.29	\$0.05	\$0.05		Ċ
Sub Grocery Cooling_Chillers Electric Stock New 4 Optimize Chillent Water and Confidence Water Settings 50% 8 0.21 10 33.0% 50.0% 10.9% 10.0%																			F	F
Substitution Subs		Cooling_Chillers				4.1 Optimize Chilled Water and Condenser Water Settings	5.0%	\$ 0.21	10	33.0%	50.0%	16.5%		3.38	0.03	0.17	\$0.17		F	F
Substitution Cooling_IX Electric Stock New At High Efficiency Windows, Lower, U-m35 Substitution Cooling_IX Electric Stock New At High Efficiency Windows, Lower, U-m35 Substitution Cooling_IX Electric Stock New At 10X Trans-Up/Diagnostics Cooling_IX Cooling_IX Electric Stock New At 10X Trans-Up/Diagnostics Cooling_IX Cooling_IX Electric Stock New At 10X Trans-Up/Diagnostics Cooling_IX Cooli																			F	F
Sub Grossey Cooling_CX Electric Stock New At Installation of Automated Building Ventilation Control (Via Occupancy Sensors, EC.) 10.0% \$ 0.32 10.50.0% 10.0% 50.0% 50.0% 0.40 3.35 0.20 0.39 80.12 \$ 5.00 \$																			F	F
Sun Groces Cooling_DX Electic Stock New 4.1 Installation of Direct of Indirect Evaporative Cooling, Evaporative F F Sun Groces Cooling_DX Electic Stock New 4.1 Cool Reflective and Spray Evaporative 4.3% Sun Groces Cooling_DX Electic Stock New 4.1 Cool Reflective and Spray Evaporative 4.3% Sun Groces Cooling_DX Electic Stock New 4.1 Cool Reflective and Spray Evaporative 4.3% Sun Groces Cooling_DX Electic Stock New 4.1 Cool Reflective and Spray Evaporative F F F F F F F F F	SJD Grocery	Cooling_DX	Electric	Stock	New		10.0%	\$ 0.32	10	50.0%	100.0%	50.0%	0.410	3.95	0.20	0.39	\$0.12	\$0.13	F	F
SJD Grocey Cooling_DX Electric Stock New 4.1 Coeling Parts February February Cooling_DX Electric Stock New 4.1 Celling Parts February Febru																			F F	F F
Sub Grocery Cooling_LNEAP Electric Stock New A.1 Halps Electric Stock New A.1 D.1 Target D.1 Tar	SJD Grocery	Cooling_DX	Electric	Stock	New	4.1 Cool Roofs (Reflective and Spray Evaporative)	4.3%	\$ 0.47	10	50.0%	100.0%	50.0%	0.176	3.62	0.08	0.16	\$0.42	\$0.48	F	F
Sub Grocey Cooling_HealPump Electric Stock New 4.1 High Efficiency Windows, Low-e; U=0.35 Sub Grocey Cooling_HealPump Electric Stock New 4.1 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Elc.) 10.0% \$0.32 10.0% 50.0% 10.0% 10.0% 0.41 0.375 0.04 0.37 0.03 80.33 8 B Sub																			F	F
SJD Grocery Cooling_HeatPump Electic Stock S	SJD Grocery	Cooling_HeatPump	Electric	Stock	New	4.1 High Efficiency Windows, Low-e; U=0.35		\$ 0.07				75.0%		4.10					В	В
SLD Grocery Cooling_HealPump Electric Stock New 4.1 Cool Roofs (Reflective and Syray Evaporative) 4.3% \$ 0.47 10 50.0% 10.00% 10.00% 50.0% 0.176 3.62 0.08 0.16 50.42 50.8 F F																			F	F
Sub Grocery Cooling_HeatPump Electric Stock New 4.1 Celling R-19 to R-3d Insulation 0.9% 0.24 20 50.0% 10.0% 10.0% 0.037 3.55 0.00 0.03 30.69 30.08 F F F F F F F F F F F F F F F F F F																			F	F
Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB, reflector Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 4' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_214T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lighting_114T12 Electric Slock New 12.76 6' Ll Ta Premium, EB Sub Grocery Lig													0.037	3.55					F	F
SJD Grocery Lighting_124T12 Electric Stock New 12.76 4 12.176 Premium, EB SJD Grocery Lighting_124T12 Electric Stock New 12.76 4 11.76 HO, EB SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_124T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_134T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_134T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_134T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_134T12 Electric Stock New 12.76 Continuous Dimming, 10-47 Fluorescent Fixtures SJD Grocery Lighting_134T12 Electric Stock New 12.76 Continuous Dimming, 10-																			F A	F A
SJD Grocery Lighting_2L4T12 Electric Stock New 12.76 Continuous Dimming, 10-4' Fluorescent Fixtures 75.0% 8 3.75 8 26.0% 100.	SJD Grocery	Lighting_2L4T12	Electric	Stock	New	12.76 4' 2L T8 Premium, EB	25.0%	\$ 0.76	12	33.3%	100.0%	33.3%	3.190	12.76	1.06	3.19	\$0.03	\$0.03	В	В
SJD Grocery Lighting_2L8T12 Electric Stock New 10.21 4'2 LTa Premium_EB SJD SJ																				
SJD Grocery Lighting_2L8T12 Electric Stock New 12.76 8 11. T12, 60W, EB, reflector 56.3% 50.2%	SJD Grocery	Lighting_2L4T8	Electric	Stock	New	10.21 4' 2L T8 Premium, EB	8.5%	\$ 0.26	12	100.0%	100.0%	100.0%	0.868	10.21	0.87	0.87	\$0.04	\$0.04	В	В
SJD Grocery Lighting_218T12 Electric Stock New 12.76 & 22.712, 60W, EB 10.6% \$ 0.18 12. 25.0% \$ 0.00 10.00% 25.0% \$ 13.46 13.49 12.76 & 0.18 13.5 50.02 50.08 E Electric Stock New 12.76 & 27.112, 60W, EB 10.00% 10.		Lighting 2L8T12																		A A
SJD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '11.TBHO, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '12.TB Premium, EB reflector SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '12.TB Premium, EB reflector SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '12.TB Premium, EB reflector SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '12.TB Premium, EB reflector SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '12.TB Premium, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_31.4T13 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_31.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New 12.76 4 '13.TB Premium, EB SDD Grocery Lighting_41.4T12 Electric Stock New	SJD Grocery	Lighting_2L8T12	Electric	Stock	New	12.76 8' 2L T12, 60W, EB	10.6%	\$ 0.18	12	25.0%	54.2%	13.6%	1.349	12.76	0.18	1.35	\$0.02	\$0.02	Α	A
SJD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8, EB Electric Stock New 12.76 4'3L T8, Premium, EB, reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_3L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB Reflector SLD Grocery Lighting_4L4T12 SLD G																				A
SJD Grocery Lighting_3L4T12 Electric Stock New 12,76 4*31. Ta Premium_EB Electric Stock New	SJD Grocery	Lighting_3L4T12							12	25.0%	100.0%				0.72					
SJD Grocery Lighting_4L4T12 Electric Stock New 10.21 4'31.T8 Premium, EB	SJD Grocery	Lighting_3L4T12	Electric	Stock	New	12.76 4' 3L T8 Premium, EB	22.6%	\$ 0.16	12	25.0%	100.0%	25.0%	2.885	12.76	0.72	2.88	\$0.01	\$0.01	Α	Α
SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB 42.4% \$ 0.31 12 16.7% 100.0% 16.7% 5.405 12.76 0.90 5.41 \$0.01 \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB + Reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector \$0.01 A A SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'3L T8 Premium, EB, reflector Stock New 12.76 4'3L T8 Premi		Lighting_3L4T8																		
SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'.2L T8 Premium, EB, reflector 62.5% \$ 0.74 12 16.7% 100.0% 16.7% 7.975 12.76 1.33 7.98 \$0.01 \$0.01 A A	SJD Grocery	Lighting_4L4T12	Electric	Stock	New	12.76 4' 3L T8 Premium, EB	42.4%	\$ 0.31	12	16.7%	100.0%	16.7%	5.405	12.76	0.90	5.41	\$0.01	\$0.01	Α	Α
SJD Grocery Lighting_4L4T12 Electric Stock New 12.76 4'2L15H0,EB 18.8% \$ 0.29 12 16.7% 100.0% 16.7% 2.393 12.76 0.40 2.39 \$0.02 A A	SJD Grocery SJD Grocery	Lighting_4L4T12 Lighting 4I 4T12																		
	SJD Grocery	Lighting_4L4T12																		Α

Are	a Building Type	e End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Enormy	Stand Alone Cost Group	Stacked Cost Group
	Grocery	Lighting_4L4T12	Electric	Stock	New	12.76 4' 4L T8 Premium, EB	25.0%		12		100.0%	16.7%	3.190	12.76	0.53	3.19	\$0.02	\$0.02	A	A
	Grocery Grocery	Lighting_4L4T12 Lighting_4L4T8	Electric		New New	12.76 Continuous Dimming, 5-4' Fluorescent Fixtures 10.21 4' 4L T8 Premium, EB	75.0% 3.6%		8 12		100.0% 100.0%	26.0% 100.0%	9.570 0.368	12.76 10.21	2.49 0.37	9.57 0.37	\$0.08 \$0.11	\$0.08 \$0.11	E F	E F
	Grocery	Lighting_INC150W	Electric		New New	12.76 HPS, 50W 0.41 Smart Networks	56.0%		4		94.3%	42.4%	7.146 0.027	12.76 0.41	3.03	7.15	\$0.41 \$0.01	\$0.41 \$0.01	F	F
	Grocery Grocery	Plug_Load Plug_Load	Electric Electric	Stock	New	0.41 Smart Networks 0.41 ENERGY STAR or Better Office Equipment: Monitors	6.6% 15.9%		4		40.0% 71.0%	36.0% 71.0%	0.027	0.41	0.01	0.03 0.06	\$0.01	\$0.01	A A	В
SJE	Grocery	Plug_Load	Electric		New	0.41 ENERGY STAR or Better Office Equipment: Computer	17.9%		4		65.0%	65.0%	0.073	0.36	0.04	0.06	\$0.05	\$0.06	C	D
SJE	Grocery Grocery	Plug_Load Plug_Load	Electric		New New	0.41 ENERGY STAR or Better Office Equipment: Printers 0.41 ENERGY STAR or Better Office Equipment: Copiers	13.0% 9.7%		4		99.0% 33.0%	99.0% 33.0%	0.053 0.040	0.31 0.27	0.04 0.01	0.04 0.03	\$0.07 \$0.10	\$0.10 \$0.15	F	F
SJE	Grocery	Refrigeration	Electric		New	28.13 Night Covers for Display Cases	5.8%	\$ 0.01	5	50.0%	95.0%	47.5%	1.631	28.13	0.77	1.63	\$0.00	\$0.00	A	A
SJE	Grocery Grocery	Refrigeration Refrigeration	Electric	Stock Stock	New New	28.13 Anti-Sweat (Humidistat) Controls 28.13 Demand Control Defrost - Electric	5.0% 7.8%	\$ 0.02 \$ 0.04	12 10		48.0% 48.0%	48.0% 48.0%	1.404 2.184	27.36 26.70	0.66 0.99	1.37 2.07	\$0.00 \$0.00	\$0.00 \$0.00	A A	A A
	Grocery Grocery	Refrigeration	Electric		New	28.13 Installation of Floating Condenser Head Pressure Controls	6.8%		14 4		44.4%	44.4%	1.921	25.71	0.78	1.76 1.00	\$0.01	\$0.01	A	A
	Grocery Grocery	Refrigeration Refrigeration	Electric Electric		New New	28.13 Strip Curtains for Walk-Ins 28.13 Demand Control Defrost - Hot Gas	4.0% 2.5%		10		30.0% 69.6%	30.0% 69.6%	1.132 0.705	24.93 24.63	0.30	0.62	\$0.01 \$0.01	\$0.02 \$0.02	A A	A
	Grocery	Refrigeration		Stock	New	28.13 Refrigeration Commissioning	5.0%		3 10		50.0%	50.0% 47.5%	1.407 1.745	24.20	0.60 0.69	1.21 1.46	\$0.02	\$0.02	A B	A
	Grocery Grocery	Refrigeration Refrigeration	Electric Electric		New New	28.13 Compressor VSD retrofit 28.13 High Efficiency Case Fans	6.2% 12.0%		16		95.0% 95.0%	47.5% 95.0%	3.370	23.59 22.90	2.61	2.74	\$0.04 \$0.04	\$0.04 \$0.05	В	С
	Grocery	Refrigeration		Stock	New	28.13 Reduced Speed or Cycling of Evaporator Fans	0.6%		5		80.0%	80.0%	0.155	20.29	0.09	0.11	\$0.16	\$0.22	F	F
SJE	Grocery Grocery	Space_Heat Space_Heat	Electric Electric	Stock	New New	5.42 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 5.42 Ceiling R-19 to R-38 Insulation	5.0% 3.0%	\$ 0.28 \$ 0.24	15 20		100.0% 85.0%	50.0% 42.5%	0.271 0.163	5.42 5.28	0.14	0.27 0.16	\$0.13 \$0.16	\$0.13 \$0.16	F	F
	Grocery	Space_Heat	Electric		New	5.42 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		20	50.0%	90.0%	45.0%	0.143	5.22	0.06		\$0.98	\$1.01	F	F
	Grocery Grocery	Water_Heat Water_Heat	Electric Electric	Stock	New New	Heat Pump Water Heater Demand controlled circulating systems	30.0% 5.0%		15 15		100.0% 100.0%	75.0% 50.0%	0.720 0.120	2.40 1.86	0.54 0.05	0.72 0.09	\$0.14 \$1.35	\$0.14 \$1.75	F	F
SJE) Health	Cooling_Chillers	Electric	Stock	New	3.36 EMS Optimization	1.0%	\$ -	5	100.0%	50.0%	50.0%	0.034	3.36	0.02	0.03	\$0.00	\$0.00	A	A
	Health Health	Cooling_Chillers Cooling Chillers	Electric	Stock Stock	New New	3.36 High Efficiency Windows, Low-e; U=0.35 3.36 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	1.2% 7.5%		30 15		66.0% 90.0%	49.5% 60.3%	0.039 0.252	3.34 3.32	0.02 0.15	0.04 0.25	\$0.03 \$0.08	\$0.03 \$0.08	B E	E
	Health	Cooling_Chillers	Electric		New	3.36 Primary/Secondary De-coupled Chilled Water System	12.0%		15		80.0%	40.0%	0.403	3.17	0.15		\$0.21	\$0.22	F	F
	Health Health	Cooling_Chillers Cooling_Chillers	Electric		New New	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.36 Optimize Chilled Water and Condenser Water Settings	10.0% 5.0%		10 10		100.0% 50.0%	50.0% 16.5%	0.336 0.168	3.02 2.87	0.15 0.02	0.30 0.14	\$0.21 \$0.28	\$0.23 \$0.33	F	F
SJE		Cooling_Chillers		Stock	New	3.36 Ceiling R-19 to R-38 Insulation		\$ 0.21	20	50.0%	20.0%	10.0%	0.030	2.85	0.00	0.03	\$0.75	\$0.89	F	F
	Health Health	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	3.36 Cool Roofs (Reflective and Spray Evaporative) 3.36 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.6% 2.6%		10 20		100.0% 90.0%	90.0% 45.0%	0.021 0.088	2.84 2.83	0.02	0.02 0.07	\$1.17 \$1.57	\$1.38 \$1.87	F	F
) Health	Cooling_DX		Stock	New	3.36 High Efficiency Windows, Low-e; U=0.35	5.0%	\$ 0.03	30	75.0%	66.0%	49.5%	0.168	3.36	0.08	0.17	\$0.02	\$0.02	Α	Α
SJE	Health Health	Cooling_DX Cooling_DX	Electric Electric		New New	3.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 3.36 DX Tune-Up / Diagnostics	10.0% 10.0%		10 3		100.0% 10.0%	50.0% 10.0%	0.336 0.336	3.28 3.11	0.16	0.33 0.31	\$0.21 \$0.44	\$0.21 \$0.48	F F	F F
) Health	Cooling_DX	Electric		New	3.36 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	\$ 1.31	10		95.0%	23.8%	0.336	3.08	0.07	0.31	\$0.62	\$0.67	F	F
	Health Health	Cooling_DX Cooling_DX	Electric	Stock Stock	New New	3.36 Ceiling R-19 to R-38 Insulation 3.36 Cool Roofs (Reflective and Spray Evaporative)	0.9% 0.6%		20 10		20.0% 100.0%	10.0% 50.0%	0.030 0.021	3.01 3.01	0.00 0.01	0.03 0.02	\$0.75 \$1.17	\$0.84 \$1.30	F	F
SJE) Health	Cooling_DX	Electric	Stock	New	3.36 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	\$ 1.31	20	50.0%	90.0%	45.0%	0.088	3.00	0.04	0.08	\$1.57	\$1.76	F	F
	Health Health	Cooling_HeatPump Cooling HeatPump	Electric Electric		New New	3.36 High Efficiency Windows, Low-e; U=0.353.36 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%		30 10		66.0% 100.0%	49.5% 50.0%	0.168 0.336	3.36 3.28	0.08	0.17 0.33	\$0.02 \$0.21	\$0.02 \$0.21	A F	A F
SJE) Health	Cooling_HeatPump	Electric	Stock	New	3.36 DX Tune-Up / Diagnostics	10.0%	\$ 0.35	3		10.0%	10.0%	0.336	3.11	0.03	0.31	\$0.44	\$0.48	F	F
) Health) Health	Cooling_HeatPump Cooling HeatPump			New New	3.36 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 3.36 Ceiling R-19 to R-38 Insulation	10.0% 0.9%		10 20		95.0% 20.0%	23.8% 10.0%	0.336	3.08 3.01	0.07	0.31 0.03	\$0.62 \$0.75	\$0.67 \$0.84	F	F
SJE		Cooling_HeatPump	Electric	Stock	New	3.36 Cool Roofs (Reflective and Spray Evaporative)	0.6%	\$ 0.16	10	50.0%	100.0%	50.0%	0.021	3.01	0.01	0.02	\$1.17	\$1.30	E	F
	Health Health	Cooling_HeatPump Lighting_2L4T12	Electric		New New	3.36 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 10.77 4' 1L T8 Premium, EB, reflector	2.6% 61.1%		20 12		90.0% 100.0%	45.0% 33.3%	0.088 6.582	3.00 10.77	0.04 2.19	0.08 6.58	\$1.57 \$0.03	\$1.76 \$0.03	F B	F B
SJE	Health	Lighting_2L4T12	Electric		New	10.77 4' 2L T8 Premium, EB	25.0%	\$ 0.76	12	33.3%	100.0%	33.3%	2.693	10.77	0.90	2.69	\$0.04	\$0.04	В	В
SJE	Health Health	Lighting_2L4T12 Lighting_2L4T12	Electric Electric	Stock Stock	New New	10.77 4' 1L T5HO, EB 10.77 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% 75.0%		12 8		100.0% 100.0%	33.3% 10.0%	1.497 8.078	10.77 10.77	0.50 0.81	1.50 8.08	\$0.05 \$0.09	\$0.05 \$0.09	C E	C E
SJE	Health	Lighting_2L4T8	Electric	Stock	New	8.62 4' 2L T8 Premium, EB	8.5%	\$ 0.26	12	100.0%	100.0%	100.0%	0.733	8.62	0.73	0.73	\$0.05	\$0.05	C	Ċ
	Health Health	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	10.77 8' 2L T8, EB 10.77 8' 1L T12, 60W, EB, reflector	52.8% 55.3%		12 12		100.0% 100.0%	50.0% 25.0%	5.687 5.956	10.77 10.77	2.84 1.49	5.69 5.96	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
SJE) Health	Lighting_2L8T12	Electric	Stock	New	10.77 8' 2L T12, 60W, EB	10.6%	\$ 0.17	12	25.0%	50.0%	12.5%	1.138	10.77	0.14	1.14	\$0.02	\$0.02	Α	A
SJE	Health Health	Lighting_2L8T12 Lighting_3L4T12	Electric	Stock Stock	New New	10.77 Continuous Dimming, 5-8' Fluorescent Fixtures 10.77 4' 1L T5HO. EB	75.0% 46.1%		8 12		100.0% 100.0%	10.0% 25.0%	8.078 4.964	10.77 10.77	0.81 1.24	8.08 4.96	\$0.09 \$0.00	\$0.09 \$0.00	E A	A
	Health	Lighting_3L4T12	Electric	Stock	New	10.77 4' 3L T8, EB	22.6%		12		100.0%	25.0%	2.435	10.77	0.61	2.43	\$0.00	\$0.00	A	A
	Health Health	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		New New	10.77 4' 2L T8 Premium, EB, reflector 10.77 4' 3L T8 Premium. EB	53.0% 22.6%		12 12		100.0% 100.0%	25.0% 25.0%	5.713 2.435	10.77 10.77	1.43 0.61	5.71 2.43	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
	Health	Lighting_3L4T8		Stock	New	8.62 4' 3L T8 Premium, EB	6.7%		12	100.0%	100.0%	100.0%	0.578	8.62	0.58	0.58	\$0.10	\$0.10	F	F
	Health Health	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	10.77 4' 3L T8, EB 10.77 4' 3L T8 Premium, EB	38.2% 42.4%		12 12		100.0% 100.0%	16.7% 16.7%	4.114 4.562	10.77 10.77	0.69 0.76		\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
	Health	Lighting_4L4T12	Electric		New	10.77 4' 4L T8, EB	22.2%	\$ 0.20	12	16.7%	100.0%	16.7%	2.393	10.77	0.40	2.39	\$0.01	\$0.01	A	A
SJL	Health Health	Lighting_4L4T12 Lighting_4L4T12	Electric Electric	Stock	New New	10.77 4' 2L T8 Premium, EB, reflector 10.77 4' 2L T5HO. EB	62.5% 18.8%		12 12		100.0% 100.0%	16.7% 16.7%	6.731 2.019	10.77 10.77	1.12 0.34	6.73 2.02	\$0.02 \$0.02	\$0.02 \$0.02	A A	A
SJE	Health	Lighting_4L4T12	Electric	Stock	New	10.77 4' 4L T8 Premium, EB	25.0%	\$ 0.48	12	16.7%	100.0%	16.7%	2.693	10.77	0.45	2.69	\$0.03	\$0.03	Α	A
	Health Health	Lighting_4L4T12 Lighting_4L4T8	Electric Electric		New New	10.77 Continuous Dimming, 5-4' Fluorescent Fixtures 8.62 4' 4L T8 Premium, EB	75.0% 3.6%		8 12		100.0% 100.0%	10.0% 100.0%	8.078 0.310	10.77 8.62	0.81 0.31	8.08 0.31	\$0.09 \$0.13	\$0.09 \$0.13	E F	F
SJE) Health	Lighting_INC150W	Electric	Stock	New	10.77 HPS, 50W	56.0%	\$ 2.85	4	45.0%	90.0%	40.5%	6.031	10.77	2.44	6.03	\$0.15	\$0.15	F	F
SJE	Health Health	Plug_Load Plug_Load	Electric Electric		New New	0.52 Smart Networks 0.52 ENERGY STAR or Better Office Equipment: Monitors	6.4% 15.4%		4		40.0% 71.0%	36.0% 71.0%	0.033 0.080	0.52 0.51	0.01 0.06	0.03 0.08	\$0.04 \$0.23	\$0.04 \$0.23	B F	F
	Health	Plug_Load	Electric		New	0.52 ENERGY STAR or Better Office Equipment: Copiers	10.2%		4		33.0%	33.0%	0.053	0.45	0.02	0.05	\$0.24	\$0.28	F	F
	Health Health	Plug_Load Plug_Load	Electric Electric		New New	0.52 ENERGY STAR or Better Office Equipment: Computer 0.52 ENERGY STAR or Better Office Equipment: Printers	17.4% 13.2%		4		65.0% 99.0%	65.0% 99.0%	0.090 0.069	0.44 0.39	0.05 0.05	0.08 0.05	\$0.40 \$0.53	\$0.48 \$0.71	F	F
	Health	Space_Heat		Stock	New	4.96 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%		15		100.0%	50.0%	0.248	4.96	0.12	0.25	\$0.14	\$0.14	F	F
	Health Health	Space_Heat Space Heat	Electric Electric		New New	4.96 Ceiling R-19 to R-38 Insulation 4.96 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	3.0% 2.6%		20 20		40.0% 90.0%	20.0% 45.0%	0.149 0.131	4.84 4.81	0.03	0.15 0.13	\$0.15 \$1.07	\$0.16 \$1.10	F	F
SJE) Health	Water_Heat		Stock	New	2.27 Heat Pump Water Heater	30.0%	\$ 3.95	15	75.0%	100.0%	75.0%	0.681	2.27	0.51	0.68	\$0.71	\$0.71	F	F
	Health Large_Office	Water_Heat Cooling_Chillers		Stock Stock	New New	2.27 Demand controlled circulating systems 4.19 EMS Optimization	5.0% 1.0%		15 5		90.0% 50.0%	45.0% 50.0%	0.114 0.042	1.76 4.19	0.04	0.09 0.04	\$6.73 \$0.00	\$8.68 \$0.00	F A	F A
SJE	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19 High Efficiency Windows, Low-e; U=0.35	9.3%	\$ 0.06	30	75.0%	99.4%	74.6%	0.388	4.17	0.29	0.39	\$0.01	\$0.01	Α	A
	Large_Office Large_Office	Cooling_Chillers Cooling_Chillers		Stock Stock	New New	4.19 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F 4.19 Primary/Secondary De-coupled Chilled Water System	7.5% 12.0%		15 15		90.0% 80.0%	60.3% 40.0%	0.314 0.503	3.88 3.71	0.18 0.18		\$0.04 \$0.11	\$0.04 \$0.12	B F	B F
SJE	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.29	10	50.0%	100.0%	50.0%	0.419	3.53	0.18	0.35	\$0.11	\$0.13	F	Ē
	Large_Office Large_Office	Cooling_Chillers Cooling_Chillers		Stock Stock	New New	4.19 Optimize Chilled Water and Condenser Water Settings 4.19 Ceiling R-19 to R-38 Insulation	5.0% 0.9%		10 20		50.0% 8.7%	16.5% 4.4%	0.210 0.038	3.35 3.32	0.03		\$0.15 \$0.46	\$0.19 \$0.58	F F	F F
SJE	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19 Cool Roofs (Reflective and Spray Evaporative)	1.8%	\$ 0.24	10	90.0%	100.0%	90.0%	0.076	3.32	0.05	0.06	\$0.49	\$0.62	F	F
SJE	Large_Office Large_Office	Cooling_Chillers Cooling_DX		Stock Stock	New New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.19 High Efficiency Windows, Low-e; U=0.35	2.6% 5.0%		20 30		90.0% 99.4%	45.0% 74.6%	0.110 0.210	3.27 4.19	0.04 0.16	0.09 0.21	\$1.26 \$0.06	\$1.62 \$0.06	F D	F D
SJE) Large_Office	Cooling_DX	Electric	Stock	New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.29	10	50.0%	100.0%	50.0%	0.419	4.03	0.20	0.40	\$0.11	\$0.11	F	F
	Large_Office Large_Office	Cooling_DX Cooling_DX	Electric	Stock Stock	New New	 4.19 DX Tune-Up / Diagnostics 4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 	10.0% 10.0%		3 10		10.0% 95.0%	10.0% 23.8%	0.419 0.419	3.83 3.79	0.04	0.38 0.38	\$0.24 \$0.33	\$0.26 \$0.36	F	F
SJE	Large_Office	Cooling_DX	Electric	Stock	New	4.19 Ceiling R-19 to R-38 Insulation	0.9%	\$ 0.16	20	50.0%	8.7%	4.4%	0.038	3.70	0.00	0.03	\$0.46	\$0.52	F	F
SJE	Large_Office Large_Office	Cooling_DX Cooling_DX	Electric	Stock Stock	New New	4.19 Cool Roofs (Reflective and Spray Evaporative) 4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.8% 2.6%		10 20		100.0% 90.0%	50.0% 45.0%	0.076 0.110	3.70 3.67	0.03 0.04		\$0.49 \$1.26	\$0.56 \$1.44	F	F
JJL	. Large_Onice	Cooming_DX	Lieuil	OIUUN	1404	1.10 Truit Ex 1.15 to LAO 15-10 Date iniquiation	2.0 /0	ψ 1.31	20	50.0%	30.076	4 0.0%	0.110	3.07	0.04	0.10	φ1.20	φ1. 44	r	

