Exhibit No.:
Issues: DSM/Low Income Assistance
Witness: Matthew E. Daunis
Sponsoring Party: Aquila Networks-MPS And L&P
Case No.: ER-2005-0436

FILED[2]
FEB 2 4 2006
Missouri Public Service Commission

Before the Public Service Commission
of the State of Missouri

Surrebuttal Testimony

of

Matthew E. Daunis

Exhibit No. 29
Case No(s). ER-2005-0436
Date 1-09-06 Rptr RF

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 PLANNING..2

DEMAND SIE RESOURCES IN AQUILA NETWORKS-MISSOURI INTEGRATED RESOURCE PLAN.....5

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

Q. Please state your name and business address.

A. My name is Matthew E. Daunis. My business address is 10700 East 350 Highway, Kansas City, MO 64138.

Q. By whom are you presently employed and in what capacity?

A. I am employed as Manager of Energy Efficiency Programs for Aquila, Inc. I am testifying on behalf of Aquila, Inc. d/b/a Aquila Networks ("Aquila").

Q. What is your educational background?

A. I received a Bachelor's degree in Mechanical Engineering from the University of Maine in 1976. I received a Masters degree in Business Administration from the University of Nebraska in 1985.

Q. Please describe your professional experience.

A. I have been employed in the utility industry in positions requiring knowledge of Demand Side Management, customer service, and marketing for about 18 years. Prior to that, I was employed by a major HVAC manufacturer for ten years in various marketing and sales positions.

EXECUTIVE SUMMARY

Q. What is the purpose of your surrebuttal testimony?

A. The purpose of my surrebuttal testimony is to respond to the rebuttal testimony of Lena M. Mantle of the Missouri Public Service Commission ("MPSC") Staff with regard to the MPSC Staff's positions on Weatherization Assistance and other energy efficiency programs.

Q. What positions are you responding to?

A. Ms. Mantle indicates that the Staff's position is as follows:

- to accept a proposed increase in low-income weatherization program funding to $108,000 with fifty percent of the cost paid for by Aquila shareholders
- to accept a proposed increase in the Change a Light, Change the World program from $20,000 to $40,000 with fifty percent of the cost paid for by Aquila shareholders
- to accept a funding level of $75,000 for the Commercial Audit program with fifty percent of the cost paid for by Aquila shareholders
- to reject a residential energy efficiency program.

Q. How will you address these positions?

A. First, it is important that I address the nature of demand side resources and their relationship to supply side resources and integrated resource planning.

Second, I will describe how demand side management programs are selected through the 2005 Integrated Resource Plan (IRP).

Third, I will address recovery of the costs of these programs.

DEMAND SIDE RESOURCES AND INTEGRATED RESOURCE PLANNING

Q. Does the MPSC require that demand side resources be considered on an equivalent basis as supply side resources?

A. Yes. 4 CSR 240-22.010 (2)(A) states that in order to meet the objective of the resource planning process the utility shall "Consider and analyze demand-side efficiency and energy management measures on an equivalent basis with supply-side alternatives in the resource planning process."

Q. How is demand side resource load impact estimates incorporated into the resource plan?

A. The load impacts are incorporated in a manner consistent with a supply side resource. In order to meet the company's projected load requirements, portfolios of resources are developed. These portfolios contain supply side resources that provide additional generation at specified costs as well as demand side resources that reduce demand and energy requirements at specified costs.

Q. How does Aquila choose among the various portfolios that are developed?

A. The specifics of the decision process are beyond the scope of this testimony, however, in general terms the financial impact, rate impact, environmental impact and risk profile are considered. In accordance with 4 CSR 240-22.70 (6)(A), Aquila chooses a preferred 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 240-22.010 (2).

Q. Please summarize the requirements of 4 CSR 240-22.010 (2)?

A. The broad requirement is to provide the public with energy services that are safe, reliable and efficient, at just and reasonable rates, in a manner that serves the public interest. To meet this requirement the utility must assess tradeoffs and determine the appropriate

1 balance between minimization of expected utility costs and other considerations
2 including, but not limited to:
3 - Risks associated with critical uncertain factors that will affect the actual costs associated
4 with alternative resource plans;
5 - Risks associated with new or more stringent environmental laws or regulations that may
6 be imposed at some point within the planning horizon; and
7 - Rate increases associated with alternative resource plans.
8 Q. Did Aquila determine the appropriate demand side management programs to meet the
9 requirements of 4 CSR 240-22?
10 A. Yes. The "Aquila Networks State of Missouri Electric Demand-Side Management Plan,
11 2006-2010" (DSM Plan) develops the appropriate demand side management programs.
12 These were incorporated into the 2005 IRP.
13 Q. Are demand side management programs generally accepted as an integral component of
14 resource portfolios?
15 A. Yes. In addition to the requirements of the MPSC as I've outlined, they are actively
16 encouraged by both the National Association of Regulatory Utility Commissioners
17 (NARUC) and the Federal government. On July 23, 1999, NARUC adopted a resolution
18 entitled "Resolution Supporting Energy Efficiency and Load Management As Cost-
19 Effective Approaches to Reliability Concerns." In part the resolution reads:
20 "Resolved, That NARUC urges State public utility commissions to encourage
21 and support programs for cost-effective energy efficiency and load management

1 investments as both a short-term and long-term strategy for enhancing the
2 reliability of the nation's electric system, and reducing its costs."
3 The Federal government in Section 111(a) (7) of the Energy Policy act of 1992 states that
4 "Each electric utility shall employ integrated resource planning". Integrated resource
5 planning is defined as:
6 "a planning process for new energy resources that evaluates the full range of
7 alternatives, including new generating capacity, power purchases, energy
8 conservation and efficiency, cogeneration and district heating and cooling
9 applications, and renewable energy resources, in order to provide adequate and
10 reliable service to its electric customers at the lowest system cost. The process
11 shall take into account necessary features for system operation, such as diversity,
12 reliability, dispatchability, and other factors of risk; shall take into account the
13 ability to verify energy savings achieved through energy conservation and
14 efficiency and the projected durability of such savings measured over time; and
15 shall treat demand and supply resources on a consistent and integrated basis."
16 Q. Do you conclude that demand side resources are an accepted and appropriate component
17 of a utility's resource portfolio?
18 A. Yes.
19 **DEMAND SIDE RESOURCES IN AQUILA NETWORKS-MISSOURI INTEGRATED**
20 **RESOURCE PLAN**
21 Q. Does Ms. Mantle address each of the demand side programs that were incorporated in the
22 IRP?