Area Building Type	e End-Use	Fuel Eff	iciency	Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings	Adjusted Base	Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	Stacked Cost Group
SJD Large_Office	Cooling_HeatPump	Electric Sto		New	4.19 High Efficiency Windows, Low-e; U=0.35	5.0% \$		30	75.0%	99.4%	74.6%	0.210	4.19	0.16	0.21	\$0.06	\$0.06	D F	D
SJD Large_Office SJD Large_Office	Cooling_HeatPump Cooling_HeatPump	Electric Sto		New New	 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.19 DX Tune-Up / Diagnostics 	10.0% \$ 10.0% \$		10 3	50.0% 100.0%	100.0% 10.0%	50.0% 10.0%	0.419	4.03 3.83	0.20 0.04	0.40 0.38	\$0.11 \$0.24	\$0.11 \$0.26	F	F
SJD Large_Office	Cooling_HeatPump Cooling_HeatPump	Electric Sto		New New	4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 4.19 Ceiling R-19 to R-38 Insulation	10.0% \$		10 20	25.0% 50.0%	95.0% 8.7%	23.8%	0.419	3.79 3.70	0.09	0.38	\$0.33 \$0.46	\$0.36 \$0.52	F	F
SJD Large_Office SJD Large_Office	Cooling_HeatPump	Electric Sto		New	4.19 Cool Roofs (Reflective and Spray Evaporative)	1.8% \$	0.24	10	50.0%	100.0%	50.0%	0.036	3.70	0.03	0.07	\$0.46	\$0.56	F	F
SJD Large_Office SJD Large Office	Cooling_HeatPump Lighting_2L4T12	Electric Sto		New New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 5.29 4' 1L T8 Premium, EB, reflector	2.6% \$ 61.1% \$		20 16	50.0% 33.3%	90.0% 100.0%	45.0% 33.3%	0.110 3.233	3.67 5.29	0.04 1.08	0.10 3.23	\$1.26 \$0.06	\$1.44 \$0.06	F C	F C
SJD Large_Office	Lighting_2L4T12	Electric Sto	ck I	New	5.29 4' 2L T8 Premium, EB	25.0% \$	0.77	16	33.3%	100.0%	33.3%	1.323	5.29	0.44	1.32	\$0.07	\$0.07	D	D
SJD Large_Office SJD Large_Office	Lighting_2L4T12 Lighting_2L4T12	Electric Sto Electric Sto		New New	5.29 4' 1L T5HO, EB 5.29 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% \$ 75.0% \$		16 11	33.3% 40.0%	100.0% 100.0%	33.3% 40.0%	0.735 3.968	5.29 5.29	0.25 1.59	0.74 3.97	\$0.09 \$0.14	\$0.09 \$0.14	E F	E F
SJD Large_Office	Lighting_2L4T8	Electric Sto	ck I	New	4.24 4' 2L T8 Premium, EB	8.5% \$	0.27	16	100.0%	100.0%	100.0%	0.360	4.24	0.36	0.36	\$0.09	\$0.09	E	E
SJD Large_Office SJD Large_Office	Lighting_2L8T12 Lighting_2L8T12	Electric Sto Electric Sto		New New	5.29 8' 2L T8, EB 5.29 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$		16 16	50.0% 25.0%	100.0% 100.0%	50.0% 25.0%	2.793 2.925	5.29 5.29	1.40 0.73	2.79 2.93	\$0.02 \$0.03	\$0.02 \$0.03		A B
SJD Large_Office	Lighting_2L8T12	Electric Sto Electric Sto		New New	5.29 8' 2L T12, 60W, EB	10.6% \$ 75.0% \$		16 11	25.0% 40.0%	26.6% 100.0%	6.6% 40.0%	0.559 3.968	5.29 5.29	0.04 1.59	0.56 3.97	\$0.04 \$0.15	\$0.04 \$0.15	В	В
SJD Large_Office SJD Large_Office	Lighting_2L8T12 Lighting_3L4T12	Electric Sto		New	5.29 Continuous Dimming, 5-8' Fluorescent Fixtures 5.29 4' 1L T5HO, EB	46.1% \$	0.05	16	25.0%	100.0%	25.0%	2.438	5.29	0.61	2.44	\$0.00	\$0.00	A	A
SJD Large_Office SJD Large_Office	Lighting_3L4T12 Lighting_3L4T12	Electric Sto Electric Sto		New New	5.29 4' 3L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		16 16	25.0% 25.0%	100.0% 100.0%	25.0% 25.0%	1.196 2.806	5.29 5.29	0.30 0.70	1.20 2.81	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
SJD Large_Office	Lighting_3L4T12	Electric Sto	ck I	New	5.29 4' 3L T8 Premium, EB	22.6% \$	0.13	16	25.0%	100.0%	25.0%	1.196	5.29	0.30	1.20	\$0.01	\$0.01	A	A
SJD Large_Office SJD Large_Office	Lighting_3L4T8 Lighting_4L4T12	Electric Sto Electric Sto		New New	4.24 4' 3L T8 Premium, EB 5.29 4' 3L T8. EB	6.7% \$ 38.2% \$		16 16	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.284 2.021	4.24 5.29	0.28 0.34	0.28 2.02	\$0.18 \$0.01	\$0.18 \$0.01	F A	F A
SJD Large_Office	Lighting_4L4T12	Electric Sto	ck I	New	5.29 4' 3L T8 Premium, EB	42.4% \$	0.32	16	16.7%	100.0%	16.7%	2.241	5.29	0.37	2.24	\$0.02	\$0.02		A
SJD Large_Office SJD Large_Office	Lighting_4L4T12 Lighting_4L4T12	Electric Sto Electric Sto		New New	5.29 4' 4L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.2% \$ 62.5% \$		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.176 3.306	5.29 5.29	0.20 0.55	1.18 3.31	\$0.02 \$0.03	\$0.02 \$0.03	A	A
SJD Large_Office SJD Large Office	Lighting_4L4T12 Lighting_4L4T12	Electric Sto Electric Sto		New New	5.29 4' 2L T5HO, EB 5.29 4' 4L T8 Premium, EB	18.8% \$ 25.0% \$		16 16	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	0.992 1.323	5.29 5.29	0.17 0.22	0.99 1.32	\$0.03 \$0.04	\$0.03 \$0.04	B B	В
SJD Large_Office	Lighting_4L4T12	Electric Sto	ck I	New	5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$	3.93	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.15	\$0.15		F
SJD Large_Office SJD Large_Office	Lighting_4L4T8 Lighting_INC150W	Electric Sto Electric Sto		New New	4.24 4' 4L T8 Premium, EB 5.29 HPS 50W	3.6% \$ 56.0% \$		16 6	100.0% 45.0%	100.0% 93.9%	100.0% 42.2%	0.153 2.962	4.24 5.29	0.15 1.25	0.15 2.96	\$0.24 \$0.38	\$0.24 \$0.38	F	F
SJD Large_Office	Plug_Load	Electric Sto	ck I	New	1.59 Smart Networks	9.1% \$	0.01	4	90.0%	40.0%	36.0%	0.145	1.59	0.05	0.15	\$0.02	\$0.02	A	A
SJD Large_Office SJD Large_Office	Plug_Load Plug_Load	Electric Sto Electric Sto		New New	1.59 ENERGY STAR or Better Office Equipment: Monitors 1.59 ENERGY STAR or Better Office Equipment: Copiers	21.9% \$ 4.8% \$		4	100.0% 100.0%	71.0% 33.0%	71.0% 33.0%	0.349 0.077	1.54 1.30	0.24	0.34 0.06	\$0.09 \$0.14	\$0.09 \$0.18	E F	E F
SJD Large_Office	Plug_Load	Electric Sto		New New	1.59 ENERGY STAR or Better Office Equipment: Computer	24.7% \$ 8.0% \$	0.18	4	100.0% 100.0%	65.0% 99.0%	65.0% 99.0%	0.393	1.28	0.21	0.32	\$0.15 \$0.26	\$0.19 \$0.39	F	F
SJD Large_Office SJD Large_Office	Plug_Load Space_Heat	Electric Sto Electric Sto		New New	1.59 ENERGY STAR or Better Office Equipment: Printers 6.18 Ceiling R-19 to R-38 Insulation	3.0% \$		20	50.0%	12.9%	6.5%	0.127	6.18	0.09	0.09	\$0.26	\$0.39	E	E
SJD Large_Office SJD Large_Office	Space_Heat Space Heat	Electric Sto		New New	6.18 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 6.18 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	5.0% \$ 2.6% \$		15 20	50.0% 50.0%	100.0% 90.0%	50.0% 45.0%	0.309 0.163	6.17 6.01	0.15 0.07	0.31 0.16	\$0.11 \$0.86	\$0.11 \$0.88	F	F
SJD Large_Office	Water_Heat	Electric Sto	ck I	New	0.95 Heat Pump Water Heater	30.0% \$	0.58	15	75.0%	100.0%	75.0%	0.285	0.95	0.21	0.29	\$0.25	\$0.25	F	F
SJD Large_Office SJD Lodging	Water_Heat Cooling_Chillers	Electric Sto		New New	0.95 Demand controlled circulating systems 2.83 EMS Optimization	5.0% \$ 1.0% \$		15 5	50.0% 100.0%	93.2% 50.0%	46.6% 50.0%	0.048	0.74 2.83	0.02	0.04 0.03	\$2.35 \$0.00	\$3.03 \$0.00	F A	F A
SJD Lodging	Cooling_Chillers	Electric Sto	ck I	New	2.83 High Efficiency Windows, Low-e; U=0.35	7.0% \$	0.06	30	75.0%	92.9%	69.7%	0.199	2.82	0.14	0.20	\$0.03	\$0.03	Α	A
SJD Lodging SJD Lodging	Cooling_Chillers Cooling_Chillers	Electric Sto Electric Sto		New New	2.83 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F 2.83 Primary/Secondary De-coupled Chilled Water System	7.5% \$ 12.0% \$		15 15	67.0% 50.0%	90.0% 80.0%	60.3% 40.0%	0.212 0.340	2.68 2.56	0.12 0.12	0.20 0.31	\$0.10 \$0.26	\$0.10 \$0.29	E F	F
SJD Lodging SJD Lodging	Cooling_Chillers Cooling_Chillers	Electric Sto Electric Sto		New New	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.83 Optimize Chilled Water and Condenser Water Settings	10.0% \$ 5.0% \$		10 10	50.0% 33.0%	100.0% 50.0%	50.0% 16.5%	0.283 0.142	2.43 2.31	0.12	0.24 0.12	\$0.26 \$0.35	\$0.30 \$0.43	F	F
SJD Lodging	Cooling_Chillers	Electric Sto	ck I	New	2.83 Ceiling R-19 to R-38 Insulation	0.9% \$	0.11	20	50.0%	34.6%	17.3%	0.025	2.29	0.00	0.02	\$0.44	\$0.54	F	F
SJD Lodging SJD Lodging	Cooling_Chillers Cooling_Chillers	Electric Sto Electric Sto		New New	2.83 Cool Roofs (Reflective and Spray Evaporative) 2.83 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.4% \$ 2.6% \$		10 20	90.0% 50.0%	100.0% 90.0%	90.0% 45.0%	0.011 0.074	2.29 2.28	0.01 0.03	0.01 0.06	\$0.56 \$1.87	\$0.69 \$2.32	F F	F F
SJD Lodging	Cooling_DX	Electric Sto	ck I	New	2.83 Occupancy Sensor for room HVAC units	35.0% \$	0.30	15	51.0%	100.0%	51.0%	0.991	2.83	0.51	0.99	\$0.04	\$0.04	В	В
SJD Lodging SJD Lodging	Cooling_DX Cooling_DX	Electric Sto Electric Sto		New New	 2.83 High Efficiency Windows, Low-e; U=0.35 2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	5.0% \$ 10.0% \$		30 10	75.0% 50.0%	92.9% 100.0%	69.7% 50.0%	0.142 0.283	2.32 2.24	0.08 0.11	0.12 0.22	\$0.10 \$0.26	\$0.12 \$0.33	F	F
SJD Lodging SJD Lodging	Cooling_DX Cooling_DX	Electric Sto Electric Sto		New New	2.83 Ceiling R-19 to R-38 Insulation 2.83 DX Tune-Up / Diagnostics	0.9% \$ 10.0% \$		20 3	50.0% 100.0%	34.6% 10.0%	17.3% 10.0%	0.025 0.283	2.13 2.13	0.00	0.02 0.21	\$0.44 \$0.55	\$0.58 \$0.73	F	F
SJD Lodging	Cooling_DX	Electric Sto	ck I	New	2.83 Cool Roofs (Reflective and Spray Evaporative)	0.4% \$	0.04	10	50.0%	100.0%	50.0%	0.011	2.11	0.00	0.01	\$0.56	\$0.75	F	F
SJD Lodging SJD Lodging	Cooling_DX Cooling_DX	Electric Sto Electric Sto		New New	2.83 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 2.83 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	10.0% \$ 2.6% \$		10 20	25.0% 50.0%	95.0% 90.0%	23.8% 45.0%	0.283	2.10 2.05	0.05	0.21 0.05	\$0.77 \$1.87	\$1.04 \$2.57	F F	F F
SJD Lodging	Cooling_HeatPump	Electric Sto	ck I	New	2.83 High Efficiency Windows, Low-e; U=0.35	5.0% \$	0.16	30	75.0%	92.9%	69.7%	0.142	2.83	0.10	0.14	\$0.10	\$0.10	Ē	Ē
SJD Lodging SJD Lodging	Cooling_HeatPump Cooling_HeatPump	Electric Sto Electric Sto		New New	2.83 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.83 Ceiling R-19 to R-38 Insulation	10.0% \$ 0.9% \$		10 20	50.0% 50.0%	100.0% 34.6%	50.0% 17.3%	0.283 0.025	2.73 2.59	0.14	0.27 0.02	\$0.26 \$0.44	\$0.27 \$0.48	F	F
SJD Lodging	Cooling_HeatPump	Electric Sto		New	2.83 DX Tune-Up / Diagnostics	10.0% \$ 0.4% \$		3 10	100.0% 50.0%	10.0%	10.0% 50.0%	0.283 0.011	2.59 2.56	0.03 0.01	0.26 0.01	\$0.55 \$0.56	\$0.60 \$0.62	F	F
SJD Lodging SJD Lodging	Cooling_HeatPump Cooling_HeatPump	Electric Sto Electric Sto		New New	2.83 Cool Roofs (Reflective and Spray Evaporative)2.83 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% \$		10	25.0%	100.0% 95.0%	23.8%	0.283	2.56	0.06	0.01	\$0.56	\$0.85	F	F
SJD Lodging SJD Lodging	Cooling_HeatPump Lighting_2L4T12	Electric Sto		New New	2.83 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 3.01 4' 1L T8 Premium, EB, reflector	2.6% \$ 61.1% \$		20 26	50.0% 33.3%	90.0% 100.0%	45.0% 33.3%	0.074 1.839	2.50 3.01	0.03 0.61	0.07 1.84	\$1.87 \$0.04	\$2.12 \$0.04	F B	F B
SJD Lodging	Lighting_2L4T12	Electric Sto	ck I	New	3.01 4' 2L T8 Premium, EB	25.0% \$	0.38	26	33.3%	100.0%	33.3%	0.753	3.01	0.25	0.75	\$0.05	\$0.05	c	С
SJD Lodging SJD Lodging	Lighting_2L4T12 Lighting_2L4T12	Electric Sto Electric Sto		New New	3.01 4' 1L T5HO, EB 3.01 Continuous Dimming, 10-4' Fluorescent Fixtures	13.9% \$ 75.0% \$		26 19	33.3% 30.0%	100.0% 100.0%	33.3% 30.0%	0.418 2.258	3.01 3.01	0.14 0.68	0.42 2.26	\$0.07 \$0.09	\$0.07 \$0.09	D E	D E
SJD Lodging	Lighting_2L4T8	Electric Sto	ck I	New	2.41 4' 2L T8 Premium, EB 3.01 8' 2L T8, FB	8.5% \$ 52.8% \$	0.13	26 26	100.0%	100.0%	100.0%	0.205	2.41	0.20	0.20	\$0.06 \$0.01	\$0.06 \$0.01	D	D
SJD Lodging SJD Lodging	Lighting_2L8T12 Lighting_2L8T12	Electric Sto Electric Sto		New New	3.01 8' 2L T8, EB 3.01 8' 1L T12, 60W, EB, reflector	52.8% \$ 55.3% \$		26 26	50.0% 25.0%	100.0% 100.0%	25.0%	1.665	3.01 3.01	0.79 0.42	1.66	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
SJD Lodging SJD Lodging	Lighting_2L8T12 Lighting_2L8T12	Electric Sto	ck I	New New	3.01 8' 2L T12, 60W, EB 3.01 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% \$ 75.0% \$		26 19	25.0% 30.0%	79.9% 100.0%	20.0% 30.0%	0.318 2.258	3.01 3.01	0.06	0.32 2.26	\$0.03 \$0.10	\$0.03 \$0.10	A E	A E
SJD Lodging	Lighting_3L4T12	Electric Sto	ck I	New	3.01 4' 1L T5HO, EB	46.1% \$	0.02	26	25.0%	100.0%	25.0%	1.387	3.01	0.35	1.39	\$0.00	\$0.00	Α	Α
SJD Lodging SJD Lodging	Lighting_3L4T12 Lighting_3L4T12	Electric Sto Electric Sto		New New	3.01 4' 3L T8, EB 3.01 4' 2L T8 Premium, EB, reflector	22.6% \$ 53.0% \$		26 26	25.0% 25.0%	100.0% 100.0%	25.0% 25.0%	0.681 1.597	3.01 3.01	0.17 0.40	0.68 1.60	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
SJD Lodging	Lighting_3L4T12	Electric Sto		New	3.01 4' 3L T8 Premium, EB	22.6% \$		26	25.0%	100.0%	25.0%	0.681	3.01	0.17	0.68	\$0.01	\$0.01	A	A
SJD Lodging SJD Lodging	Lighting_3L4T8 Lighting_4L4T12	Electric Sto Electric Sto		New New	2.41 4' 3L T8 Premium, EB 3.01 4' 3L T8, EB	6.7% \$ 38.2% \$		26 26	100.0% 16.7%	100.0% 100.0%	100.0% 16.7%	0.161 1.150	2.41 3.01	0.16 0.19	0.16 1.15	\$0.13 \$0.00	\$0.13 \$0.00	A	A
SJD Lodging SJD Lodging	Lighting_4L4T12 Lighting 4L4T12	Electric Sto Electric Sto		New New	3.01 4' 3L T8 Premium, EB 3.01 4' 4L T8, EB	42.4% \$ 22.2% \$		26 26	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	1.275 0.669	3.01 3.01	0.21 0.11	1.28 0.67	\$0.01 \$0.01	\$0.01 \$0.01	A A	A A
SJD Lodging	Lighting_4L4T12	Electric Sto	ck I	New	3.01 4' 2L T8 Premium, EB, reflector	62.5% \$	0.36	26	16.7%	100.0%	16.7%	1.881	3.01	0.31	1.88	\$0.02	\$0.02	Α	Ä
SJD Lodging SJD Lodging	Lighting_4L4T12 Lighting_4L4T12	Electric Sto Electric Sto		New New	3.01 4' 2L T5HO, EB 3.01 4' 4L T8 Premium, EB	18.8% \$ 25.0% \$		26 26	16.7% 16.7%	100.0% 100.0%	16.7% 16.7%	0.564 0.753	3.01 3.01	0.09 0.13	0.56 0.75	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
SJD Lodging	Lighting_4L4T12	Electric Sto	ck I	New	3.01 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0% \$	1.92	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	\$0.09	\$0.09	E	Ē
SJD Lodging SJD Lodging	Lighting_4L4T8 Lighting_INC150W	Electric Sto Electric Sto		New New	2.41 4' 4L T8 Premium, EB 3.01 HPS, 50W	3.6% \$ 56.0% \$		26 9	100.0% 45.0%	100.0% 92.2%	100.0% 41.5%	0.087 1.686	2.41 3.01	0.09 0.70	0.09 1.69	\$0.16 \$0.20	\$0.16 \$0.20	F F	F
SJD Lodging	Plug_Load	Electric Sto		New	0.1 Smart Networks 0.1 ENERGY STAR or Better Office Equipment: Copiers	4.5% \$		4	90.0%	40.0% 33.0%	36.0%	0.005 0.020	0.10 0.10	0.00	0.00 0.02	\$0.03	\$0.03 \$0.04	A B	A B
SJD Lodging SJD Lodging	Plug_Load Plug_Load	Electric Sto Electric Sto	ck I	New New	0.1 ENERGY STAR or Better Office Equipment: Monitors	20.2% \$ 10.9% \$	0.00	4	100.0% 100.0%	71.0%	33.0% 71.0%	0.011	0.09	0.01 0.01	0.01	\$0.04 \$0.14	\$0.16	F	F
SJD Lodging SJD Lodging	Plug_Load Plug_Load	Electric Sto Electric Sto		New New	O.1 ENERGY STAR or Better Office Equipment: Computer O.1 ENERGY STAR or Better Office Equipment: Printers	12.2% \$ 7.6% \$		4	100.0% 100.0%	65.0% 99.0%	65.0% 99.0%	0.012	0.08	0.01 0.01	0.01 0.01	\$0.26 \$0.45	\$0.30 \$0.57	F F	F F
SJD Lodging	Space_Heat	Electric Sto	ck I	New	2.54 Occupancy Sensor for room HVAC units	35.0% \$	0.20	15	51.0%	100.0%	51.0%	0.889	2.54	0.45	0.89	\$0.03	\$0.03	A	A
SJD Lodging SJD Lodging	Space_Heat Space_Heat	Electric Sto Electric Sto		New New	2.54 Ceiling R-19 to R-38 Insulation 2.54 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	3.0% \$ 5.0% \$		20 15	50.0% 50.0%	62.3% 100.0%	31.1% 50.0%	0.076 0.127	2.09 2.07	0.02 0.05	0.06 0.10	\$0.15 \$0.27	\$0.18 \$0.33	F F	F F
SJD Lodging	Space_Heat	Electric Sto		New	2.54 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$		20		90.0%	45.0%	0.067	2.02	0.02	0.05	\$2.08		F	F

Are	ea Buildi	ng Type	End-Use	Fuel	Efficienc	cy Vintage	EUI Measure Names	Energy Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		tacked avings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Stacked Marginal Energy Cost	Stand Alone Cost Group	
	D Lodgin		Water_Heat		Stock	New	2.79 Heat Pump Water Heater	30.0%		15	75.0%	100.0%	75.0%	0.837	2.79	0.63	0.84	\$0.51	\$0.51	F	- F
	D LodginD Miscell		Water_Heat Cooling_Chillers		Stock Stock	New New	2.79 Demand controlled circulating systems 2.39 EMS Optimization	5.0% 1.0%		15 5	50.0% 100.0%	100.0% 50.0%	50.0% 50.0%	0.140 0.024	2.16 2.39	0.05 0.01	0.11 0.02	\$4.81 \$0.00	\$6.20 \$0.00	F A	F A
SJI	D Miscell	aneous	Cooling_Chillers	Electric	Stock	New	2.39 High Efficiency Windows, Low-e; U=0.35	2.5%	0.02	30	75.0%	76.3%	57.2%	0.059	2.38	0.03	0.06	\$0.03	\$0.03	A	В
SJI	D MiscellD Miscell		Cooling_Chillers Cooling_Chillers	Electric Electric	Stock	New New	2.39 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F 2.39 Primary/Secondary De-coupled Chilled Water System	7.5% 12.0%		15 15	67.0% 50.0%	90.0% 80.0%	60.3% 40.0%	0.179 0.287	2.34 2.24	0.11 0.11	0.18 0.27	\$0.05 \$0.13	\$0.05 \$0.14	C F	F
	D Miscell	aneous	Cooling_Chillers		Stock	New	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%		10	50.0%	100.0%	50.0%	0.239	2.13	0.11	0.21	\$0.13	\$0.14	F	F
	D MiscellD Miscell		Cooling_Chillers Cooling Chillers		Stock Stock	New New	2.39 Optimize Chilled Water and Condenser Water Settings 2.39 Cool Roofs (Reflective and Spray Evaporative)	5.0% 13.0%		10 10		50.0% 100.0%	16.5% 90.0%	0.120 0.310	2.02 2.01	0.02	0.10 0.26	\$0.18 \$0.24	\$0.21 \$0.29	F	F
SJI	D Miscell	aneous	Cooling_Chillers	Electric	Stock	New	2.39 Ceiling R-19 to R-38 Insulation	0.9%	0.22	20	50.0%	40.2%	20.1%	0.022	1.77	0.00	0.02	\$1.09	\$1.47	F	E
	D MiscellD Miscell		Cooling_Chillers Cooling_DX	Electric	Stock Stock	New New	2.39 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 2.39 High Efficiency Windows, Low-e; U=0.35	2.6% 5.0%		20 30	50.0% 75.0%	90.0% 76.3%	45.0% 57.2%	0.063 0.120	1.77 2.39	0.02	0.05 0.12	\$2.21 \$0.04	\$2.99 \$0.04	F B	F B
SJI	D Miscell	aneous	Cooling_DX	Electric		New	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%		10		100.0%	50.0%	0.239	2.32	0.12	0.23	\$0.13	\$0.13	F	E
	D MiscellD Miscell		Cooling_DX Cooling_DX	Electric		New New	2.39 Cool Roofs (Reflective and Spray Evaporative) 2.39 DX Tune-Up / Diagnostics	13.0% 10.0%		10 3	50.0% 100.0%	100.0% 10.0%	50.0% 10.0%	0.310	2.21 2.06	0.14	0.29 0.21	\$0.22 \$0.28	\$0.24 \$0.32	F F	F F
SJI	D Miscell	aneous	Cooling_DX	Electric		New	2.39 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	0.58	10	25.0%	95.0%	23.8%	0.239	2.04	0.05	0.20	\$0.39	\$0.45	Ē	Ē
	 D Miscell D Miscell 		Cooling_DX Cooling_DX	Electric		New New	2.39 Ceiling R-19 to R-38 Insulation 2.39 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%		20 20	50.0% 50.0%	40.2% 90.0%	20.1% 45.0%	0.022	1.99 1.99	0.00	0.02 0.05	\$1.09 \$2.21	\$1.31 \$2.66	F	F
	D Miscell	aneous	Cooling_HeatPump	Electric		New	2.39 High Efficiency Windows, Low-e; U=0.35	5.0%	0.05	30	75.0%	76.3%	57.2%	0.120	2.39	0.07	0.12	\$0.04	\$0.04	В	В
SJI	D MiscellD Miscell		Cooling_HeatPump Cooling_HeatPump	Electric Electric		New New	2.39 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 2.39 Cool Roofs (Reflective and Spray Evaporative)	10.0% 13.0%		10 10	50.0% 50.0%	100.0% 100.0%	50.0% 50.0%	0.239 0.310	2.32 2.21	0.12 0.14	0.23 0.29	\$0.13 \$0.22	\$0.13 \$0.24	F	F
	D Miscell		Cooling_HeatPump	Electric		New	2.39 DX Tune-Up / Diagnostics	10.0%		3	100.0%	10.0%	10.0%	0.239	2.06	0.02	0.21	\$0.28	\$0.32	F	F
	D MiscellD Miscell		Cooling_HeatPump Cooling_HeatPump	Electric		New New	2.39 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 2.39 Ceiling R-19 to R-38 Insulation	10.0% 0.9%		10 20		95.0% 40.2%	23.8% 20.1%	0.239 0.022	2.04 1.99	0.05	0.20 0.02	\$0.39 \$1.09	\$0.45 \$1.31	F	F
SJI	D Miscell	aneous	Cooling_HeatPump	Electric		New	2.39 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	1.31	20	50.0%	90.0%	45.0%	0.063	1.99	0.02	0.05	\$2.21	\$2.66	F	F
SJI			Lighting_2L4T12 Lighting_2L4T12		Stock Stock	New New	2.12 4' 1L T8 Premium, EB, reflector 2.12 4' 2L T8 Premium, EB	61.1% 25.0%		36 36		100.0% 100.0%	33.3% 33.3%	1.296 0.530	2.12 2.12	0.43 0.18	1.30 0.53	\$0.10 \$0.12	\$0.10 \$0.12	F	F
SJI	D Miscell	aneous	Lighting_2L4T12		Stock	New	2.12 4' 1L T5HO, EB	13.9%		36	33.3%	100.0%	33.3%	0.295	2.12	0.10	0.29	\$0.16	\$0.16	F	F
SJI			Lighting_2L4T12 Lighting_2L4T8	Electric		New New	2.12 Continuous Dimming, 10-4' Fluorescent Fixtures 1.7 4' 2L T8 Premium. EB	75.0% 8.5%		26 36		100.0% 100.0%	30.0% 100.0%	1.590 0.145	2.12 1.70	0.48	1.59 0.14	\$0.22 \$0.15	\$0.22 \$0.15	F	F
SJI	D Miscell	aneous	Lighting_2L8T12		Stock	New	2.12 8' 2L T8, EB	52.8%	0.35	36	50.0%	100.0%	50.0%	1.119	2.12	0.56	1.12	\$0.03	\$0.03	A	A
			Lighting_2L8T12 Lighting_2L8T12		Stock Stock	New New	2.12 8' 1L T12, 60W, EB, reflector 2.12 8' 2L T12, 60W, EB	55.3% 10.6%		36 36		100.0% 46.2%	25.0% 11.5%	1.172 0.224	2.12 2.12	0.29	1.17 0.22	\$0.06 \$0.07	\$0.06 \$0.07	C D	C D
SJI	D Miscell	aneous	Lighting_2L8T12	Electric		New	2.12 Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	\$ 4.03	26	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	\$0.24	\$0.24	F	F
SJI	D Miscell D Miscell		Lighting_3L4T12 Lighting_3L4T12		Stock Stock	New New	2.12 4' 1L T5HO, EB 2.12 4' 3L T8, EB	46.1% 22.6%		36 36		100.0% 100.0%	25.0% 25.0%	0.977 0.479	2.12 2.12	0.24	0.98 0.48	\$0.00 \$0.01	\$0.00 \$0.01	A A	A A
	D Miscell	aneous	Lighting_3L4T12		Stock	New	2.12 4' 2L T8 Premium, EB, reflector	53.0%		36	25.0%	100.0%	25.0%	1.125	2.12	0.28	1.12	\$0.01	\$0.01	Α	Α
	D Miscell D Miscell		Lighting_3L4T12 Lighting_3L4T8	Electric	Stock Stock	New New	2.12 4' 3L T8 Premium, EB 1.7 4' 3L T8 Premium, EB	22.6% 6.7%		36 36		100.0% 100.0%	25.0% 100.0%	0.479 0.114	2.12 1.70	0.12 0.11	0.48 0.11	\$0.02 \$0.31	\$0.02 \$0.31	A F	A F
SJI	D Miscell	aneous	Lighting_4L4T12	Electric	Stock	New	2.12 4' 3L T8, EB	38.2%	\$ 0.09	36	16.7%	100.0%	16.7%	0.810	2.12	0.13	0.81	\$0.01	\$0.01	A	A
	D MiscellD Miscell		Lighting_4L4T12 Lighting_4L4T12		Stock Stock	New New	2.12 4' 3L T8 Premium, EB 2.12 4' 4L T8. EB	42.4% 22.2%		36 36		100.0% 100.0%	16.7% 16.7%	0.898 0.471	2.12 2.12	0.15 0.08	0.90 0.47	\$0.03 \$0.04	\$0.03 \$0.04	A B	A B
SJI	D Miscell	aneous	Lighting_4L4T12	Electric	Stock	New	2.12 4' 2L T8 Premium, EB, reflector	62.5%	\$ 0.70	36	16.7%	100.0%	16.7%	1.325	2.12	0.22	1.33	\$0.05	\$0.05	С	С
	D MiscellD Miscell		Lighting_4L4T12 Lighting_4L4T12	Electric		New New	2.12 4' 2L T5HO, EB 2.12 4' 4L T8 Premium. EB	18.8% 25.0%		36 36		100.0% 100.0%	16.7% 16.7%	0.398	2.12 2.12	0.07	0.40 0.53	\$0.06 \$0.08	\$0.06 \$0.08	C F	F C
SJI	D Miscell	aneous	Lighting_4L4T12		Stock	New	2.12 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	3.69	26	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	\$0.22	\$0.22	Ē	Ē
			Lighting_4L4T8 Lighting INC150W	Electric	Stock Stock	New New	1.7 4' 4L T8 Premium, EB 2.12 HPS, 50W	3.6% 56.0%		36 12	100.0% 45.0%	100.0% 98.0%	100.0% 44.1%	0.061 1.187	1.70 2.12	0.06 0.52	0.06 1.19	\$0.40 \$0.62	\$0.40 \$0.62	F	F
SJI	D Miscell	aneous	Plug_Load	Electric	Stock	New	1 Smart Networks	6.9%	0.01	4	90.0%	40.0%	36.0%	0.069	1.00	0.02	0.07	\$0.03	\$0.03	A	A
SJI	D Miscell D Miscell		Plug_Load Plug_Load	Electric		New New	ENERGY STAR or Better Office Equipment: Copiers ENERGY STAR or Better Office Equipment: Monitors	11.4% 16.5%		4	100.0% 100.0%	33.0% 71.0%	33.0% 71.0%	0.114 0.165	0.98 0.94	0.04	0.11 0.16	\$0.12 \$0.14	\$0.13 \$0.15	F F	F F
SJI	D Miscell	aneous	Plug_Load	Electric	Stock	New	1 ENERGY STAR or Better Office Equipment: Computer	18.6%	0.15	4	100.0%	65.0%	65.0%	0.186	0.83	0.10	0.15	\$0.26	\$0.31	F	F
	D MiscellD Miscell		Plug_Load Space Heat	Electric	Stock Stock	New New	 ENERGY STAR or Better Office Equipment: Printers 1.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	9.2% 5.0%		4 15	100.0% 50.0%	99.0% 100.0%	99.0% 50.0%	0.092 0.138	0.73 2.76	0.07	0.07 0.14	\$0.38 \$0.25	\$0.52 \$0.25	F F	F F
SJI	D Miscell	aneous	Space_Heat	Electric	Stock	New	2.76 Ceiling R-19 to R-38 Insulation	3.0%	0.22	20	50.0%	13.4%	6.7%	0.083	2.69	0.01	0.08	\$0.28	\$0.29	F	E
SJI	D MiscellD Miscell		Space_Heat Water Heat		Stock Stock	New New	2.76 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 1.65 Heat Pump Water Heater	2.6% 30.0%		20 15	50.0% 75.0%	90.0% 100.0%	45.0% 75.0%	0.073 0.495	2.69 1.65	0.03	0.07 0.50	\$1.92 \$0.84	\$1.97 \$0.84	F	F
	D Miscell		Water_Heat		Stock	New	1.65 Demand controlled circulating systems	5.0%	5.32	15		100.0%	50.0%	0.083	1.28	0.03	0.06	\$7.94	\$10.25	F	F
	D Restau D Restau		Cooling_Chillers Cooling_Chillers	Electric		New New	4.49 EMS Optimization 4.49 High Efficiency Windows, Low-e; U=0.35	1.0% 5.4%		5 30	100.0% 50.0%	50.0% 100.0%	50.0% 50.0%	0.045 0.242	4.49 4.47	0.02	0.04 0.24	\$0.00 \$0.01	\$0.00 \$0.01	A	A
SJI			Cooling_Chillers		Stock	New	4.49 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%		15	67.0%	90.0%	60.3%	0.337	4.35	0.20	0.33	\$0.02	\$0.03	A	A
	D Restau D Restau		Cooling_Chillers Cooling_Chillers		Stock Stock	New New	4.49 Primary/Secondary De-coupled Chilled Water System4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%		15 10	50.0% 50.0%	80.0% 100.0%	40.0% 50.0%	0.539 0.449	4.15 3.95	0.20 0.20	0.50 0.40	\$0.07 \$0.07	\$0.07 \$0.07	D D	D D
SJI	D Restau	ırant	Cooling_Chillers	Electric	Stock	New	4.49 Optimize Chilled Water and Condenser Water Settings	5.0%	0.13	10	33.0%	50.0%	16.5%	0.225	3.75	0.03	0.19	\$0.09	\$0.11	Ē	F
SJI			Cooling_Chillers Cooling_Chillers	Electric Electric	Stock	New New	4.49 Cool Roofs (Reflective and Spray Evaporative) 4.49 Ceiling R-19 to R-38 Insulation	4.3% 0.9%		10 20	90.0% 50.0%	100.0% 100.0%	90.0% 50.0%	0.193	3.72 3.58	0.14 0.02	0.16 0.03	\$0.39 \$0.59	\$0.47 \$0.74	F	F
	D Restau		Cooling_Chillers Cooling_DX	Electric		New New	4.49 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.49 High Efficiency Windows, Low-e: U=0.35	2.6% 5.0%	\$ 1.31	20 30	50.0% 50.0%	90.0% 100.0%	45.0% 50.0%	0.118 0.225	3.56 4.49	0.04	0.09 0.22	\$1.18 \$0.02	\$1.48 \$0.02	F	F
	D Restau		Cooling_DX Cooling_DX	Electric		New	4.49 Filigh Efficiency Windows, Low-e; U=0.35 4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	0.18	10	50.0%	100.0%	50.0%	0.449	4.38	0.22	0.44	\$0.07	\$0.07	D	D
SJI	D Restau		Cooling_DX Cooling_DX	Electric		New New	4.49 DX Tune-Up / Diagnostics4.49 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% 10.0%		3 10		10.0% 95.0%	10.0% 23.8%	0.449 0.449	4.16 4.12	0.04 0.10	0.42 0.41	\$0.14 \$0.19	\$0.15 \$0.21	F	F
SJI	D Restau	ırant	Cooling_DX	Electric	Stock	New	4.49 Cool Roofs (Reflective and Spray Evaporative)	4.3%	0.47	10	50.0%	100.0%	50.0%	0.193	4.02	0.09	0.17	\$0.39	\$0.43	F	F
	D Restau		Cooling_DX Cooling_DX	Electric		New New	4.49 Ceiling R-19 to R-38 Insulation 4.49 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%		20 20	50.0% 50.0%	100.0% 90.0%	50.0% 45.0%	0.040 0.118	3.93 3.92	0.02 0.05	0.04 0.10	\$0.59 \$1.18	\$0.67 \$1.35	F	F
SJI	D Restau	ırant	Cooling_HeatPump	Electric	Stock	New	4.49 High Efficiency Windows, Low-e; U=0.35	5.0%	0.05	30	50.0%	100.0%	50.0%	0.225	4.49	0.11	0.22	\$0.02	\$0.02	A	A
SJI	D Restau D Restau		Cooling_HeatPump Cooling_HeatPump	Electric		New New	4.49 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.49 DX Tune-Up / Diagnostics	10.0% 10.0%		10 3	50.0% 100.0%	100.0% 10.0%	50.0% 10.0%	0.449	4.38 4.16	0.22	0.44 0.42	\$0.07 \$0.14	\$0.07 \$0.15	D	D
	D Restau		Cooling_HeatPump			New	4.49 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%		10	25.0%	95.0%	23.8%	0.449	4.10	0.10	0.42	\$0.19	\$0.13	F	F
SJI			Cooling_HeatPump			New	4.49 Cool Roofs (Reflective and Spray Evaporative)	4.3%		10	50.0%	100.0%	50.0%	0.193	4.02	0.09	0.17	\$0.39	\$0.43	F	F
SJI	D Restau D Restau	ırant	Cooling_HeatPump Cooling_HeatPump	Electric	Stock	New New	4.49 Ceiling R-19 to R-38 Insulation 4.49 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%	1.31	20 20	50.0%	100.0% 90.0%	50.0% 45.0%	0.040 0.118	3.93 3.92	0.02 0.05	0.04 0.10	\$0.59 \$1.18	\$0.67 \$1.35	F	F
	D Restau		Lighting_2L4T12	Electric		New New	8.74 4' 1L T8 Premium, EB, reflector 8.74 4' 2L T8 Premium, EB	61.1% 25.0%		22 22	33.3%	100.0% 100.0%	33.3% 33.3%	5.341 2.185	8.74 8.74	1.78 0.73	5.34 2.19	\$0.03 \$0.04	\$0.03 \$0.04	B B	B B
	D Restau D Restau		Lighting_2L4T12 Lighting_2L4T12	Electric		New New	8.74 4' 1L T5HO, EB	13.9%	0.60	22	33.3%	100.0%	33.3%	1.215	8.74	0.40	1.21	\$0.05	\$0.05	С	С
	D Restau	ırant	Lighting_2L4T12	Electric	Stock	New New	8.74 Continuous Dimming, 10-4' Fluorescent Fixtures 6.99 4' 2L T8 Premium, EB	75.0% 8.5%	3.89	16	12.0%	100.0% 100.0%	12.0%	6.555 0.594	8.74	0.79 0.59	6.56 0.59	\$0.07 \$0.05	\$0.07 \$0.05	D C	D C
SJI	D Restau	ırant	Lighting_2L4T8 Lighting_2L8T12	Electric		New	8.74 8' 2L T8, EB	52.8%	0.38	22 22	50.0%	100.0%	100.0% 50.0%	4.615	6.99 8.74	2.31	4.61	\$0.01	\$0.01	A	A
	D Restau	ırant	Lighting_2L8T12		Stock	New	8.74 8' 1L T12, 60W, EB, reflector 8.74 8' 2L T12, 60W, EB	55.3%	\$ 0.84	22		100.0%	25.0%	4.833 0.924	8.74	1.21	4.83 0.92	\$0.02 \$0.02		A	A
	D Restau D Restau	ırant	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	8.74 8" 2L 112, 60W, EB 8.74 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% 75.0%		22 16		68.1% 100.0%	17.0% 12.0%	0.924 6.555	8.74 8.74	0.16 0.79	0.92 6.56	\$0.02 \$0.08	\$0.02 \$0.08	A E	A E
	D Restau	ırant	Lighting_3L4T12		Stock	New New	8.74 4' 1L T5HO, EB 8.74 4' 3L T8, EB	46.1% 22.6%		22		100.0% 100.0%	25.0%	4.028 1.976	8.74 8.74	1.01	4.03 1.98	\$0.00 \$0.00	\$0.00 \$0.00	A A	A
	D Restau	ırant	Lighting_3L4T12 Lighting_3L4T12	Electric Electric	Stock	New	8.74 4' 2L T8 Premium, EB, reflector	53.0%		22 22		100.0%	25.0% 25.0%	4.636	8.74 8.74	1.16	1.98 4.64	\$0.00		A	A A
SJI	D Restau	ırant	Lighting_3L4T12	Electric	Stock	New New	8.74 4' 3L T8 Premium, EB	22.6%	0.10	22	25.0%	100.0%	25.0%	1.976	8.74	0.49	1.98 0.47	\$0.01	\$0.01 \$0.09	A	A F
	D Restau D Restau		Lighting_3L4T8 Lighting_4L4T12		Stock Stock	New New	6.99 4' 3L T8 Premium, EB 8.74 4' 3L T8, EB	6.7% 38.2%		22 22		100.0% 100.0%	100.0% 16.7%		6.99 8.74	0.47	0.47 3.34	\$0.09 \$0.00		E A	A

Are	a Building Type	e End-Use	Fuel	Efficienc	y Vintage	EUI Measure Names	Energy Savings	Full Per Ur Cost	it Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Enoray	Stand Alone Cost Group	
	Restaurant	Lighting_4L4T12	Electric		New	8.74 4' 3L T8 Premium, EB	42.4%					16.7%		8.74	0.62	3.70	\$0.01	\$0.01	Ą	A
	Restaurant Restaurant	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	8.74 4' 4L T8, EB 8.74 4' 2L T8 Premium, EB, reflector	22.2% 62.5%					16.7% 16.7%	1.942 5.463	8.74 8.74	0.32	1.94 5.46	\$0.01 \$0.01	\$0.01 \$0.01	A A	A A
SJE	Restaurant	Lighting_4L4T12	Electric		New	8.74 4' 2L T5HO, EB	18.8%	\$ 0.2	9 22	2 16.7%	100.0%	16.7%	1.639	8.74	0.27	1.64	\$0.02	\$0.02		A
SJE		Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	8.74 4' 4L T8 Premium, EB 8.74 Continuous Dimming, 5-4' Fluorescent Fixtures	25.0% 75.0%					16.7% 12.0%	2.185 6.555	8.74 8.74	0.36 0.79	2.19 6.56	\$0.02 \$0.07	\$0.02 \$0.07	A D	A D
	Restaurant	Lighting_4L4T8	Electric		New	6.99 4' 4L T8 Premium, EB	3.6%		1 22	2 100.0%		100.0%		6.99	0.25		\$0.13	\$0.13	F	F
SJE	Restaurant Restaurant	Lighting_INC150W Plug_Load	Electric Electric		New New	8.74 HPS, 50W 0.23 Smart Networks	56.0% 6.8%					40.7% 36.0%		8.74 0.23	1.99 0.01	4.89 0.02	\$0.19 \$0.03		A	A
SJE	Restaurant	Plug_Load	Electric	Stock	New	0.23 ENERGY STAR or Better Office Equipment: Monitors	16.3%	\$ 0.0	2 4	100.0%	71.0%	71.0%	0.038	0.22	0.03	0.04	\$0.13	\$0.14	F	F
SJE	Restaurant Restaurant	Plug_Load Plug_Load	Electric Electric		New New	0.23 ENERGY STAR or Better Office Equipment: Copiers 0.23 ENERGY STAR or Better Office Equipment: Computer	7.8% 18.4%					33.0% 65.0%	0.018 0.042	0.20 0.19	0.01 0.02	0.02 0.04	\$0.21 \$0.24	\$0.24 \$0.28	F	F
	Restaurant	Plug_Load	Electric		New	0.23 ENERGY STAR or Better Office Equipment: Printers	15.0%					99.0%	0.034	0.17	0.03	0.03	\$0.34			F
SJE		Refrigeration Refrigeration	Electric Electric		New New	7.67 Night Covers for Display Cases 7.67 Anti-Sweat (Humidistat) Controls	5.8% 5.0%					47.5% 48.0%	0.445	7.67 7.46	0.21 0.18	0.44 0.37	\$0.01 \$0.01	\$0.01 \$0.01	A A	A
SJE		Refrigeration	Electric		New	7.67 Demand Control Defrost - Electric	7.8%					48.0%	0.595	7.28	0.27	0.57	\$0.01	\$0.01	A	A
	Restaurant Restaurant	Refrigeration Refrigeration	Electric Electric		New New	7.67 Installation of Floating Condenser Head Pressure Controls 7.67 Strip Curtains for Walk-Ins	6.8% 4.0%					44.4% 30.0%	0.524	7.01 6.80	0.21	0.48 0.27	\$0.03 \$0.05	\$0.03 \$0.06	B C	B C
SJE		Refrigeration	Electric		New	7.67 Demand Control Defrost - Hot Gas	2.5%	\$ 0.0		100.0%	69.6%	69.6%	0.192	6.71	0.12	0.17	\$0.05	\$0.06	С	D
SJE	Restaurant Restaurant	Refrigeration Refrigeration	Electric Electric		New New	7.67 Refrigeration Commissioning 7.67 Compressor VSD retrofit	5.0% 6.2%					50.0% 47.5%	0.384 0.476	6.60 6.43	0.16 0.19	0.33 0.40	\$0.07 \$0.14	\$0.08 \$0.16	D F	E F
	Restaurant	Refrigeration	Electric		New	7.67 High Efficiency Case Fans	12.0%					95.0%	0.919	6.24	0.71	0.75	\$0.15	\$0.18	F	F
SJE	Restaurant Restaurant	Refrigeration Space Heat	Electric Electric		New New	7.67 Reduced Speed or Cycling of Evaporator Fans 3.76 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	0.6% 5.0%					80.0% 50.0%		5.53 3.76	0.02	0.03 0.19	\$0.58 \$0.18	\$0.80 \$0.18	F	F
SJE	Restaurant	Space_Heat	Electric		New	3.76 Ceiling R-19 to R-38 Insulation	3.0%	\$ 0.2	2 20	50.0%	67.0%	33.5%	0.113	3.67	0.04	0.11	\$0.21	\$0.22	F	F
SJE	Restaurant Restaurant	Space_Heat Water Heat	Electric Electric		New New	3.76 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 9.19 Heat Pump Water Heater	2.6% 30.0%					45.0% 75.0%	0.099 2.757	3.63 9.19	0.04 2.07	0.10 2.76	\$1.41 \$0.08	\$1.46 \$0.08	E	E
	Restaurant	Water_Heat	Electric		New	9.19 Demand controlled circulating systems	5.0%				100.0%	50.0%		7.12	0.18	0.36	\$0.76		F	F
	Retail Retail	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	3.14 EMS Optimization 3.14 High Efficiency Windows, Low-e; U=0.35	1.0% 10.3%		3 30			50.0% 75.0%		3.14 3.12	0.02	0.03 0.32	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
SJE		Cooling_Chillers	Electric		New	3.14 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	\$ 0.0	9 15	5 67.0%		60.3%	0.236	2.88	0.13	0.22	\$0.05	\$0.05	C	C
	Retail Retail	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	3.14 Primary/Secondary De-coupled Chilled Water System 3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0% 10.0%					40.0% 50.0%	0.377 0.314	2.75 2.62	0.13	0.33 0.26	\$0.12 \$0.12		F	F
SJE	Retail	Cooling_Chillers	Electric		New	3.14 Optimize Chilled Water and Condenser Water Settings	5.0%	\$ 0.1	7 10	33.0%	50.0%	16.5%	0.157	2.49	0.02	0.12	\$0.17	\$0.21	F	F
SJE	Retail Retail	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	3.14 Cool Roofs (Reflective and Spray Evaporative) 3.14 Ceiling R-19 to R-38 Insulation	6.9% 0.9%					90.0% 50.0%	0.217	2.47 2.31	0.15 0.01	0.17 0.02	\$0.34 \$0.89	\$0.44 \$1.20	F F	F F
	Retail	Cooling_Chillers	Electric		New	3.14 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		1 20	50.0%		45.0%	0.083	2.30	0.03	0.06	\$1.68	\$2.29	F	F
	Retail Retail	Cooling_DX Cooling_DX	Electric Electric		New New	3.14 High Efficiency Windows, Low-e; U=0.35 3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%					75.0% 50.0%		3.14 3.02	0.12 0.15	0.16 0.30	\$0.05 \$0.12	\$0.05 \$0.13	B F	B F
SJE	Retail	Cooling_DX	Electric	Stock	New	3.14 DX Tune-Up / Diagnostics	10.0%	\$ 0.2) ;	3 100.0%	10.0%	10.0%	0.314	2.87	0.03	0.29	\$0.26	\$0.29	F	F
SJE	Retail Retail	Cooling_DX Cooling_DX	Electric Electric		New New	3.14 Cool Roofs (Reflective and Spray Evaporative) 3.14 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	6.9% 10.0%					50.0% 23.8%	0.217 0.314	2.84 2.74	0.10 0.07	0.20 0.27	\$0.34 \$0.37	\$0.38 \$0.42	F F	F F
SJE	Retail	Cooling_DX	Electric		New	3.14 Ceiling R-19 to R-38 Insulation	0.9%	\$ 0.2			100.0%	50.0%		2.68	0.01	0.02	\$0.89		F	F
	Retail Retail	Cooling_DX Cooling_HeatPump	Electric Electric		New New	3.14 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 3.14 High Efficiency Windows, Low-e; U=0.35	2.6% 5.0%					45.0% 75.0%	0.083	2.67 3.14	0.03 0.12	0.07 0.16	\$1.68 \$0.05	\$1.98 \$0.05	F B	F B
SJE		Cooling_HeatPump	Electric	Stock	New	3.14 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.2	1 10	50.0%	100.0%	50.0%	0.314	3.02	0.15	0.30	\$0.12	\$0.13	F	Ē
	Retail Retail	Cooling_HeatPump Cooling HeatPump	Electric Electric		New New	3.14 DX Tune-Up / Diagnostics 3.14 Cool Roofs (Reflective and Spray Evaporative)	10.0% 6.9%					10.0% 50.0%	0.314 0.217	2.87 2.84	0.03	0.29 0.20	\$0.26 \$0.34	\$0.29 \$0.38	F	F
SJE	Retail	Cooling_HeatPump	Electric		New	3.14 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	\$ 0.7	3 10	25.0%	95.0%	23.8%	0.314	2.74	0.07	0.27	\$0.37	\$0.42	F	F
SJE	Retail Retail	Cooling_HeatPump Cooling_HeatPump	Electric Electric		New New	3.14 Ceiling R-19 to R-38 Insulation 3.14 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%					50.0% 45.0%	0.028	2.68 2.67	0.01	0.02 0.07	\$0.89 \$1.68	\$1.04 \$1.98	F F	F F
SJE	Retail	Lighting_2L4T12	Electric	Stock	New	5.89 4' 1L T8 Premium, EB, reflector	61.1%	\$ 1.8) 25	5 33.3%	100.0%	33.3%	3.599	5.89	1.20	3.60	\$0.05	\$0.05	Ċ	Ċ
	Retail Retail	Lighting_2L4T12 Lighting_2L4T12	Electric Electric		New New	5.89 4' 2L T8 Premium, EB 5.89 4' 1L T5HO, EB	25.0% 13.9%					33.3% 33.3%	1.473 0.819	5.89 5.89	0.49 0.27	1.47 0.82	\$0.06 \$0.08	\$0.06 \$0.08	C E	C E
SJE	Retail	Lighting_2L4T12	Electric	Stock	New	5.89 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	\$ 4.3	5 18	3 50.0%	100.0%	50.0%	4.418	5.89	2.21	4.42	\$0.11	\$0.11	F	F
SJE	Retail Retail	Lighting_2L4T8 Lighting_2L8T12	Electric Electric		New New	4.71 4' 2L T8 Premium, EB 5.89 8' 2L T8. EB	8.5% 52.8%					100.0% 50.0%	0.400 3.110	4.71 5.89	0.40 1.55	0.40 3.11	\$0.07 \$0.01	\$0.07 \$0.01	D A	D A
	Retail	Lighting_2L8T12	Electric	Stock	New	5.89 8' 1L T12, 60W, EB, reflector	55.3%		3 25	5 25.0%	100.0%	25.0%		5.89	0.81	3.26	\$0.03		A	A
	Retail Retail	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	5.89 8' 2L T12, 60W, EB 5.89 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% 75.0%					23.9% 20.0%	0.623 4.418	5.89 5.89	0.15 0.88	0.62 4.42	\$0.03 \$0.13	\$0.03 \$0.13	B F	B F
SJE		Lighting_3L4T12	Electric		New	5.89 4' 1L T5HO, EB	46.1%		2 25	5 25.0%		25.0%	2.715	5.89	0.68	2.71	\$0.00	\$0.00	A	A
	Retail Retail	Lighting_3L4T12 Lighting_3L4T12	Electric Electric		New New	5.89 4' 3L T8, EB 5.89 4' 2L T8 Premium, EB, reflector	22.6% 53.0%					25.0% 25.0%	1.332 3.124	5.89 5.89	0.33 0.78	1.33 3.12	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
SJE	Retail	Lighting_3L4T12	Electric	Stock	New	5.89 4' 3L T8 Premium, EB	22.6%	\$ 0.3	1 25	5 25.0%	100.0%	25.0%	1.332	5.89 4.71	0.33	1.33	\$0.02	\$0.02	A	A
SJE	Retail Retail	Lighting_3L4T8 Lighting_4L4T12	Electric Electric		New New	4.71 4' 3L T8 Premium, EB 5.89 4' 3L T8, EB	6.7% 38.2%					100.0% 16.7%	0.316 2.250	4.71 5.89	0.32 0.37	0.32 2.25	\$0.15 \$0.00	\$0.15 \$0.00	A	A
	Retail Retail	Lighting_4L4T12	Electric Electric		New New	5.89 4' 3L T8 Premium, EB 5.89 4' 4L T8, EB	42.4% 22.2%		5 25	5 16.7%		16.7% 16.7%	2.495 1.309	5.89 5.89	0.42 0.22	2.50 1.31	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
SJE	Retail	Lighting_4L4T12 Lighting_4L4T12	Electric		New	5.89 4' 2L T8 Premium, EB, reflector	62.5%	\$ 0.8	3 25	5 16.7%	100.0%	16.7%	3.681	5.89	0.61	3.68	\$0.02	\$0.02	A	Ä
SJE	Retail Retail	Lighting_4L4T12 Lighting_4L4T12	Electric Electric		New New	5.89 4' 2L T5HO, EB 5.89 4' 4L T8 Premium, FB	18.8% 25.0%					16.7% 16.7%	1.104 1.473	5.89 5.89	0.18 0.25	1.10 1.47	\$0.03 \$0.04	\$0.03 \$0.04	A B	A
SJE	Retail	Lighting_4L4T12	Electric	Stock	New	5.89 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	\$ 4.3	7 18	3 50.0%	100.0%	50.0%	4.418	5.89	2.21	4.42	\$0.11	\$0.11	F	F
	Retail Retail	Lighting_4L4T8 Lighting_INC150W	Electric Electric		New New	4.71 4' 4L T8 Premium, EB 5.89 HPS, 50W	3.6% 56.0%					100.0% 41.2%	0.170 3.298	4.71 5.89	0.17 1.36	0.17 3.30	\$0.19 \$0.29	\$0.19 \$0.29	F	F
SJE	Retail	Plug_Load	Electric	Stock	New	0.15 Smart Networks	6.4%	\$ 0.0) 4	4 90.0%	40.0%	36.0%	0.010	0.15	0.00	0.01	\$0.02	\$0.02	A	A
SJE	Retail Retail	Plug_Load	Electric Electric		New New	0.15 ENERGY STAR or Better Office Equipment: Monitors 0.15 ENERGY STAR or Better Office Equipment: Copiers	15.3% 9.6%					71.0% 33.0%	0.023 0.014	0.15 0.13	0.02	0.02 0.01	\$0.10 \$0.12	\$0.11 \$0.13	F	F
	Retail	Plug_Load Plug_Load	Electric		New	0.15 ENERGY STAR or Better Office Equipment: Copiers 0.15 ENERGY STAR or Better Office Equipment: Computer	17.2%					65.0%		0.13	0.00	0.01	\$0.12 \$0.18		F	F
SJE	Retail Retail	Plug_Load	Electric Electric		New New	0.15 ENERGY STAR or Better Office Equipment: Printers	14.6% 5.0%			4 100.0% 5 50.0%	99.0% 100.0%	99.0% 50.0%	0.022	0.11 4.59	0.02 0.11	0.02 0.23	\$0.31 \$0.15	\$0.41 \$0.15	F	F
SJE		Space_Heat Space_Heat	Electric		New	4.59 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.59 Ceiling R-19 to R-38 Insulation	3.0%					50.0% 27.9%		4.59	0.11	0.23	\$0.15 \$0.18			F
	Retail Retail	Space_Heat Water Heat	Electric Electric		New New	4.59 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 1.01 Heat Pump Water Heater	2.6% 30.0%	\$ 1.3	1 20	50.0%		45.0% 75.0%		4.44 1.01	0.05 0.23		\$1.15 \$1.01			F
SJE	Retail	Water_Heat Water_Heat	Electric		New	1.01 Heat Pump Water Heater 1.01 Demand controlled circulating systems	30.0% 5.0%					75.0% 50.0%		1.01 0.78	0.23		\$1.01 \$9.50			F
SJE	School School	Cooling_Chillers	Electric	Stock	New New	1.51 EMS Optimization	1.0%	\$ -		5 100.0%	50.0%	50.0% 49.5%	0.015 0.059	1.51	0.01 0.03	0.02	\$0.00 \$0.03	\$0.00 \$0.03	Α	A
SJE	School	Cooling_Chillers Cooling_Chillers	Electric Electric	Stock	New	1.51 High Efficiency Windows, Low-e; U=0.35 1.51 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	\$ 0.0	3 15	5 67.0%	90.0%	60.3%	0.113	1.50 1.47	0.07	0.11	\$0.09	\$0.09	E	E
	School School	Cooling_Chillers	Electric		New	1.51 Primary/Secondary De-coupled Chilled Water System	12.0%	\$ 0.3				40.0%	0.181	1.41	0.07	0.17 0.13	\$0.23 \$0.23			F
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	 1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.51 Optimize Chilled Water and Condenser Water Settings 	10.0% 5.0%					50.0% 16.5%	0.151	1.34 1.27	0.07 0.01	0.13	\$0.23 \$0.31	\$0.26 \$0.37	F	F
SJE		Cooling_Chillers	Electric		New	1.51 Cool Roofs (Reflective and Spray Evaporative)	6.1%	\$ 0.2	1 10	90.0%	100.0%	90.0%		1.26	0.07	0.08	\$0.40			F
	School School	Cooling_Chillers Cooling_Chillers	Electric Electric		New New	1.51 Ceiling R-19 to R-38 Insulation 1.51 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%					11.7% 45.0%	0.014	1.19 1.19	0.00 0.01	0.01 0.03	\$1.83 \$3.50			F
SJE	School School	Cooling_DX	Electric	Stock	New	1.51 High Efficiency Windows, Low-e; U=0.35	5.0%	\$ 0.0	1 30	75.0%	66.0%	49.5%	0.076	1.51 1.47	0.04		\$0.05	\$0.05	С	C F
	School School	Cooling_DX Cooling_DX	Electric Electric		New New	 1.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 1.51 Cool Roofs (Reflective and Spray Evaporative) 	10.0% 6.1%					50.0% 50.0%		1.47 1.40	0.07 0.04		\$0.23 \$0.40			F

Area	a Building Type	End-Use	Fuel	Efficience	cy Vintage	EUI Measure Names	Energy Savings	Full Per Ur Cost	nit Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost	Enormy	Stand Alone Cost Group	
	School	Cooling_DX		Stock	New	1.51 DX Tune-Up / Diagnostics	10.0%				10.0%	10.0%	0.151	1.36	0.01	0.14	\$0.49		F	F
	School School	Cooling_DX Cooling_DX	Electric	Stock	New New	1.51 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 1.51 Ceiling R-19 to R-38 Insulation	10.0%				95.0% 23.4%	23.8% 11.7%	0.151 0.014	1.34 1.31	0.03		\$0.69 \$1.83		F	F
SJD	School	Cooling_DX	Electric	Stock	New	1.51 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	\$ 1.3	1 20	50.0%	90.0%	45.0% 49.5%	0.040	1.31	0.02		\$3.50	\$4.04	F	F
SJD	0011001	Cooling_HeatPump Cooling_HeatPump	Electric	Stock	New New	1.51 High Efficiency Windows, Low-e; U=0.351.51 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% 10.0%				66.0% 100.0%	50.0%	0.076	1.51 1.47	0.04 0.07	0.08	\$0.05 \$0.23		C F	C F
	School School	Cooling_HeatPump Cooling HeatPump	Electric		New New	1.51 Cool Roofs (Reflective and Spray Evaporative) 1.51 DX Tune-Up / Diagnostics	6.1% 10.0%				100.0% 10.0%	50.0% 10.0%	0.093 0.151	1.40 1.36	0.04	0.09 0.14	\$0.40 \$0.49		F	F
SJD	School	Cooling_HeatPump			New	1.51 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	\$ 0.6	5 10	25.0%	95.0%	23.8%	0.151	1.34	0.03	0.13	\$0.69	\$0.77	F	F
SJD	School School	Cooling_HeatPump Cooling_HeatPump	Electric	Stock Stock	New New	1.51 Ceiling R-19 to R-38 Insulation 1.51 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.9% 2.6%				23.4% 90.0%	11.7% 45.0%	0.014 0.040	1.31 1.31	0.00	0.01 0.03	\$1.83 \$3.50		F	F
SJD	School	Lighting_2L4T12	Electric	Stock	New	2.68 4' 1L T8 Premium, EB, reflector	61.1%	\$ 1.4	0 34	33.3%	100.0%	33.3%	1.638	2.68	0.55	1.64	\$0.08	\$0.08	Ē	Ē
	School School	Lighting_2L4T12 Lighting_2L4T12	Electric	Stock Stock	New New	2.68 4' 2L T8 Premium, EB 2.68 4' 1L T5HO, EB	25.0% 13.9%				100.0% 100.0%	33.3% 33.3%	0.670 0.373	2.68 2.68	0.22 0.12		\$0.09 \$0.12		E F	E F
SJD	School	Lighting_2L4T12	Electric	Stock	New	2.68 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	\$ 3.3	8 24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	\$0.17		F	E
SJD SJD	School School	Lighting_2L4T8 Lighting_2L8T12		Stock Stock	New New	2.14 4' 2L T8 Premium, EB 2.68 8' 2L T8, EB	8.5% 52.8%				100.0% 100.0%	100.0% 50.0%	0.182 1.415	2.14 2.68	0.18 0.71	0.18 1.42	\$0.11 \$0.02		A	A
	School	Lighting_2L8T12	Electric		New	2.68 8' 1L T12, 60W, EB, reflector 2.68 8' 2L T12, 60W, EB	55.3%				100.0%	25.0%	1.482 0.283	2.68	0.37	1.48 0.28	\$0.05 \$0.05			C
	School School	Lighting_2L8T12 Lighting_2L8T12	Electric Electric		New New	2.68 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% 75.0%		2 24	30.0%	32.9% 100.0%	8.2% 30.0%		2.68 2.68	0.60		\$0.05		F	F
SJD	School School	Lighting_3L4T12 Lighting_3L4T12	Electric	Stock	New New	2.68 4' 1L T5HO, EB 2.68 4' 3L T8. EB	46.1% 22.6%				100.0% 100.0%	25.0% 25.0%	1.235 0.606	2.68 2.68	0.31 0.15	1.24 0.61	\$0.00 \$0.01		A A	A
	School	Lighting_3L4T12	Electric		New	2.68 4' 2L T8 Premium, EB, reflector	53.0%				100.0%	25.0%	1.422	2.68	0.15		\$0.01		Ä	A A
	School School	Lighting_3L4T12 Lighting_3L4T8	Electric	Stock Stock	New New	2.68 4' 3L T8 Premium, EB 2.14 4' 3L T8 Premium, EB	22.6% 6.7%				100.0% 100.0%	25.0% 100.0%	0.606	2.68 2.14	0.15	0.61 0.14	\$0.02 \$0.23		A	A
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68 4' 3L T8, EB	38.2%	\$ 0.0	9 34	16.7%	100.0%	16.7%	1.024	2.68	0.17	1.02	\$0.01	\$0.01	Ä	Ä
	School School	Lighting_4L4T12 Lighting_4L4T12		Stock Stock	New New	2.68 4' 3L T8 Premium, EB 2.68 4' 4L T8, EB	42.4% 22.2%				100.0% 100.0%	16.7% 16.7%	1.135 0.596	2.68 2.68	0.19 0.10		\$0.02 \$0.03		A A	A A
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68 4' 2L T8 Premium, EB, reflector	62.5%	\$ 0.6	6 34	16.7%	100.0%	16.7%	1.675	2.68	0.28	1.68	\$0.04	\$0.04	В	B
SJD	School School	Lighting_4L4T12 Lighting_4L4T12	Electric	Stock Stock	New New	2.68 4' 2L T5HO, EB 2.68 4' 4L T8 Premium. EB	18.8% 25.0%				100.0% 100.0%	16.7% 16.7%	0.503 0.670	2.68 2.68	0.08	0.50 0.67	\$0.05 \$0.06		C	C C
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	\$ 3.5	2 24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	\$0.17	\$0.17	F	Ē
	School School	Lighting_4L4T8 Lighting_INC150W	Electric Electric		New New	2.14 4' 4L T8 Premium, EB 2.68 HPS, 50W	3.6% 56.0%				100.0% 85.5%	100.0% 38.5%	0.077 1.501	2.14 2.68	0.08 0.58	0.08 1.50	\$0.31 \$0.20		F F	F F
SJD	School	Plug_Load	Electric	Stock	New	0.11 Smart Networks	7.2%	\$ 0.0	0 4	90.0%	40.0%	36.0%	0.008	0.11	0.00	0.01	\$0.19	\$0.19	F	E
SJD SJD	School School	Plug_Load Plug_Load	Electric	Stock Stock	New New	0.11 ENERGY STAR or Better Office Equipment: Copiers 0.11 ENERGY STAR or Better Office Equipment: Monitors	9.0% 17.3%				33.0% 71.0%	33.0% 71.0%	0.010 0.019	0.11 0.10	0.00 0.01	0.01 0.02	\$0.48 \$0.99		F	F
	School	Plug_Load	Electric		New	0.11 ENERGY STAR or Better Office Equipment: Printers	11.2%	\$ 0.0			99.0%	99.0%	0.012 0.021	0.09	0.01	0.01	\$1.69 \$1.77		F	F
	School School	Plug_Load Space_Heat	Electric	Stock Stock	New New	 0.11 ENERGY STAR or Better Office Equipment: Computer 2.77 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	19.5% 5.0%				65.0% 100.0%	65.0% 50.0%	0.021	0.08 2.77	0.01 0.07	0.02 0.14	\$1.77 \$0.25		F	F
SJD	School School	Space_Heat Space Heat	Electric	Stock	New New	2.77 Ceiling R-19 to R-38 Insulation 2.77 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	3.0% 2.6%	\$ 0.2 \$ 1.3			44.9% 90.0%	22.5% 45.0%	0.083	2.70 2.68	0.02		\$0.30 \$1.91		F	F
SJD	School	Water_Heat	Electric	Stock	New	0.9 Heat Pump Water Heater	30.0%	\$ 2.5	3 15	75.0%	87.2%	65.4%	0.270	0.90	0.18	0.27	\$1.15	\$1.15	F	F
	School Small Office	Water_Heat Cooling_Chillers	Electric	Stock	New New	0.9 Demand controlled circulating systems 4.19 EMS Optimization	5.0% 1.0%		7 15 F		100.0% 50.0%	50.0% 50.0%	0.045	0.72 4.19	0.02	0.04 0.04	\$10.86 \$0.00		F A	F A
SJD	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19 High Efficiency Windows, Low-e; U=0.35	9.3%	\$ 0.0	6 30	75.0%	99.4%	74.6%	0.388	4.17	0.29	0.39	\$0.01	\$0.01	Α	Ä
	Small_Office Small Office	Cooling_Chillers Cooling_Chillers		Stock Stock	New New	4.19 Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F 4.19 Primary/Secondary De-coupled Chilled Water System	7.5% 12.0%				90.0% 80.0%	60.3% 40.0%	0.314	3.88 3.71	0.18 0.18		\$0.04 \$0.11		B F	B F
SJD	Small_Office	Cooling_Chillers		Stock	New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	\$ 0.2	9 10	50.0%	100.0%	50.0%	0.419	3.53	0.18	0.35	\$0.11	\$0.13	F	F
	Small_Office Small_Office	Cooling_Chillers Cooling_Chillers	Electric	Stock Stock	New New	4.19 Optimize Chilled Water and Condenser Water Settings 4.19 Ceiling R-19 to R-38 Insulation	5.0% 0.9%				50.0% 8.7%	16.5% 4.4%	0.210 0.038	3.35 3.32	0.03		\$0.15 \$0.46		F F	F F
SJD	Small_Office	Cooling_Chillers	Electric		New	4.19 Cool Roofs (Reflective and Spray Evaporative)	1.8%		4 10	90.0%	100.0%	90.0%	0.076	3.32	0.05		\$0.49		F	F
	Small_Office Small_Office	Cooling_Chillers Cooling_DX	Electric Electric	Stock	New New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 4.19 High Efficiency Windows, Low-e; U=0.35	2.6% 5.0%				90.0% 99.4%	45.0% 74.6%	0.110 0.210	3.27 4.19	0.04 0.16	0.09 0.21	\$1.26 \$0.06		D	D
	Small_Office Small_Office	Cooling_DX Cooling_DX	Electric	Stock Stock	New New	4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 4.19 DX Tune-Up / Diagnostics	10.0% 10.0%				100.0% 10.0%	50.0% 10.0%	0.419 0.419	4.03 3.83	0.20	0.40 0.38	\$0.11 \$0.24		F	F
SJD	Small_Office	Cooling_DX	Electric	Stock	New	4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	\$ 0.8	7 10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	\$0.33	\$0.36	F	F
	Small_Office Small_Office	Cooling_DX Cooling_DX		Stock Stock	New New	4.19 Ceiling R-19 to R-38 Insulation 4.19 Cool Roofs (Reflective and Spray Evaporative)	0.9% 1.8%				8.7% 100.0%	4.4% 50.0%	0.038 0.076	3.70 3.70	0.00		\$0.46 \$0.49		F	F F
SJD	Small_Office	Cooling_DX	Electric	Stock	New	4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	\$ 1.3	1 20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	\$1.26	\$1.44	F	F
	Small_Office Small Office	Cooling_HeatPump Cooling_HeatPump	Electric	Stock	New New	 4.19 High Efficiency Windows, Low-e; U=0.35 4.19 Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.) 	5.0% 10.0%				99.4% 100.0%	74.6% 50.0%	0.210 0.419	4.19 4.03	0.16 0.20		\$0.06 \$0.11		D F	D F
	Small_Office	Cooling_HeatPump	Electric		New	4.19 DX Tune-Up / Diagnostics	10.0%	\$ 0.2	3 3		10.0%	10.0%	0.419	3.83	0.04	0.38	\$0.24 \$0.33		F	F
	Small_Office Small_Office	Cooling_HeatPump Cooling_HeatPump	Electric Electric		New New	4.19 Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling 4.19 Ceiling R-19 to R-38 Insulation	10.0% 0.9%				95.0% 8.7%	23.8% 4.4%	0.419 0.038	3.79 3.70	0.09	0.03	\$0.33 \$0.46		F	F
	Small_Office Small_Office	Cooling_HeatPump Cooling HeatPump	Electric	Stock	New New	4.19 Cool Roofs (Reflective and Spray Evaporative) 4.19 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.8% 2.6%				100.0% 90.0%	50.0% 45.0%	0.076 0.110	3.70 3.67	0.03	0.07 0.10	\$0.49 \$1.26		F	F F
SJD	Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29 4' 1L T8 Premium, EB, reflector	61.1%	\$ 1.5	8 16	33.3%	100.0%	33.3%	3.233	5.29	1.08	3.23	\$0.06	\$0.06	C	Ċ
	Small_Office Small Office	Lighting_2L4T12 Lighting_2L4T12	Electric	Stock Stock	New New	5.29 4' 2L T8 Premium, EB 5.29 4' 1L T5HO, EB	25.0% 13.9%				100.0% 100.0%	33.3% 33.3%	1.323 0.735	5.29 5.29	0.44 0.25	1.32 0.74	\$0.07 \$0.09		D E	D E
SJD	Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29 Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	\$ 3.8	2 11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.14	\$0.14	F	F
	Small_Office Small Office	Lighting_2L4T8 Lighting_2L8T12	Electric		New New	4.24 4' 2L T8 Premium, EB 5.29 8' 2L T8, EB	8.5% 52.8%				100.0% 100.0%	100.0% 50.0%	0.360 2.793	4.24 5.29	0.36 1.40		\$0.09 \$0.02		E A	E A
SJD	Small_Office	Lighting_2L8T12	Electric	Stock	New	5.29 8' 1L T12, 60W, EB, reflector	55.3%	\$ 0.7	9 16	3 25.0%	100.0%	25.0%	2.925	5.29	0.73	2.93	\$0.03	\$0.03	В	В
	Small_Office Small Office	Lighting_2L8T12 Lighting_2L8T12		Stock Stock	New New	5.29 8' 2L T12, 60W, EB 5.29 Continuous Dimming, 5-8' Fluorescent Fixtures	10.6% 75.0%				26.6% 100.0%	6.6% 40.0%	0.559 3.968	5.29 5.29	0.04 1.59	0.56 3.97	\$0.04 \$0.15		B F	B F
	Small_Office	Lighting_3L4T12		Stock	New	5.29 4' 1L T5HO, EB	46.1%				100.0%	25.0%	2.438	5.29	0.61	2.44	\$0.00		A	A
	Small_Office Small_Office	Lighting_3L4T12 Lighting_3L4T12	Electric		New New	5.29 4' 3L T8, EB 5.29 4' 2L T8 Premium, EB, reflector	22.6% 53.0%				100.0% 100.0%	25.0% 25.0%	1.196 2.806	5.29 5.29	0.30 0.70	1.20 2.81	\$0.00 \$0.01	\$0.00 \$0.01	A A	A
	Small_Office	Lighting_3L4T12	Electric	Stock Stock	New New	5.29 4' 3L T8 Premium, EB 4.24 4' 3L T8 Premium, EB	22.6% 6.7%				100.0% 100.0%	25.0%	1.196 0.284	5.29 4.24	0.30	1.20	\$0.01 \$0.18		A F	A
SJD	Small_Office Small_Office	Lighting_3L4T8 Lighting_4L4T12	Electric	Stock	New	5.29 4' 3L T8, EB	38.2%	\$ 0.1	0 16	16.7%	100.0%	100.0% 16.7%	2.021	5.29	0.28 0.34	2.02	\$0.01	\$0.01	Α	A
	Small_Office Small_Office	Lighting_4L4T12 Lighting_4L4T12		Stock Stock	New New	5.29 4' 3L T8 Premium, EB 5.29 4' 4L T8, EB	42.4% 22.2%				100.0% 100.0%	16.7% 16.7%	2.241 1.176	5.29 5.29	0.37 0.20		\$0.02 \$0.02			A
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29 4' 2L T8 Premium, EB, reflector	62.5%	\$ 0.7	4 16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	\$0.03	\$0.03	Α	Ä
	Small_Office Small Office	Lighting_4L4T12 Lighting_4L4T12		Stock Stock	New New	5.29 4' 2L T5HO, EB 5.29 4' 4L T8 Premium, EB	18.8% 25.0%				100.0% 100.0%	16.7% 16.7%	0.992 1.323	5.29 5.29	0.17 0.22		\$0.03 \$0.04		B B	B B
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29 Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	\$ 3.9	3 11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	\$0.15	\$0.15	F	F
	Small_Office Small Office	Lighting_4L4T8 Lighting_INC150W		Stock Stock	New New	4.24 4' 4L T8 Premium, EB 5.29 HPS, 50W	3.6% 56.0%					100.0% 42.2%		4.24 5.29	0.15 1.25		\$0.24 \$0.38		F F	F F
SJD	Small_Office	Plug_Load		Stock	New	1.59 Smart Networks	9.1%	\$ 0.0	1 4	90.0%	40.0%	36.0%	0.145	1.59	0.05	0.15	\$0.02	\$0.02	A	A
	Small_Office Small_Office	Plug_Load Plug_Load		Stock Stock	New New	1.59 ENERGY STAR or Better Office Equipment: Monitors 1.59 ENERGY STAR or Better Office Equipment: Copiers	21.9% 4.8%				71.0% 33.0%	71.0% 33.0%	0.349 0.077	1.54 1.30	0.24 0.02		\$0.09 \$0.14		E F	E F
SJD	Small_Office	Plug_Load		Stock	New New	1.59 ENERGY STAR or Better Office Equipment: Computer	24.7%	\$ 0.1	8 4	100.0%	65.0%	65.0%	0.393	1.28	0.21	0.32	\$0.15	\$0.19	F	F
	Small_Office Small_Office	Plug_Load Space_Heat		Stock Stock	New New	1.59 ENERGY STAR or Better Office Equipment: Printers 6.18 Ceiling R-19 to R-38 Insulation	8.0% 3.0%					99.0% 6.5%		1.07 6.18	0.09		\$0.26 \$0.09			E