A. No. Ms. Mantle only addresses a subset of the programs. Specifically, those that were proposed in the direct testimony of Missouri Department of Natural Resources witness Anita Randolph.

Q. Ms. Mantle indicates that she was unable to find how these or any other demand side programs impacted the Company's IRP (Mantle Rebuttal Testimony, page 4, lines 2-6). Please explain how they were incorporated.

A. The DSM Plan was developed as part of the IRP analysis. First, measures were bundled into resource options for portfolio analysis. Measures within the selected resource options were then incorporated into DSM programs. Table 3-8 of the IRP defines the DSM options that were used for portfolio development. Table 3-9 of the IRP illustrates that the DSM options that contained Residential, Commercial and Industrial measures screened at cost level A (less than $30 MWh) and cost level B (less than $45 MWh) resulted in the greatest reduction in cost for both the Least Cost Plan and the Preferred Plan. Schedule MED- 1 lists the programs that fall into these cost categories. These programs are described in more detail in Appendix A of the IRP, which is attached as my Schedule MED- 3.

Q. Is the Company proposing to only implement the programs referenced by Ms. Mantle?

A. No. The Company believes that the Preferred Portfolio, including all of the selected DSM programs, best meets the requirements of the Electric Utility Resource Planning rules that I outlined previously.

COST RECOVERY

Q. How does Ms. Mantle propose that the costs of the programs be recovered?

A. Ms. Mantle is proposing a 50/50 sharing of the costs between shareholders and ratepayers.

Q. Do you agree with her proposal?

A. No. Demand side resources are simply a component of the overall portfolio of resources that the Company acquires to meet its projected load requirements. There is no justification to require shareholders to bear the cost of either demand side or supply side resources. I believe that doing so would be in direct violation of the MPSC requirement to consider and analyze demand-side efficiency and energy management measures on an equivalent basis with supply-side alternatives, not to mention the possible confiscation issues.

Q. Is Aquila funding its energy efficiency programs with shareholder money currently?

A. Yes. In Case No. ER-2004-0034, the Company agreed to a stipulated resolution of the case. The stipulation called for shareholder funding of $93,500 per year until the next general rate case.

Q. Why are you not requesting any revenue requirement to fund the programs that were incorporated in the 2005 IRP?

A. The stipulation in Case No. ER-2004-0034 also established a collaborative work group to explore and propose appropriate cost recovery mechanisms for the DSM programs. Consequently, cost recovery was not included in this rate case. We have been working with the collaborative group, but have not reached a consensus on the appropriate recovery mechanism.

Q. Do you believe that a specific cost recovery mechanism is necessary for demand side resources?

A. Yes. Demand side resources are purchased in small increments, rarely large enough to warrant specific rate filings. This is unlike supply side resources that often trigger a rate increase at the time of completion. Consequently, other mechanisms are necessary for the cost recovery of demand side resources. These mechanisms generally fall into one of two categories. One approach is that the costs may be accumulated in a balance sheet account and amortized over a period of time, much like an accounting authority order. A second approach has been adopted in several jurisdictions. This approach matches a funding mechanism or tariff rider with the annual expenditures. Expenditures accumulate in a balancing account and are offset by the collections from the funding mechanism. The level of the funding mechanism is adjusted on a regular basis to maintain a balance in the balancing account that is near zero.

Q. Do you have examples of these various funding mechanisms?

A. Yes. Schedule MED – 2 is a compilation of the funding mechanisms in use across the country.

Q. Has the Federal government provided any guidance on appropriate cost recovery for DSM programs?

A. Yes, in both the 1992 and 2005 Energy Policy Acts. Section 111(a) (8) of the 1992 Energy Policy Act states:

> The rates allowed to be charged by a State regulated electric utility shall be such that the utility's investment in and expenditures for energy conservation, energy

1 efficiency resources, and other demand side management measures are at least as
2 profitable, giving appropriate consideration to income lost from reduced sales due
3 to investments in and expenditures for conservation and efficiency, as its
4 investments in and expenditures for the construction of new generation,
5 transmission, and distribution equipment. Such energy conservation, energy
6 efficiency resources and other demand side management measures shall be
7 appropriately monitored and evaluated.

8 Section 139 of the 2005 Energy Policy Act directs the Secretary of Energy in consultation
9 with NARUC and the National Association of State Energy Officials to conduct a study
10 that considers among other things:

11 Section 139 (a) (5) methods of—

12 (A) removing disincentives for utilities to implement energy efficiency
13 programs;

14 (B) encouraging utilities to undertake voluntary energy efficiency programs;
15 and

16 (C) ensuring appropriate returns on energy efficiency programs.

17 Q. Does a funding mechanism that requires a 50% shareholder contribution meet the criteria
18 set forth in either the 1992 or 2005 Energy Policy Acts?

19 A. No. Such a mechanism would clearly not allow the demand side programs to be "at least
20 as profitable" as the supply side programs as set forth in the 1992 Act, nor would it
21 ensure an appropriate return as set forth in the 2005 Act.

22 **SUMMARY**

Q. Please summarize your testimony.

A. My testimony demonstrates three points:

1) Demand side resources should be considered on an equivalent basis to supply side resources as directed by the MPSC and encouraged by both NARUC and Federal legislation,

2) The demand side programs referred to by Ms. Mantle were correctly analyzed, developed and incorporated into the 2005 IRP. In addition, the 2005 IRP identified programs that were not included in Ms. Mantle's testimony.

3) Ms. Mantle's proposed cost recovery mechanism is inconsistent with the directive to consider demand side resources on an equivalent basis with supply side resources and fails to allow the Company an opportunity to recover its costs and earn a return on its investment that is comparable to that which it would earn on a supply side resource. Demand side programs must be funded by a mechanism that meets this criteria.

Q. Does this conclude your surrebuttal testimony?

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**

Programs Included in Cost Categories A and B (*)	MWh Savings, 5th Year 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

Information was compiled from the Regulatory Assistance Project (RAP), the American Council for an Energy Efficiency Economy (ACE[3]) and the Southwest Energy Efficiency Project (SWEEP).