The content of the	Are	a Building Ty	уре	End-Use	Fuel	Efficienc	y Vintage	EUI	Measure Names	Energy Fu Savings	III Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings		Stacked Savings	Stacked Savings Full App	Stand-alone Marginal Energy Cost		Stand Alone Cost Group	
Part															50.0%							F	F
15 March																						F	F
1.											0.91												F A
1			· C	cooling_Chillers				1.66 High Effi	iciency Windows, Low-e; U=0.35	5.4% \$	0.01	30	75.0%			0.090	1.65	0.07					Ä
Second Company																						_	B
Company Comp												10			50.0%		1.44	0.07	0.14			_	Ē
Company Comp																						F	F
Company										0.9% \$					10.0%		1.30	0.00	0.01		\$2.05	F	F
Company Comp																						F B	F B
15 15 15 15 15 15 15 15	SJD	Warehouse	· C	Cooling_DX	Electric	Stock	New	1.66 Installation	ion of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0% \$	0.09	10	50.0%	100.0%	50.0%	0.166	1.60	0.08	0.16	\$0.08	\$0.09		Ē
15 Company 15																						F	F
10 10 10 10 10 10 10 10	SJD	Warehouse	C	Cooling_DX	Electric	Stock	New	1.66 Cool Roo	ofs (Reflective and Spray Evaporative)	4.3% \$	0.47	10	50.0%	100.0%	50.0%	0.071	1.47	0.03	0.06	\$1.05	\$1.18	F	Ē
																						F	F
Company Comp	SJD	Warehouse	· C	cooling_HeatPump	Electric	Stock	New	1.66 High Effi	iciency Windows, Low-e; U=0.35	5.0% \$	0.03	30	75.0%	100.0%	75.0%	0.083	1.66	0.06	0.08	\$0.03	\$0.03		В.
Company																						E F	E F
B. December Control	SJD	Warehouse	C	cooling_HeatPump	Electric	Stock	New	1.66 Installation	ion of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0% \$	0.26	10	25.0%	95.0%	23.8%	0.166	1.50	0.04	0.15	\$0.25	\$0.28	F	F
1.0 1.0																						F F	F F
Second Company Compa	SJD	Warehouse	· C	cooling_HeatPump	Electric	Stock	New	1.66 Wall 2x4	4 R-13 to 2x6 R-19 Batt Insulation	2.6% \$	1.31	20	50.0%	90.0%	45.0%	0.044	1.43	0.02	0.04	\$3.18	\$3.69	F	F
B. Declared Suppling Act Declared Su																							
Section Company Comp	SJD	Warehouse	. L	ighting_2L4T12	Electric	Stock	New	2.94 4' 1L T5I	HO, EB	13.9% \$	0.30	22	33.3%	100.0%	33.3%	0.409	2.94	0.14	0.41	\$0.07	\$0.07		
																						F D	F D
Section Configurary February Februar			. L	ighting_2L8T12								22			50.0%	1.552	2.94	0.78					A
State																							A B
Section Company Comp			· L	ighting_2L8T12															2.21			F	F
State				ighting_3L4112 ighting_3L4T12																			A
S.D. Westloop: S.D.			: L	ighting_3L4T12						53.0% \$		22	25.0%	100.0%	25.0%	1.559	2.94	0.39	1.56	\$0.00		A	A
Section Sect																						A F	A F
Sect			L	ighting_4L4T12								22			16.7%		2.94						
Section Control Cont																						A	A
Section Part Section		Warehouse	. L	ighting_4L4T12				2.94 4' 2L T8	Premium, EB, reflector	62.5% \$		22		100.0%	16.7%	1.838	2.94	0.31	1.84	\$0.02	\$0.02	A	A
Substitution Subs																						B	B
S.D. Wenthouse Lybring MICTON February Page Load Electric Stock New 24 HPS GNV 16 MPS 16 MP																						F	F
S.D. Wendrouse Pha_Local Section Sook New O. S. P. S.P. C. Y. S. T. A. P. Pha_Local Section Sook New O. S. P. S. P. Pha_Local Section Sook New O. S. P. P. Pha_Local Section Section Sook Section Sec																	2.94					F	F
Sub-there Sub																						F	F
Sub-relevance Figure Sub-relevance Sub	SJD	Warehouse	P		Electric	Stock	New	0.15 ENERGY	Y STAR or Better Office Equipment: Copiers	7.1% \$	0.02	4	100.0%	33.0%	33.0%	0.011	0.13	0.00	0.01		\$0.78	F	F
Solid Serve Space Feet Electric Block Space Feet Space Feet Electric Block Space Feet Feet Feet Space Feet Feet Space Feet Feet Space Feet Feet Feet Space Feet																						F	F
S.D. Varierbouse Space S	SJD	Warehouse	S	pace_Heat	Electric	Stock	New	4.02 Installation	ion of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0% \$	0.28	15	50.0%	100.0%	50.0%	0.201	4.02	0.10	0.20	\$0.17	\$0.17	F	F
S.D. Waterboxe Water Fleetic Stock New 0.42 Heart Purply Water Feeting S.D. Water																						F	F
MPS Mull Family Central AC Electic Stock Existing 1444 18 ENREROY STAR Programmate Framework (Electronic w/ Adaptive Recovery) 6.0% \$ 100.00 12 8.0% 8.9.4% 71.9% 88.65004 1444 1824 40.07 27.9 F F F MPS Mull Family Central AC Electic Stock Existing 1444 18 ENREROY STAR Programmate Framework 14.2% \$ 47.20 3.0 67.0% 50.95% 40.1% 62.779 109.15 62.538 15.05 63.95 6	SJD	Warehouse	· V	Vater_Heat	Electric	Stock	New	0.42 Heat Pur	mp Water Heater	30.0% \$	0.11	15	75.0%	100.0%	75.0%	0.126	0.42	0.09	0.13	\$0.10	\$0.10	F	F
MPS Muli Family Central AC Electric Stock Existing 1144.19 Celling R4-0 pr. 19 insulation 14.21% 5.471.20 30 67.01% 59.91% 40.11% 62.7181 109.01772 22.7185 5.309 7.71% 7.13% 308.6405 101.0157 13.9101 270.6527971 30.14 50.478 7.13% 10.01%																						F F	F F
MPS Muli Family Central AC Electic Slock Esisting 144.18 htgls Electical Slock Esisting 144.18	MPS	Multi Family	y c	Central AC	Electric	Stock	Existing	1144.18 Ceiling F	R-0 to R-19 Insulation	14.2% \$	447.20	30	67.0%	59.8%	40.1%	162.4739	1095.1052	62.3348	155.504937	\$0.25	\$0.27	F	F
MPS Mult Farmly Central AC Electic Stock Existing 1144-18 Duct Insulation (R\$-10 R\$-0] 8.8% \$376.00 10 00 \(\) 2 \(\) 2 \(\) 5 \(\) 5 \(\) 6 \(\) 1 \(F F	F F
MPS Multi Family Central AC Electric Stock Esisting 144.18 For	MPS	Multi Family	y C	Central AC	Electric	Stock	Existing	1144.18 Duct Ins	sulation (R-3 to R-8)	6.8% \$	376.00	30	50.0%	40.0%	20.0%	77.8044	817.04002	11.109	55.5587212	\$0.45	\$0.62	F	F
MPS Multi Family Central Heat Electric Stock Existing 144.14 Celling R-19 to R-38 Insulation 2.31% \$ 4.47.20 30 33.0% 59.9% 197% 25.17201 1776.65422 53.073 71.084.8322 51.64 52.41 F F F F F F F F F																						F	F
MPS Multi Family Central Heat Electric Stock Existing	MPS	6 Multi Family	y C				Existing	1144.18 Ceiling F	R-19 to R-38 Insulation						19.7%	25.17201	776.56287	3.37307	17.0843832			F	F
MPS Multi Family Central Heat Electric. Stock Existing 7413.47 Celling R-0 to R-19 insulation					Electric	Stock						12										В	В
MPS Multi Family MPS Mu							Existing	7413.47 Ceiling F	R-0 to R-19 Insulation														
MPS Multi Family Central Heat Electic Slock Existing 7413.47 Duct Insulation (R-3 to R-9) 6.8% 3.365.00 30 50.0% 40.0% 20.0% 50.41169 4927.488 66.9971 335.0693224 50.07 50.10 5 F							Existing	7413.47 High Effi	iciency Windows, Low-e; U=0.35						71.3%	1986.81	6091.5217	1164.03	1632.52783			-	
MPS Multi Family Central Heat Electric Stock Existing 7413.47 Comprehensive Shell Air Sealing -Inf. Reduction 1.4.4% \$ 650.00 10 90.0% 20.0% 10.0% 10.0% 90.0% 361.86 24597903 194.69 2160767893 80.10 \$0.10 \$0.15 \$ F \$ F \$ MPS Multi Family Central Heat Electric Stock Existing 7413.47 ENERGY STAR or better Air Succeeded Pump, SEER=14; HSPF=8.5 48.5% \$ 3.220.00 10 90.0% 360.0% 10.0% 444.8082 615.0987 27.1631 150.095923 \$0.10 \$0.15 \$ F \$ F \$ MPS Multi Family Freezer							Existing	7413.47 Duct Ins	sulation (R-3 to R-8)														F
MPS Multi Family Central Heat Electric Stock Existing 7413.47 EINERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5							Existing	7413.47 Compreh	hensive Shell Air Sealing - Inf. Reduction			10			18.0%	1067.54	4578.4641	118.674	659.298825				F
MPS Mult Family Feezer Electric Stock Existing 431.47 Central Heat Electric Stock Existing 431.58 Removal of Secondary Freezer (or rep of ineff unit) 110.0% \$2.00 0.7 15.0% 100.0% 15.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0% 15.0% 100.0							Existing	7413.47 ENERGY	Y STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5													F	F
MPS Multi Family Heaf Pump Electric Stock Existing 4929.15 Getling Rove 10 Fe -11 Insulation 14.2% \$ 447.0 30	MPS	Multi Family	y c							2.2% \$	447.20											F	F
MPS Multi Family Heat Pump Electric Stock Existing 4929.15 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery) 14.2% 5.447.20 30 67.0% 59.8% 40.1% 699.9389 458.0447 261.158 661.502831 \$0.06 \$0.08 \$0.0																							
MPS Multi Family Heat Pump Electric Stock Existing 4929.15 Floor R-0 to R-11 Insulation-Batts 5.5% \$240.84 30 67.0% 59.9% 40.1% 270.1173 4012.5604 88.2684 219.888038 \$0.8 \$0.0 E F F F F F F F F F	MPS	Multi Family	y H	leat Pump	Electric	Stock	Existing	4929.15 Ceiling F	R-0 to R-19 Insulation	14.2% \$	447.20	30	67.0%	59.8%	40.1%	699.9389	4588.0467	261.158	651.502631	\$0.06	\$0.06	С	
MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F High Efficiency Windows Low-e; U=0.35 MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F High Efficiency Windows Low-e; U=0.35 MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F High Efficiency Windows Low-e; U=0.35 MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F High Efficiency Windows Low-e; U=0.35 MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Heat Pump Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Fixtures Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Fixtures Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Fixtures Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Fixtures Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Fixtures Electric Stock Existing 4929.1 F Low Efficiency Windows Low-e; U=0.35 MPS Multi Family Lighting Fixtures Electric Stock Existing 4929.1 F Low Efficiency Win																							E
MPS Multi Family Heal Pump Electric Stock Existing 4929.15 Comprehensive Shell Air Sealing - Inf. Reduction 6.8 % \$ 376.0 0 10 9.0 % 20.0 % 33.5182 3714.3993 43.161 215.858947 \$ 9.10 \$ 0.5 0.2 F F F MPS Multi Family Heal Pump Electric Stock Existing 4929.15 Comprehensive Shell Air Sealing - Inf. Reduction 14.4 % \$ 56.00 10 90.0 % 20.0 % 18.0 % 709.7972 3131235 31 131235 31 1161 45.093788 \$ 0.1 \$ 0.5 0.2 F F F MPS Multi Family Lighting Bulbs Electric Stock Existing 4929.15 Comprehensive Shell Air Sealing - Inf. Reduction 22.3 % 44.7 2 30 3.3 (% 59.8 % 19.7 % 108.4412 305.0737 13.2483 67.1016205 \$ 9.3 8 0.8 10.0 F F F MPS Multi Family Lighting Bulbs Electric Stock Existing 1088 CFL 2.5 hr/day 39.3 % 4.50 7 100.0 % 86.2 % 86.2 427.27615 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Bulbs Electric Stock Existing 1088 CFL 0.5 hr/day 39.3 % 4.50 7 100.0 % 86.2 % 427.2762 1088 868.28 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL 0.5 hr/day 39.3 % 21.33 10 100.0 % 86.2 % 86.2 427.2762 1088 68.2 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 6.0 hr/day 39.3 % 23.3 10 100.0 % 86.2 % 86.2 427.2762 1088 68.2 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 6.0 hr/day 59.3 % 23.3 10 100.0 % 86.2 % 86.2 427.2762 108 86.2 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 6.0 hr/day 59.3 % 23.3 10 100.0 % 86.2 % 86.2 427.2762 108 86.2 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 6.0 hr/day 59.3 % 23.3 10 100.0 % 86.2 % 86.2 427.2762 108 86.2 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 6.0 hr/day 59.3 % 23.3 10 100.0 % 86.2 % 86.2 427.2762 108 86.2 427.276155 \$ 0.0 2 0.0 2 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 108.2 CFL Fixtures, 2.5 hr/day 59.3 % 23.3 10 100.0	MPS	Multi Family	у Н	leat Pump	Electric	Stock	Existing	4929.15 Floor R-I	0 to R-11 Insulation-Batts	5.5% \$	240.84	30	67.0%	59.9%	40.1%	270.1173	4012.5604	88.2684	219.888308	\$0.08	\$0.10	E	F
MPS Multi Family Heat Pump Electric Stock Existing 4929.15 Comprehensive Shell Air Sealing - Inf. Reduction 14.4% \$65.00 10 90.0% 20.0% 18.0% 70.97972 3131 2353 81.161 64.089788 \$0.15 \$0.23 F F F F F F F F F											.,											E	F
MPS Multi Family Lighting Bulbs Electric Stock Existing 1088 CFL, 6.0 hr/day 21.3% 4.50 5 100.0% 72.7% 231.8128 1088 168.479 231.812753 \$0.01 A A MPS Multi Family Lighting Bulbs Electric Stock Existing 1088 CFL, 2.5 hr/day 39.3% \$ 4.50 7 100.0% 86.2% 427.2762 1088 46.3967 48.096578 80.02 \$0.02 \$0.02 \$0.02 \$0.02 \$0.00 <td>MPS</td> <td>6 Multi Family</td> <td>y H</td> <td>leat Pump</td> <td>Electric</td> <td>Stock</td> <td>Existing</td> <td>4929.15 Compreh</td> <td>hensive Shell Air Sealing - Inf. Reduction</td> <td>14.4% \$</td> <td>650.00</td> <td>10</td> <td>90.0%</td> <td>20.0%</td> <td>18.0%</td> <td>709.7972</td> <td>3131.2353</td> <td>81.1616</td> <td>450.89788</td> <td>\$0.15</td> <td>\$0.23</td> <td>F</td> <td>F</td>	MPS	6 Multi Family	y H	leat Pump	Electric	Stock	Existing	4929.15 Compreh	hensive Shell Air Sealing - Inf. Reduction	14.4% \$	650.00	10	90.0%	20.0%	18.0%	709.7972	3131.2353	81.1616	450.89788	\$0.15	\$0.23	F	F
MPS Multi Family Lighting Bulbs Electric Stock Existing 1088 CFL, 2.5 hr/day 39.3% \$ 4.50 7 100.0% 86.2% 427.2762 1088 368.28 427.27615 \$ 9.02 \$ 0.02 \$ 0.02 \$ 0.02 \$ 0.03																						F	F A
MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 6.0 hr/day 21.3% \$ 23.33 8 100.0% 72.7% 72.7% 231.8128 1088 168.479 231.812753 \$0.02 \$0.02 A A MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 2.5 hr/day 39.3% \$ 23.33 10 100.0% 86.2% 86.2% 427.2762 1088 468.2% 427.27615 \$0.04 \$0.04 B B B MS MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 0.5 hr/day 4.4% \$ 23.33 10 100.0% 86.2% 86.2% 427.2762 1088 46.3967 48.0805186 \$0.21 \$0.21 F F	MPS	Multi Family	y L	ighting Bulbs	Electric	Stock	Existing	1088 CFL, 2.5	5 hr/day	39.3% \$	4.50	7	100.0%	86.2%	86.2%	427.2762	1088	368.282	427.276155	\$0.02	\$0.02	Α	
MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 2.5 hr/day 39.3% \$ 23.33 10 10.00% 86.2% 427.2762 1088 368.282 427.276155 \$0.04 \$0.04 \$ B \$ MPS Multi Family Lighting Fixtures Electric Stock Existing 1088 CFL Fixtures, 0.5 hr/day 44.0% \$ 23.33 10 10.00% 96.5% 96.5% 48.08052 1088 46.3967 48.0805186 \$0.21 \$ F \$ F																							
	MPS	6 Multi Family	y L	ighting Fixtures	Electric	Stock	Existing	1088 CFL Fixt	tures, 2.5 hr/day	39.3% \$	23.33	10	100.0%	86.2%	86.2%	427.2762	1088	368.282	427.276155	\$0.04	\$0.04	В	В
																							F F

MO Energy Efficiency Plan 2006-2010 Measure Information

Schedule MED-3 Page 59 of 96

										Measure					Stacked		
Area Building Type	End-Use	Fuel Efficienc	v Vintage	EUI Measure Names				Feasibility	Incomplete	Applicability		justed S		Stand-alone Marginal	Marginal	Stand Alone	
			,		Savings	Cost	Life	Factor	Factor	(Feas Factor * Incomp Factor)	Savings	Base S	avings App	Energy Cost	Energy Cost	Cost Group	Group
MPS Multi Family	Refrigerator	Electric Stock	Existing	817.181 Removal of Secondary Refrigerator (or rep of ineff unit)	110.0% \$	200.00	7	15.0%	100.0%	15.0% 8			34.835 898.899133	\$0.05	\$0.05	С	С
MPS Multi Family MPS Multi Family	Room Heat Room Heat	Electric Stock Electric Stock	Existing Existing	7657.76 Ceiling R-0 to R-19 Insulation	14.2% \$ 5.5% \$		30 30	67.0% 67.0%	59.8% 59.9%				435.89 1087.40209 58.867 395.758554	\$0.04 \$0.05	\$0.04 \$0.06	B C	B C
MPS Multi Family	Room Heat	Electric Stock		7657.76 Floor R-0 to R-11 Insulation-Batts 7657.76 High Efficiency Windows, Low-e; U=0.35		1,370.00	30	75.0%	95.1%				349.67 1892.88521	\$0.05	\$0.06	D	D
MPS Multi Family	Room Heat	Electric Stock		7657.76 Duct Insulation (R-3 to R-8)	6.8% \$		30	50.0%	40.0%				7.6819 388.506443	\$0.07	\$0.09	D	E
MPS Multi Family MPS Multi Family	Room Heat Room Heat	Electric Stock		7657.76 Comprehensive Shell Air Sealing - Inf. Reduction 7657.76 Ceiling R-19 to R-38 Insulation	14.4% \$ 2.2% \$		10 30	90.0% 33.0%	20.0% 59.8%				46.076 811.533338 3.8444 120.770588	\$0.09 \$0.24	\$0.13 \$0.34	E F	F
MPS Multi Family	Water Heat	Electric Stock		3166.28 Water Heater Tank Blanket/Insulation	10.0% \$	17.00	15	90.0%	53.1%		316.6281 31		51.322 316.628101	\$0.01	\$0.01	A	A
MPS Multi Family	Water Heat	Electric Stock		3166.28 Faucet Aerators	1.9% \$	4.82	15	90.0%	73.4%				8.6386 58.4901995	\$0.01	\$0.01	A	A
MPS Multi Family MPS Multi Family	Water Heat Water Heat	Electric Stock Electric Stock		3166.28 Water Heater Thermostat Setback 3166.28 Hot Water Pipe Insulation	4.3% \$ 1.2% \$		15 15	50.0% 75.0%	83.7% 62.6%				3.0121 126.65192 6.9886 36.2012044	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Multi Family	Water Heat	Electric Stock	Existing	3166.28 Low-Flow Showerheads	5.1% \$	20.00	10	95.0%	27.2%	25.9%	161.797 290	6.3195 3	8.4322 148.512924	\$0.02	\$0.02	Α	A
MPS Multi Family MPS Multi Family	Water Heat Water Heat	Electric Stock Electric Stock		3166.28 Energy Star Dish Washer (EF=0.58) 3166.28 Drain Water Heat Recovery (GFX)	4.0% \$ 24.7% \$	70.00 550.00	13 15	100.0% 25.0%	96.4% 100.0%				11.314 115.423404 70.218 680.87352	\$0.07 \$0.09	\$0.08 \$0.10	D E	E F
MPS Multi Family	Water Heat	Electric Stock		3166.28 Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	9.9% \$	280.00	14	50.0%	97.0%				24.271 256.227942	\$0.12	\$0.14	F	F
MPS Multi Family MPS Multi Family	Water Heat Water Heat	Electric Stock Electric Stock		3166.28 Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25) 3166.28 Heat Pump Water Heater (FF=2.9)	12.1% \$	350.00 1.750.00	14 15	50.0% 40.0%	91.8% 99.9%				36.393 297.273313 64.673 1162.84528	\$0.12 \$0.14	\$0.15 \$0.19	F F	F
MPS Multi Family	Water Heat	Electric Stock				1,200.00	15	10.0%	100.0%				4.3793 243.793305	\$0.14	\$0.19	F	F
MPS Multi Family	Water Heat	Electric Stock	Existing	3166.28 Solar Water Heater		5,500.00	15	10.0%	99.0%				0.9136 918.319131	\$0.43	\$0.74	F	F
MPS Single Family MPS Single Family	Central AC Central AC	Electric Stock Electric Stock	Existing Existing	2370.5 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery) 2370.5 Ceiling R-0 to R-19 Insulation	6.0% \$ 24.3% \$	100.00 812.70	12 30	80.0% 67.0%	47.3% 53.0%				3.8084 142.229897 99.777 562.810486	\$0.10 \$0.13	\$0.10 \$0.13	E	E
MPS Single Family	Central AC	Electric Stock	Existing	2370.5 Duct Insulation (R-3 to R-8)	9.0% \$	376.00	30	50.0%	21.6%	10.8% 2	213.5819 211	6.9132 2	0.6374 190.733877	\$0.16	\$0.18	F	F
MPS Single Family	Central AC	Electric Stock Electric Stock	Existing Existing		4.0% \$ 7.9% \$		10 30	100.0% 67.0%	48.4% 54.5%				0.6091 83.8510308 9.3735 162.603237	\$0.21 \$0.31	\$0.23 \$0.35	F F	F F
MPS Single Family MPS Single Family	Central AC Central AC	Electric Stock	Existing	2370.5 Floor R-0 to R-11 Insulation-Batts 2370.5 Ceiling R-19 to R-38 Insulation	8.4% \$		30	33.0%	53.0%				9.3018 167.599597	\$0.38	\$0.35	F	F
MPS Single Family	Central AC	Electric Stock	Existing	2370.5 PTCS Duct Sealing &O&M	8.0% \$	750.00	20	50.0%	72.0%	36.0% 1	189.6399 196	6.9914 5	6.6494 157.359312	\$0.42	\$0.51	F	F
MPS Single Family MPS Single Family	Central AC Central AC	Electric Stock Electric Stock	Existing Existing	2370.5 High Efficiency Windows, Low-e; U=0.35 2370.5 Comprehensive Shell Air Sealing - Inf. Reduction	16.9% \$ 6.3% \$	2,800.00 650.00	30 10	16.9% 90.0%	85.0% 40.0%				6.3726 322.870219 2.5123 118.089831	\$0.64 \$0.69	\$0.80 \$0.88	F F	F F
MPS Single Family	Central AC	Electric Stock	Existing	2370.5 Floor R-11 to R-19 Insulation-Batts	1.5% \$	454.74	30	33.0%	54.5%	18.0% 3	35.55747 182	1.4571 4	.91375 27.3218564	\$1.18	\$1.54	F	F
MPS Single Family	Central Heat	Electric Stock	Existing	14693.7 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0% \$		12	80.0%	47.3%				33.535 881.622305 238.33 3488.6215	\$0.02	\$0.02	A	A
MPS Single Family MPS Single Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing Existing	14693.7 Ceiling R-0 to R-19 Insulation 14693.7 Duct Insulation (R-3 to R-8)	24.3% \$ 9.0% \$		30 30	67.0% 50.0%	53.0% 21.6%	35.5% 10.8% 1	3569.65 14 1323.903 131	21.839 1	238.33 3488.6215 27.922 1182.27773	\$0.02 \$0.03	\$0.02 \$0.03	A A	A
MPS Single Family	Central Heat	Electric Stock	Existing	14693.7 Wall 2x4 R-0 to Blow-In R-13 Insulation	17.6% \$		30	50.0%	54.5%				24.239 2290.82756	\$0.03	\$0.03	Α	Α
MPS Single Family MPS Single Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing	14693.7 HVAC Diagnostic Testing, Repair and Maintenance 14693.7 ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	4.0% \$	123.00 3,645.00	10 18	100.0% 10.0%	48.4% 100.0%		587.7482 123 3525.944 121		39.625 494.787116 703.84 7038.39844	\$0.03 \$0.05	\$0.04 \$0.06	B C	B C
MPS Single Family	Central Heat	Electric Stock	Existing	14693.7 Floor R-0 to R-11 Insulation-Batts	7.9% \$	625.26	30	67.0%	54.5%	36.5% 1	1162.272 114	26.213 3	30.021 903.813421	\$0.05	\$0.06	C	D
MPS Single Family	Central Heat Central Heat	Electric Stock	Existing	14693.7 ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5% \$ 8.4% \$	3,220.00 812.70	18	90.0% 33.0%	100.0% 53.0%				838.49 5376.10465 1.8512 525.36746	\$0.05 \$0.06	\$0.07 \$0.14	C D	D
MPS Single Family MPS Single Family	Central Heat	Electric Stock Electric Stock	Existing Existing	14693.7 Ceiling R-19 to R-38 Insulation 14693.7 PTCS Duct Sealing &O&M	8.0% \$		30 20	50.0%	72.0%				77.576 493.267666	\$0.06	\$0.14	D	F
MPS Single Family	Central Heat	Electric Stock		14693.7 High Efficiency Windows, Low-e; U=0.35		2,800.00	30	16.9%	85.0%				45.362 1012.08779	\$0.10	\$0.26	F	F
MPS Single Family MPS Single Family	Central Heat Central Heat	Electric Stock	Existing Existing	14693.7 Comprehensive Shell Air Sealing - Inf. Reduction 14693.7 Floor R-11 to R-19 Insulation-Batts	6.3% \$ 1.5% \$		10 30	90.0% 33.0%	40.0% 54.5%				33.262 370.171263 5.4029 85.6446827	\$0.11 \$0.19	\$0.28 \$0.49	F F	F F
MPS Single Family	Freezer	Electric Stock	Existing	643.037 Removal of Secondary Freezer (or rep of ineff unit)	110.0% \$		7	15.0%	100.0%				06.101 707.341156	\$0.06	\$0.06	c	C
MPS Single Family	Heat Pump	Electric Stock	Existing	10225.4 Ceiling R-0 to R-19 Insulation	24.3% \$		30	67.0%	53.0%				81.771 2484.12272	\$0.03	\$0.03	В	В
MPS Single Family MPS Single Family	Heat Pump Heat Pump	Electric Stock	Existing	10225.4 PTCS Duct Sealing &O&M 10225.4 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	25.3% \$ 6.0% \$		20 12	50.0% 80.0%	72.0% 47.3%				51.578 2365.49323 92.762 509.520926	\$0.03 \$0.03	\$0.03 \$0.04	B B	B B
MPS Single Family	Heat Pump	Electric Stock	Existing	10225.4 Duct Insulation (R-3 to R-8)	9.0% \$	376.00	30	50.0%	21.6%				0.9079 747.762738	\$0.04	\$0.05	В	С
MPS Single Family MPS Single Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing	10225.4 Wall 2x4 R-0 to Blow-In R-13 Insulation 10225.4 HVAC Diagnostic Testing, Repair and Maintenance	17.6% \$ 4.0% \$		30 10	50.0% 100.0%	54.5% 48.4%				94.816 1448.89432 51.557 312.941163	\$0.04 \$0.05	\$0.05 \$0.06	B C	C D
MPS Single Family	Heat Pump	Electric Stock		10225.4 Floor R-0 to R-11 Insulation-Batts	7.9% \$	625.26	30	67.0%	54.5%	36.5% 8	308.8263 767	1.9717 2	21.588 606.85296	\$0.07	\$0.10	D	E
MPS Single Family MPS Single Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing	10225.4 Ceiling R-19 to R-38 Insulation 10225.4 High Efficiency Windows, Low-e; U=0.35	8.4% \$	812.70 2,800.00	30 30	33.0% 16.9%	53.0% 85.0%		358.4745 745 1728.206 734		09.358 625.499919 178.2 1240.71948	\$0.09 \$0.15	\$0.12 \$0.21	E F	F
MPS Single Family	Heat Pump	Electric Stock	Existing		6.3% \$		10	90.0%	40.0%		347.8172 71		63.366 453.793336	\$0.16	\$0.21	F	F
MPS Single Family	Heat Pump	Electric Stock	Existing	10225.4 Floor R-11 to R-19 Insulation-Batts	1.5% \$		30	33.0%	54.5%		53.3805 699		8.8824 104.991906	\$0.27	\$0.40	F	F
MPS Single Family MPS Single Family	Lighting Bulbs Lighting Bulbs	Electric Stock Electric Stock	Existing Existing	2004 CFL, 6.0 hr/day 2004 CFL, 2.5 hr/day	21.3% \$ 39.3% \$		5 7	100.0% 100.0%	69.3% 89.0%	69.3% 4 89.0%			95.802 426.978638 00.733 787.004977	\$0.01 \$0.02	\$0.01 \$0.02	A A	A
MPS Single Family	Lighting Bulbs	Electric Stock	Existing	2004 CFL, 0.5 hr/day	4.4% \$	4.50	7	100.0%	93.8%	93.8% 8	88.56007	2004 8	3.0392 88.5600728	\$0.12	\$0.12	F	F
MPS Single Family MPS Single Family	Lighting Fixtures Lighting Fixtures	Electric Stock Electric Stock	Existing Existing	2004 CFL Fixtures, 6.0 hr/day 2004 CFL Fixtures, 2.5 hr/day	21.3% \$ 39.3% \$	23.33 23.33	8 10	100.0% 100.0%	69.3% 89.0%	69.3% 4 89.0%			95.802 426.978638 00.733 787.004977	\$0.02 \$0.05	\$0.02 \$0.05	A C	A C
MPS Single Family	Lighting Fixtures	Electric Stock	Existing		4.4% \$		10	100.0%	93.8%	93.8% 8			3.0392 88.5600728	\$0.24	\$0.03	F	F
MPS Single Family	Plug Load	Electric Stock Electric Stock	Existing	3500 Powerstrip with Occupancy Sensor	0.8% \$ 110.0% \$		20 7	100.0% 15.0%	100.0% 100.0%	100.0% 2			7.9429 27.9428511 43.054 953.694092	\$0.34 \$0.04	\$0.34 \$0.04	F B	F B
MPS Single Family MPS Single Family	Refrigerator Room Heat	Electric Stock	Existing Existing	866.995 Removal of Secondary Refrigerator (or rep of ineff unit) 14594.7 Ceiling R-0 to R-19 Insulation	24.3% \$	812.70	30	67.0%	53.0%				45.054 953.694092 258.56 3545.60933	\$0.04	\$0.04	A	A
MPS Single Family	Room Heat	Electric Stock	Existing	14594.7 Duct Insulation (R-3 to R-8)	9.0% \$	376.00	30	50.0%	21.6%	10.8% 1	314.987 133	36.189 1	30.012 1201.59064	\$0.03	\$0.03	Α	Α
MPS Single Family MPS Single Family	Room Heat Room Heat	Electric Stock Electric Stock	Existing Existing	14594.7 Floor R-0 to R-11 Insulation-Batts 14594.7 Ceiling R-19 to R-38 Insulation	7.9% \$ 8.4% \$		30 30	67.0% 33.0%	54.5% 53.0%				81.432 1044.60861 88.243 1076.70662	\$0.05 \$0.06	\$0.06 \$0.07	C D	C D
MPS Single Family	Room Heat	Electric Stock	Existing	14594.7 High Efficiency Windows, Low-e; U=0.35	16.9% \$	2,800.00	30	16.9%	85.0%	14.4% 2	2466.684 126	36.502 3	06.745 2135.71711	\$0.10	\$0.12	F	F
MPS Single Family	Room Heat	Electric Stock	Existing Existing	14594.7 Comprehensive Shell Air Sealing - Inf. Reduction	6.3% \$		10	90.0% 33.0%	40.0%		924.635 123		281.21 781.138852	\$0.11 \$0.19	\$0.13 \$0.23	F	F
MPS Single Family MPS Single Family	Room Heat Water Heat	Electric Stock Electric Stock		14594.7 Floor R-11 to R-19 Insulation-Batts 3447.75 Water Heater Tank Blanket/Insulation	1.5% \$ 10.0% \$		30 15	90.0%	54.5% 31.3%				2.5034 180.728208 7.1914 344.774902	\$0.19	\$0.23 \$0.01	A	A
MPS Single Family	Water Heat	Electric Stock	Existing	3447.75 Faucet Aerators	1.7% \$	4.82	15	90.0%	73.4%	66.1% 5	6.88786 335	0.5577 3	6.5207 55.2842015	\$0.01	\$0.01	Α	Α
MPS Single Family MPS Single Family	Water Heat Water Heat	Electric Stock Electric Stock		3447.75 Water Heater Thermostat Setback 3447.75 Hot Water Pipe Insulation	4.3% \$ 1.1% \$	15.00 5.80	15 15	50.0% 75.0%	78.0% 31.6%				5.0201 141.022848 13719 34.3232889	\$0.01 \$0.02	\$0.01 \$0.02	A A	A A
MPS Single Family	Water Heat	Electric Stock		3447.75 Energy Star Dish Washer (EF=0.58)	5.0% \$	70.00	13	100.0%	82.4%	82.4% 1	72.4771 325	0.8797 1	34.038 162.628551	\$0.02	\$0.02	C	C
MPS Single Family	Water Heat	Electric Stock	Existing	3447.75 Drain Water Heat Recovery (GFX)	24.6% \$		15	35.0%	100.0% 97.0%				268.36 766.742939 170.96 352 495446	\$0.08 \$0.08	\$0.09 \$0.10	E	E
MPS Single Family MPS Single Family	Water Heat Water Heat	Electric Stock Electric Stock	Existing Existing	3447.75 Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5) 3447.75 Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	12.4% \$ 15.0% \$		14 14	50.0% 50.0%	97.0% 79.0%		426.654 284 517.4314 267		170.96 352.495446 58.671 401.837092	\$0.08 \$0.09	\$0.10 \$0.11	E E	F
MPS Single Family	Water Heat	Electric Stock	Existing	3447.75 Heat Pump Water Heater (EF=2.9)	50.0% \$	1,750.00	15	40.0%	99.9%	40.0% 1	723.875 251	8.8495 5	03.266 1259.42475	\$0.13	\$0.17	F	F
MPS Single Family MPS Single Family	Water Heat Water Heat	Electric Stock Electric Stock		3447.75 Tankless Water Heater (EF=0.98) 3447.75 Low-Flow Showerheads		1,200.00 90.00	15 20	10.0% 100.0%	100.0% 100.0%				6.4041 264.041421 15.881 15.8809539	\$0.33 \$0.35	\$0.56 \$0.61	F	F
MPS Single Family MPS Single Family	Water Heat	Electric Stock	Existing	3447.75 Solar Water Heater	50.0% \$	5,500.00	15	10.0%	99.0%	9.9% 1	723.875 197	3.2983 9	7.6783 986.649134	\$0.40	\$0.69	F	F
SJD Multi Family	Central AC	Electric Stock	Existing	1144.18 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0% \$	100.00	12	80.0%	89.4%	71.5% 6	88.65094 114	4.1824 4	9.0772 68.6509424	\$0.21	\$0.21	F	F
SJD Multi Family SJD Multi Family	Central AC Central AC	Electric Stock Electric Stock		1144.18 Ceiling R-0 to R-19 Insulation 1144.18 Floor R-0 to R-11 Insulation-Batts	14.2% \$ 5.5% \$	447.20 240.84	30 30	67.0% 67.0%	59.8% 59.9%				2.3348 155.504937 2.7189 56.595816	\$0.25 \$0.35	\$0.27 \$0.39	F F	F F
SJD Multi Family	Central AC	Electric Stock	Existing	1144.18 High Efficiency Windows, Low-e; U=0.35	26.8% \$	1,370.00	30	75.0%	95.1%	71.3% 3	306.6409 101	0.0515 1	93.011 270.693791	\$0.41	\$0.47	F	F
SJD Multi Family SJD Multi Family	Central AC Central AC	Electric Stock Electric Stock	Existing	1144.18 Duct Insulation (R-3 to R-8) 1144.18 Comprehensive Shell Air Sealing - Inf. Reduction	6.8% \$ 14.4% \$		30 10	50.0% 90.0%	40.0% 20.0%	20.0%	77.8044 817	.04002	11.109 55.5587212 0.8897 116.054071	\$0.45 \$0.63	\$0.62 \$0.89	F	F
SJD Multi Family SJD Multi Family	Central AC Central AC	Electric Stock		1144.18 PTCS Duct Sealing &O&M	14.4% \$		20	90.0% 50.0%	36.0%				.47845 47.1024791	\$0.63	\$1.43	F	F
SJD Multi Family	Central AC	Electric Stock	Existing	1144.18 Ceiling R-19 to R-38 Insulation	2.2% \$	447.20	30	33.0%	59.8%	19.7% 2	25.17201 776	.56287 3	.37307 17.0843832	\$1.64	\$2.41	F	F
SJD Multi Family SJD Multi Family	Central Heat Central Heat	Electric Stock Electric Stock		7413.47 Wall 2x4 R-0 to Blow-In R-13 Insulation 7413.47 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	23.1% \$ 6.0% \$	435.00 100.00	30 12	50.0% 80.0%	59.9% 89.4%				13.017 1712.51139 295.98 414.027132	\$0.02 \$0.03	\$0.02 \$0.03	A B	A B
SJD Multi Family	Central Heat	Electric Stock	Existing	7413.47 Ceiling R-0 to R-19 Insulation	14.2% \$	447.20	30	67.0%	59.8%	40.1% 1	052.713 660	4.4725 3	75.935 937.835093	\$0.04	\$0.04	В	В
SJD Multi Family SJD Multi Family	Central Heat	Electric Stock		7413.47 Floor R-0 to R-11 Insulation-Batts	5.5% \$		30	67.0% 75.0%	59.9% 95.1%				37.016 341.323842 164.03 1632.52783	\$0.05	\$0.07 \$0.08	C D	D
SJD Multi Family SJD Multi Family	Central Heat Central Heat	Electric Stock Electric Stock		7413.47 High Efficiency Windows, Low-e; U=0.35 7413.47 Duct Insulation (R-3 to R-8)		1,370.00 376.00	30 30	75.0% 50.0%	95.1% 40.0%				164.03 1632.52783 6.9971 335.069224	\$0.06 \$0.07	\$0.08 \$0.10	D	E F
SJD Multi Family	Central Heat	Electric Stock		7413.47 ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4		3,645.00	18	10.0%	100.0%				82.027 2820.27434	\$0.10	\$0.15	Ē	F