Aquila

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

Appendix A. Baseline Data

Econometric Forecast of Sales in GWh by Area

Year	MPS	SJD
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

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
2018	MPS	254,223
2019	MPS	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
2017	SJD	61,936
2018	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

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	Plug Load	New	100.00%
Single Family	Other	New	100.00%
Multi Family	Central Heat	New	77.47%
Multi Family	Room Heat	New	15.39%
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	Stock Efficiency Share	Standard Efficiency Share	High Efficiency Share	Premium Efficiency Share
Multi Family	Central AC	Electric	50%	40%	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%	45%	5%	
Single Family	Room AC	Electric	50%	45%	5%	
Single Family	Room Heat	Electric	100%			
Single Family	Water Heat	Electric	50%	45%	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

Building Type	End-Use	Fuel Type	Stock UEC	Standard UEC	Stock Efficiency	Standard 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	0.8	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	0.8	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

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

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

Year	Area	Number of 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	SJD	8,338
2012	SJD	8,480
2013	SJD	8,622
2014	SJD	8,764
2015	SJD	8,906
2016	SJD	9,048
2017	SJD	9,190
2018	SJD	9,332
2019	SJD	9,474
2020	SJD	9,616
2021	SJD	9,758
2022	SJD	9,900
2023	SJD	10,042
2024	SJD	10,184
2025	SJD	10,326

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

End-Use Saturations By Building Type and Vintage

Building Type	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

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

Building Type	End-Use	Vintage	Saturation
Miscellaneous	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	Saturation
Restaurant	Cooking	Existing	100.0%
Restaurant	Cooling_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_2L8T12	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

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

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

Building Type	End-Use	Fuel	Base Avg Electric Share	Base Marg Electric Share Existing	Base Marg Electric Share Conversion	Base Marg Electric Share 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%	100%	100%
Large Office	Space Heat	Electric	20%	20%	20%	20%
Large Office	Cooling Chillers	Electric	100%	100%	100%	100%
Large Office	Cooling DX	Electric	100%	100%	100%	100%
Large Office	Cooling HeatPump	Electric	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	Electric	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	Lighting 2L4T12	Electric	100%	100%	100%	100%
Restaurant	Lighting 2L8T12	Electric	100%	100%	100%	100%
Restaurant	Lighting 4L4T8	Electric	100%	100%	100%	100%
Restaurant	Lighting 3L4T8	Electric	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	Electric	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	Lighting INC75W	Electric	100%	100%	100%	100%
Retail	Lighting INC150W	Electric	100%	100%	100%	100%
Retail	Water Heat	Electric	58%	58%	58%	58%
Retail	Plug Load	Electric	100%	100%	100%	100%
Retail	Other	Electric	100%	100%	100%	100%

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

Building Type	End-Use	Fuel	Base Avg Electric Share	Base Marg Electric Share Existing	Base Marg Electric Share Conversion	Base Marg Electric Share 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%
Grocery	Lighting INC150W	Electric	100%	100%	100%	100%
Grocery	Water Heat	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)

Building Type	End-Use	Fuel	Base Avg Electric Share	Base Marg Electric Share Existing	Base Marg Electric Share Conversion	Base Marg Electric Share 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	End-Use	Fuel	Stock Efficiency	Standard Efficiency	High Efficiency	Premium Efficiency
Grocery	Cooking	Electric	90%	10%		
Grocery	Cooling Chillers	Electric	50%	40%	9%	1%
Grocery	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%			
Large Office	Ventilation	Electric	50%	40%	9%	1%
Large Office	Water Heat	Electric	50%	45%	5%	
Large Office	Space Heat	Gas	100%			
Large Office	Water 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
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	Lighting INC150W	Electric	100%			
Lodging	Lighting INC40W	Electric	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%			
Lodging	Ventilation	Electric	50%	40%	9%	1%
Lodging	Water Heat	Electric	50%	45%	5%	
Lodging	Cooking	Gas	100%			
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%			
Miscellaneous	Ventilation	Electric	50%	40%	9%	1%
Miscellaneous	Water Heat	Electric	50%	45%	5%	
Miscellaneous	Space Heat	Gas	100%			
Miscellaneous	Water Heat	Gas	100%			
Restaurant	Cooking	Electric	90%	10%		
Restaurant	Cooling Chillers	Electric	50%	40%	9%	1%
Restaurant	Cooling DX	Electric	50%	45%	5%	
Restaurant	Cooling HeatPump	Electric	50%	45%	5%	
Restaurant	Lighting 2L4T12	Electric	100%			
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%			
Restaurant	Water 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	Cooling DX	Electric	50%	45%	5%	
Retail	Cooling HeatPump	Electric	50%	45%	5%	
Retail	Lighting 2L4T12	Electric	100%			
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%			
Retail	Lighting INC150W	Electric	100%			
Retail	Lighting INC40W	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%			
School	Cooking	Electric	90%	10%		
School	Cooling Chillers	Electric	50%	40%	9%	1%
School	Cooling DX	Electric	50%	45%	5%	
School	Cooling HeatPump	Electric	50%	45%	5%	
School	Lighting 2L4T12	Electric	100%			
School	Lighting 2L4T8	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%			
School	Ventilation	Electric	50%	40%	9%	1%
School	Water Heat	Electric	50%	45%	5%	
School	Cooking	Gas	100%			
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	Lighting 4L4T12	Electric	100%			
Small Office	Lighting 4L4T8	Electric	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%			
Warehouse	Cooling Chillers	Electric	50%	40%	9%	1%
Warehouse	Cooling DX	Electric	50%	45%	5%	
Warehouse	Cooling HeatPump	Electric	50%	45%	5%	
Warehouse	Lighting 2L4T12	Electric	100%			
Warehouse	Lighting 2L4T8	Electric	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	Standard Eff
Small_Office	Space_Heat	Electric	6.18	6.18	1	1
Small_Office	Cooling_Chillers	Electric	4.19	3.56	0.85	1
Small_Office	Cooling_DX	Electric	4.19	3.77	0.9	1
Small_Office	Cooling_HeatPump	Electric	4.19	3.77	0.9	1
Small_Office	Ventilation	Electric	1.43	1.43	1	1
Small_Office	Lighting_4L4T12	Electric	5.29	5.29	1	1
Small_Office	Lighting_3L4T12	Electric	5.29	5.29	1	1
Small_Office	Lighting_2L4T12	Electric	5.29	5.29	1	1
Small_Office	Lighting_2L8T12	Electric	5.29	5.29	1	1
Small_Office	Lighting_4L4T8	Electric	4.24	4.24	1	1
Small_Office	Lighting_3L4T8	Electric	4.24	4.24	1	1
Small_Office	Lighting_2L4T8	Electric	4.24	4.24	1	1
Small_Office	Lighting_INC40W	Electric	5.29	5.29	1	1
Small_Office	Lighting_INC75W	Electric	5.29	5.29	1	1
Small_Office	Lighting_INC150W	Electric	5.29	5.29	1	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	1
Large_Office	Ventilation	Electric	1.43	1.43	1	1
Large_Office	Lighting_4L4T12	Electric	5.29	5.29	1	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	1
Restaurant	Cooling_DX	Electric	4.49	4.04	0.9	1
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	1
Restaurant	Refrigeration	Electric	7.67	7.67	1	1
Restaurant	Cooking	Electric	25.07	25.07	1	1
Restaurant	Plug_Load	Electric	0.23	0.23	1	1
Restaurant	Other	Electric	0.00	0.00	1	1
Retail	Space_Heat	Electric	4.59	4.59	1	1
Retail	Cooling_Chillers	Electric	3.14	2.67	0.85	1
Retail	Cooling_DX	Electric	3.14	2.83	0.9	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
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
Retail	Lighting_3L4T8	Electric	4.71	4.71	1	1
Retail	Lighting_2L4T8	Electric	4.71	4.71	1	1
Retail	Lighting_INC40W	Electric	5.89	5.89	1	1
Retail	Lighting_INC75W	Electric	5.89	5.89	1	1
Retail	Lighting_INC150W	Electric	5.89	5.89	1	1
Retail	Water_Heat	Electric	1.01	0.96	0.95	1
Retail	Plug_Load	Electric	0.15	0.15	1	1
Retail	Other	Electric	0.00	0.00	1	1