MO Energy Efficiency Plan 2006-2010 Measure Information

Area Building Type	End-Use	Fuel Efficience	cy Vintage	EUI Measure Names	Energy F Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)	Stand Alone Savings Adjuste Base	d Stacked Stacked Savings Fu App	Stand-alone I Marginal Energy Cost		Stand Alone Cost Group	
SJD Multi Family SJD Multi Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing Existing		14.4%	\$ 650.00 \$ 3,220.00	10 18	90.0% 90.0%	20.0% 100.0%	18.0%	1067.54 4578.46 3591.826 4459.79	41 118.674 659.29882 03 1944.69 2160.7683		\$0.16 \$0.17		F
SJD Multi Family	Central Heat	Electric Stock	Existing	7413.47 PTCS Duct Sealing &O&M	6.0%	\$ 630.00	20	50.0%	36.0%	18.0%	444.8082 2515.09	87 27.1631 150.90592	3 \$0.15	\$0.45	F	F
SJD Multi Family SJD Multi Family	Central Heat Freezer	Electric Stock Electric Stock	Existing Existing	7413.47 Ceiling R-19 to R-38 Insulation 631.158 Removal of Secondary Freezer (or rep of ineff unit)	2.2% 1 110.0%		30 7	33.0% 15.0%	59.8% 100.0%			57 10.8066 54.734584 33 104.141 694.27415		\$0.75 \$0.06		F C
SJD Multi Family	Heat Pump	Electric Stock	Existing	4929.15 Wall 2x4 R-0 to Blow-In R-13 Insulation	23.1%	\$ 435.00	30	50.0%	59.9%	30.0%	1138.633 4929.1	47 341.1 1138.6329	5 \$0.04	\$0.04	В	В
SJD Multi Family SJD Multi Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing		14.2%		30 12	67.0% 80.0%	59.8% 89.4%			67 261.158 651.50263 91 185.592 259.61334		\$0.06 \$0.08	C D	D E
SJD Multi Family	Heat Pump	Electric Stock	Existing	4929.15 PTCS Duct Sealing &O&M	17.3%		20	50.0%	36.0%		851.2634 4141.29			\$0.09	Ē	Ē
SJD Multi Family SJD Multi Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing		5.5% 3 26.8%	\$ 240.84 \$ 1,370.00	30 30	67.0% 75.0%	59.9% 95.1%			04 88.2684 219.88830 92 749.896 1051.7102		\$0.10 \$0.12		F
SJD Multi Family	Heat Pump	Electric Stock	Existing	4929.15 Duct Insulation (R-3 to R-8)	6.8%		30 10	50.0% 90.0%	40.0% 20.0%		335.182 3174.39			\$0.16 \$0.23		F
SJD Multi Family SJD Multi Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing	4929.15 Comprehensive Shell Air Sealing - Inf. Reduction 4929.15 Ceiling R-19 to R-38 Insulation	2.2%		30	33.0%	59.8%		108.4412 3050.07	53 81.1616 450.8978 37 13.2483 67.101620		\$0.23	F	F
SJD Multi Family SJD Multi Family	Lighting Bulbs Lighting Bulbs	Electric Stock	Existing Existing	1088 CFL, 6.0 hr/day 1088 CFL, 2.5 hr/day	21.3% 3 39.3%		5 7	100.0% 100.0%	72.7% 86.2%		231.8128 10 427.2762 10	88 168.479 231.81275 88 368 282 427.27615		\$0.01 \$0.02	A A	A A
SJD Multi Family	Lighting Bulbs	Electric Stock	Existing	1088 CFL, 0.5 hr/day	4.4%	\$ 4.50	7	100.0%	96.5%	96.5%	48.08052 10	88 46.3967 48.080518	5 \$0.10	\$0.10	F	F
SJD Multi Family SJD Multi Family	Lighting Fixtures Lighting Fixtures	Electric Stock Electric Stock	Existing Existing	1088 CFL Fixtures, 6.0 hr/day 1088 CFL Fixtures, 2.5 hr/day	21.3% 3 39.3%		8 10	100.0% 100.0%	72.7% 86.2%		231.8128 10 427.2762 10			\$0.02 \$0.04	A B	A B
SJD Multi Family	Lighting Fixtures	Electric Stock	Existing	1088 CFL Fixtures, 0.5 hr/day	4.4%	23.33	10	100.0%	96.5%	96.5%	48.08052 10	88 46.3967 48.080518	\$0.21	\$0.21	Ē	F
SJD Multi Family SJD Multi Family	Plug Load Refrigerator	Electric Stock Electric Stock	Existing Existing	2000 Powerstrip with Occupancy Sensor 817.181 Removal of Secondary Refrigerator (or rep of ineff unit)	1.8% : 110.0% :		20 7	100.0% 15.0%	100.0% 100.0%		35.67371 20 898.8991 817.181	00 35.6737 35.673712 03 134.835 898.89913		\$0.27 \$0.05	C	F C
SJD Multi Family	Room Heat	Electric Stock	Existing Existing	7657.76 Ceiling R-0 to R-19 Insulation	14.2% 5.5%	\$ 447.20	30 30	67.0% 67.0%	59.8% 59.9%	40.1%	1087.402 7657.76	12 435.89 1087.4020		\$0.04 \$0.06		В
SJD Multi Family SJD Multi Family	Room Heat Room Heat	Electric Stock Electric Stock	Existing	7657.76 Floor R-0 to R-11 Insulation-Batts 7657.76 High Efficiency Windows, Low-e; U=0.35	26.8%		30	75.0%	95.1%			14 158.867 395.75855 45 1349.67 1892.8852		\$0.06		C D
SJD Multi Family SJD Multi Family	Room Heat Room Heat	Electric Stock Electric Stock	Existing Existing		6.8% 1 14.4%		30 10	50.0% 90.0%	40.0% 20.0%			33 77.6819 388.50644 82 146.076 811.53333		\$0.09 \$0.13	D E	E
SJD Multi Family	Room Heat	Electric Stock	Existing	7657.76 Ceiling R-19 to R-38 Insulation	2.2%	\$ 447.20	30	33.0%	59.8%	19.7%	168.4707 5489.57	22 23.8444 120.77058	8 \$0.24	\$0.34	F	F
SJD Multi Family SJD Multi Family	Water Heat Water Heat	Electric Stock Electric Stock	Existing Existing	3166.28 Water Heater Tank Blanket/Insulation 3166.28 Faucet Aerators	10.0%		15 15	90.0% 90.0%	53.1% 73.4%		316.6281 3166.2 61.42585 3014.95	81 151.322 316.62810 87 38.6386 58.490199		\$0.01 \$0.01	A A	A A
SJD Multi Family	Water Heat	Electric Stock	Existing	3166.28 Water Heater Thermostat Setback	4.3%	15.00	15	50.0%	83.7%	41.9%	134.7354 2976.32	01 53.0121 126.6519	2 \$0.01	\$0.01	Α	Â
SJD Multi Family SJD Multi Family	Water Heat Water Heat	Electric Stock Electric Stock	Existing Existing	3166.28 Hot Water Pipe Insulation 3166.28 Low-Flow Showerheads	1.2% 5 5.1%		15 10	75.0% 95.0%	62.6% 27.2%		39.21009 2923.30 161.797 2906.31	81 16.9886 36.201204 95 38.4322 148.51292		\$0.02 \$0.02		A A
SJD Multi Family	Water Heat	Electric Stock	Existing	3166.28 Energy Star Dish Washer (EF=0.58)	4.0%	70.00	13	100.0%	96.4%	96.4%	127.4328 2867.88	73 111.314 115.42340	4 \$0.07	\$0.08	D	Ê
SJD Multi Family SJD Multi Family	Water Heat Water Heat	Electric Stock Electric Stock	Existing Existing		24.7% 5 9.9% 5		15 14	25.0% 50.0%	100.0% 97.0%			73 170.218 680.8735 46 124.271 256.22794		\$0.10 \$0.14	E F	F F
SJD Multi Family	Water Heat	Electric Stock	Existing	3166.28 Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	12.1%		14	50.0%	91.8%			84 136.393 297.27331		\$0.15		F
SJD Multi Family SJD Multi Family	Water Heat Water Heat	Electric Stock Electric Stock	Existing Existing	3166.28 Heat Pump Water Heater (EF=2.9) 3166.28 Tankless Water Heater (EF=0.98)		\$ 1,750.00 \$ 1,200.00	15 15	40.0% 10.0%	99.9% 100.0%			06 464.673 1162.8452 76 24.3793 243.79330		\$0.19 \$0.61	F	F
SJD Multi Family SJD Single Family	Water Heat	Electric Stock	Existing Existing		50.0% 5 6.0%	\$ 5,500.00 \$ 100.00	15 12	10.0% 80.0%	99.0% 47.3%	9.9%	1583.141 1836.63	83 90.9136 918.31913 83 53.8084 142.22989	1 \$0.43	\$0.74 \$0.10		F
SJD Single Family	Central AC Central AC	Electric Stock Electric Stock	Existing	2370.5 Ceiling R-0 to R-19 Insulation	24.3%		30	67.0%	47.3% 53.0%			99 199.777 562.81048		\$0.10		F
SJD Single Family SJD Single Family	Central AC Central AC	Electric Stock Electric Stock	Existing Existing	2370.5 Duct Insulation (R-3 to R-8) 2370.5 HVAC Diagnostic Testing, Repair and Maintenance	9.0%		30 10	50.0% 100.0%	21.6% 48.4%			32 20.6374 190.73387 58 40.6091 83.851030		\$0.18 \$0.23	F	F
SJD Single Family	Central AC	Electric Stock	Existing	2370.5 Floor R-0 to R-11 Insulation-Batts	7.9%	625.26	30	67.0%	54.5%	36.5%	187.5064 2055.66	67 59.3735 162.60323	7 \$0.31	\$0.35	F	F
SJD Single Family SJD Single Family	Central AC Central AC	Electric Stock Electric Stock	Existing Existing	2370.5 Ceiling R-19 to R-38 Insulation 2370.5 PTCS Duct Sealing &O&M	8.4% ÷ 8.0% ÷		30 20	33.0% 50.0%	53.0% 72.0%			32 29.3018 167.59959 14 56.6494 157.35931		\$0.45 \$0.51	F F	F F
SJD Single Family	Central AC	Electric Stock	Existing	2370.5 High Efficiency Windows, Low-e; U=0.35	16.9%	\$ 2,800.00	30	16.9%	85.0%	14.4%	400.642 1910.3	42 46.3726 322.87021	9 \$0.64	\$0.80	Ē	E
SJD Single Family SJD Single Family	Central AC Central AC	Electric Stock Electric Stock	Existing Existing	2370.5 Comprehensive Shell Air Sealing - Inf. Reduction 2370.5 Floor R-11 to R-19 Insulation-Batts	6.3% 1 1.5% 1		10 30	90.0% 33.0%	40.0% 54.5%			94 42.5123 118.08983 71 4.91375 27.321856		\$0.88 \$1.54	F F	F F
SJD Single Family	Central Heat	Electric Stock	Existing	14693.7 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	\$ 100.00	12 30	80.0% 67.0%	47.3%			05 333.535 881.62230	5 \$0.02	\$0.02	Α	A
SJD Single Family SJD Single Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing Existing	14693.7 Ceiling R-0 to R-19 Insulation 14693.7 Duct Insulation (R-3 to R-8)	24.3% 9.0%		30	50.0%	53.0% 21.6%		3569.65 14360. 1323.903 13121.8	17 1238.33 3488.621 39 127.922 1182.2777		\$0.02 \$0.03		A A
SJD Single Family SJD Single Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing Existing	14693.7 Wall 2x4 R-0 to Blow-In R-13 Insulation 14693.7 HVAC Diagnostic Testing, Repair and Maintenance	17.6% \$		30 10	50.0% 100.0%	54.5% 48.4%	27.2%		17 624.239 2290.8275 78 239.625 494.78711		\$0.03 \$0.04		A B
SJD Single Family	Central Heat	Electric Stock	Existing	14693.7 ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	\$ 3,645.00	18	10.0%	100.0%	10.0%	8525.944 12130.0	52 703.84 7038.3984	4 \$0.05	\$0.04	Č	С
SJD Single Family SJD Single Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing Existing		7.9%	\$ 625.26 \$ 3.220.00	30 18	67.0% 90.0%	54.5% 100.0%			13 330.021 903.81342 91 4838.49 5376.1046		\$0.06 \$0.07	C	D D
SJD Single Family	Central Heat	Electric Stock	Existing	14693.7 Ceiling R-19 to R-38 Insulation	8.4%	812.70	30	33.0%	53.0%	17.5%	1233.616 6257.6	97 91.8512 525.3674	\$0.06	\$0.14	Ď	F
SJD Single Family SJD Single Family	Central Heat Central Heat	Electric Stock Electric Stock	Existing Existing	14693.7 PTCS Duct Sealing &O&M 14693.7 High Efficiency Windows, Low-e; U=0.35	8.0% : 16.9% :	\$ 750.00 \$ 2,800.00	20 30	50.0% 16.9%	72.0% 85.0%			58 177.576 493.26766 95 145.362 1012.0877		\$0.16 \$0.26		F
SJD Single Family	Central Heat	Electric Stock	Existing	14693.7 Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	650.00	10	90.0%	40.0%			72 133.262 370.17126		\$0.28	F	F
SJD Single Family SJD Single Family	Central Heat Freezer	Electric Stock Electric Stock	Existing Existing	14693.7 Floor R-11 to R-19 Insulation-Batts 643.037 Removal of Secondary Freezer (or rep of ineff unit)	1.5% 1 110.0%		30 7	33.0% 15.0%	54.5% 100.0%			55 15.4029 85.644682 41 106.101 707.34115		\$0.49 \$0.06	F C	F C
SJD Single Family SJD Single Family	Heat Pump	Electric Stock	Existing Existing	10225.4 Ceiling R-0 to R-19 Insulation 10225.4 PTCS Duct Sealing &O&M	24.3% 5 25.3% 5		30 20	67.0% 50.0%	53.0% 72.0%			64 881.771 2484.1227 93 851.578 2365.4932		\$0.03 \$0.03		В
SJD Single Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing	10225.4 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	150.00	12	80.0%	47.3%	37.8%	613.5218 8492.01	54 192.762 509.52092	\$0.03	\$0.04	В	B B
SJD Single Family SJD Single Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing	10225.4 Duct Insulation (R-3 to R-8) 10225.4 Wall 2x4 R-0 to Blow-In R-13 Insulation	9.0% 17.6%		30 30	50.0% 50.0%	21.6% 54.5%			35 80.9079 747.76273 55 394 816 1448 8943		\$0.05 \$0.05	B B	C C
SJD Single Family	Heat Pump	Electric Stock	Existing	10225.4 HVAC Diagnostic Testing, Repair and Maintenance	4.0%	123.00	10	100.0%	48.4%	48.4%	409.0146 7823.52	91 151.557 312.94116	3 \$0.05	\$0.06	С	D
SJD Single Family SJD Single Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing	10225.4 Floor R-0 to R-11 Insulation-Batts 10225.4 Ceiling R-19 to R-38 Insulation	7.9% : 8.4% :		30 30	67.0% 33.0%	54.5% 53.0%		808.8263 7671.97 858.4745 7450.38			\$0.10 \$0.12		E F
SJD Single Family	Heat Pump	Electric Stock	Existing	10225.4 High Efficiency Windows, Low-e; U=0.35	16.9%	\$ 2,800.00	30	16.9%	85.0%	14.4%	1728.206 7341.02	58 178.2 1240.7194	8 \$0.15	\$0.21	F	F
SJD Single Family SJD Single Family	Heat Pump Heat Pump	Electric Stock Electric Stock	Existing Existing	10225.4 Comprehensive Shell Air Sealing - Inf. Reduction 10225.4 Floor R-11 to R-19 Insulation-Batts	6.3% 1 1.5% 1		10 30	90.0% 33.0%	40.0% 54.5%		647.8172 7162.8 153.3805 6999.46	26 163.366 453.79333 04 18.8824 104.99190		\$0.23 \$0.40	F F	F
SJD Single Family SJD Single Family	Lighting Bulbs Lighting Bulbs	Electric Stock Electric Stock	Existing Existing	2004 CFL, 6.0 hr/day	21.3% 39.3%	\$ 4.50	5	100.0% 100.0%	69.3% 89.0%	69.3%	426.9786 20	04 295.802 426.97863 04 700.733 787.00497	8 \$0.01	\$0.01 \$0.02	A A	A
SJD Single Family	Lighting Bulbs	Electric Stock	Existing	2004 CFL, 0.5 hr/day	4.4%	4.50	7	100.0%	93.8%	93.8%	88.56007 20	04 83.0392 88.560072	3 \$0.12	\$0.02		F
SJD Single Family SJD Single Family	Lighting Fixtures Lighting Fixtures	Electric Stock Electric Stock	Existing Existing	2004 CFL Fixtures, 6.0 hr/day 2004 CFL Fixtures, 2.5 hr/day	21.3% 3 39.3%		8 10	100.0% 100.0%	69.3% 89.0%			04 295.802 426.97863 04 700.733 787.00497		\$0.02 \$0.05	A C	A C
SJD Single Family	Lighting Fixtures	Electric Stock	Existing	2004 CFL Fixtures, 0.5 hr/day	4.4%	\$ 23.33	10	100.0%	93.8%	93.8%	88.56007 20	04 83.0392 88.560072	8 \$0.24	\$0.24	F	F
SJD Single Family SJD Single Family	Plug Load Refrigerator	Electric Stock Electric Stock	Existing Existing		0.8%		20 7	100.0% 15.0%	100.0% 100.0%			00 27.9429 27.942851 63 143.054 953.69409		\$0.34 \$0.04		F B
SJD Single Family	Room Heat	Electric Stock	Existing	14594.7 Ceiling R-0 to R-19 Insulation	24.3%	812.70	30	67.0%	53.0%	35.5%	3545.609 14594.7	48 1258.56 3545.6093	3 \$0.02	\$0.02	Ā	Ā
SJD Single Family SJD Single Family	Room Heat Room Heat	Electric Stock Electric Stock	Existing Existing		9.0% 1 7.9% 1		30 30	50.0% 67.0%	21.6% 54.5%			89 130.012 1201.5906 77 381.432 1044.6086		\$0.03 \$0.06	A C	A C
SJD Single Family	Room Heat	Electric Stock	Existing	14594.7 Ceiling R-19 to R-38 Insulation	8.4%	\$ 812.70 \$ 2.800.00	30	33.0%	53.0%	17.5%	1225.308 12824.7	45 188.243 1076.7066	2 \$0.06	\$0.07	D	D F
SJD Single Family SJD Single Family	Room Heat Room Heat	Electric Stock Electric Stock	Existing Existing	14594.7 High Efficiency Windows, Low-e; U=0.35 14594.7 Comprehensive Shell Air Sealing - Inf. Reduction	16.9% 5 6.3% 5		30 10	16.9% 90.0%	85.0% 40.0%	36.0%	924.635 12329.7	02 306.745 2135.7171 57 281.21 781.13885	2 \$0.11	\$0.12 \$0.13		F
SJD Single Family	Room Heat Water Heat	Electric Stock Electric Stock	Existing Existing		1.5%		30 15	33.0% 90.0%	54.5% 31.3%	18.0%	218.9212 12048.5	47 32.5034 180.72820 49 97.1914 344.77490	3 \$0.19	\$0.23 \$0.01	F A	F A
SJD Single Family	Water Heat	Electric Stock	Existing	3447.75 Faucet Aerators	1.7%	4.82	15	90.0%	73.4%	66.1%	56.88786 3350.55	77 36.5207 55.284201	5 \$0.01	\$0.01	Α	Α
SJD Single Family SJD Single Family	Water Heat Water Heat	Electric Stock Electric Stock	Existing Existing	3447.75 Water Heater Thermostat Setback 3447.75 Hot Water Pipe Insulation	4.3% ÷		15 15	50.0% 75.0%	78.0% 31.6%			69 55.0201 141.02284 69 8.13719 34.323288		\$0.01 \$0.02	A A	A A
SJD Single Family	Water Heat	Electric Stock	Existing	3447.75 Energy Star Dish Washer (EF=0.58)	5.0%	70.00	13	100.0%	82.4%	82.4%	172.4771 3250.87	97 134.038 162.62855	1 \$0.05	\$0.06	С	С
SJD Single Family	Water Heat	Electric Stock	Existing	3447.75 Drain Water Heat Recovery (GFX)	24.6%	\$ 550.00	15	35.0%	100.0%	35.0%	848.1463 3116.84	12 268.36 766.74293	9 \$0.08	\$0.09	E	Е

MO Energy Efficiency Plan 2006-2010 Measure Information

Declarate Control Co	Area Building Type	End-Use	Fuel Efficience	y Vintage	EUI Measure Names	Energy F Savings	Full Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor * Incomp Factor)		sted Stack se Savin		Stand-alone Marginal Energy Cost		Stand Alone Cost Group	
Second Continue																		F
1. 1. 1. 1. 1. 1. 1. 1.	SJD Single Family	Water Heat	Electric Stock	Existing	3447.75 Heat Pump Water Heater (EF=2.9)	50.0% \$	1,750.00	15	40.0%	99.9%	40.0%	1723.875 2518	.8495 503.2	66 1259.42475	\$0.13	\$0.17		Ē
18																	F	F
West Control	SJD Single Family		Electric Stock	Existing	3447.75 Solar Water Heater	50.0% \$	5,500.00	15	10.0%	99.0%	9.9%	1723.875 1973	.2983 97.67	83 986.649134	\$0.40	\$0.69	F	F
March Control Contro	MPS Multi Family	Central AC	Electric Stock	New	1144.18 High Efficiency Windows, Low-e; U=0.35	1.3% \$	80.00	30	100.0%	95.0%	95.0%	14.87437 1095	.1052 13.52	45 14.2363674	\$0.50	\$0.52	F	F
March Control Contro																	F A	F A
March Command South Bods	MPS Multi Family	Central Heat	Electric Stock	New	7413.47 High Efficiency Windows, Low-e; U=0.35	1.3% \$	80.00	30	100.0%	95.0%	95.0%	96.3751 7095	.4848 87.62	92 92.2413022	\$0.08	\$0.08	E	Ë
March Control Contro																		F
March Marc					7413.47 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation												F	F
March Marc	MPS Multi Family	Heat Pump	Electric Stock	New	4929.15 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0% \$	66.00	12	80.0%	89.4%	71.5%	295.7488 492	9.147 211.4	25 295.748818	\$0.03	\$0.03		В
Mary																		F F
March Marc		Heat Pump			4929.15 Ceiling R-19 to R-38 Insulation			30	50.0%								F	F
Margin M								7										A A
Inc. Marin Company Depth Dep		5 . 5																F A
MFS Malf Fearly Fig. Calculate Section	MPS Multi Family	Lighting Fixtures	Electric Stock	New	1088 CFL Fixtures, 2.5 hr/day	39.3%	23.33	10	100.0%	86.2%	86.2%	427.2762	1088 368.2	82 427.276155	\$0.04	\$0.04	В	В
Mean																	F F	F F
Mart Farmary Water Heart Early Water Heart Water Heart Early Water Heart Early Water Heart Water Heart Early Water Heart Water Heart Early Water Heart Water	MPS Multi Family	Room Heat	Electric Stock	New	7657.76 High Efficiency Windows, Low-e; U=0.35	1.3% \$	80.00	30	100.0%	95.0%	95.0%	99.5509 7657	.7612 94.57	34 99.550896	\$0.07	\$0.07		D
Mode Supplement Process Stock Mode Stock Stock Mode Stock																		F A
More Facility Water Head Early Water Head																		C D
Mile Family Wide Feath Cartesia Color Name Cartesia Color Name Cartesia Color Name Cartesia Color Name Name Cartesia Color Name Name Cartesia Color Name	MPS Multi Family			New	3166.28 Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	10.7% \$	280.00	14	50.0%	97.0%					\$0.11	\$0.12	F	F
MPS Main Family Miller F																	F	F
MPS Single Family Central AC Exercise Dates New 2371.5 FERROY STRAF Programmate Thermotate (Exercise on Account)	MPS Multi Family	Water Heat	Electric Stock	New	3166.28 Tankless Water Heater (EF=0.98)	13.1% \$	903.00	15	10.0%	100.0%	10.0%	414.7828 1983	.6188 25.98	54 259.854068	\$0.27	\$0.43		Ē
MS Single Family Control AC Electic Stock New 2737 S. Sprift (Finestry Windows, Lines Lines Stock New 2737 S. Sprift (Finestry Windows, Lines Lines Stock New Lines Stoc																		F D
MRS Single Family Central Act Electic Stock New 2070 From First 10 % 19 for Adaptive Riconvery 6.0% 6.0% 1.0%				New	2370.5 Ceiling R-19 to R-38 Insulation	8.4% \$	812.70		50.0%	95.0%	47.5%	199.0161 2316	.6899 92.38	68 194.498626	\$0.38	\$0.39		F
MPS Single Family Control Heat Electic Sick New 1482/7 FMRS/07 SFAR or briefle Are Source Heat Pump, SEER-Field 48.9 h 5.2020.00 18 10.0 h 50.0 h 50					2370.5 Floor R-11 to R-19 Insulation-Batts				50.0%	95.0%								F
MPS Single Family Centrel Heat Electic Stock New Medical Stock Stock Medical Sto																		A C
MPS Supple Family Central Health Electric Stock New 14690 7 High Efficiency (windows, Lowe, LU-0.5 5.0	MPS Single Family	Central Heat	Electric Stock	New	14693.7 ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5% \$	3,220.00	18	90.0%	50.0%	45.0%	7119.1 1394	3.549 3040	.04 6755.64955	\$0.05	\$0.05	С	С
MPS Single Family Central Pleast Electic Sinck New 1460,7 York 22-6 R-19 Bott Incustation 2.9 h 3 3 50.0 h 50.0																		E E
MPS Supple Family Healt Pump Electric Stock New 10224 & EURERO'S TARP Programmable Themsotal (Electronic or Adaptive Recovery) 6.0% \$ 60.00 12 80.0% 47.7% 47.3% 37.8% 613.52116 10223.542 322.00 613.521625 30.00 50.0%	MPS Single Family	Central Heat	Electric Stock	New	14693.7 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation		318.00		50.0%	95.0%	47.5%	386.6705 1029	9.619 128.7	43 271.038424	\$0.08		E	F
MPS Single Family Heal Pump Electic Slock New 10225 4 High Efficiancy Windows, Lower, U-0-35 Electic Slock New 10225 4 High Efficiancy Windows, Lower, U-0-35 Electic Slock New 10225 4 High Efficiancy Windows, Lower, U-0-35 Slock S																	A	A
MPS Single Family Heat Pump Electric Slock New 102254 Wall 2xaf R-13 to 2x6 R-19 Batt Insulation 2.6 % \$3.15.00 50.0% 50.0% 50.0% 47.5% 269.0844 943.97 \rm 2; 17.50 50.25 F 18.75																		E E
MPS Single Family Heat Pump Heat Pump Lighting Bullos Electic Stock New 1225.4 Geothermal Heat Pump (4 Ton, w/ water heating) 51,9% \$ 15,000.00 18 25,0% 99.0% 24,8% \$510,655 \$255.588 118,164 \$4060.78557 50.01 50.01 A MPS Single Family Lighting Bullos Electic Stock New 2004 CFL, 55 Includy 21,3% \$ 2,33 38 10.00 10.00 69.5% 69.3% \$45,00 70.000	MPS Single Family	Heat Pump	Electric Stock	New	10225.4 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	318.00	30	50.0%	95.0%	47.5%	269.0844 943	9.782 117.9	95 248.411493	\$0.11	\$0.12	F	Ē
MPS Single Family Lighting Bubbs Electic Slock New 2004 CPL, 2.6 hindry 39.3% 45.0 7 100.0% 80.3% 69.3% 428.6786 20.4 295.802 426.978638 30.01 50.01 A MPS Single Family Lighting Bubbs Electic Slock New 2004 CPL, 2.5 hindry 20.02 A 20.																		F F
MPS Single Family Lighting Futures Electric Stock New 2004 CFF, 10 firding 21.3% \$ 2.33.3 10 10.00% 80.9% 80.8% 85.8007 2004 25.00.2 20.2					2004 CFL, 6.0 hr/day						69.3%	426.9786	2004 295.8					A
MPS Single Family Ughing Fixtures Electric Slock New 2004 CFL Fixtures, 2.5 In/riday 4.4% \$2.3.33 10 100.0% 88.0% 89.0% 787.005 2004 TO.733 787.004977 30.05 50.05 C. MPS Single Family Phyl Load Electric Slock New 3000 Powerstrip with Occupancy Sensor 4.4% \$2.3.33 10 100.0% 40.0% 13.0722 30.06 30.07 F. MPS Single Family Room Heat Electric Slock New 4.6504 T. Caling First 1.5 Electric Slock New 4.477.5 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.477.5 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75 Energy Slar Dish Washer (FE-0.58) 1.5 Electric Slock New 4.447.75	MPS Single Family	Lighting Bulbs	Electric Stock	New	2004 CFL, 0.5 hr/day	4.4% \$	4.50	7	100.0%	93.8%	93.8%	88.56007	2004 83.03	92 88.5600728	\$0.12	\$0.12	F	A F
MPS Single Family MPS																		A C
MPS Single Family Room Heat Electic Stock Electic Stock Electic Stock MPS Single Family Room Heat Electic Stock MPS Single Family Room Heat Electic Stock MPS Single Family Room Heat Electic Stock MPS Single Family Mater Heat Electic Stock MPS Sin	MPS Single Family	Lighting Fixtures	Electric Stock	New	2004 CFL Fixtures, 0.5 hr/day	4.4% \$	23.33	10	100.0%	93.8%	93.8%	88.56007	2004 83.03	92 88.5600728	\$0.24	\$0.24	F	F
MPS Single Family MPS Single Family MPS Single Family Mater Heat Electic Stock MPS Single Family MPS Singl																		F D
MPS Single Family Water Heat Electric Stock New 3447.75 Famy Star February Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single Family Water Heat Electric Stock New 3447.75 Energy Star Stock Single																		D F
MPS Single Family Water Heat Electric Stock New 3447.75 Individate Heat Recovery (GFX) 13.% \$280.00 14 \$5.0% \$9.0% \$47.59 \$47.59 \$0.08 \$0.06 \$0.																		Ā
MPS Single Family Water Heat Electric Stock New 3447.75 Engrosy Star CW (EF=2.5) 13.3% \$280.00 14 \$50.0% 95.0% \$47.5% 459.5014 2883.476 188.872 397.62504 \$50.08 \$0.09 E Electric Stock New 3447.75 Engrosy Star Vertical-Axios Clothes Washer: Ehergy Star Vertical-Axios Clothes Washer: SEHA CW Tier 2 (EF=3.25) 16.2% \$350.00 14 \$50.0% 95.0% \$95.0% \$57.2676 \$274.6014 17.36 451.698312 \$0.08 \$0.09 E \$1.25 \$																		C D
MPS Single Family Water Heat Electric Stock New 3447.75 Tankless Water Heater (EF=2.9) 50.0% 50.0% 50.0% 50.00 15 40.0% 99.9% 40.0% 1723.875 2616.2445 522.726 1308.12212 50.13 50.17 F	MPS Single Family	Water Heat	Electric Stock	New	3447.75 Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	13.3% \$	280.00	14	50.0%	95.0%	47.5%	459.5014 298	3.476 188.8	372 397.62504	\$0.08	\$0.09	E	E
MPS Single Family Water Heat Electric Stock New 3447.75 Solar Water Heater (EF=0.98) 34.47.75 Solar Water Heater (E F	E F
SUD Multi Family Central AC Electric Stock New 1144.18 High Efficiency Windows, Low-e; Lip-0.35 Substitution	MPS Single Family		Electric Stock		3447.75 Tankless Water Heater (EF=0.98)													F
SJD Multi Family Central Heat Electric Stock New 144.18 Celling R-19 to R-38 Insulation SJD Author SJD A	SJD Multi Family	Central AC	Electric Stock	New	1144.18 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	66.00	12	80.0%	89.4%	71.5%	68.65094 1144	.1824 49.07	72 68.6509424	\$0.14	\$0.14	F	F
SJD Multi Family Central Heat Electric Stock New 7413.47 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery) 6,0% 8 66.00 12 80.0% 80.4% 71.5% 44.48.082 7413.4692 31.7894 444.808154 \$0.02 \$0.02 \$0.08																		F
SJD Multi Family Central Heat Electric Slock New 7413.47 EMERGY STÁR or better Air Source Heat Pump, SEER=18; HSPF=9.4 58.0% \$3,845.00 18 10.0% 50.0% 50.0% 4301.626 7007.8555 203.314 4066.27091 \$0.10 50.10	SJD Multi Family	Central Heat	Electric Stock	New	7413.47 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	66.00	12	80.0%	89.4%	71.5%	444.8082 7413	.4692 317.9	84 444.808154	\$0.02	\$0.02	Α	A
SJD Multi Family Central Heat Electric Stock New 7413.47 Electric Stock New 7413.																		E F
SJD Multi Family Heat Pump Electric Stock New 741.34 T Celling R-19 to R-38 Insulation SJD Multi Family Heat Pump Electric Stock New 4929.15 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery) SJD Multi Family Heat Pump Heat Pump Heat Pump Electric Stock New 4929.15 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery) SJD Multi Family Heat Pump He	SJD Multi Family			A1	7413.47 ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5% \$	3,220.00								*****	00.00	F	F
SJD Multi Family Heat Pump Electric Stock New 4929.15 Waligh Efficiency Windows, Low-e; L=0.35 1.3% \$ 80.00 30 100.0% 95.0% 95.0% 64.07891 4717.7221 58.2639 61.3303888 \$0.12 \$0.12 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 1.4% \$ 189.00 30 50.0% 95.0% 47.5% 71.32097 4659.4582 32.039 67.4187758 \$0.26 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$F. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.34 \$0.41 \$P. SJD Multi Family Heat Pump Electric Stock New 4929.15 Celling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0%					7413.47 Ceiling R-19 to R-38 Insulation	2.2%	447.20	30	50.0%	95.0%	47.5%	163.0963 5284	.4112 55.22	21 116.257047	\$0.25	\$0.35		F
SJD Multi Family Heat Pump Electric Stock New 4929.15 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation 1.4% \$ 189.00 30 50.0% 95.0% 47.5% 71.32097 4659.4582 32.0239 67.4187758 \$0.24 \$0.26 F SJD Multi Family Heat Pump Electric Stock New 4929.15 Ceiling R-19 to R-38 Insulation 2.2% \$ 447.20 30 50.0% 95.0% 47.5% 108.4412 4627.4343 48.3567 101.803554 \$0.38 \$0.41 F	SJD Multi Family	Heat Pump	Electric Stock	New		6.0% \$	66.00	12	80.0%	89.4%	71.5%	295.7488 492	9.147 211.4	25 295.748818	\$0.03	\$0.03	В	B F
	SJD Multi Family	Heat Pump	Electric Stock	New	4929.15 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.4% \$	189.00	30	50.0%	95.0%	47.5%	71.32097 4659	.4582 32.02	39 67.4187758	\$0.24	\$0.26	F	F.
SJD Multi Family Lighting Bulbs Electric Stock New 1088 CFL, 6.0 hr/day 21.3% \$ 4.50 5 100.0% 72.7% 72.7% 231.8128 1088 168.479 231.812753 \$0.01 \$0.01 A	SJD Multi Family SJD Multi Family	Heat Pump Lighting Bulbs	Electric Stock Electric Stock	New New	4929.15 Ceiling R-19 to R-38 Insulation 1088 CFL, 6.0 hr/day	2.2% § 21.3% §		30 5	50.0% 100.0%	95.0% 72.7%						\$0.41 \$0.01	F A	F A
SJD Multi Family Lighting Bulbs Electric Stock New 1088 CFL, 2.5 hr/day 39.3% \$ 4.50 7 100.0% 86.2% 86.2% 427.2762 1088 368.282 427.276155 \$0.02 \$0.02 A	SJD Multi Family	Lighting Bulbs	Electric Stock	New	1088 CFL, 2.5 hr/day	39.3% \$	4.50	7	100.0%	86.2%	86.2%	427.2762	1088 368.2	82 427.276155	\$0.02	\$0.02	Α	Ä
SJD Multi Family Lighting Bulbs Electric Stock New 1088 CFL, 0.5 hr/day 4.4% \$ 4.50 7 100.0% 96.5% 96.5% 48.08052 1088 46.3967 48.0805186 \$0.10 \$0.10 F SJD Multi Family Lighting Fixtures Electric Stock New 1088 CFL Fixtures, 6.0 hr/day 21.3% \$ 23.33 8 100.0% 72.7% 72.7% 231.8128 1088 168.479 231.812753 \$0.02 \$0.02 A					1088 CFL Fixtures, 6.0 hr/day					72.7%								F A
SUD Multi Family Lighting Fixtures Electric Stock New 1088 CFL Fixtures, 2.5 hr/day 1088 CFL Fixtures, 0.5 hr/day 10		Lighting Fixtures			1088 CFL Fixtures, 2.5 hr/day				100.0%	86.2%						\$0.04	В	B F
SJD Multi Family Plug Load Electric Stock New 2000 Powerstrip with Occupancy Sensor 2.0% \$ 90.00 20 100.0% 100.0% 100.0% 39.63746 2000 39.63745 \$0.24 \$0.24 F	SJD Multi Family	Plug Load	Electric Stock	New	2000 Powerstrip with Occupancy Sensor	2.0%	90.00	20	100.0%	100.0%	100.0%	39.63746	2000 39.63	75 39.637458	\$0.24	\$0.24	F	F
SJD Multi Family Room Heat Electric Stock New 7657.76 High Efficiency Windows, Low-e; L=0.35 1.3% \$ 80.00 30 100.0% 95.0																		D F
SJD Multi Family Water Heat Electric Stock New 3166.28 Fauxer Aerators 1.9% \$ 4.82 15 90.0% 73.4% 66.1% 61.42585 3166.281 40.5779 61.4258515 \$0.01 \$0.01 A	SJD Multi Family	Water Heat	Electric Stock	New	3166.28 Faucet Aerators	1.9% \$	4.82	15	90.0%	73.4%	66.1%	61.42585 316	6.281 40.57	79 61.4258515	\$0.01	\$0.01	Α	A
SJD Multi Family Water Heat Electric Stock New 3166.28 Drain Water Heat Recovery (GFX) 28.7% \$ 400.00 15 25.0% 100.0% 25.0% 908.7226 3125.7031 224.269 897.076786 \$0.05 \$0.06 C SJD Multi Family Water Heat Electric Stock New 3166.28 Energy Star Dish Washer (EF=0.58) 4.3% \$ 70.00 13 100.0% 96.4% 96.4% 137.2745 2901.4339 121.314 125.792012 \$0.07 \$0.07 D																		C D

ea Building Type	End-Use	Fuel Efficienc	cy Vintage	EUI Measure Names	Energy F Savings	ull Per Unit Cost	Measure Life	Feasibility Factor	Incomplete Factor	Measure Applicability (Feas Factor *	Stand Alone	Adjusted Base	Stacked Savings	Stacked Savings Full	Stand-alone Marginal		Stand Alone Cost Group	
					Savings	Cost	LIIC	racioi	racioi	Incomp Factor)	Savings	Dase	Saviriys	App	Energy Cost	Cost	Cost Gloup	Group
Multi Family	Water Heat	Electric Stock		3166.28 Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	10.7%	280.00	14	50.0%	97.0%	48.5%	337.9064	2780.1201	143.897	296.695229	\$0.11	\$0.12	F	F
Multi Family	Water Heat	Electric Stock	New	3166.28 Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	13.0% \$	350.00	14	50.0%	91.8%	45.9%	411.8235	2636.2229	157.319	342.881271	\$0.11	\$0.13	F	F
Multi Family	Water Heat	Electric Stock	New	3166.28 Heat Pump Water Heater (EF=2.9)		1,750.00	15	40.0%	99.9%			2478.9038			\$0.14	\$0.17	F	F
D Multi Family	Water Heat	Electric Stock	New	3166.28 Tankless Water Heater (EF=0.98)	13.1%	903.00	15	10.0%	100.0%	10.0%	414.7828	1983.6188	25.9854	259.854068	\$0.27	\$0.43	F	F
Multi Family	Water Heat	Electric Stock	New	3166.28 Solar Water Heater		5,500.00	15	10.0%	99.0%					978.816715	\$0.43	\$0.70	F	F
 Single Family 	Central AC	Electric Stock	New	2370.5 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%		12	80.0%	47.3%			2370.4983			\$0.07	\$0.07	D	D
Single Family	Central AC	Electric Stock	New	2370.5 Ceiling R-19 to R-38 Insulation	8.4%		30	50.0%	95.0%			2316.6899			\$0.38	\$0.39	F	F
 Single Family 	Central AC	Electric Stock	New	2370.5 High Efficiency Windows, Low-e; U=0.35	1.7%		30	100.0%	95.0%					37.8131515	\$0.39	\$0.41	F	F
Single Family	Central AC	Electric Stock	New	2370.5 Floor R-11 to R-19 Insulation-Batts	1.5%		30	50.0%	95.0%					32.825708	\$1.18	\$1.28	F	F
Single Family	Central Heat	Electric Stock	New	14693.7 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%		12	80.0%	47.3%					881.622305	\$0.01	\$0.01	Α	Α
Single Family	Central Heat	Electric Stock	New	14693.7 ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4		3,645.00	18	10.0%	50.0%			14360.17		8332.4121	\$0.05	\$0.05	С	С
Single Family	Central Heat	Electric Stock	New	14693.7 ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5		3,220.00	18	90.0%	50.0%	45.0%				6755.64955	\$0.05	\$0.05	С	С
Single Family	Central Heat	Electric Stock	New	14693.7 Ceiling R-19 to R-38 Insulation		812.70	30	50.0%	95.0%			10903.507			\$0.06	\$0.08	D	E
Single Family	Central Heat	Electric Stock	New	14693.7 High Efficiency Windows, Low-e; U=0.35	1.7% \$		30	100.0%	95.0%	95.0%		10468.688			\$0.06	\$0.09	D	E
Single Family	Central Heat	Electric Stock	New	14693.7 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		30	50.0%	95.0%					271.038424	\$0.08	\$0.11	E	F
Single Family	Central Heat	Electric Stock	New	14693.7 Floor R-11 to R-19 Insulation-Batts	1.5%		30	50.0%	95.0%			10170.875			\$0.19	\$0.27	F	F
Single Family	Heat Pump	Electric Stock	New	10225.4 ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%		12	80.0%	47.3%			10225.364			\$0.02	\$0.02	A	Α
Single Family	Heat Pump	Electric Stock	New	10225.4 Ceiling R-19 to R-38 Insulation	8.4% 5		30	50.0%	95.0%			9993.2562			\$0.09	\$0.09	E	Е
Single Family	Heat Pump	Electric Stock	New	10225.4 High Efficiency Windows, Low-e; U=0.35	1.7% 5		30	100.0%	95.0%			9594.737			\$0.09	\$0.10	E	Е
Single Family	Heat Pump	Electric Stock	New	10225.4 Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%		30	50.0%	95.0%					248.411493	\$0.11	\$0.12	F	F
Single Family	Heat Pump	Electric Stock	New	10225.4 Floor R-11 to R-19 Insulation-Batts	1.5%		30	50.0%	95.0%					139.826798	\$0.27	\$0.30	F	F
Single Family	Heat Pump	Electric Stock	New	10225.4 Geothermal Heat Pump (4 Ton, w/ water heating)		15,000.00	18	25.0%	99.0%			9255.3688			\$0.32	\$0.35	F	F
Single Family	Lighting Bulbs	Electric Stock	New	2004 CFL, 6.0 hr/day	21.3%		5	100.0%	69.3%		426.9786			426.978638	\$0.01	\$0.01	A	Α
Single Family	Lighting Bulbs	Electric Stock	New	2004 CFL, 2.5 hr/day	39.3%		7	100.0%	89.0%		787.005			787.004977	\$0.02	\$0.02	A	Α
Single Family	Lighting Bulbs	Electric Stock	New	2004 CFL, 0.5 hr/day	4.4% 5		7	100.0%	93.8%		88.56007			88.5600728	\$0.12	\$0.12	F	F
Single Family	Lighting Fixtures	Electric Stock	New	2004 CFL Fixtures, 6.0 hr/day	21.3% 5		8	100.0%	69.3%		426.9786			426.978638	\$0.02	\$0.02	A	Α
Single Family	Lighting Fixtures	Electric Stock	New	2004 CFL Fixtures, 2.5 hr/day	39.3%		10	100.0%	89.0%		787.005			787.004977	\$0.05	\$0.05	С	С
Single Family	Lighting Fixtures	Electric Stock	New	2004 CFL Fixtures, 0.5 hr/day	4.4% \$		10	100.0%	93.8%		88.56007			88.5600728	\$0.24	\$0.24	F	F
Single Family	Plug Load	Electric Stock	New	3500 Powerstrip with Occupancy Sensor	0.4% \$		20	100.0%	100.0%		13.57224			13.5722419	\$0.71	\$0.71	F	F
Single Family	Room Heat	Electric Stock	New	14594.7 Ceiling R-19 to R-38 Insulation	8.4% 5		30	50.0%	95.0%			14594.748			\$0.06	\$0.06	D	D
Single Family	Room Heat	Electric Stock	New	14594.7 High Efficiency Windows, Low-e; U=0.35	1.7% 5		30	100.0%	95.0%					238.216355	\$0.06	\$0.07	D	D
Single Family	Room Heat	Electric Stock	New	14594.7 Floor R-11 to R-19 Insulation-Batts	1.5% 5		30	50.0%	95.0%			13786.421			\$0.19	\$0.20	F	F
Single Family	Water Heat	Electric Stock	New	3447.75 Faucet Aerators	1.7% 5		15	90.0%	73.4%					56.8878589	\$0.01	\$0.01	A	Α
Single Family	Water Heat	Electric Stock	New	3447.75 Energy Star Dish Washer (EF=0.58)	5.0% \$		13	100.0%	82.4%			3410.1689			\$0.05	\$0.06	С	С
Single Family	Water Heat	Electric Stock	New	3447.75 Drain Water Heat Recovery (GFX)	25.0%		15	35.0%	100.0%			3269.5627			\$0.06	\$0.06	С	D
Single Family	Water Heat	Electric Stock	New	3447.75 Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	13.3% \$		14	50.0%	95.0%			2983.476			\$0.08	\$0.09	E	E
Single Family	Water Heat	Electric Stock		3447.75 Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	16.2%		14	50.0%	79.0%			2794.6041		451.698312	\$0.08	\$0.10	E	E
Single Family	Water Heat	Electric Stock	New	3447.75 Heat Pump Water Heater (EF=2.9)		1,750.00	15	40.0%	99.9%					1308.12212	\$0.13	\$0.17	F	F
Single Family	Water Heat	Electric Stock	New	3447.75 Tankless Water Heater (EF=0.98)		903.00	15	10.0%	100.0%					274.250942	\$0.25	\$0.41	F	F
O Single Family	Water Heat	Electric Stock	New	3447.75 Solar Water Heater	50.0%	5,500.00	15	10.0%	99.0%	9.9%	1723.875	2066.0935	102.272	1033.04677	\$0.40	\$0.66	F	F