EUIs by Building Type, End-Use and Fuel

Building Type	End-Use	Fuel	Stock EUI	Standard EUI	Stock Eff	Standard Eff
Grocery	Space_Heat	Electric	5.42	5.42	1	1
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	Electric	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	12.76	1	1
Grocery	Water_Heat	Electric	2.40	2.28	0.95	1
Grocery	Refrigeration	Electric	28.13	28.13	1	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	Electric	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	Lighting_INC150W	Electric	2.94	2.94	1	1
Warehouse	Water_Heat	Electric	0.42	0.40	0.95	1
Warehouse	Refrigeration	Electric	10.45	10.45	1	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	Electric	2.68	2.68	1	1
School	Water_Heat	Electric	0.90	0.85	0.95	1
School	Refrigeration	Electric	0.48	0.48	1	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	Water_Heat	Electric	2.27	2.16	0.95	1
Health	Refrigeration	Electric	0.65	0.65	1	1
Health	Cooking	Electric	4.33	4.33	1	1
Health	Plug_Load	Electric	0.52	0.52	1	1
Health	Other	Electric	0.00	0.00	1	1

EUIs by Building Type, End-Use and Fuel

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	Space_Heat	Gas	47.98	47.98	1	1
Restaurant	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
Grocery	Water_Heat	Gas	27.31	27.31	1	1
Grocery	Cooking	Gas	50.64	50.64	1	1
Warehouse	Space_Heat	Gas	55.82	55.82	1	1
Warehouse	Water_Heat	Gas	3.63	3.63	1	1
School	Space_Heat	Gas	49.16	49.16	1	1
School	Water_Heat	Gas	10.76	10.76	1	1
School	Cooking	Gas	8.76	8.76	1	1
Health	Space_Heat	Gas	112.32	112.32	1	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	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.041	4.10	0.03	0.04	$0.00	$0.00	A	A
MPS	Grocery	Cooling_Chillers	Electric	Stock	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	A	A
MPS	Grocery	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	A	A
MPS	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	VSD Cooling Tower, 300 Tons	18.0%	$ 0.06	15	50.0%	90.0%	45.0%	0.738	3.66	0.30	0.66	$0.01	$0.01	A	A
MPS	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	A
MPS	Grocery	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	E	E
MPS	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.49	15	50.0%	80.0%	40.0%	0.492	3.19	0.15	0.38	$0.12	$0.16	F	F
MPS	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
MPS	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	100.0%	50.0%	0.410	2.88	0.14	0.29	$0.15	$0.22	F	F
MPS	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	Chiller Tune-Up / Diagnostics	5.0%	$ 0.12	5	100.0%	90.0%	90.0%	0.205	2.74	0.12	0.14	$0.16	$0.24	F	F
MPS	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
MPS	Grocery	Cooling_Chillers	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	2.59	0.01	0.05	$0.30	$0.47	F	F
MPS	Grocery	Cooling_Chillers	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	2.59	0.00	0.02	$0.69	$1.10	F	F
MPS	Grocery	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	Grocery	Cooling_DX	Electric	Stock	Existing	4.1	Clock / Programmable Thermostat	10.0%	$ 0.07	10	100.0%	84.7%	84.7%	0.410	4.09	0.35	0.41	$0.03	$0.03	A	A
MPS	Grocery	Cooling_DX	Electric	Stock	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	B	B
MPS	Grocery	Cooling_DX	Electric	Stock	Existing	4.1	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.041	3.61	0.00	0.04	$0.10	$0.12	F	F
MPS	Grocery	Cooling_DX	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	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
MPS	Grocery	Cooling_DX	Electric	Stock	Existing	4.1	DX Tune-Up / Diagnostics	10.0%	$ 0.25	3	100.0%	90.0%	90.0%	0.410	2.91	0.26	0.29	$0.26	$0.37	F	F
MPS	Grocery	Cooling_DX	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	2.85	0.01	0.06	$0.30	$0.46	F	F
MPS	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	F
MPS	Grocery	Cooling_HeatPump	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	Grocery	Cooling_HeatPump	Electric	Stock	Existing	4.1	Clock / Programmable Thermostat	10.0%	$ 0.07	10	100.0%	84.7%	84.7%	0.410	4.09	0.35	0.41	$0.03	$0.03	A	A
MPS	Grocery	Cooling_HeatPump	Electric	Stock	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	B	B
MPS	Grocery	Cooling_HeatPump	Electric	Stock	Existing	4.1	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.041	3.61	0.00	0.04	$0.10	$0.12	F	F
MPS	Grocery	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	Grocery	Cooling_HeatPump	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	Grocery	Cooling_HeatPump	Electric	Stock	Existing	4.1	DX Tune-Up / Diagnostics	10.0%	$ 0.25	3	100.0%	90.0%	90.0%	0.410	2.91	0.26	0.29	$0.26	$0.37	F	F
MPS	Grocery	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	Grocery	Cooling_HeatPump	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	Grocery	Lighting_2L4T12	Electric	Stock	Existing	12.76	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	7	10.0%	100.0%	10.0%	3.828	12.76	0.38	3.83	$0.02	$0.02	A	A
MPS	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	A	A
MPS	Grocery	Lighting_2L4T12	Electric	Stock	Existing	12.76	4' 2L T8 Premium, EB	25.0%	$ 0.78	12	33.3%	100.0%	33.3%	3.190	12.76	1.06	3.19	$0.03	$0.03	B	B
MPS	Grocery	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	C
MPS	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
MPS	Grocery	Lighting_2L4T8	Electric	Stock	Existing	10.21	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	7	10.0%	100.0%	10.0%	3.063	10.21	0.31	3.06	$0.03	$0.03	B	B
MPS	Grocery	Lighting_2L4T8	Electric	Stock	Existing	10.21	4' 2L T8 Premium, EB	8.5%	$ 0.28	12	100.0%	100.0%	100.0%	0.868	10.21	0.87	0.87	$0.04	$0.04	B	B
MPS	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	8' 2L T8, EB	52.8%	$ 0.37	12	50.0%	100.0%	50.0%	6.737	12.76	3.37	6.74	$0.01	$0.01	A	A
MPS	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.82	12	25.0%	100.0%	25.0%	7.056	12.76	1.76	7.06	$0.02	$0.02	A	A
MPS	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	8' 2L T12, 60W, EB	10.8%	$ 0.18	12	25.0%	54.2%	13.6%	1.349	12.76	0.18	1.35	$0.02	$0.02	A	A
MPS	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.58	7	10.0%	100.0%	10.0%	3.828	12.76	0.38	3.83	$0.03	$0.03	B	B
MPS	Grocery	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	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
MPS	Grocery	Lighting_3L4T12	Electric	Stock	Existing	12.76	4' 3L T8, EB	22.6%	$ 0.08	12	75.0%	100.0%	75.0%	2.885	12.76	2.16	2.88	$0.00	$0.00	A	A
MPS	Grocery	Lighting_3L4T12	Electric	Stock	Existing	12.76	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.35	12	40.0%	100.0%	40.0%	6.768	12.76	2.71	6.77	$0.01	$0.01	A	A
MPS	Grocery	Lighting_3L4T12	Electric	Stock	Existing	12.76	4' 3L T8 Premium, EB	22.6%	$ 0.16	12	75.0%	100.0%	75.0%	2.885	12.76	2.16	2.88	$0.01	$0.01	A	A
MPS	Grocery	Lighting_3L4T8	Electric	Stock	Existing	10.21	4' 3L T8 Premium, EB	6.7%	$ 0.42	12	100.0%	100.0%	100.0%	0.684	10.21	0.68	0.68	$0.09	$0.09	E	E
MPS	Grocery	Lighting_4L4T12	Electric	Stock	Existing	12.76	4' 3L T8, EB	38.2%	$ 0.10	12	16.7%	100.0%	16.7%	4.874	12.76	0.81	4.87	$0.00	$0.00	A	A
MPS	Grocery	Lighting_4L4T12	Electric	Stock	Existing	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
MPS	Grocery	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	A	A
MPS	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	A
MPS	Grocery	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
MPS	Grocery	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	A
MPS	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
MPS	Grocery	Lighting_4L4T12	Electric	Stock	Existing	12.76	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.90	8	26.0%	100.0%	26.0%	9.570	12.76	2.49	9.57	$0.08	$0.08	E	E
MPS	Grocery	Lighting_4L4T8	Electric	Stock	Existing	10.21	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.52	7	10.0%	100.0%	10.0%	3.063	10.21	0.31	3.06	$0.03	$0.03	B	B
MPS	Grocery	Lighting_4L4T8	Electric	Stock	Existing	10.21	4' 4L T8 Premium, EB	3.8%	$ 0.30	12	100.0%	100.0%	100.0%	0.368	10.21	0.37	0.37	$0.11	$0.11	F	F
MPS	Grocery	Lighting_INC150W	Electric	Stock	Existing	12.76	Halogen PAR Flood, 90W	40.0%	$ 0.33	1	10.0%	89.6%	10.0%	5.104	12.76	0.51	5.10	$0.08	$0.08	E	E
MPS	Grocery	Lighting_INC150W	Electric	Stock	Existing	12.76	HPS, 50W	56.0%	$ 8.99	4	45.0%	94.3%	42.4%	7.146	12.76	3.03	7.15	$0.41	$0.41	F	F
MPS	Grocery	Lighting_INC150W	Electric	Stock	Existing	12.76	Metal Halide, 50W	52.0%	$ 17.82	4	45.0%	94.3%	42.4%	6.635	12.76	2.82	6.64	$0.87	$0.87	F	F
MPS	Grocery	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	Grocery	Lighting_INC75W	Electric	Stock	Existing	12.76	CFL Screw-in, Modular 18W	65.3%	$ 2.36	3	90.0%	95.4%	85.8%	8.332	12.76	7.15	8.33	$0.12	$0.12	F	F
MPS	Grocery	Plug_Load	Electric	Stock	Existing	0.41	Smart Networks	8.6%	$ 0.00	4	80.0%	40.0%	36.0%	0.027	0.41	0.01	0.03	$0.01	$0.01	A	A
MPS	Grocery	Plug_Load	Electric	Stock	Existing	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	A	B
MPS	Grocery	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	C	D
MPS	Grocery	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	E
MPS	Grocery	Plug_Load	Electric	Stock	Existing	0.41	ENERGY STAR or Better Office Equipment: Copiers	9.7%	$ 0.01	4	100.0%	65.0%	65.0%	0.040	0.29	0.02	0.03	$0.10	$0.14	F	F
MPS	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
MPS	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Anti-Sweat (Humidistat) Controls	5.0%	$ 0.02	12	100.0%	48.0%	48.0%	1.404	27.38	0.65	1.37	$0.00	$0.00	A	A
MPS	Grocery	Refrigeration	Electric	Stock	Existing	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	A	A
MPS	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Installation of Floating Condenser Head Pressure Controls	6.8%	$ 0.12	14	100.0%	44.4%	44.4%	1.921	25.71	0.78	1.76	$0.01	$0.01	A	A
MPS	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Strip Curtains for Walk-Ins	4.0%	$ 0.05	4	100.0%	30.0%	30.0%	1.132	24.93	0.30	1.00	$0.01	$0.02	A	A
MPS	Grocery	Refrigeration	Electric	Stock	Existing	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	A	A
MPS	Grocery	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	A	A
MPS	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	B	B
MPS	Grocery	Refrigeration	Electric	Stock	Existing	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	B	C
MPS	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Reduced Speed or Cycling of Evaporator Fans	0.6%	$ 0.09	5	100.0%	80.0%	80.0%	0.155	20.29	0.09	0.11	$0.16	$0.22	F	F
MPS	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.108	5.42	0.01	0.11	$0.01	$0.01	A	A
MPS	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Duct Insulation	2.0%	$ 0.01	20	25.0%	71.5%	17.9%	0.108	5.41	0.02	0.11	$0.01	$0.01	A	A
MPS	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	50.0%	50.0%	1.626	5.39	0.81	1.62	$0.01	$0.01	A	A
MPS	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
MPS	Grocery	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	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	85.0%	42.5%	0.163	4.33	0.06	0.13	$0.16	$0.20	F	F
MPS	Grocery	Water_Heat	Electric	Stock	Existing	2.4	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.01	15	50.0%	100.0%	50.0%	0.120	2.40	0.06	0.12	$0.01	$0.01	A	A
MPS	Grocery	Water_Heat	Electric	Stock	Existing	2.4	Heat Pump Water Heater	30.0%	$ 0.84	15	75.0%	100.0%	75.0%	0.720	2.34	0.53	0.70	$0.14	$0.15	F	F