Schedule MED-3 Page 63 of 96 MO Energy Efficiency Plan 2006-2010 Measure Information

Appendix C. Industrial Top-Down Potential Results

	2003 Annual Consumption		
SIC	Business Category	MWh	%
20	Food/Kindred Products	68,490	5.1%
23	Apparel & other textile products	14,415	1.1%
24	Lumber/Wood Products	27,001	2.0%
26	Paper/Allied Products	90,653	6.8%
27	Printing/Publishing	137,355	10.3%
28	Chemical/Allied Products	32,204	2.4%
29	Petroleum Related	1,459	0.1%
30	Rubber/Misc. Plastics Products	96,474	7.2%
32	Stone/Clay/Glass/Concrete Prod.	70,215	5.3%
33	Primary Metal Industries	148,364	11.1%
34	Fabricated Metal Products	48,639	3.6%
35	Machinery, except Electrical	27,315	2.0%
36	Electric/Electronic Equip.	244,515	18.3%
37	Transporation Equipment	118,237	8.9%
38	Instruments/Related Products	12,973	1.0%
39	Miscellaneous	196,022	14.7%
	Total	1,334,334	

Source data: Aquila COMMEND

Industrial Technical Electric Conservation Potential by End-Use

					Achievable	50%		admin adder	10%			
	Electric End-Use	2003 Firm Consumption Total (MWh)	Measure Life (Years)	Savings as % Load	Savings as % End Use	Savings (MWh)	First Year MWa	Measure Cost \$/kWh Saved	Total Cost (\$)	Simple Payback @ \$0.05/kWh	Cumm. Savings (MWh)	Leveized CCE (\$/kWh)
Total Lo	oad	1,334,332	15.8	10.1%	N/A	67,442	15.4	\$0.216	\$29,137,550	4.3	2,130,583	0.024
Unco	ded/Miscoded/Invalid	-										
1	HVAC	189,339	15.0	1.6%	11.1%	20,923	2.4	\$0.450	\$9,415,232	9.0	313,841	0.051
2	Indirect Boiler	10,054										
3	Lighting	154,428	10.0	1.3%	11.5%	17,723	2.0	\$0.250	\$4,430,756	5.0	177,230	0.036
4	Other - Not Reported	117,139										
5	Process Electro Chemical	22,589										
6	Process Heat	177,393										
7	Process Other	8,581										
8	Motors	584,889	17.2	6.7%	15.2%	88,883	10.1	\$0.130	\$11,539,435	2.6	1,529,186	0.014
9	Refrigeration/Process Cooling	69,920	15.0	0.6%	10.5%	7,355	0.8	\$0.150	\$1,103,259	3.0	110,326	0.017
8.1	Motors		20.0	5.6%	12.8%	75,079	8.6	\$0.148	\$11,125,295	3.0	1,501,577	0.015
8.2	Compressed Air O&M	-	2.0	1.0%	2.4%	13,805	1.6	\$0.030	\$414,139	0.6	27,609	0.017

Industrial Electric Technical Conservation Potential by Sector

		2003 Firm				Measure			Simple		
		Consumption	Savings as of	Savings	First Year	Cost		Measure	Payback	Cummulative	Leveized CCE
Ele	ctric Market Segments	Total (MWh)	Sector Loads	(MWh)	MWa	\$/kWh Saved	Total Cost (\$)	Life (Years)	@ \$0.05/kWh	Savings (MWh)	(\$/kWh)
Total I	_oad	1,334,332	10.1%	134,884	15.4	\$0.216	\$29,137,550	15.8	4.3	2,130,583	0.024
Unc	oded/Miscoded/Invalid	-									
20	Food/Kindred Products	68,490	23.2%	15,896	1.8	\$0.165	\$2,618,606	17.1	3.3	272,108	0.017
23	Apparel & other textile products	14,413	6.6%	954	0.1	\$0.276	\$263,256	12.7	5.5	12,118	0.034
24	Lumber/Wood Products	27,001	13.3%	3,579	0.4	\$0.160	\$571,275	18.3	3.2	65,552	0.016
26	Paper/Allied Products	90,653	17.9%	16,214	1.9	\$0.168	\$2,727,362	18.8	3.4	304,651	0.017
27	Printing/Publishing	137,355	5.2%	7,185	0.8	\$0.279	\$2,003,736	14.2	5.6	101,872	0.033
28	Chemical/Allied Products	32,204	20.5%	6,617	0.8	\$0.143	\$947,836	16.8	2.9	111,006	0.015
29	Petroleum Related	1,459	23.4%	341	0.0	\$0.144	\$49,204	18.2	2.9	6,210	0.015
30	Rubber/Misc. Plastics Products	96,474	7.9%	7,646	0.9	\$0.180	\$1,376,039	15.2	3.6	116,439	0.020
32	Stone/Clay/Glass/Concrete Prod.	70,215	11.4%	7,975	0.9	\$0.140	\$1,115,933	14.3	2.8	114,299	0.016
33	Primary Metal Industries	148,364	15.4%	22,919	2.6	\$0.153	\$3,496,666	18.2	3.1	417,747	0.016
34	Fabricated Metal Products	48,639	6.2%	3,001	0.3	\$0.187	\$559,810	11.7	3.7	35,106	0.025
35	Machinery, except Electrical	27,315	10.2%	2,783	0.3	\$0.230	\$638,819	14.2	4.6	39,542	0.027
36	Electric/Electronic Equip.	244,515	10.5%	25,586	2.9	\$0.234	\$5,981,540	13.8	4.7	354,151	0.028
37	Transporation Equipment	118,237	7.3%	8,646	1.0	\$0.257	\$2,223,686	12.8	5.1	110,767	0.032
38	Instruments/Related Products	12,973	7.0%	912	0.1	\$0.293	\$267,020	13.5	5.9	12,329	0.035
39	Miscellaneous	196,022	2.9%	5,588	0.6	\$0.342	\$1,911,150	12.3	6.8	68,805	0.044

		Technical Potenti %							tial							
			End-Use Shares	Firm MWh	Load Breakdown	Life	Savings	Market Saturation	% Industrial Load	% End Use	MWh	First-YearCCE \$/kWh	Total Cost (\$)	@\$0.05/kWh		CCE (\$/kWh)
	Ac	ctual Forecast & Consumptior		1,334,334	1,334,334	15.77			10.2%		135,839	\$0.197	26,751,938	4.7	2,142,701	\$0.012
	Sı	kWh Forecast Ratio (Year/2003) um Total of Predicted Forecast & Consumptior		1,334,334	1,334,332											
			\$ 0.0418	1,004,004	2											
20	Food/Kindred Product	s hvac	8.1%		5,556											
		Indirect Boiler	1.7%		1,170											
		Lighting	7.4%		5,061											
		Other - Not Reported	8.5%		5,819											
		Process Electro Chemical	0.2%		136											
		Process Heat Process Other	4.9% 0.3%		3,345 176											
		Process Cool	25.0%		17,145											
		Process Motors	43.9%		30,081											
	((Process Motors & Cooling Breakout)	69.0%		47,226											
		Fan System Pump System	5.2%		3,559											
		Pump System Air Comp. Sys.	11.3% 5.3%		7,769 3,621											
		Other Systems (Mostly Refer)	47.1%		32,278											
	To	otal Consumption (MWh)	100.0%	68,490	68,490											
	Co	onservation Technical Potential														
		HVAC				15	15.0%	25.0%	0.9%	11.3%	625.1	\$0.45	\$281,280	10.8	9,376	\$0.030
		Lighting				10			1.8% 13.7%	24.4%	1,232.8 9,379.8	\$0.25	\$308,205	6.0	12,328 187,596	\$0.025 \$0.007
for		Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade				20 20			6.3%	19.9% 9.1%	9,379.8 4,311.5	\$0.15 \$0.15	\$1,395,609 \$646,718	3.6 3.6	187,596 86,229	\$0.007
ies		Rewind Improvements				20			0.8%	1.2%	548.6	\$0.15	\$82.291	3.6	10.972	\$0.008
tunit to he F		Motor Downsizing				20			1.6%	2.3%	1,102.7	\$0.15	\$165,404	3.6	22,054	\$0.008
Por MC in t		Pump System Improvements				20			3.5%	30.5%	2,367.7	\$0.15	\$355,155	3.6	47,354	\$0.008
Op stria		Fan System Improvements				20			0.4%	8.4%	299.3	\$0.15	\$44,895	3.6	5,986	\$0.008
From Opportunities for Industrial Motor Systems in the Pacific		Air Compressor Improvements			1.3%	20			0.6%	10.5%	378.7	\$0.12	\$45,450	2.9	7,575	\$0.006
πΞO		Other System Improvements Refrigeration/Process Cooling Technical Potential			6.6%	20 15	30.0%	20.0%	0.5% 6.0%	1.2% 24.0%	371.3 4.114.8	\$0.15 \$0.15	\$55,697 \$617.218	3.6 3.6	7,426 61.722	\$0.008 \$0.010
			Use 15% of th	e total end use	as savable	2	30.076	20.076	0.8%	15.0%	543.1	\$0.03	\$16,294	0.7	1,086	\$0.015
	To	otal Conservation Technical Potential				17.1			23.2%	N/A	15,896		2,618,606		272,108	\$0.010
24	Lumban/Maad Buadus	-														
24	Lumber/Wood Product	HVAC	6.6%		1,777											
		Indirect Boiler	1.4%		367											
		Lighting	9.0%		2,429											
		Other - Not Reported Process Electro Chemical	13.5%		3,637											
		Process Electro Chemical Process Heat	0.0% 3.8%		12 1,036											
		Process Other	0.1%		39											
		Process Cool	0.9%		238											
		Process Motors (Process Motors & Cooling Breakout)	64.7% 65.6%		17,467 17,704											
	(Fan System	8.0%		2,150											
		Pump System	3.5%		933											
		Air Comp. Sys.	5.4%		1,467											
	_	Other Systems	48.7%	07.004	13,154											
		otal Consumption (MWh) onservation Technical Potential	100.0%	27,001	27,001											
	CC	HVAC				15	15.0%	25.0%	0.7%	11.3%	199.9	\$0.45	\$89,973		2,999	\$0.030
		Lighting				10	10.070	20.070	0.4%	4.2%	101.3	\$0.25	\$25,314		1,013	\$0.025
	From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Easton Consultants	Motors Technical Potential w/o Compr. Air O&M				20			11.3%	17.2%	3,047.9		\$447,961		60,957	\$0.007
	is fo	Motor Efficiency Upgrade				20			2.6%	4.0%	706.4	\$0.15	\$105,953		14,127	\$0.008
	or or 999 ston	Rewind Improvements				20			1.1%	1.7%	301.3	\$0.15	\$45,200		6,027	\$0.008
	ortu Moto - 15 Ea:	Motor Downsizing Pump System Improvements				20 20			2.0% 1.5%	3.1% 42.4%	546.2 395.6	\$0.15 \$0.15	\$81,936 \$59,335		10,925 7,911	\$0.008 \$0.008
	Oppi ial I ns ir rest ry & 'tant	Fan System Improvements				20			0.9%	42.4% 11.4%	395.6 244.9	\$0.15 \$0.15	\$59,335 \$36,735		7,911 4,898	\$0.008
	om (lustr sten sten rthw rerg nsul	Air Compressor Improvements			2.0%	20			1.1%	20.9%	307.3	\$0.12	\$36,873		6,146	\$0.006
	F E & S & S	Other System Improvements			2.1%	20			2.0%	4.2%	546.2	\$0.15	\$81,928		10,924	\$0.008
						15	5.0%	20.0%	0.0%	4.0%	9.5		\$1,425		143	\$0.010
	_	Compressed Air O&M Technical Potential				2			0.8%	15.0%	220.1	\$0.03	\$6,602		440	\$0.015
	10	otal Conservation Technical Potential				18.3			27.2%	N/A	3,578.6		571,275		65,552	\$0.009

	Technical Potential							ial							
		End-Use		Load	Measure	% Savings	Market	% Industrial		Savings Potential	First-YearCCE		Simple Payback	Cumm. Savings	
		Shares	Firm MWh	Breakdown	Life		Saturation	Load	% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh		CCE (\$/kWh)
26	Paper/Allied Products 1 HVAC	9.4%		8,482											
	1 HVAC 2 Indirect Boiler	1.4%		8,482 1,299											
	3 Lighting	8.8%		7,993											
	4 Other - Not Reported	5.9%		5,373											
	5 Process Electro Chemical	0.4%		336											
	6 Process Heat 7 Process Other	6.4% 0.3%		5,765 273											
	9 Process Cool	3.2%		2,900											
	8 Process Motors	64.2%		58,233											
	(Process Motors & Cooling Breakout)	67.4%		61,133											
	Fan System	13.3%		12,081											
	Pump System Air Comp. Sys.	21.2% 3.1%		19,218 2,783											
	Other Systems (Mostly Refer)	29.8%		27,052											
	Total Consumption (MWh)	100.0%	90,653	90,653											
	Conservation Technical Potential														
	HVAC				15	15.0%	25.0%	1.1%	11.3%	954.2	\$0.45	\$429,397		14,313	\$0.030
	Lighting				10			0.7%	8.5%	676.3	\$0.25	\$169,069		6,763	\$0.025
	Motors Technical Potential w/o Compr. Air O&M				20			15.5%	23.0%	14,050.0		\$2,098,973		281,000	\$0.007
	Motor Efficiency Upgrade Rewind Improvements				20 20			5.3% 0.9%	7.9% 1.3%	4,801.0 791.4	\$0.15 \$0.15	\$720,151 \$118,711		96,020 15,828	\$0.008 \$0.008
	Motor Downsizing				20			0.9%	1.3%	773.3	\$0.15	\$115,991		15,465	\$0.008
	Pump System Improvements				20			6.3%	29.8%	5,726.6	\$0.15	\$858,986		114,532	\$0.008
	Motors Technical Potential wio Compr. Air O&M Motor Efficiency Upgrade Motor Efficiency Upgrade Motor Downsizing Motor Downsizing Pump System Improvements Air Compressor Improvements Air Compressor Improvements Other System Improvements Other System Improvements				20			1.1%	8.2%	989.0	\$0.15	\$148,354		19,781	\$0.008
	Air Compressor Improvements				20			0.3%	10.2%	284.3	\$0.12	\$34,111		5,685	\$0.006
	นั้ธัดใช้ ซึ่ง Other System Improvements				20	E 00/	00.00/	0.8%	2.5%	684.5	\$0.15	\$102,669		13,689	\$0.008
	Refrigeration/Process Cooling Technical Potential Compressed Air O&M Technical Potential				15 2	5.0%	20.0%	0.1% 0.5%	4.0% 15.0%	116.0 417.4	\$0.15 \$0.03	\$17,402 \$12,522		1,740 835	\$0.010 \$0.015
	Total Conservation Technical Potential				18.8			17.9%	N/A	16,213.9	\$0.03	2,727,362		304,651	\$0.019
										,		-,,		,	******
27	Printing/Publishing														
	1 HVAC	19.8%		27,236											
	2 Indirect Boiler 3 Lighting	0.4% 12.6%		544 17,303											
	4 Other - Not Reported	14.9%		20,441											
	5 Process Electro Chemical	0.3%		402											
	6 Process Heat	2.7%		3,650											
	7 Process Other 9 Process Cool	0.2% 4.1%		221 5,613											
	8 Process Motors	45.1%		61,945											
	(Process Motors & Cooling Breakout)	49.2%		67,558											
	Fan System	7.9%		10,801											
	Pump System	0.7%		948											
	Air Comp. Sys.	3.6%		4,951											
	Other Systems (Mostly Refer) Total Consumption (MWh)	37.0% 100.0%	137,355	50,857 137,355											
	Conservation Technical Potential	700.070	707,000	707,000											
	HVAC				15	15.0%	25.0%	2.2%	11.3%	3,064.1	\$0.45	\$1,378,829		45,961	\$0.030
	Lighting				10			0.7%	5.6%	976.6	\$0.25	\$244,149		9,766	\$0.025
	Motors Technical Potential w/o Compr. Air O&M				20			1.3%	2.6%	1,727.8	\$0.15	\$257,446		34,557	\$0.007
	Motor Efficiency Upgrade														
	Rewind Improvements Motor Downsizing														
	Pump System Improvements														
	Fan System Improvements														
	Air Compressor Improvements														
	Other System Improvements														
	Refrigeration/Process Cooling Technical Potential				15	15.0%	20.0%	0.5%	12.0%	673.5		\$101,030		10,103	\$0.010
	Compressed Air O&M Technical Potential Total Conservation Technical Potential				2 14.2			0.5% 5.2%	15.0% N/A	742.7 7,184.7	\$0.03	\$22,281 2,003,736		1,485 101,872	\$0.015 \$0.020
	i otai oonsa Yalion Teenineai Polenda				14.2			3.2%	IV/A	1,104./		2,003,730		101,672	ψυ.υΖυ
28	Chemical/Allied Products														
	1 HVAC	6.0%		1,925											
	2 Indirect Boiler 3 Lighting	2.6% 4.0%		842 1,302											
	4 Other - Not Reported	3.8%		1,211											
	·														

	Technical Poter													
	End-Use		Load	Measure	% Savings		% Industrial		Savings Potential	First-YearCCE		Simple Payback	Cumm. Savings	
	Shares	Firm MWh	Breakdown			Saturation	Load	% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh		CCE (\$/kWh)
5 Process Electro Chemical	4.4%		1,402											
6 Process Heat 7 Process Other	6.3% 1.1%		2,039 366											
9 Process Cool	6.9%		2,237											
8 Process Motors	64.8%		20,880											
(Process Motors & Cooling Breakout)	71.8%		23,117											
Fan System	8.5%		2,744											
Pump System	18.7%		6,020											
Air Comp. Sys. Other Systems (Mostly Refer)	19.9% 24.7%		6,399 7,955											
Total Consumption (MWh)	100.0%	32,204	32,204											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	0.7%	11.3%	216.6	\$0.45	\$97,476		3,249	\$0.030
Lighting				10			0.8%	19.4%	252.5	\$0.25	\$63,121		2,525	\$0.025
Motors Technical Potential w/o Compr. Air O&M				20			15.8%	22.1%	5,098.5	\$0.15	\$745,020		101,970	\$0.007
Motor Efficiency Upgrade S S S S S S S S S S S S S S S S S S S				20 20			5.1% 0.9%	7.1% 1.3%	1,648.5 295.0	\$0.15 \$0.15	\$247,282 \$44,249		32,971 5,900	\$0.008 \$0.008
19 9 9 9 Motor Downsizing				20			1.0%	1.4%	332.7	\$0.15	\$49,901		6,653	\$0.008
Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements Motor Downsizing Motor Downsizing Pump System Improvements Fan System Improvements Air Compressor Improvements Other System Improvements Other System Improvements				20			5.6%	29.8%	1,792.2	\$0.15	\$268,826		35,844	\$0.008
Fan System Improvements				20			0.7%	8.3%	226.7	\$0.15	\$34,008		4,534	\$0.008
Air Compressor Improvements				20			2.0%	10.3%	658.4	\$0.12	\$79,012		13,169	\$0.006
正 Š の ž × o Other System Improvements				20			0.5%	1.8%	145.0	\$0.15	\$21,743		2,899	\$0.008
Refrigeration/Process Cooling Technical Potential Compressed Air O&M Technical Potential				15 2	5.0%	20.0%	0.3% 3.0%	4.0% 15.0%	89.5 959.8	\$0.15 \$0.03	\$13,424 \$28,795		1,342 1,920	\$0.010 \$0.015
Total Conservation Technical Potential				16.8			20.5%	N/A	6,616.9	\$0.03	947,836		111,006	\$0.015
Total Sonservation reclinical rotential				70.0			20.070	N/A	0,010.5		347,030		777,000	ψ0.003
29 Petroleum Related														
1 HVAC 2 Indirect Boiler	2.7% 1.6%		39 24											
3 Lighting	2.7%		40											
4 Other - Not Reported	4.4%		65											
5 Process Electro Chemical	0.1%		1											
6 Process Heat 7 Process Other	2.2% 0.2%		32 3											
9 Process Cool	5.4%		3 78											
8 Process Motors	80.7%		1,178											
(Process Motors & Cooling Breakout)	86.1%		1,256											
Fan System	8.2%		119											
Pump System	50.8% 13.1%		741 192											
Air Comp. Sys. Other Systems (Mostly Refer)	13.1%		192											
Total Consumption (MWh)	100.0%	1,459	1,459											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	0.3%	11.3%	4.4	\$0.45	\$1,982		66	\$0.030
Lighting				10			0.3%	12.7%	5.1	\$0.25	\$1,266		51	\$0.025
Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade				20			20.5%	23.8%	299.4 80.9	\$0.15 \$0.15	\$44,621 \$12,130		5,988 1,617	\$0.007 \$0.008
Rewind Improvements				20			0.9%	1.0%	12.8	\$0.15	\$1,922		256	\$0.008
Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements Motor Downsizing Motor Downsizing Motor Downsizing Fan System Improvements Fan System Improvements Air Compressor Improvements Other System Improvements Other System Improvements				20			0.9%	1.0%	12.8	\$0.15	\$1,922		256	\$0.008
Pump System Improvements				20			11.9%	23.4%	173.6	\$0.15	\$26,033		3,471	\$0.008
G in the second of the second				20			0.5%	6.6%	7.9	\$0.15	\$1,184		158	\$0.008
Air Compressor Improvements				20			0.7%	5.0%	9.7	\$0.12	\$1,162		194	\$0.006
止らのさざら Other System Improvements Refrigeration/Process Cooling Technical Potential				20 15	5.0%	20.0%	0.1% 0.2%	0.9% 4.0%	1.8 3.1	\$0.15 \$0.15	\$269 \$471		36 47	\$0.008 \$0.010
Compressed Air O&M Technical Potential				2	0.070	20.070	2.0%	15.0%	28.8	\$0.03	\$863		58	\$0.015
Total Conservation Technical Potential				18.2			23.4%	N/A	340.8		49,204		6,210	\$0.008
20 Bubbay/Mine Blooties Brady														
30 Rubber/Misc. Plastics Products 1 HVAC	8.2%		7,938											
2 Indirect Boiler	0.5%		477											
3 Lighting	7.3%		7,055											
4 Other - Not Reported 5 Process Electro Chemical	7.3% 0.3%		7,037 243											
6 Process Electro Chemical	18.1%		243 17,451											
7 Process Other	0.5%		515											
9 Process Cool 8 Process Motors	7.3% 50.5%		7,052 48,705											
o Flucess Multils	30.3%		40,705											

							To	echnical Potent	tial						
		End-Use		Load	Measure	% Savings	Market	% Industrial		Savings Potential	First-YearCCE		Simple Payback	Cumm. Savings	
		Shares 57.8%	Firm MWh	Breakdown 55.757			Saturation	Load	% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh	(MWh)	CCE (\$/kWh)
	(Process Motors & Cooling Breakout) Fan System	57.8% 3.3%		55,757 3,140											
	Pump System	14.5%		14,028											
	Air Comp. Sys.	7.5%		7,260											
	Other Systems (Mostly Refer) Total Consumption (MWh)	32.5% 100.0%	96.474	31,330 96,474											
	Conservation Technical Potential	100.0%	90,474	90,474											
	HVAC				15	15.0%	25.0%		11.3%	893.1	\$0.45	\$401,883		13,396	\$0.030
	Lighting				10			1.0%	13.6%	959.9	\$0.25	\$239,980		9,599	
	Motors Technical Potential w/o Compr. Air O&M				20			4.3%	7.4%	4,140.1	\$0.15	\$616,880		82,803	\$0.007
	Motor Efficiency Upgrade Rewind Improvements														
	Motor Downsizing														
	Pump System Improvements														
	Fan System Improvements														
	Air Compressor Improvements Other System Improvements														
	Refrigeration/Process Cooling Technical Potential				15	10.0%	20.0%	0.6%	8.0%	564.2	\$0.15	\$84,627		8,463	\$0.010
	Compressed Air O&M Technical Potential				2			1.1%	15.0%	1,089.0		\$32,669		2,178	\$0.015
	Total Conservation Technical Potential				15.2			7.9%	N/A	7,646.3		1,376,039		116,439	\$0.012
32	Stone/Clay/Glass/Concrete Prod.														
	1 HVAC	3.2%		2,270											
	2 Indirect Boiler 3 Lighting	0.4% 3.9%		264 2,710											
	4 Other - Not Reported	5.3%		3,732											
	5 Process Electro Chemical	0.1%		78											
	6 Process Heat 7 Process Other	13.5% 0.0%		9,479 12											
	9 Process Cool	1.1%		789											
	8 Process Motors	72.5%		50,881											
	(Process Motors & Cooling Breakout) Fan System	73.6% 18.9%		51,669 13,249											
	Pump System	3.0%		2,074											
	Air Comp. Sys.	18.7%		13,104											
	Other Systems (Mostly Refer) Total Consumption (MWh)	33.1% 100.0%	70,215	23,243 70,215											
	Conservation Technical Potential	100.070	70,210	70,270											
	HVAC				15	15.0%	25.0%	0.4%	11.3%	255.4	\$0.45	\$114,924		3,831	
	Lighting Motors Technical Potential w/o Compr. Air O&M			9.8%	10 20			1.2% 7.0%	30.9% 9.5%	838.4 4,884.0	\$0.25 \$0.15	\$209,593 \$727,717		8,384 97,680	
	Motor Efficiency Upgrade			9.8%	20			7.0%	9.5%	4,884.0	\$0.15	\$121,111		97,080	\$0.007
	Rewind Improvements														
	Motor Downsizing														
	Pump System Improvements														
	Fan System Improvements Air Compressor Improvements														
	Other System Improvements														
	Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.0%	4.0%	31.5		\$4,732		473	
	Compressed Air O&M Technical Potential Total Conservation Technical Potential				2 14.3			2.8% 11.4%	15.0% N/A	1,965.5 7,974.9	\$0.03	\$58,966 1,115,933		3,931 114,299	
	rotal Conservation recrimical Potential				14.3			11.476	N/A	7,974.9		1,115,933		114,299	\$0.010
33	Primary Metal Industries			0.0/-											
	1 HVAC 2 Indirect Boile	4.2% 0.5%		6,246 730											
	3 Lighting	5.2%		7,783											
	4 Other - Not Reported	3.9%		5,739											
	5 Process Electro Chemical 6 Process Heat	2.7% 35.1%		4,039 52,017											
	7 Process Other	0.9%		1,344											
	9 Process Cool 8 Process Motors	1.5% 46.0%		2,285 68,182											
	6 Process Motors (Process Motors & Cooling Breakout)	46.0% 47.5%		70,467											
	Fan System	7.3%		10,757											
	Pump System	4.1%		6,127											
	Air Comp. Sys.	6.8%		10,104											

						T	echnical Potent	tial						
	End-Use		Load	Measure	% Savings	Market	% Industrial		Savings Potential	First-YearCCE		Simple Payback	Cumm. Savings	
	Shares	Firm MWh	Breakdown	Life		Saturation		% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh		CCE (\$/kWh)
Other Systems (Mostly Refer) Total Consumption (MWh)	29.3% 100.0%	148,364	43,478 148,364											
Conservation Technical Potential HVAC				4.5	45.00/	05.00/	0.50/	44.00/	700 7	00.45	****		10.510	***
Lighting				15 10	15.0%	25.0%	0.5% 0.6%	11.3% 12.0%	702.7 937.7	\$0.45 \$0.25	\$316,210 \$234,416		10,540 9,377	\$0.030 \$0.025
Motors Technical Potential w/o Compr. Air O&M				20			13.3%	27.9%	19,671.4	\$0.15	\$2,886,860		393,427	\$0.007
Motors Technical Potential Wio Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements Motor Downsizing Pump System Improvements Fan System Improvements Air Compressor Improvements Air Compressor Improvements				20 20			6.0% 0.9%	12.7% 1.8%	8,934.5 1,293.7	\$0.15 \$0.15	\$1,340,176 \$194,061		178,690 25,875	\$0.008 \$0.008
20 20 20 20 20 20 20 20 20 20 20 20 20 2				20			1.1%	2.3%	1,645.4	\$0.15	\$246,804		32,907	\$0.008
Pump System Improvements				20			1.7%	42.2%	2,586.0	\$0.15	\$387,899		51,720	
Fan System Improvements Air Compressor Improvements				20 20			0.9%	12.0% 21.1%	1,293.7 2.128.2	\$0.15 \$0.12	\$194,061 \$255,379		25,875 42,563	*******
E 2 0) Z X O Other dystem improvements				20			1.2%	4.1%	1,789.9	\$0.15	\$268,479		35,797	\$0.008
Refrigeration/Process Cooling Technical Potential Compressed Air O&M Technical Potential				15 2	5.0%	20.0%	0.1% 1.0%	4.0% 15.0%	91.4 1,515.7	\$0.15 \$0.03	\$13,710 \$45,470		1,371 3,031	\$0.010 \$0.015
Total Conservation Technical Potential				18.2			15.4%	N/A	22,918.8	\$0.03	3,496,666		417,747	\$0.015
34 Fabricated Metal Products														
1 HVAC	10.1%		4,915											
2 Indirect Boiler 3 Lighting	1.1% 11.0%		536 5,340											
4 Other - Not Reported	8.5%		4,115											
5 Process Electro Chemical 6 Process Heat	4.5% 12.5%		2,192 6,102											
7 Process Other	0.8%		393											
9 Process Cool 8 Process Motors	2.2% 49.3%		1,067 23,979											
(Process Motors & Cooling Breakout)	51.5%		25,045											
Fan System	4.3%		2,098											
Pump System Air Comp. Svs.	6.4% 12.5%		3,099 6.099											
Other Systems (Mostly Refer)	28.3%		13,749											
Total Consumption (MWh) Conservation Technical Potential	100.0%	48,639	48,639											
HVAC				15	15.0%	25.0%	1.1%	11.3%	553.0	\$0.45	\$248,842		8,295	\$0.030
Lighting				10			1.1%	10.2%	545.7	\$0.25	\$136,433		5,457	\$0.025
Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade				20			1.9%	3.8%	944.2	\$0.15	\$140,688		18,884	\$0.007
Rewind Improvements														
Motor Downsizing														
Pump System Improvements Fan System Improvements														
Air Compressor Improvements														
Other System Improvements Refrigeration/Process Cooling Technical Potential				45	5.0%	20.0%	0.1%	4.0%	42.7	\$0.15	#C 200		640	\$0.010
Compressed Air O&M Technical Potential				15 2	5.0%	20.0%	1.9%	15.0%	914.9	\$0.15	\$6,399 \$27,447		1,830	
Total Conservation Technical Potential				11.7			6.2%	N/A	3,000.5		559,810		35,106	\$0.016
35 Machinery, except Electrical														
1 HVAC 2 Indirect Boiler	19.4% 0.6%		5,312 156											
3 Lighting	14.9%		4,076											
4 Other - Not Reported	11.4%		3,127											
5 Process Electro Chemical 6 Process Heat	0.3% 8.3%		92 2,277											
7 Process Other	0.8%		215											
9 Process Cool 8 Process Motors	3.3% 40.8%		901 11,158											
(Process Motors & Cooling Breakout)	44.1%		12,059											
Fan System Pump System	3.1% 5.8%		843 1,583											
Pump System Air Comp. Sys.	7.0%		1,916											
Other Systems (Mostly Refer)	28.3%		7,718											
Total Consumption (MWh) Conservation Technical Potential	100.0%	27,315	27,315											
HVAC				15	15.0%	25.0%	2.2%	11.3%	597.6	\$0.45	\$268,907		8,964	\$0.030

						Te	echnical Potent	ial						
	End-Use		Load	Measure	% Savings	Market	% Industrial		Savings Potential	First-YearCCE		Simple Payback	Cumm. Savings	
I induiting	Shares	Firm MWh	Breakdown	Life		Saturation	Load	% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh	(MWh)	CCE (\$/kWh)
Lighting Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements Motor Downsizing Pump System Improvements Fan System Improvements Air Compressor Improvements				10 20			2.8% 4.0%	19.1% 9.0%	777.1 1,084.6	\$0.25 \$0.15	\$194,278 \$161,605		7,771 21,692	\$0.025 \$0.007
Other System Improvements Refrigeration/Process Cooling Technical Potential Compressed Air O&M Technical Potential Total Conservation Technical Potential				15 2 14.2	5.0%	20.0%	0.1% 1.1% 10.2%	4.0% 15.0% <i>N/A</i>	36.0 287.4 2,782.8		\$5,407 \$8,623 638,819		541 575 39,542	\$0.010 \$0.015 \$0.016
36 Electric/Electronic Equip. 1 HVAC 2 Indirect Boiles 3 Lighting 4 Other - Not Reported 5 Process Electro Chemical 6 Process Heat 7 Process Other 9 Process Other 9 Process Motors (Process Motors (Process Motors (Process Motors & Cooling Breakout) Fan System Pump System Air Comp. Sys. Other Systems (Mostly Refer) Total Consumption (MWN) Conservation Technical Potential	21.9% 0.6% 13.3% 7.9% 4.0% 0.8% 5.8% 0.9% 29.2% 34.9% 0.9% 20.4% 7.9% 5.7%	244,515	53,551 1,575 32,535 19,212 9,893 40,448 1,877 14,089 71,335 8,424 2,160 48,875 19,402 13,987 244,515											
HVAC Lighting Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements Motor Downszing Pump System Improvements Fan System Improvements Air Compressor Improvements Other System Improvements				15 10 20	15.0%	25.0%	2.5% 2.8% 3.5%	11.3% 21.3% 10.0%	6,024.5 6,941.8 8,582.0	\$0.25 \$0.15	\$2,711,005 \$1,735,446 \$1,278,713		90,367 69,418 171,639	\$0.007
Refrigeration/Process Cooling Technical Potential Compressed Air O&M Technical Potential Total Conservation Technical Potential				15 2 13.8	10.0%	20.0%	0.5% 1.2% 10.5%	8.0% 15.0% <i>N/A</i>	1,127.1 2,910.4 25,585.7	\$0.15 \$0.03	\$169,066 \$87,311 5,981,540		16,907 5,821 354,151	\$0.010 \$0.015 \$0.017
Transporation Equipment 1 HVAC 2 Indirect Boilet 3 Lighting 4 Other - Not Reported 5 Process Electro Chemical 6 Process Heat 7 Process Other 9 Process Cool 8 Process Motors (Process Motors (Process Motors (Process Motors & Cooling Breakout) Fan System Pump System Air Comp. Sys. Other Systems (Mostly Refer) Total Consumption (MWN) Conservation Technical Potential	20.6% 0.4% 20.6% 9.2% 1.6% 8.8% 1.8% 33.1% 36.9% 6.9% 6.9% 15.1%	118,237	24,299 496 24,377 10,894 1,886 10,451 2,169 4,516 39,148 43,664 9,475 8,156 17,882 118,237											
HVAC Lighting Motors Technical Potential w/o Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements				15 10 20	15.0%	25.0%	2.3% 2.2% 1.7%	11.3% 10.5% 4.5%	2,733.7 2,555.1 1,952.7	\$0.45 \$0.25 \$0.15	\$1,230,159 \$638,774 \$290,955		41,005 25,551 39,054	\$0.030 \$0.025 \$0.007