MPS	Grocery	Water_Heat	Electric	Stock	Existing	2.4	Demand controlled circulating systems	5.0%	$ 1.32	15	50.0%	100.0%	50.0%	0.120	1.81	0.05	0.09	$1.35	$1.79	F	F
MPS	Health	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	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.470	3.33	0.21	0.47	$0.00	$0.00	A	A
MPS	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	VSD Cooling Tower, 300 Tons	18.0%	$ 0.11	15	50.0%	90.0%	45.0%	0.605	3.12	0.25	0.56	$0.02	$0.02	A	A
MPS	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	A	B
MPS	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	High Efficiency Windows, Low-e; U=0.35	1.2%	$ 0.01	30	75.0%	66.0%	49.5%	0.039	2.86	0.02	0.03	$0.03	$0.04	B	B
MPS	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Installation of Energy Management Systems	10.0%	$ 0.27	10	50.0%	75.0%	37.5%	0.336	2.85	0.11	0.28	$0.13	$0.15	F	F
MPS	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
MPS	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.68	15	50.0%	80.0%	40.0%	0.403	2.60	0.12	0.31	$0.21	$0.27	F	F
MPS	Health	Cooling_Chillers	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	2.48	0.12	[illegible]	[illegible]	[illegible]	[illegible]	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	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	F
MPS	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.30	10	33.0%	50.0%	16.5%	0.168	2.25	0.02	0.11	$0.28	$0.42	F	F
MPS	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.21	20	50.0%	20.0%	10.0%	0.071	2.23	0.00	0.05	$0.32	$0.49	F	F
MPS	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
MPS	Health	Cooling_DX	Electric	Stock	Existing	3.36	Duct Insulation	3.0%	$ 0.01	20	25.0%	25.0%	6.3%	0.101	3.36	0.01	0.10	$0.01	$0.01	A	A
MPS	Health	Cooling_DX	Electric	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	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	B
MPS	Health	Cooling_DX	Electric	Stock	Existing	3.36	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.034	3.07	0.00	0.03	$0.13	$0.14	F	F
MPS	Health	Cooling_DX	Electric	Stock	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	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
MPS	Health	Cooling_DX	Electric	Stock	Existing	3.36	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.21	20	50.0%	20.0%	10.0%	0.071	2.74	0.01	0.06	$0.32	$0.39	F	F
MPS	Health	Cooling_DX	Electric	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	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	2.48	0.00	0.02	$0.75	$1.01	F	F
MPS	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36	Duct Insulation	3.0%	$ 0.01	20	25.0%	25.0%	6.3%	0.101	3.36	0.01	0.10	$0.01	$0.01	A	A
MPS	Health	Cooling_HeatPump	Electric	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	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	B	B
MPS	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.034	3.07	0.00	0.03	$0.13	$0.14	F	F
MPS	Health	Cooling_HeatPump	Electric	Stock	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	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
MPS	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.21	20	50.0%	20.0%	10.0%	0.071	2.74	0.01	0.06	$0.32	$0.39	F	F
MPS	Health	Cooling_HeatPump	Electric	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	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	2.48	0.00	0.02	$0.75	$1.01	F	F
MPS	Health	Lighting_2L4T12	Electric	Stock	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	Health	Lighting_2L4T12	Electric	Stock	Existing	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	B	B
MPS	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	B	B
MPS	Health	Lighting_2L4T12	Electric	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	C
MPS	Health	Lighting_2L4T12	Electric	Stock	Existing	10.77	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.74	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
MPS	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	B	B
MPS	Health	Lighting_2L4T8	Electric	Stock	Existing	8.62	4' 2L T8 Premium, EB	8.5%	$ 0.28	12	100.0%	100.0%	100.0%	0.733	8.62	0.73	0.73	$0.05	$0.05	C	C
MPS	Health	Lighting_2LBT12	Electric	Stock	Existing	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	Lighting_2LBT12	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	A	A
MPS	Health	Lighting_2LBT12	Electric	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	A	A
MPS	Health	Lighting_2LBT12	Electric	Stock	Existing	10.77	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.53	7	50.0%	90.0%	45.0%	3.231	10.77	1.45	3.23	$0.03	$0.03	B	B
MPS	Health	Lighting_2LBT12	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	E	E
MPS	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77	4' 1L T5HO, EB	46.1%	$ 0.01	12	75.0%	100.0%	75.0%	4.964	10.77	3.72	4.96	$0.00	$0.00	A	A
MPS	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77	4' 3L T8, EB	22.8%	$ 0.01	12	75.0%	100.0%	75.0%	2.435	10.77	1.83	2.43	$0.00	$0.00	A	A
MPS	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	A	A
MPS	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77	4' 3L T8 Premium, EB	22.6%	$ 0.03	12	75.0%	100.0%	75.0%	2.435	10.77	1.83	2.43	$0.00	$0.00	A	A
MPS	Health	Lighting_3L4T8	Electric	Stock	Existing	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	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
MPS	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77	4' 3L T8 Premium, EB	42.4%	$ 0.31	12	16.7%	100.0%	16.7%	4.562	10.77	0.76	4.56	$0.01	$0.01	A	A
MPS	Health	Lighting_4L4T12	Electric	Stock	Existing	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
MPS	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
MPS	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77	4' 2L T5HO, EB	18.8%	$ 0.28	12	16.7%	100.0%	16.7%	2.019	10.77	0.34	2.02	$0.02	$0.02	A	A
MPS	Health	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
MPS	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	B	B
MPS	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.84	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
MPS	Health	Lighting_4L4T8	Electric	Stock	Existing	8.62	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.51	7	50.0%	90.0%	45.0%	2.586	8.62	1.16	2.59	$0.04	$0.04	B	B
MPS	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
MPS	Health	Lighting_INC150W	Electric	Stock	Existing	10.77	Halogen PAR Flood, 90W	40.0%	$ 0.10	1	10.0%	95.0%	9.5%	4.308	10.77	0.41	4.31	$0.03	$0.03	A	A
MPS	Health	Lighting_INC150W	Electric	Stock	Existing	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
MPS	Health	Lighting_INC150W	Electric	Stock	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
MPS	Health	Lighting_INC40W	Electric	Stock	Existing	10.77	LED Exit Signs	80.0%	$ 0.17	20	90.0%	90.0%	81.0%	8.616	10.77	6.98	8.62	$0.00	$0.00	A	A
MPS	Health	Lighting_INC75W	Electric	Stock	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	Health	Plug_Load	Electric	Stock	Existing	0.52	Smart Networks	8.4%	$ 0.00	4	90.0%	40.0%	36.0%	0.033	0.52	0.01	0.03	$0.04	$0.04	B	B
MPS	Health	Plug_Load	Electric	Stock	Existing	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	F	F
MPS	Health	Plug_Load	Electric	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	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
MPS	Health	Plug_Load	Electric	Stock	Existing	0.52	ENERGY STAR or Better Office Equipment: Printers	13.2%	$ 0.11	4	100.0%	65.0%	65.0%	0.069	0.37	0.03	0.05	$0.53	$0.73	F	F
MPS	Health	Space_Heat	Electric	Stock	Existing	4.96	Duct Repair and Sealing	2.0%	$ 0.00	20	25.0%	50.0%	12.5%	0.099	4.96	0.01	0.10	$0.00	$0.00	A	A
MPS	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	A	A
MPS	Health	Space_Heat	Electric	Stock	Existing	4.96	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	70.0%	70.0%	1.488	4.93	1.04	1.48	$0.02	$0.02	A	A
MPS	Health	Space_Heat	Electric	Stock	Existing	4.96	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.21	20	50.0%	40.0%	20.0%	0.347	3.89	0.05	0.27	$0.07	$0.08	D	E
MPS	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
MPS	Health	Space_Heat	Electric	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	Health	Water_Heat	Electric	Stock	Existing	2.27	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.01	15	50.0%	80.0%	40.0%	0.114	2.27	0.05	0.11	$0.01	$0.01	A	A
MPS	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	F
MPS	Health	Water_Heat	Electric	Stock	Existing	2.27	Demand controlled circulating systems	5.0%	$ 8.20	15	50.0%	90.0%	45.0%	0.114	1.72	0.04	0.09	$6.73	$8.86	F	F
MPS	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.042	4.19	0.03	0.04	$0.00	$0.00	A	A
MPS	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	A	A
MPS	Large_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	A	A
MPS	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	VSD Cooling Tower, 300 Tons	18.0%	$ 0.07	15	50.0%	90.0%	45.0%	0.754	3.89	0.31	0.70	$0.01	$0.01	A	A
MPS	Large_Office	Cooling_Chillers	Electric	Stock	Existing	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	$0.02	A	A
MPS	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Energy Management Systems	10.0%	$ 0.18	10	50.0%	19.1%	9.5%	0.419	3.33	0.03	0.33	$0.07	$0.09	D	E
MPS	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.29	0.16	0.40	$0.11	$0.14	F	F
MPS	Large_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
MPS	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	2.99	0.13	0.15	$0.15	$0.20	F	F
MPS	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	56.9%	28.4%	0.419	2.84	0.08	0.28	$0.15	$0.22	F	F
MPS	Large_Office	Cooling_Chillers	Electric	Stock	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	Large_Office	Cooling_Chillers	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	2.74	0.00	0.06	$0.20	$0.30	F	F
MPS	Large_Office	Cooling_Chillers	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	2.74	0.00	0.02	$0.46	$0.70	F	F
MPS	Large_Office	Cooling_DX	Electric	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
MPS	Large_Office	Cooling_DX	Electric	Stock	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	A	A
MPS	Large_Office	Cooling_DX	Electric	Stock	Existing	4.19	Clock / Programmable Thermostat	10.0%	$ 0.06	10	100.0%	58.4%	58.4%	0.419	4.16	0.24	0.42	$0.02	$0.02	A	A
MPS	Large_Office	Cooling_DX	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
MPS	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
MPS	Large_Office	Cooling_DX	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	3.78	0.19	0.38	$0.11	$0.12	F	F
MPS	Large_Office	Cooling_DX	Electric	Stock	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
MPS	Large_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	Large_Office	Cooling_DX	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	Large_Office	Cooling_HeatPump	Electric	Stock	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	A	A
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19	Clock / Programmable Thermostat	10.0%	$ 0.06	10	100.0%	58.4%	58.4%	0.419	4.16	0.24	0.42	$0.02	$0.02	A	A
MPS	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
MPS	Large_Office	Cooling_HeatPump	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	Large_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	3.78	0.19	0.38	$0.11	$0.12	F	F
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	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					