						т	echnical Poten	tial						
	End-Use		Load	Measure	% Savings	Market	% Industrial		Savings Potential	First-YearCCE		Simple Payback	Cumm. Savings	
E 5 9 6 W Motor Downsizing	Shares	Firm MWh	Breakdown	Life	Potential	Saturation	Load	% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh	(MWh)	CCE (\$/kWh)
Pump System Improvements							-							
O Compressor Improvements Air Compressor Improvements														
වි සිටි ම ට Other System Improvements Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.2%	4.0%	180.6	\$0.15	\$27,097		2,710	\$0.010
Compressed Air O&M Technical Potential				2	3.076	20.076	1.0%	15.0%	1,223.4	\$0.03	\$36,701		2,447	\$0.015
Total Conservation Technical Potential				12.8			7.3%	N/A	8,645.5		2,223,686		110,767	\$0.020
38 Instruments/Related Products 1 HVAC	26.9%		3,492											
2 Indirect Boiler	2.2% 19.1%		290 2,473											
3 Lighting 4 Other - Not Reported	7.4%		961											
5 Process Electro Chemical 6 Process Heat	0.8% 6.6%		104 862											
7 Process Other 9 Process Cool	1.6% 7.6%		202 986											
8 Process Motors	27.8%		3,604											
(Process Motors & Coolling Breakout) Fan System	35.4% 7.0%		4,589 913											
Pump System Air Comp. Sys.	3.2% 3.9%		420 510											
Other Systems (Mostly Refer)	21.2%		2,746											
Total Consumption (MWh) Conservation Technical Potential	100.0%	12,973	12,973											
HVAC Lighting				15 10	15.0%	25.0%	0.03 1.7%	11.3% 8.8%	392.9 217.2	\$0.45 \$0.25	\$176,788 \$54,294		5,893 2,172	
				20			1.1%	3.2%	146.4	\$0.15	\$21,817		2,928	
Motors Technical Potential wio Compr. Air O&M Motors Technical Potential wio Compr. Air O&M Motor Efficiency Upgrade Rewind Improvements Motor Downsizing Pump System Improvements Air Compressor Improvements Air Compressor Improvements Other System Improvements Other System Improvements														
Motor Downsizing SE Mater Improvements Motor Downsizing Pump System Improvements														
odo O Tamp Oystem Improvements Fan System Improvements														
Air Compressor Improvements Air Compressor Improvements Other System Improvements														
Refrigeration/Process Cooling Technical Potential Compressed Air O&M Technical Potential				15 2	10.0%	20.0%	0.6% 0.6%	8.0% 15.0%	78.8 76.5	\$0.15 \$0.03	\$11,827 \$2,295		1,183 153	
Total Conservation Technical Potential				13.5			7.0%	N/A	911.8	\$0.03	267,020		12,329	
39 Miscellaneous														
1 HVAC 2 Indirect Boiler	16.8% 0.6%		32,940 1,195											
3 Lighting 4 Other - Not Reported	16.1% 12.2%		31,498 24,011											
5 Process Electro Chemical	0.8%		1,652											
6 Process Heat 7 Process Other	11.2% 0.3%		22,007 562											
9 Process Cool 8 Process Motors	5.0% 36.9%		9,808 72,348											
(Process Motors & Cooling Breakout)	41.9%		82,156											
Fan System Pump System	5.7% 10.4%		11,240 20,372											
Air Comp. Sys. Other Systems (Mostly Refer)	6.6% 19.2%		12,999 37.544											
Total Consumption (MWh)	100.0%	196,022	196,022											
Conservation Technical Potential HVAC				15	15.0%	25.0%	0.02	11.3%	3,705.7	\$0.45	\$1,667,577		55,586	\$0.030
Lighting Motors Technical Potential w/o Compr. Air O&M			0.6%	10 20			0.4% 0.0%	2.2% 0.1%	705.7 70.0	\$0.25 \$0.15	\$176,419 \$10,430		7,057 1,400	
Motor Efficiency Upgrade			0.570	20			0.070	5.170	. 3.0	40.10	ψ.0,400		1,400	Ψ0.007
S Rewind Improvements 100 666 L 101 Rewind Improvements 101 666 L 101 Motor Downsizing			-											
Motor Efficiency Upgrade Motor Efficiency Upgrade Motor Efficiency Upgrade Rewind Improvements Motor Downsizing Motor Downsizing Motor Downsizing Pump System Improvements Fan System Improvements														
C the state of the														

					0/	т	echnical Poten	tial	Carriana			CiI-		
	End-Use		Load	Measure	% Savings	Market	% Industrial		Savings Potential F	First-YearCCE		Simple Payback	Cumm. Savings	
	Shares	Firm MWh	Breakdown	Life		Saturation	Load	% End Use	MWh	\$/kWh	Total Cost (\$)	@\$0.05/kWh		CCE (\$/kWh)
ビビスタン Other System Improvements										********		G+	(,	(+,
Refrigeration/Process Cooling Technical Potential				15	2.5%	20.0%	0.1%	2.0%	196.2	\$0.15	\$29,424		2,942	\$0.010
Compressed Air O&M Technical Potential				2			0.5%	7.0%	910.0	\$0.03	\$27,299		1,820	\$0.015
Total Conservation Technical Potential				12.3			2.9%	N/A	5,587.5		1,911,150		68,805	\$0.028
23 Apparel & other textile products														
1 HVAC	23.3%		3,359											
2 Indirect Boiler	0.6%		88											
3 Lighting	17.0%		2,451											
4 Other - Not Reported	12.2%		1,766											
5 Process Electro Chemical	0.8%		122											
6 Process Heat	3.0%		432											
7 Process Other	1.5%		214											
9 Process Cool	1.5%		216											
8 Process Motors	40.0%		5,766											
(Process Motors & Cooling Breakout)	41.9%		6,041											
Fan System	5.7%		827											
Pump System	10.4%		1,498											
Air Comp. Sys.	6.6%		956											
Other Systems (Mostly Refer)	19.2%		2,761											
Total Consumption (MWh)	100.0%	14,415	14,413											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	0.03	11.3%	377.8	\$0.45	\$170,031		5,668	\$0.030
Lighting				10			1.7%	9.8%	241.3	\$0.25	\$60,319		2,413	\$0.025
Motors Technical Potential w/o Compr. Air O&M				20			1.2%	2.9%	174.6	\$0.15	\$26,010		3,491	\$0.007
Motor Efficiency Upgrade														
Rewind Improvements														
Motor Downsizing														
Pump System Improvements														
Fan System Improvements														
Air Compressor Improvements														
Other System Improvements														
Refrigeration/Process Cooling Technical Potential				15	10.0%	20.0%	0.1%	8.0%	17.3	\$0.15	\$2,595		259	\$0.010
Compressed Air O&M Technical Potential				2			1.0%	15.0%	143.4	\$0.03	\$4,302		287	\$0.015
Total Conservation Technical Potential				12.7			6.6%	N/A	954.4		263,256		12,118	\$0.022

TERMS

Motor Efficiency Upgrade - The savings potential of moving from pre-EPAct motor efficiencies to EPAct levels and from EPAct to CEE levels.

Improved Rewind Practices - The savings from better processing of the repair/rewind process such as closer control of the burnout stage of processing.

Correct Motor Sizing - The savings from selection of motors to operate in the range of 65% to 95% rated capacity to take advantage of the operating efficiencies range.

Pump System Efficiency Improvements- The savings from ASD control of the driving motor and/or the improved design of the system through such improvements as better pumps, more efficient piping, and eliminating unnecessary flows.

Fan System Efficiency Improvements - The savings from ASD control of the motor drive and/or the improved design of the system through such improvements as better fans and blowers, ducting, and flow design.

Compressed Air Efficiency Improvements- The savings from such improvements as better control of compressed air drives and/or the improvement in air delivery systems through surge tanks, leakage correction, and better components.

Other Special System - Other equipment savings have also been estimated.

Appendix D. Demand Response Potential Results



	Aggregate "	Gross" Po	tential		
Sector/Segment	Max of Average	Summer Off	Summer On	Winter Off	Winter On
Industrial Sector	173,501	160,402	173,501	145,383	159,313
Commercial: Education	37,160	13,599	37,160	6,568	30,857
Commercial: Food Stores	63,305	17,711	63,305	13,502	50,273
Commercial: Hospitals	83,553	49,503	83,553	51,607	71,380
Commercial: Hotels/Motels	13,634	9,297	13,634	9,293	10,911
Commercial: Misc	39,487	8,779	39,487	9,456	32,727
Commercial: Offices	92,561	27,469	92,561	22,067	66,451
Commercial: Restaurants	27,779	7,217	27,779	8,281	26,837
Commercial: Retail	59,195	12,996	59,195	16,215	48,172
Commercial: Warehouses	17,361	5,248	17,361	4,627	15,147
Residential	499,119	207,989	499,119	182,929	286,304

Sull of Elia-Oses		520,212	1,100,055	409,921	190,312
Sum of Max Average Hourly	1,427,111	955,369	1,427,111	794,947	990,215
Class Peaks (Max of Averages)					
Industrial	173,501			145,383	159,313
Commercial	434,035			141,615	352,755
Residential	499,119			182,929	286,304

Total

MAX

		Summer	Summer	Winter	Winter
		Off	On	Off	On
	INDU	165,575	178,850	155,352	162,946
Commercial: Education	EDUC	38,720	40,262	15,636	33,398
Commercial: Food Stores	GROC	57,200	65,621	53,922	57,164
Commercial: Hospitals	HEAL	70,085	88,200	62,099	74,595
Commercial: Hotels/Motels	LODG	13,978	15,330	11,425	13,501
Commercial: Misc	MISC	25,712	28,479	27,723	30,475
Commercial: Offices	SOFF	50,312	63,652	45,788	51,853
Commercial: Restaurants	REST	86,285	103,035	31,528	75,741
Commercial: Retail	ARET	32,894	41,695	31,615	36,724
Commercial: Warehouses	WARE	16,275	17,760	15,593	16,483
	RESD	398,333	784,227	344,265	437,335

		Hea	ting			Cooli	ng			Water H	eating		
	Summer	Summer	Winter	Winter	Summer	Summer	Winter	Winter	Summer	Summer	Winter	Winter	Summer
Sector/Segment	Off	On	Off	On	08-10	17-21	08-10	17-21	08-10	17-21	08-10	17-21	08-10
ndustrial Sector	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial: Education	8	30	625	2,595	2,271	8,820	205	2,004	370	692	333	795	6,795
Commercial: Food Stores	10	-	134	183	642	7,732	13	1,336	59	832	33	811	3,524
Commercial: Hospitals	5	0	1,849	2,301	6,327	20,833	141	2,525	572	1,240	669	1,292	25,946
Commercial: Hotels/Motels	1	0	1,894	1,548	2,606	6,111	92	675	285	126	158	232	4,474
Commercial: Misc	-	-	887	853	1,834	9,464	103	2,250	280	3,926	159	3,847	3,051
Commercial: Offices	-	13	3,329	3,459	8,350	41,206	-	8,716	341	1,849	-	2,096	12,084
Commercial: Restaurants	0	-	688	872	582	2,017	175	844	127	1,778	72	1,734	1,899
Commercial: Retail	_	-	4,345	4,176	3,678	18,984	207	4,514	114	1,599	65	1,566	7,017
Commercial: Warehouses	42	-	590	802	107	1,294	2	224	13	192	8	187	1,349
Residential	_	_	45,179	36,350	49,750	234,261	346	14,594	16,460	21,214	13,321	28,037	32,569

^{**} All data are derived using Aquila sales by sector, COMMEND estimates of use by building type and ForecastPro estimates of use by end-use and end-use load shapes

Light	ing			Oth	er			Plug L	_oad			Ventil	ation	
Summer	Winter	Winter	Summer	Summer	Winter	Winter	Summer	Summer	Winter	Winter	Summer	Summer	Winter	Winter
17-21	08-10	17-21	08-10	17-21	08-10	17-21	08-10	17-21	08-10	17-21	08-10	17-21	08-10	17-21
-	-	-	160,402	173,501	145,383	159,313	-	-	-	-	-	-	-	-
15,554	3,416	14,669	1,099	3,208	410	2,311	1,513	4,332	778	3,937	1,544	4,526	800	4,546
16,091	2,535	14,171	3,544	3,972	2,591	2,904	8,531	32,883	6,756	29,078	1,402	1,795	1,439	1,790
41,408	24,431	39,224	59	-	8,260	6,460	5,858	9,335	5,520	8,842	10,737	10,737	10,737	10,737
4,370	3,891	4,361	9	-	1,318	1,069	755	1,937	561	1,756	1,167	1,090	1,379	1,270
14,088	2,183	12,402	-	-	3,131	2,228	1,675	6,701	1,312	5,914	1,939	5,308	1,681	5,234
35,038	7,401	33,257	-	-	5,721	4,650	4,172	7,845	3,173	7,710	2,522	6,610	2,442	6,563
8,606	1,377	7,578	12	-	2,067	2,063	3,615	13,998	2,858	12,376	982	1,380	1,046	1,370
32,405	5,021	28,526	-	-	4,698	3,342	176	705	138	622	2,011	5,503	1,742	5,426
6,161	971	5,426	1,061	1,190	776	870	1,981	7,637	1,569	6,753	693	887	711	885
49,703	28,252	48,866	12,916	45,047	12,121	12,533	96,293	148,894	83,709	145,925	_	_	_	_

	-	Class 1: I	Firm: [Direct	Load C	ontrol		Participation	LOAD	EVENT
Technical Load Impact	_	0%	50%	25%	0%	0%	0%		25%	100%
				%	% Achieν	/able				
Sector/Segment	% Eligible Load	Heat	Cool	HW	Light	Other	Plug Load	Ventilatio n	Technical Potential kW	Achievable Potential kW
Industrial	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Education	50%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Food Stores	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Hospitals	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Hotels/Motels	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Misc	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Offices	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Restaurants	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Retail	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Warehouses	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Residential	100%	0%	39%	8%	0%	0%	0%	0%	93,605	23,401

RES Satura

78% 32%

^{*} PSE August 2003 IRP Update- assumes DLC only available for Residential end uses of water heating and space heating

^{**} PGE Load Control Pilots: Space Heating 28% reduction in evening, 31% reduction in morning. Fuel shares included in estimate of gross savings.

^{***} Dynamic Pricing: Residential A/C Pricing Programs save between 25-35%. We assume that DLC program in commercial sectors will save at least same amount as pricing program.

^{**} PGE Load Control Pilots: Water Heating 21% reduction in morning. Fuel shares included in estimate of gross savings.

^{**} PSE Home comfort Control Thermostat Study shows 54% DLC benefit for space heating

^{**} Duke Power Program shows drop of 0.5kw on base of 3.57 for water heating, 14% (PSE Aug. 2003)

^{**} Lighting savings from Xenergy Enhanced automation peak savings 0-20%

	Class 2: Fir	m: Cu	rtailm	ent Conti	acts		Participation	LOAD	EVENT
	25%	5%	25%	25%	0%	0%		25%	90%
			%	Achieva	ble				
% Eligible Load: kW>250	Heat	Cool	нw	Light	Other	Plug Load	Ventilati on	Technical Potential kW	Achievable Potential kW
80%	20%	4%	20%	20%	0%	0%	0%	-	-
50%	13%	3%	13%	13%	0%	0%	0%	2,588	582
70%	18%	4%	18%	18%	0%	0%	0%	3,264	734
0%	0%	0%	0%	0%	0%	0%	0%	-	-
12%	3%	1%	3%	3%	0%	0%	0%	231	52
0%	0%	0%	0%	0%	0%	0%	0%	_	-
50%	13%	3%	13%	13%	0%	0%	0%	6,104	1,373
0%	0%	0%	0%	0%	0%	0%	0%	-	-
0%	0%	0%	0%	0%	0%	0%	0%	_	-
40%	10%	2%	10%	10%	0%	0%	0%	741	167
0%	0%	0%	0%	0%	0%	0%	0%	-	_

Commercial: Food Stores Commercial: Hospitals Commercial: Hotels/Motels Commercial: Misc Commercial: Offices Commercial: Restaurants Commercial: Retail Commercial: Warehouses

Commercial: Education

Residential

Industrial

Optimal start saves 5-10%, Variable capacity control saves 5-15% of total building energy, Demand-responsive ventilation saves 2-7% of total building energy use, thermal storage saves 2%-10% of total building. Case studies in this

Class 3: I	Non-Firm: Two-Part (TOU) Tariffs	Participation	LOAD	EVENT
	3% 6%		35%	100%
	% Achievable			
% Eligible Load	TOU Affects all End Uses, Therefore Impacts are at Aggregatte Level Only	Overall Tech %	Technical Potential kW	Achievable Potential kW
100%		3.00%	5,205	1,822
100%		3.00%	1,195	418
0%		0.00%	-	-
0%		0.00%	-	-
0%		0.00%	-	-
0%		0.00%	-	-
100%		3.00%	3,059	1,071
0%		0.00%	-	-
0%		0.00%	-	-
0%		0.00%	-	-
100%		6.00%	33,067	11,574

Industrial

Residential

Commercial: Education
Commercial: Food Stores
Commercial: Hospitals
Commercial: Hotels/Motels
Commercial: Misc
Commercial: Offices
Commercial: Restaurants
Commercial: Retail
Commercial: Warehouses

^{*} Assumes that all sectors are available for TOU, if under 30 kW (based on elibility requirements filed by utilities with OPUC)

^{**} Net is calculated as product of portion of sector load that is under 30kw and 20%

^{** 20%} savings for C&I: NWPPC Issues: Georgia Power C&I load of 5,000 MW saved a max of 1,000MW, but they expect 500MW (Dynamic Pricing). Duke Power program saves 200MW of 1,000 MW load at hourly prices above \$0.25

^{**} Gulf Power reduction of 2.37 kW cper customer on Critical Peak Pricing program (50%): PSE August 2003

^{**} PSE TOU Evaluation for Residential

Class 4: N	lon-Firm	: DBB					Participation	LOAD	EVENT
	25%	25%	25%	25%	0%	0%		100%	30%
			% /	Achieva	ble				
% Eligible Load: kW>250	Heat	Cool	HW	Light	Other	Plug Load	Ventilati on	Technical Potential kW	Achievable Potential kW
80%	20%	20%	20%	20%	0%	0%	0%	-	-
50%	13%	13%	13%	13%	0%	0%	0%	3,470	1,041
70%	18%	18%	18%	18%	0%	0%	0%	4,347	1,304
0%	0%	0%	0%	0%	0%	0%	0%	-	-
12%	3%	3%	3%	3%	0%	0%	0%	374	112
0%	0%	0%	0%	0%	0%	0%	0%	-	-
50%	13%	13%	13%	13%	0%	0%	0%	10,225	3,067
0%	0%	0%	0%	0%	0%	0%	0%	-	-
0%	0%	0%	0%	0%	0%	0%	0%	-	-
40%	10%	10%	10%	10%	0%	0%	0%	845	253
0%	0%	0%	0%	0%	0%	0%	0%	-	_

Industrial

Residential

Commercial: Education Commercial: Food Stores Commercial: Hospitals Commercial: Hotels/Motels Commercial: Misc Commercial: Offices Commercial: Restaurants Commercial: Retail Commercial: Warehouses

^{**} Figures are product of % of eligible load and maximum potential reduction

^{**} It is assumed that savings on average would be 10 percentage points (35%) above those assumed for curtailment contracts.

Class 5: No	n-Firm: Critical Peak Pricing	Participation	LOAD	EVENT
_	12% RESD 10%		50%	75%
	% Achievable			
% Eligible Load	CPP Theoretically can affect all End Uses, so Overall only	Overall	Technical Potential kW	Achievable Potential kW
100%		12%	20,820	7,808
100%		12%	4,782	1,793
100%		12%	7,619	2,857
100%		12%	11,145	4,179
100%		12%	2,088	783
100%		12%	5,221	1,958
100%		12%	12,237	4,589
100%		12%	3,686	1,382
100%		12%	8,189	3,071
100%		12%	2,180	817
0%		0%	_	-

Industrial

Commercial: Education Commercial: Food Stores Commercial: Hospitals Commercial: Hotels/Motels Commercial: Misc Commercial: Offices Commercial: Restaurants Commercial: Retail

Commercial: Warehouses

Residential

Technical Potential, By EndUse

				Con	nbined Tec	hnical P	otential		
Sector/Segment	Heat	Cool	HW	Light	Other	Plug Load	Ventilatio n	Maixmum Potential by Strategy	Maximum Potential by End-Use
Industrial	20%	20%	20%	20%	12%	12%	12%	20,820	20,820
Commercial: Education	13%	13%	13%	13%	12%	12%	12%	4,782	4,921
Commercial: Food Stores	18%	18%	18%	18%	12%	12%	12%	7,619	8,985
Commercial: Hospitals	12%	12%	12%	12%	12%	12%	12%	11,145	11,145
Commercial: Hotels/Motels	12%	12%	12%	12%	12%	12%	12%	2,088	2,088
Commercial: Misc	12%	12%	12%	12%	12%	12%	12%	5,221	5,221
Commercial: Offices	13%	13%	13%	13%	12%	12%	12%	12,237	12,646
Commercial: Restaurants	12%	12%	12%	12%	12%	12%	12%	3,686	3,686
Commercial: Retail	12%	12%	12%	12%	12%	12%	12%	8,189	8,189
Commercial: Warehouses	12%	12%	12%	12%	12%	12%	12%	2,180	2,180
Residential	3%	39%	8%	6%	6%	6%	6%	93,605	109,579
	Total							171,569	189,457
	Percent o	f System	Peak					12.0%	13.3%

Achievable Potential, By EndUse

			Combi	ned Achiev	/able Pote	ntial		
							Achievable	Achievable
					Plug		Potential by	Potential by
Heat	Cool	HW	Light	Refrig	Load	Process	Strategy	End-Use
6%	6%	6%	6%	5%	5%	5%	7,808	7,808
5%	5%	5%	5%	5%	5%		1,793	1,589
5%	5%	5%	5%	5%	5%		2,857	2,962
5%	5%	5%	5%	5%	5%		4,179	3,696
5%	5%	5%	5%	5%	5%		783	721
5%	5%	5%	5%	5%	5%		1,958	1,719
5%	5%	5%	5%	5%	5%		4,589	4,291
5%	5%	5%	5%	5%	5%		1,382	1,320
5%	5%	5%	5%	5%	5%		3,071	2,823
5%	5%	5%	5%	5%	5%		817	777
2%	10%	2%	2%	2%	2%		23,401	29,495
Total							52,638	57,201
Percent of S	System Pea	ık					3.7%	4.0%

	Technical	Potential Sumn	nary (kW)		
Sector	Direct Load Control	Curtailment Contracts	TOU	Demand Buy Back	Critical Peak Pricing
Industrial					
Technical Potential		-	5,205	-	20,820
Percent of Class Peak		0.0%	3.0%	0.0%	12.0%
Commercial					
Technical Potential	-	12,929	4,255	19,261	57,145
Percent of Class Peak	0.0%	3.0%	1.0%	4.4%	13.2%
Residential					
Technical Potential	93,605		33,067		-
Percent of Class Peak	18.8%		6.6%		0.0%
Total Potential*	93,605	12,929	42,527	19,261	77,965
Percent of System Peak	6.6%	0.9%	3.0%	1.3%	5.5%

^{*} Note that not all strategies mutually exclusive, hence potentials are not additive.

	Achievable P	otential Summ	ary (kW)		
Sector	Direct Load Control	Curtailment Contracts	TOU	Demand Buy-Back	Critical Peak Pricing
Industrial					
Market Potential			1,822		7,808
Percent of Class Peak			1.1%		4.5%
Commercial					
Market Potential		2,909	1,489	5,778	21,429
Percent of Class Peak		0.7%	0.3%	1.3%	4.9%
Residential					
Market Potential	23,401		11,574		
Percent of Class Peak	4.7%		2.3%		
Total Potential*	23,401	2,909	14,884	5,778	29,237
Percent of System Peak	1.6%	0.2%	1.0%	0.4%	2.0%

^{*} Note that not all strategies mutually exclusive, hence potentials are not additive.

Appendix E. Detailed Program Cost Effectiveness Results

	:	Res	idential Ligh	ting											
Key Program In	nputs														
Program Year	Participants	Uti	ility Costs	P	articipant Costs		Energy Impacts	lm	pacts (Avg. Max)						
2006	3,100	\$	164,063	\$	82,383		2,710,665		406						
2007	4,750	\$	222,079		125,741		6,848,483		1,026						
2008	6,500	\$	283,540	\$	171,712		12,499,515		1,873						
2009	7,500	\$	318,673	\$	197,406		18,996,930		2,846						
2010	8,500	\$	355,717	\$	224,444		26,383,455		3,953						
2011	-	\$	-	\$	-		25,017,255		3,748						
2012	<u> </u>	\$	-	\$	-		22,930,695		3,435						
				_											
2013	-	\$	-	\$	-		19,813,005		2,968						
2014	-	\$	-	\$	_		15,144,705		2,269						
2015	-	\$	-	\$			9,364,410		1,403						
2016	-	\$	-	\$	-		6,583,815		986						
2017	-	\$	-	\$	-		3,361,028		504						
2018	-	\$	-	\$	-		490,860		74						
2019	-	\$	-	\$	-		261,225		39						
2020	-	\$	1	\$	-		-		-						
2021	-	\$	-	\$	-		-		-						
2022	-	\$	-	\$	-		-		-						
2023	-	\$	_	\$	_		-		_						
2024	-	\$	_	\$	_		_		_						
2025	_	\$	_	\$	_		_		_						
	iveness Test	Ψ		Ψ				<u> </u>							
	sults														
Program	Total Resou	rce C	Cost Test		Utility Cost	Te	st (UCT)		Participa	ant	(PCT)	R	ate Impact I	Иeа	sure (RIM)
							(- /				,				,
	Costs		Benefits		Costs		Benefits		Costs		Benefits		Costs	L	Benefits
2006		\$	89,478	\$	164,063	\$	89,478	\$	82,383	\$	190,407	\$		\$	89,478
2007	\$ 347,819	\$	190,992	\$	222,079	\$	190,992	\$	125,741	\$	495,495	\$	717,574	\$	190,992
2008	\$ 455,252	\$	384,011	\$	283,540	\$	384,011	\$	171,712	\$	931,484	\$	1,215,024	\$	384,011
2009	\$ 516,079	\$	793,614	\$	318,673	\$	793,614	\$	197,406	\$	1,458,152	\$	1,776,825	\$	793,614
2010	\$ 580,160	\$	987,406	\$	355,717	\$	987,406	\$	224,444	\$	2,085,875	\$	2,441,591	\$	987,406
2011	\$ -	\$	1,147,508	\$	-	\$	1,147,508	\$	-	\$	2,037,199	\$	2,037,199		1,147,508
2012	\$ -			\$	-			Ψ	-	Ψ				\$	
		\$	1.083.354	a a		ъ	1.083.354		<u> </u>		1.923.305		1,923,305	\$	1,083,354
20131		\$	1,083,354 964 141	_		\$	1,083,354 964 141	\$		\$	1,923,305	\$	1,923,305	\$	
2013 2014	\$ -	\$	964,141	\$	-	\$	964,141	\$	-	\$	1,923,305 1,711,664	\$ \$	1,923,305 1,711,664	\$	964,141
2014	\$ - \$ -	\$	964,141 759,082	\$	-	\$	964,141 759,082	\$ \$ \$	- - -	\$ \$	1,923,305 1,711,664 1,347,616	\$ \$	1,923,305 1,711,664 1,347,616	\$ \$	964,141 759,082
2014 2015	\$ - \$ - \$ -	\$ \$ \$	964,141 759,082 483,443	\$ \$	- - -	\$ \$ \$	964,141 759,082 483,443	\$ \$ \$	- - -	\$ \$ \$	1,923,305 1,711,664 1,347,616 858,268	\$ \$ \$	1,923,305 1,711,664 1,347,616 858,268	\$ \$ \$	964,141 759,082 483,443
2014 2015 2016	\$ - \$ - \$ -	\$ \$ \$	964,141 759,082 483,443 350,090	\$ \$	- - -	\$ \$ \$	964,141 759,082 483,443 350,090	\$ \$ \$ \$	- - - -	\$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523	\$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523	\$ \$ \$ \$	759,082 483,443 350,090
2014 2015 2016 2017	\$ - \$ - \$ - \$ -	\$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082	\$ \$ \$	- - - -	\$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082	\$ \$ \$ \$	- - - - -	\$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805	\$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805	\$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082
2014 2015 2016 2017 2018	\$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	\$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	\$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691
2014 2015 2016 2017 2018 2019	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805	\$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805	\$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691
2014 2015 2016 2017 2018 2019 2020	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	S SS S S S S S S	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	\$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178
2014 2015 2016 2017 2018 2019 2020 2021	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	\$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	\$ \$\$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691
2014 2015 2016 2017 2018 2019 2020 2021 2022	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	S S S S S S S S S S S	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$	- - - - - - - -	\$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160 26,947	\$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160 26,947	\$ \$\$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160 26,947	S S S S S S S S S S S	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160 26,947	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160 26,947	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,923,305 1,711,664 1,347,616 858,268 621,523 326,805 49,160 26,947	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	964,141 759,082 483,443 350,090 184,082 27,691 15,178
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Program Name		Resid	dential Ther	rma	l Envelope In	npro	ovements							
Kov Drogram In	unuto.							T	1					
Key Program In Program Year	Participants	Util	ity Costs	Р	Participant Costs		Energy Impacts	Impacts (Avg. Max)						
2006	482	\$	376,992	\$	292,183		1,613,338	300						
2007	613	\$	501,161	\$	411,078		3,881,482	718						
2008	748	\$	627,643	\$	532,044		6,826,062	1,292						
2009	760	\$	642,920	\$	543,270		9,927,814	1,891						
2010	773	\$	660,535	\$	556,244		13,231,311	2,521						
2011	-	\$	-	\$	-		13,020,171	2,489						
2012	-	\$	-	\$	-		12,703,461	2,442						
2013	-	\$	-	\$	-		12,233,661	2,372						
2014	-	\$	-	\$	-		11,476,176	2,259						
2015	-	\$	-	\$	-		10,516,731	2,117						
2016	-	\$	-	\$			9,908,040	2,023						
2017	-	\$	-	\$			9,194,666	1,911						
2018	-	\$	-	\$	_		8,480,882	1,797						
2019	-	\$	-	\$	-		8,318,866	1,765	<u> </u>				<u> </u>	
2020	-	\$	-	\$	-	-	8,147,790	1,731	<u> </u>		_		-	
2021	-	\$	-	\$	-		8,147,790	1,731	<u> </u>		<u> </u>		1	
2022	-	\$	-	\$	-	_	8,147,790	1,731	<u> </u>				1	
2023	=	\$	-	\$	-		8,147,790	1,731					<u> </u>	
2024 2025	-	\$	-	\$	=		8,147,790 8.147,790	1,731 1,731					-	
	veness Test	Ф	-	\$	-		8,147,790	1,731	<u> </u>				<u> </u>	
Res														
Program	Total Resour	rce Co	ost Test		Utility Cost	Te	st (UCT)	Participa	ant	(PCT)	R	Rate Impact I	Mea	asure (RIM)
	Total Nocoul		001 1001		Cumity Cool		001)	i untioipe	1	(. 0.)	•	ato impuot i	1	acaro (ram)
	Costs	В	enefits		Costs		Benefits	Costs		Benefits		Costs		Benefits
2006	\$ 669,175	\$	56,381	\$	376,992	\$	56,381	\$ 292,183	\$	113,327	\$	490,319	\$	56,381
20071	\$ 912.239	\$	122.139	\$	501.161	\$	122.139	\$ 411.078	\$	280.829	\$	781.990	\$	122.139
	\$ 912,239 \$ 1.159.687	\$	122,139 239.814	\$	501,161 627.643	\$	122,139 239.814	\$ 411,078 \$ 532.044	\$ \$	280,829 508.689	\$	781,990 1,136,332	\$	
2008	\$ 1,159,687	\$	122,139 239,814 474,809	\$	501,161 627,643 642,920	\$	122,139 239,814 474,809	\$ 532,044	\$ \$ \$	280,829 508,689 762,032	\$ \$	781,990 1,136,332 1,404,952	_	239,814
2008 2009	\$ 1,159,687 \$ 1,186,190		239,814	\$	627,643	_	239,814	\$ 532,044 \$ 543,270	\$	508,689	\$	1,136,332	\$	239,814 474,809
2008 2009 2010	\$ 1,159,687 \$ 1,186,190	\$ \$	239,814 474,809	\$	627,643 642,920	\$ \$	239,814 474,809	\$ 532,044 \$ 543,270	\$ \$	508,689 762,032	\$	1,136,332 1,404,952 1,706,602 1,060,255	\$ \$	239,814 474,809 563,151
2008 2009 2010 2011	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779	\$ \$	239,814 474,809 563,151	\$ \$	627,643 642,920 660,535	\$ \$	239,814 474,809 563,151	\$ 532,044 \$ 543,270 \$ 556,244	\$ \$ \$	508,689 762,032 1,046,067	\$ \$ \$	1,136,332 1,404,952 1,706,602	\$ \$	239,814 474,809 563,151 658,146
2008 2009 2010 2011 2012 2013	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ -	\$ \$ \$	239,814 474,809 563,151 658,146	\$ \$ \$	627,643 642,920 660,535	\$ \$ \$	239,814 474,809 563,151 658,146	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ -	\$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878	\$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878	\$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954
2008 2009 2010 2011 2012 2013 2014	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ -	\$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786	\$ \$ \$ \$	627,643 642,920 660,535	\$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ -	\$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181	\$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181	\$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786
2008 2009 2010 2011 2012 2013 2014 2015	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508	\$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - -	\$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881	\$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881	\$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508
2008 2009 2010 2011 2012 2013 2014 2015 2016	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036	\$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - -	\$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336	\$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336	\$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138	\$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - -	\$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032	\$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083	\$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367	\$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367	\$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135	\$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135	\$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702	\$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,768 611,508 597,036 575,138 551,083 557,114 562,455 579,329
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709
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2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 557,138 557,138 557,139 62,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535 - - - - - - - - - - - - - - - - - -	\$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,003,586 1,012,050 1,011,987 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,012,050 1,011,987 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,818 651,625 643,972 634,851 653,896 673,513 693,719 714,530
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2033 2034 2032	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 557,138 557,138 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 575,138 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,003,586 1,012,050 1,011,987 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664 1,132,654	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,831 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664 1,132,654	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2034 2035 NPV	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966 6,030,779	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535	\$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966 \$6,030,779	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,003,586 1,012,050 1,011,987 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664 1,132,654 \$9,770,625	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,831 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664 1,132,654 \$12,008,222	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966 \$6,030,779
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 NPV 0	\$ 1,159,687 \$ 1,186,190 \$ 1,216,779 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966 6,030,779 1,937,694	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	627,643 642,920 660,535	\$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966 \$6,030,779 \$3,793,182	\$ 532,044 \$ 543,270 \$ 556,244 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	508,689 762,032 1,046,067 1,060,255 1,065,499 1,056,878 1,021,181 963,881 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,003,586 1,012,050 1,011,987 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664 1,132,654 \$9,770,625	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,136,332 1,404,952 1,706,602 1,060,255 1,065,499 1,056,878 1,021,181 963,831 935,336 894,032 849,367 858,135 865,702 891,674 918,424 945,976 974,356 1,002,484 990,892 977,038 1,006,349 1,036,539 1,067,635 1,099,664 1,132,654 \$12,008,222	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	239,814 474,809 563,151 658,146 662,928 659,954 641,786 611,508 597,036 575,138 551,083 551,083 557,114 562,455 579,329 596,709 614,610 633,048 652,040 657,855 657,918 651,625 643,972 634,851 653,896 673,513 693,719 714,530 735,966

): 	Residential Spa	ice F	Heating & Co	olin	9								
Key Program Ir	nputs													
Program Year	Participants	Utility Costs	F	Participant Costs		Energy Impacts	Impa	acts (Avg. Max)						
2006	60	\$ 29,200	\$	179,100		479,550		158						
2007	92	\$ 39,740	\$	274,620		1,214,861		401						
2008	125	\$ 50,609	\$	373,125		2,213,924		731						
2009	127	\$ 51,567	\$	379,095		3,228,973		1,066						
2010	129	\$ 52,535	\$	385,065		4.260.006		1,406						
2011	- 129	\$ 52,555	\$	-	┢	4,260,006		1,406						
2012		\$ -		<u>-</u>	┢	4,260,006		1,406						
			\$		⊢	, ,								
2013	-	\$ -	\$	-	 	4,260,006		1,406						
2014	-	\$ -	\$	-	₩	4,260,006		1,406						
2015	-	\$ -	\$	<u> </u>	<u> </u>	4,260,006		1,406						
2016	-	\$ -	\$	-	<u> </u>	4,260,006		1,406						
2017	-	\$ -	\$	-	╙	4,260,006		1,406						
2018	-	\$ -	\$	-	Щ.	4,260,006		1,406						
2019	=	\$ -	\$	-	<u> </u>	4,260,006		1,406						
2020	-	\$ -	\$	-	<u>L</u>	4,260,006		1,406						
2021	-	\$ -	\$	-	L	4,260,006		1,406	L					
2022		\$ -	\$	-		4,260,006		1,406						
2023	=	\$ -	\$	-		4,260,006		1,406						
2024	-	\$ -	\$	_		3,780,456		1,248						
2025	-	\$ -	\$	-		3,045,145		1,005						
Cost-Effecti	iveness Test					, ,								
Res	sults													
Program		ce Cost Test		Utility Cost	Te	st (UCT)		Participa	nt	(PCT)	R	ate Impact I	Vlea	sure (RIM)
	Costs	Benefits		Costs		Benefits		Costs		Benefits		Costs		Benefits
2006			Φ.		•				6		•	62,885	\$	15,055
2006	· · · · · · · · · · · · · · · · · · ·		\$	29,200		15,055	\$	179,100	_	33,685	\$	•		
2007	\$ 314,360	\$ 25,729	\$	39,740	\$	25,729	\$	274,620	\$	87,896	\$	127,636	\$	25,729
2008		\$ 51,543	\$	50,609	\$	51,543	\$	373,125	\$	164,985	\$	215,594	\$	51,543
2009	\$ 430,662	\$ 128,547	\$	51,567	\$	128,547	\$	379,095	\$	247,847	\$	299,414	\$	128,547
2010	\$ 437,600	\$ 150,768	\$	52,535	\$	150,768	\$	385,065	\$	336,796	\$	389,331	\$	150,768
2011	\$ -	\$ 172,963	\$	-	\$	172,963	\$	-	\$	346,900	\$	346,900	\$	172,963
2012	•	\$ 178,152	\$	-	\$	178,152	\$	-	\$	357,307	\$	357,307	\$	178,152
2013	\$ -	\$ 183,497	\$	-	\$	183,497	\$	-	\$	368,026	\$	368,026	\$	183,497
2014	\$ -	\$ 189,002	\$	-	\$	189,002	\$	-	\$	379,067	\$	379,067	\$	189,002
2015	\$ -		_	_			Ψ						φ	194,672
		\$ 194,672	\$	-	\$	194,672	\$	-	\$	390,439	\$	390,439	\$	10-1,012
2016							\$	-				-	\$	
2016 2017	\$ -	\$ 200,512	\$		\$	200,512	\$		\$	402,152	\$	402,152	\$	200,512
2017	\$ - \$ -	\$ 200,512 \$ 206,527	\$	-	\$	200,512 206,527	\$ \$ \$	-	\$	402,152 414,216		-	\$	200,512 206,527
2017 2018	\$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723	\$ \$ \$	-	\$ \$ \$	200,512 206,527 212,723	\$ \$ \$	-	\$ \$	402,152 414,216 426,643	\$	402,152 414,216 426,643	\$ \$ \$	200,512 206,527 212,723
2017 2018 2019	\$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105	\$ \$ \$	- - - -	\$ \$ \$	200,512 206,527 212,723 219,105	\$ \$ \$ \$	- - -	\$ \$ \$	402,152 414,216 426,643 439,442	\$ \$ \$	402,152 414,216 426,643 439,442	\$ \$ \$ \$	200,512 206,527 212,723 219,105
2017 2018 2019 2020	\$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678	\$ \$ \$ \$	- - -	\$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678	\$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626	\$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626	\$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678
2017 2018 2019 2020 2021	\$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204	\$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204	\$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448
2017 2018 2019 2020 2021 2022	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190	\$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190	\$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422
2017 2018 2019 2020 2021 2022 2023	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605	\$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605	\$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596	\$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596	\$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605
2017 2018 2019 2020 2021 2022 2023 2024	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - -	\$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409	\$ \$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087	\$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087	\$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409
2017 2018 2019 2020 2021 2022 2023 2024 2025	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014	\$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079	\$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427	\$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079	8 8 8 8 8 8 8 8 8 8	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582		402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582	8 8 8 8 8 8 8 8 8 8 8 8 8	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729		402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	8 8 8 8 8 8 8 8 8 8 8 8 8	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - -	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729		402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729		402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
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2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	888888888888888888888888	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035	\$ - S - S -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	888888888888888888	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729		402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 NPV	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 200,512 \$ 206,527 \$ 212,723 \$ 219,105 \$ 225,678 \$ 232,448 \$ 239,422 \$ 246,605 \$ 225,409 \$ 187,014 \$ 129,427 \$ 67,176 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176 - - - - - - \$\$\$\$\$\$\$ \$\$\$\$\$\$\$1,579,758	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	888888888888888888888888	402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729 - - - - - - - - - - - - - - - - - - -		402,152 414,216 426,643 439,442 452,626 466,204 480,190 494,596 452,087 375,079 259,582 134,729 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,512 206,527 212,723 219,105 225,678 232,448 239,422 246,605 225,409 187,014 129,427 67,176
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Program Name	e:	Residential Pro	gran	nmable Therr	nos	stat & HVAC I	Mair	ntenance						
Key Program Ir	nputs		<u> </u>											
Program Year	Participants	Utility Costs	F	Participant Costs		Energy Impacts	lm	pacts (Avg. Max)						
2006	502	\$ 85,172	\$	50,100		423,189		114						
2007	764	\$ 108,964		76,247		1,067,246		287						
2008	1,035	\$ 133,555	_	103,281		1,939,677		522						
2009	1,050	\$ 136,195	\$	104,790		2,824,833		761						
2010	1,067	\$ 139,046	\$	106,499		3,724,401		1,003						
2011	-	\$ -	\$	-		3,724,401		1,003						
2012	-	\$ -	\$	-		3,724,401		1,003						
2013 2014	-	\$ - \$ -	\$	-		3,724,401 3,724,401		1,003 1,003						
2015		\$ -	\$			3,724,401		1,003						
2016	_	\$ -	\$			3,557,138		954						
2017	_	\$ -	\$	_		3,302,580		880						
2018	-	\$ -	\$	-		2,701,800		715						
2019	-	\$ -	\$	-		1,962,450		514						
2020	-	\$ -	\$	-		1,079,357		276						
2021	ı	\$ -	\$	-		544,052		139						
2022	-	\$ -	\$	-		-		-						
2023	-	\$ -	\$	-		-		-						
2024	-	\$ -	\$			-		-						
2025	iveness Test	\$ -	\$	-		-		-						
	sults													
Program		rce Cost Test	T	Utility Cost	Te	st (UCT)		Participa	ant	(PCT)	R	ate Impact N	/lea	sure (RIM)
						(- /				,				, ,
	Costs	Benefits		Costs		Benefits		Costs		Benefits		Costs		Benefits
2006		\$ 14,353		85,172	\$	14,353	\$	50,100	\$	29,726	\$	114,898	\$	14,353
2007	\$ 185,211	\$ 28,803		108,964	\$	28,803	\$	76,247	\$	77,216	\$	186,180	\$	28,803
2008		\$ 57,973		133,555	\$	57,973	\$	103,281	\$	144,548	\$	278,103	\$	57,973
2009		\$ 128,543		136,195	\$	128,543	\$	104,790	\$	216,826	\$	353,021	\$	128,543
2010 2011	\$ 245,545 \$ -	\$ 151,449 \$ 173,498	_	139,046	\$	151,449 173,498	\$	106,499	\$	294,451 303,284	\$	433,497 303,284	\$	151,449 173,498
2011		\$ 173,496		<u> </u>	\$	173,496	\$	-	\$	312,383	\$	312,383	\$	173,496
2013		\$ 184,064	\$		\$	184.064	\$		\$	321,755	\$	321,755	\$	184.064
2014		\$ 189,586		_	\$	189,586	\$	_	\$	331,407	\$	331,407	\$	189,586
2015		\$ 195,273		-	\$	195,273	\$	-	\$	341,349	\$	341,349	\$	195,273
2016	\$ -	\$ 192,536		-	\$	192,536	\$	-	\$	335,800	\$	335,800	\$	192,536
2017	\$ -	\$ 184,837	\$	-	\$	184,837	\$	-	\$	321,122	\$	321,122	\$	184,837
2018	\$ -	\$ 156,454	\$	-	\$	156,454	\$	-	\$	270,587	\$	270,587	\$	156,454
2019		\$ 117,789	\$	-	\$	117,789	\$	-	\$	202,437	\$	202,437	\$	117,789
2020		\$ 67,679	\$	-	\$	67,679	\$	-	\$	114,682	\$	114,682	\$	67,679
2021	\$ -	\$ 35,137	\$	-	\$	35,137	\$	-	\$	59,540	\$	59,540	\$	35,137
2022 2023		\$ - \$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2023		\$ -	\$	-	\$	-	\$	-	\$	<u> </u>	\$		\$	-
2025		\$ -	\$	<u> </u>	\$	<u> </u>	\$	<u> </u>	\$	<u> </u>	\$		\$	
2026		\$ -	\$		\$		\$		\$		\$		\$	-
2027		\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2028		\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2029		\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
		\$ -	\$	-	\$	=	\$	-	\$	-	\$	-	\$	-
2030	7		\$	=	\$	-	\$	=	\$	=	\$	-	\$	-
2031	\$ -	\$ -												
2031 2032	\$ - \$ -	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2031 2032 2033	\$ - \$ - \$ -	\$ - \$ -	\$		\$	-	\$	-	\$	-	\$	-	\$	-
2031 2032 2033 2034	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ \$ \$	- - -	\$	-	\$ \$	-	\$	-	\$	-	\$	
2031 2032 2033 2034 2035	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ \$ \$	- - - -	\$	- - -	\$	- - -	\$	- - -	\$ \$	- -	\$	- - -
2031 2032 2033 2034 2035 NPV	\$ - \$ - \$ - \$ - \$ - \$ 830,652	\$ - \$ - \$ - \$ - \$1,114,402	\$ \$ \$ \$	- - - - \$481,245	\$	- - - \$1,114,402	\$ \$ \$	- - - \$349,407	\$	- - - \$2,019,942	\$ \$	- - \$2,501,187	\$ \$	- - - \$1,114,402
2031 2032 2033 2034 2035 NPV	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$1,114,402 \$283,750	\$ \$ \$ Ne	- - - - \$481,245	\$	- - \$1,114,402 \$633,157	\$ \$ \$ Ne	- - - \$349,407	\$	- - \$2,019,942 \$1,670,535	\$ \$ \$ Net	- - \$2,501,187	\$ \$	- - -

Program Name:	:	Residential Ne	w Co	nstruction									
Key Program In Program Year	puts Participants	Utility Costs	F	Participant Costs		Energy mpacts	Impacts (Avg.						
2006	90	\$ 134,680	\$	124,558		739.536	138						
2007	120	\$ 172,900		166,077		1,725,585	323						
2008	150	\$ 211,140		207,596		2,958,146	553						
2009	150	\$ 211,840		207,596	_	4,190,706	783						
2010	150	\$ 212,561		207,596		5.423.267	1.014						
2010	-	_	\$			-, -, -	997						
2012				-		5,311,487	975						
	-	\$ -	\$	-		5,162,447							
2013	-	\$ -	\$	-		4,967,399	945						
2014	=	\$ -	\$	-		4,501,163	876						
2015	-	\$ -	\$	-		3,942,587	792						
2016	-	\$ -	\$	-		3,463,391	720						
2017	-	\$ -	\$	_		2,978,363	647						
2018	-	\$ -	\$	-		2,502,083	576						
2019	-	\$ -	\$	-		2,425,981	567						
2020	-	\$ -	\$	-		2,334,233	556						
2021	-	\$ -	\$	-		2,249,718	547						
2022	-	\$ -	\$	-		2,163,110	537						
2023	-	\$ -	\$	-		2,074,409	528						
2024	-	\$ -	\$	-		2,007,195	512						
2025	-	\$ -	\$	-		1,921,065	491						
Cost-Effective	veness Test												
Res	ults												
Program	Total Resour	rce Cost Test		Utility Cost	t Test	t (UCT)	Participa	ant (PCT)	F	Rate Impact I	Vlea	sure (RIM)
	Costs	Benefits		Costs	F	3enefits	Costs		Benefits		Costs		Benefits
2006		\$ 24,956	\$	134,680		24,956	\$ 124,558	l	51,948	\$	186,628	\$	24,956
	\$ 338,977	\$ 48,394	_	172,900	\$	48,394	\$ 166,077	\$	124,848	\$	297,748	\$	48,394
	\$ 418,736			211,140						\$	431,586	_	91,589
							P 207 506						
2000		\$ 91,589			\$	91,589	\$ 207,596	\$	220,446			\$	
	\$ 419,436	\$ 183,502	\$	211,840	\$	183,502	\$ 207,596	\$	321,667	\$	533,507	\$	183,502
2010	\$ 419,436 \$ 420,157	\$ 183,502 \$ 212,500	\$ \$	211,840 212,561	\$	183,502 212,500	\$ 207,596 \$ 207,596	\$	321,667 428,763	\$	533,507 641,324	\$	183,502 212,500
2010 2011	\$ 419,436 \$ 420,157 \$ -	\$ 183,502 \$ 212,500 \$ 247,953	\$ \$ \$	211,840 212,561 -	\$ \$	183,502 212,500 247,953	\$ 207,596 \$ 207,596 \$ -	\$ \$ \$	321,667 428,763 432,524	\$ \$ \$	533,507 641,324 432,524	\$ \$	183,502 212,500 247,953
2010 2011 2012	\$ 419,436 \$ 420,157 \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350	\$ \$ \$	211,840 212,561 - -	\$ \$ \$	183,502 212,500 247,953 248,350	\$ 207,596 \$ 207,596 \$ - \$ -	\$ \$ \$	321,667 428,763 432,524 432,999	\$ \$ \$	533,507 641,324 432,524 432,999	\$ \$ \$	183,502 212,500 247,953 248,350
2010 2011 2012 2013	\$ 419,436 \$ 420,157 \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309	\$ \$ \$ \$	211,840 212,561 - -	\$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309	\$ 207,596 \$ 207,596 \$ - \$ - \$ -	\$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138	\$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138	\$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309
2010 2011 2012 2013 2014	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330	\$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - -	\$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ -	\$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526	\$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526	\$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330
2010 2011 2012 2013 2014 2015	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403	\$ \$ \$ \$ \$	211,840 212,561 - - - - -	\$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347	\$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347	\$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403
2010 2011 2012 2013 2014 2015 2016	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174	\$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - -	\$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950	\$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950	\$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174
2010 2011 2012 2013 2014 2015 2016 2017	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284	\$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - -	\$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597	\$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284
2010 2011 2012 2013 2014 2015 2016 2017 2018	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465	\$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586	\$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586	\$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 146,465	\$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465
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2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 146,465 \$ 145,407 \$ 144,610	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 146,465 145,407 144,610
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 146,465 145,407 144,610 143,503
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 146,465 145,407 144,610 143,503 142,062
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2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 146,465 145,407 144,610 143,503 142,062 141,617 139,642
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2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 144,467 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098 \$ 119,976	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 144,467 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098 \$ 119,976 \$ 106,069	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 144,610 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098 \$ 119,976 \$ 106,069 \$ 98,958	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,031 236,623 222,146 203,299 179,734 167,684	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 119,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 111,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065 \$ 96,887	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 131,098 \$ 119,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065 \$ 96,887 \$ 99,793	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2031	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 131,098 \$ 119,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065 \$ 96,887 \$ 99,793 \$ 102,787	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172	\$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 166,465 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2031 2032 2031 2032 2033	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098 \$ 119,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065 \$ 96,887 \$ 99,793 \$ 102,787 \$ 105,871	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	211,840 212,561		183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172 179,398	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172 179,398	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 166,465 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2034 2035 NPV	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098 \$ 119,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065 \$ 96,887 \$ 99,793 \$ 102,787 \$ 105,871 \$ 105,871 \$ 105,871	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787 105,871 61,793,380	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172 179,398 \$3,232,987	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172 179,398 \$3,986,686	\$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787 105,871 \$1,793,380
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2033 2034 2035 NPV 0	\$ 419,436 \$ 420,157 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 183,502 \$ 212,500 \$ 247,953 \$ 248,350 \$ 246,309 \$ 230,330 \$ 208,403 \$ 189,174 \$ 168,284 \$ 146,465 \$ 145,407 \$ 144,610 \$ 143,503 \$ 142,062 \$ 141,617 \$ 139,642 \$ 131,098 \$ 119,976 \$ 106,069 \$ 98,958 \$ 91,325 \$ 94,065 \$ 96,887 \$ 99,793 \$ 102,787 \$ 105,871	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	211,840 212,561 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 168,284 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787 105,871 61,793,380 61,039,681	\$ 207,596 \$ 207,596 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	321,667 428,763 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172 179,398	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	533,507 641,324 432,524 432,999 429,138 400,526 361,347 326,950 289,597 250,586 250,253 248,012 246,203 243,827 240,843 240,031 236,623 222,146 203,299 179,734 167,684 154,750 159,393 164,174 169,100 174,172 179,398 \$3,986,686 et Benefits	\$	183,502 212,500 247,953 248,350 246,309 230,330 208,403 189,174 166,465 146,465 145,407 144,610 143,503 142,062 141,617 139,642 131,098 119,976 106,069 98,958 91,325 94,065 96,887 99,793 102,787

):	Residen	itial Audi	it Pr	rogram									
Key Program In	nputs													
Program Year	Participants	Utility	Costs	P	Participant Costs		Energy Impacts	Impacts (Avg. Max)						
2006	1,150		77,751	\$	_		711,526	96		-		-		-
2007	1,500		22,395	\$	_		1,644,876	222		_		_		_
2008	1,850		67,073	\$	-		2,800,047	378		_		_		_
2009	2,075		95,341	\$	_		4,089,160	552		_		_		
2010	2,300		23,145	\$			5,512,212	745						
2011	2,300	\$	-	\$			5,040,252	674						
2012	-	\$	-	\$			4,419,252	581		-				
		\$		_			3.649.212							
2013	-		-	\$	-		-,,	465		-		-		-
2014	-	\$	-	\$	-		2,792,232	337	<u> </u>	-		-		-
2015	-	\$	-	\$	-		1,848,312	211		-		-		-
2016	-	\$	-	\$	_		1,827,344	209	<u> </u>	-		_		-
2017	-	\$	-	\$	-		1,801,133	206		-		-		-
2018	-	\$	-	\$	-		1,769,679	202		-		-		-
2019	-	\$	-	\$	-		1,732,984	198		-		-		-
2020	-	\$	-	\$	-		1,691,046	193		-		-		-
2021	-	\$	-	\$	-		1,491,888	170		-		-		-
2022	_	\$	_	\$	-		1,231,670	141		-		_		-
2023	_	\$	-	\$	_		910,392	104		_		_		_
2024	_	\$	_	\$	_		550,595	63		_		_		_
2025	_	\$	_	\$	_		152,280	17		_		_		_
	iveness Test	Ψ		Ψ		<u> </u>	102,200		<u> </u>					
	sults													
Program	Total Resour	rce Cost	Test		Utility Cost	Те	st (UCT)	Participa	ant ((PCT)	Ra	ate Impact I	Vlea	sure (RIM)
	04-		- C'4 -		04-		D 6'4 -	04-		D 6'4-		Costs		Benefits
0000	Costs	Bene		•	Costs	•	Benefits	Costs	•	Benefits	•		ď	
2006			24,017	\$	177,751	\$	24,017	\$ -	\$	49,980	\$	227,731	\$	24,017
2007	\$ 222,395		45,631	\$	222,395	\$	45,631	\$ -	\$	119,008	\$	341,403	\$	45,631
			85,375	\$	267,073	\$	85,375	\$ -	\$	208,664	\$	475,737	\$	85,375
2009	\$ 295,341	•	71,971	\$	295,341	\$	171,971	\$ -	\$	313,873	\$	609,214	\$	171,971
2010	\$ 323,145		06,809	\$	323,145	\$	206,809	\$ -	\$	435,795	\$	758,940	\$	206,809
2011	\$ -	\$ 2	30,315	\$	-	\$	230,315	\$ -	\$	410,437	\$	410,437		230,315
2012	\$ -	\$ 2	07,885	\$	-	\$	207,885		Ψ	410,437	φ	410,437	\$	207 005
2013	\$ -						207,000	\$ -	\$	370,664	\$	370,664	\$	207,885
	- I		76.650	\$	_			\$ -	\$	370,664	\$	370,664	\$	
		\$ 1	76,650 38,996	\$	-	\$	176,650 138,996	\$ -						176,650 138,996
2015	\$ -	\$ 1°	38,996	\$		\$	176,650 138,996	\$ - \$ - \$	\$ \$ \$	370,664 315,259 248,460	\$	370,664 315,259	\$	176,650
	\$ - \$ -	\$ 1 \$ 1 \$	38,996 94,435	\$		\$ \$ \$	176,650 138,996 94,435	\$ - \$ - \$ -	\$ \$ \$	370,664 315,259 248,460 169,402	\$ \$	370,664 315,259 248,460 169,402	\$ \$ \$	176,650 138,996 94,435
2016	\$ - \$ - \$ -	\$ 1 \$ 1 \$ \$	38,996 94,435 96,165	\$ \$	- - -	\$ \$ \$	176,650 138,996 94,435 96,165	\$ - \$ - \$ - \$ -	\$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504	\$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504	\$ \$ \$ \$	176,650 138,996 94,435 96,165
2016 2017	\$ - \$ - \$ -	\$ 11 \$ 13 \$ 5 \$ 5	38,996 94,435 96,165 97,629	\$ \$ \$	- - -	\$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629	\$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131	\$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131	\$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629
2016 2017 2018	\$ - \$ - \$ - \$ - \$ -	\$ 11 \$ 13 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802	\$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235	\$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802
2016 2017 2018 2019	\$ - \$ - \$ - \$ - \$ -	\$ 11° \$ 13° \$ 5° \$ 5° \$ 5° \$ 5° \$ 5° \$ 5° \$ 5° \$ 5	38,996 94,435 96,165 97,629 98,802 99,656	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766	6 6 6 6 6 6	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766	\$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656
2016 2017 2018 2019 2020	\$ - \$ - \$ - \$ - \$ - \$ -	\$ 11 \$ 13 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161	\$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674	S S S S S S S S S S S S S S S S S S S	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674	\$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161
2016 2017 2018 2019 2020 2021	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 11 \$ 12 \$ 12 \$ 14 \$ 15 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268	S S S S S S S S S S S S S S S S S S S	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016
2016 2017 2018 2019 2020 2021 2021	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 11 \$ 15 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395
2016 2017 2018 2019 2020 2021 2022 2023	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 11 \$ 15 \$ 15 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699	S S S S S S S S S S S S S S S	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699	\$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923
2016 2017 2018 2019 2020 2021 2022 2023 2024	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843	8 8 8 8 8 8 8 8 8 8	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705
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2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026	S	\$ 1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853	8 8 8 8 8 8 8 8 8 8	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,335 105,699 65,843 18,757 16,853	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025	S	\$ 1 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456
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2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	S	\$ 11 \$ 12 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789
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2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030	S	\$ 11 \$ 11 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390		370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030	S	\$ 11 \$ 11 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390		370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	S	\$ 11 \$ 11 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390		370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005
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2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032	S	\$ 11 \$ 12 \$ 12 \$ 13 \$ 14 \$ 15 \$ 15 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390		370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005
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2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 NPV	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005 - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005 \$1,181,163	\$ - \$ - \$ \$ - \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390 \$2,247,158		370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005 \$1,181,163
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 NPV 0	S	\$ 1 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	38,996 94,435 96,165 97,629 98,802 99,656 00,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005 81,163 59,156	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005 \$1,181,163 \$159,156	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	370,664 315,259 248,460 169,402 172,504 175,131 177,235 178,766 179,674 163,268 138,835 105,699 65,843 18,757 16,853 13,972 10,030 5,390	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	176,650 138,996 94,435 96,165 97,629 98,802 99,656 100,161 91,016 77,395 58,923 36,705 10,456 9,395 7,789 5,591 3,005

	:	Cor	mprehensive	Coı	mmercial and	d Ind	dustrial								
Key Program In Program Year	Participants	U1	tility Costs	P	articipant Costs		Energy Impacts	_	cts (Avg.						
2006	100	\$	970,194	\$	377,718		4,696,086		832						
2007	125	\$	1,194,920	\$	604,349		12,209,828		2,164						
2008	150	\$	1,638,372	\$	1,164,676		24,148,793		4,080						
2009	175	\$	1,802,130	\$	1,369,732		37,338,784		6,122						
2010	200	\$	1,966,084	\$	1.574.352		51.785.528		8,291						
2011	-	\$	-	\$	-		51,730,053		8,290						
2012	-	\$	_	\$	-		51,674,548		8,290						
2013	_	\$	_	\$	_		51,576,016		8,289						
2014	_	\$	_	\$	_		51,511,476		8,289						
2015	-	\$	_	\$	_		51,362,946		8,281						
2016	_	\$	_	\$	_		50,270,829		7,908						
2017	_	\$	-	\$	_		48,558,429		7,316						
2018	_	\$	_	\$	_		45,875,408		6,577						
2019	_	\$	-	\$	_		42,904,460		5,837						
2020	-	\$		\$		t	39,702,276		5,297					\vdash	
2021	-	\$		\$			39,544,399		5,271						
2022		\$		\$			39,184,511		5,215						
2022	<u>-</u>	\$		\$			37,436,997		4,974						
2024		\$		\$			34,864,783		4,625						
2025		\$		\$			31,916,346		4,225						
	iveness Test	Ψ	<u> </u>	Ψ			31,310,340	<u> </u>	7,220					<u> </u>	
	sults														
Program	Total Resour	rce (Cost Test		Utility Cost	Te	st (UCT)		Participa	nt	(PCT)	R	ate Impact N	Иeа	sure (RIM)
-					•		, ,		•		,		•		, ,
	Costs		Benefits		Costs		Benefits	C	osts		Benefits		Costs		Benefits
2006	\$ 1,347,912	\$	155,305	\$	970,194	\$	155,305	\$	377,718	\$	266,339	\$	1,236,533	\$	155,305
2007	\$ 1,799,269	\$	331,547	\$	1,194,920	\$	331,547	\$	604,349	\$	713,256	\$	1,908,177	\$	331,547
2008	\$ 2,803,048	\$	732,997	\$	1,638,372	\$	732,997	\$ 1,	164,676	\$	1,453,010	\$	3,091,382	\$	732,997
2009	\$ 3,171,862	\$	1,619,937	\$	1,802,130	\$	1,619,937	\$ 1,	369,732	\$	2,314,039	\$	4,116,169	\$	1,619,937
2010	\$ 3,540,436	\$	2,027,545	\$	1,966,084	\$	2,027,545	\$ 1,	574,352	\$	3,305,645	\$	5,271,729	\$	2,027,545
2011	\$ -	\$	2,423,851	\$	-	\$	2,423,851	\$	-	\$	3,401,167	\$	3,401,167	\$	2,423,851
2012	\$ -	\$	2,493,338	\$	-	\$	2,493,338	ď	-	\$	3,499,443	\$	3,499,443	Α.	2,493,338
2013	\$ -	\$	2,562,115	\$	_	\$		\$						\$	2,562,115
2014		Ψ	2,002,110	Ψ		Ψ	2,562,115	\$	-	\$	3,597,553	\$	3,597,553	\$	2,302,113
0045	\$ -	\$	2,634,810	\$	-	\$	2,562,115 2,634,810		-	_	3,597,553 3,700,843	\$	3,597,553 3,700,843		2,634,810
2015	\$ - \$ -				-			\$		\$	3,597,553 3,700,843 3,800,877			\$	
	\$ -	\$	2,634,810	\$		\$	2,634,810	\$ \$ \$	-	\$	3,700,843 3,800,877	\$	3,700,843 3,800,877	\$	2,634,810
2015 2016 2017	\$ -	\$	2,634,810 2,704,893	\$	-	\$	2,634,810 2,704,893	\$	-	\$ \$	3,700,843	\$ \$	3,700,843	\$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932
2016	\$ - \$ - \$ -	\$ \$ \$	2,634,810 2,704,893 2,733,906	\$ \$	-	\$ \$ \$	2,634,810 2,704,893 2,733,906	\$ \$ \$	- - -	\$ \$	3,700,843 3,800,877 3,831,662	\$ \$	3,700,843 3,800,877 3,831,662	\$ \$ \$	2,634,810 2,704,893
2016 2017 2018	\$ - \$ - \$ -	\$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932	\$ \$ \$	- - -	\$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932	\$ \$ \$ \$	- - -	\$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176	\$ \$	3,700,843 3,800,877 3,831,662 3,812,176	\$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932
2016 2017 2018	\$ - \$ - \$ - \$ -	\$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818	\$ \$ \$ \$	- - -	\$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818	\$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586	\$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586	\$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818
2016 2017 2018 2019 2020	\$ - \$ - \$ - \$ -	\$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748	\$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430	\$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430	\$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748
2016 2017 2018 2019 2020	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928	\$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226	\$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583
2016 2017 2018 2019 2020 2021	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583	\$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155	\$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155	\$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768
2016 2017 2018 2019 2020 2021 2022	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768	9999999999	- - - - - -	\$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - -	9 9 9 9 9 9 9 9	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226	\$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503
2016 2017 2018 2019 2020 2021 2022 2023	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843
2016 2017 2018 2019 2020 2021 2022 2023 2024	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		8 8 8 8 8 8 8 8 8 8 8 8	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683	\$\$\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		88888888888888888	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597	\$\text{8}\$ \text{8}\$ \text{9}\$ \text{8}\$ \text{9}\$ \text	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859	\$\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exittit{\$\text{\$\exittitt{\$\text{\$\exittitt{\$\texittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107			888888888888888888888888	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187	\$\text{\$\exittit{\$\text{\$\exitittin}\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitint{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}}}}}\\$	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327			8888888888888888888888888888888	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402	\$\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exittit{\$\text{\$\exittitt{\$\text{\$\exittitt{\$\texittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402	\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407			888888888888888888888888888888888888888	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402 553,907	\$\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exittit{\$\text{\$\exittinx{\$\text{\$\exittitt{\$\texittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,906,683 2,349,597 1,910,859 1,222,187 898,402 553,907	\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034	\$ - \$ - \$ \$ - \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785				3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402 553,907 187,933	60 60<	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402 553,907 187,933	\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2032 2034 2035 NPV	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785 521,973,926	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785 \$21,973,926	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402 553,907 187,933 \$31,634,458	8 8	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,906,683 2,349,597 1,910,859 1,222,187 898,402 553,907 187,933 337,626,595	\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785 \$21,973,926
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 NPV 0	\$ - \$ - \$ \$ - \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785 521,973,926	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785 \$21,973,926 \$15,981,789	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402 553,907 187,933	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3,700,843 3,800,877 3,831,662 3,812,176 3,709,586 3,573,430 3,405,928 3,494,155 3,566,226 3,509,399 3,366,324 3,174,090 2,930,538 2,668,642 2,639,767 2,606,683 2,349,597 1,910,859 1,222,187 898,402 553,907 187,933 337,626,595 Benefits	\$	2,634,810 2,704,893 2,733,906 2,731,932 2,665,818 2,571,748 2,450,677 2,513,583 2,564,768 2,525,503 2,425,843 2,292,189 2,122,933 1,940,397 1,920,757 1,898,140 1,712,011 1,391,361 888,107 651,327 399,407 131,785

	:	School Based	Ener	gy Education									
Key Program Ir	nputs												
Program Year	Participants	Utility Costs		Participant Costs		Energy Impacts	Impacts (Avg. Max)						
2006	1,200	\$ 61,200	_	-		547,479	67						
2007	1,800	\$ 91,800		_	T	1,368,697	167						
2008	2,400	\$ 122,400		_		2,463,654	301						
2009	2,400	\$ 122,400		_		3,558,611	434						
2010	2,400	\$ 122,400		_		4,653,569	568						
2011	-	\$ -	\$	_		4,511,009	546						
2012	_	\$ -	\$	_	_	4,297,169	514						
2013	_	\$ -	\$	_	 	3,953,729	463						
2014		\$ -	\$			3,581,129	407						
2015	<u>-</u>	\$ -	\$			3,179,369	355						
2015			\$		<u> </u>	3,062,729	346						
2010	=	•		-	<u> </u>		336						
		\$ -	\$	-	<u> </u>	2,946,089							
2018	=	\$ -	\$	-	\vdash	2,946,089	336					<u> </u>	
2019	=	\$ -	\$	-	\vdash	2,946,089	336					<u> </u>	
2020	-	\$ -	\$	-	₩	2,946,089	336					<u> </u>	
2021	-	\$ -	\$	-	\vdash	2,635,163	301					<u> </u>	
2022	-	\$ -	\$	-	Щ	2,168,775	248					<u> </u>	
2023	=	\$ -	\$	-	Щ	1,546,925	177					<u> </u>	
2024	-	\$ -	\$	-	<u> </u>	925,074	106						
2025	-	\$ -	\$	-		303,223	35						
Cost-Effecti	iveness Test												
	sults												
Program	Total Resour	rce Cost Test		Utility Cost	: Te	st (UCT)	Participa	ınt	(PCT)	R	ate Impact I	Vlea	sure (RIM)
											_		_
	Costs	Benefits		Costs		Benefits	Costs		Benefits		Costs		Benefits
2006		\$ 18,839		61,200		18,839	\$ -	\$	38,457	\$	99,657	\$	18,839
2007	\$ 91,800	\$ 37,791	\$	91,800	\$	37,791	\$ -	\$	99,027	\$	190,827	\$	37,791
2008	\$ 122,400	\$ 74,609	\$	122,400	\$	74,609	\$ -	\$	183,595	\$	305,995	\$	74,609
2009	\$ 122,400	\$ 150,545	\$	122,400	\$	150,545	\$ -	\$	273,149	\$	395,549	\$	150,545
2010	\$ 122,400	\$ 174,978	\$	122,400	\$	174,978	\$ -	\$	367,911	\$	490,311	\$	174,978
2011	\$ -	\$ 205,519	\$	-	\$	205,519	\$ -	\$	367,339	\$	367,339	\$	205,519
2012	\$ -	\$ 201,582	\$	-	\$	201,582	\$ -	\$	360,424	\$	360,424	\$	201,582
2013	\$ -	\$ 190,917	' \$	-	\$	190,917	\$ -	\$	341,566	\$	341,566	\$	190,917
2014		\$ 177,969		-	\$	177,969				\$	318,658		177,969
2015	\$ -		_				\$ -	\$	318,658			\$	162,567
		I \$ 162,567	′ \$	-	\$	162,567				\$	291,396	\$ \$	
	\$ -	\$ 162,567 \$ 161,242		-	\$	162,567 161,242	\$ -	\$	291,396 289,127		291,396 289,127	\$	161,242
	•	\$ 161,242	2 \$		\$	161,242	\$ - \$ -	\$	291,396 289,127	\$	289,127	\$	
2017	\$ -	\$ 161,242 \$ 159,691	\$	-	\$	161,242 159,691	\$ - \$ - \$ -	\$	291,396 289,127 286,459	\$		\$	161,242 159,691 164,481
2017 2018	\$ - \$ -	\$ 161,242 \$ 159,691 \$ 164,481	2 \$ \$ \$	- - -	\$ \$ \$	161,242 159,691 164,481	\$ - \$ - \$ -	\$ \$	291,396 289,127 286,459 295,053	\$ \$	289,127 286,459 295,053	\$ \$ \$	159,691 164,481
2017 2018 2019	\$ - \$ - \$ -	\$ 161,242 \$ 159,691 \$ 164,481 \$ 169,416	\$ \$ \$ \$ \$	- - - -	\$ \$ \$	161,242 159,691 164,481 169,416	\$ - \$ - \$ - \$ - \$ -	\$ \$ \$	291,396 289,127 286,459 295,053 303,905	\$ \$ \$ \$	289,127 286,459 295,053 303,905	\$ \$ \$ \$	159,691 164,481 169,416
2017 2018 2019 2020	\$ - \$ - \$ - \$ -	\$ 161,242 \$ 159,691 \$ 164,481 \$ 169,416 \$ 174,498	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - -	\$ \$ \$ \$	161,242 159,691 164,481 169,416 174,498	\$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	291,396 289,127 286,459 295,053 303,905 313,022	\$ \$ \$ \$ \$ \$ \$	289,127 286,459 295,053 303,905 313,022	\$ \$ \$ \$ \$	159,691 164,481 169,416 174,498
2017 2018 2019 2020 2021	\$ - \$ - \$ - \$ - \$ -	\$ 161,242 \$ 159,697 \$ 164,487 \$ 169,416 \$ 174,498 \$ 160,764	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$	161,242 159,691 164,481 169,416 174,498 160,764	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	291,396 289,127 286,459 295,053 303,905 313,022 288,386	\$ \$ \$ \$ \$	289,127 286,459 295,053 303,905 313,022 288,386	\$ \$ \$ \$ \$	159,691 164,481 169,416 174,498 160,764
2017 2018 2019 2020 2021 2022	\$ - \$ - \$ - \$ - \$ -	\$ 161,242 \$ 159,697 \$ 164,487 \$ 169,416 \$ 174,498 \$ 160,764 \$ 136,287	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$	161,242 159,691 164,481 169,416 174,498 160,764 136,281	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	291,396 289,127 286,459 295,053 303,905 313,022 288,386 244,466	\$ \$ \$ \$ \$ \$ \$ \$ \$	289,127 286,459 295,053 303,905 313,022 288,386 244,466	\$ \$ \$ \$ \$ \$	159,691 164,481 169,416 174,498 160,764 136,281
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BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

State of Missouri) SS	
	AFFIDA	AVIT OF MATTHEW E. DAUNIS
that said testimony w were made as to the	eanying testimeras prepared by facts in said tell testimony an	first duly sworn, deposes and says that he is the witness who ony entitled "Surrebuttal Testimony of Matthew E. Daunis;" whim and under his direction and supervision; that if inquiries estimony and schedules, he would respond as therein set forth; d schedules are true and correct to the best of his knowledge,
Subscribed and sworn		Matthew E. Daunis Matthew E. Daunis this May of Mention, 2005. Notary Public Terry D. Lutes
My Commission expin	res:	
8-20	-2008	
		TERRY D. LUTES

Jackson County
My Commission Expires
August 20, 2008

County of Jackson