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.18	20	50.0%	8.7%	4.4%	0.088	3.43	0.00	0.07	$0.20	$0.24	F	F
MPS	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
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.18	20	50.0%	8.7%	4.4%	0.038	3.12	0.00	0.03	$0.45	$0.52	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	$0.06	C	C
MPS	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
MPS	Large_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
MPS	Large_Office	Lighting_2L4T12	Electric	Stock	Existing	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
MPS	Large_Office	Lighting_2L4T12	Electric	Stock	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
MPS	Large_Office	Lighting_2L4T8	Electric	Stock	Existing	4.24	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	9	40.0%	79.6%	31.8%	1.272	4.24	0.40	1.27	$0.08	$0.08	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	Lighting_2L8T12	Electric	Stock	Existing	5.29	8' 2L T8, EB	52.8%	$ 0.96	16	50.0%	100.0%	50.0%	2.793	5.29	1.40	2.79	$0.02	$0.02	A	A
MPS	Large_Office	Lighting_2L8T12	Electric	Stock	Existing	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	B	B
MPS	Large_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29	8' 2L T12, 60W, EB	10.8%	$ 0.17	16	25.0%	26.6%	6.6%	0.559	5.29	0.04	0.56	$0.04	$0.04	B	B
MPS	Large_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.54	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	C
MPS	Large_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	Large_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 1L T5HO, EB	46.1%	$ 0.05	16	75.0%	100.0%	75.0%	2.438	5.29	1.83	2.44	$0.00	$0.00	A	A
MPS	Large_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	22.6%	$ 0.05	16	75.0%	100.0%	75.0%	1.196	5.29	0.90	1.20	$0.00	$0.00	A	A
MPS	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	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	A	A
MPS	Large_Office	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	$0.18	$0.18	F	F
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	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	A	A
MPS	Large_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	A	A
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 2L T5HO, EB	18.8%	$ 0.28	16	16.7%	100.0%	16.7%	0.992	5.29	0.17	0.99	$0.03	$0.03	B	B
MPS	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	B	B
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.52	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	C
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.83	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	$0.15	$0.15	F	F
MPS	Large_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
MPS	Large_Office	Lighting_4L4T8	Electric	Stock	Existing	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	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	E	E
MPS	Large_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	HPS, 50W	56.0%	$ 4.80	6	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
MPS	Large_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	Metal Halide, 50W	52.0%	$ 9.40	6	45.0%	93.9%	42.2%	2.751	5.29	1.16	2.75	$0.80	$0.80	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	Lighting_INC75W	Electric	Stock	Existing	5.29	CFL Screw-in, Modular 18W	68.3%	$ 2.25	5	90.0%	72.5%	65.2%	3.454	5.29	2.25	3.45	$0.18	$0.18	F	F
MPS	Large_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	A	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	Plug_Load	Electric	Stock	Existing	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	65.0%	65.0%	0.077	1.30	0.04	0.06	$0.14	$0.18	F	F
MPS	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	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	1.08	0.05	0.08	$0.26	$0.40	F	F
MPS	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.124	6.16	0.02	0.12	$0.01	$0.01	A	A
MPS	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	58.5%	58.5%	1.854	6.16	1.08	1.85	$0.01	$0.01	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	A	A
MPS	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	6.07	0.02	0.35	$0.04	$0.05	B	C
MPS	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.16	20	50.0%	12.9%	6.5%	0.185	5.05	0.01	0.15	$0.09	$0.11	E	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	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	Large_Office	Water_Heat	Electric	Stock	Existing	0.95	Heat Pump Water Heater	30.0%	$ 0.58	15	75.0%	100.0%	75.0%	0.285	0.94	0.21	0.28	$0.25	$0.25	F	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	Cooling_Chillers	Electric	Stock	Existing	2.83	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.028	2.83	0.02	0.03	$0.00	$0.00	A	A
MPS	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.396	2.81	0.18	0.39	$0.00	$0.00	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	A
MPS	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	High Efficiency Windows, Low-e; U=0.35	7.0%	$ 0.06	30	75.0%	92.9%	69.7%	0.199	2.42	0.12	0.17	$0.03	$0.03	A	B
MPS	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	Insulation of Pipes	1.0%	$ 0.03	20	50.0%	50.0%	25.0%	0.028	2.30	0.01	0.02	$0.13	$0.16	F	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	Cooling_Chillers	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	2.25	0.01	0.05	$0.19	$0.24	F	F
MPS	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	40.1%	20.0%	0.283	2.24	0.04	0.22	$0.22	$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	Cooling_Chillers	Electric	Stock	Existing	2.83	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	$ 0.48	10	50.0%	100.0%	50.0%	0.283	2.09	0.10	0.21	$0.26	$0.35	F	F
MPS	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
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	Cooling_Chillers	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	1.88	0.00	0.02	$0.44	$0.66	F	F
MPS	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
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	B	B
MPS	Lodging	Cooling_DX	Electric	Stock	Existing	2.83	Clock / Programmable Thermostat	10.0%	$ 0.10	10	100.0%	80.0%	80.0%	0.283	2.32	0.19	0.23	$0.05	$0.07	C	D
MPS	Lodging	Cooling_DX	Electric	Stock	Existing	2.83	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.16	30	75.0%	92.9%	69.7%	0.142	2.13	0.07	0.11	$0.10	$0.14	F	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	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
MPS	Lodging	Cooling_DX	Electric	Stock	Existing	2.83	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	40.0%	40.0%	0.425	2.05	0.12	0.31	$0.22	$0.30	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	$0.28	$0.38	F	F
MPS	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	$0.66	F	F
MPS	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	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	Cooling_HeatPump	Electric	Stock	Existing	2.83	Clock / Programmable Thermostat	10.0%	$ 0.10	10	100.0%	80.0%	80.0%	0.283	2.82	0.23	0.28	$0.05	$0.05	C	C
MPS	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.16	30	75.0%	92.9%	69.7%	0.142	2.60	0.08	0.13	$0.10	$0.11	F	F
MPS	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
MPS	Lodging	Cooling_HeatPump	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	2.51	0.01	0.05	$0.19	$0.21	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	40.0%	40.0%	0.425	2.50	0.15	0.37	$0.22	$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	Cooling_HeatPump	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	2.23	0.00	0.02	$0.44	$0.58	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	DX Tune-Up / Diagnostics	10.0%	$ 0.37	3	100.0%	90.0%	90.0%	0.283	2.23	0.20	0.22	$0.55	$0.70	F	F
MPS	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.22	15	20.0%	89.6%	17.9%	0.903	3.01	0.16	0.90	$0.03	$0.03	B	B
MPS	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	4' 1L T8 Premium, EB, reflector	61.1%	$ 0.78	26	33.3%	100.0%	33.3%	1.839	3.01	0.61	1.84	$0.04	$0.04	B	B
MPS	Lodging	Lighting_2L4T12	Electric	Stock	Existing	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	C
MPS	Lodging	Lighting_2L4T12	Electric	Stock	Existing	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
MPS	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 1.88	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	$0.09	$0.09	E	E
MPS	Lodging	Lighting_2L4T8	Electric	Stock	Existing	2.41	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.22	15	20.0%	89.6%	17.9%	0.723	2.41	0.13	0.72	$0.04	$0.04	B	B
MPS	Lodging	Lighting_2L4T8	Electric	Stock	Existing	2.41	4' 2L T8 Premium, EB	8.5%	$ 0.13	26	100.0%	100.0%	100.0%	0.205	2.41	0.20	0.20	$0.06	$0.06	D	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	A	A
MPS	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.40	26	25.0%	100.0%	25.0%	1.665	3.01	0.42	1.66	$0.02	$0.02	A	A
MPS	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	8' 2L T12, 60W, EB	10.8%	$ 0.09	26	25.0%	79.9%	20.0%	0.318	3.01	0.06	0.32	$0.03	$0.03	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	B	B
MPS	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.07	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	$0.10	$0.10	E	E
MPS	Lodging	Lighting_3L4T12	Electric	Stock	Existing	3.01	4' 1L T5HO, EB	46.1%	$ 0.02	26	75.0%	100.0%	75.0%	1.387	3.01	1.04	1.39	$0.00	$0.00	A	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	A	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	[illegible]	[illegible]	[illegible]	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Lodging	Lighting_3L4T12	Electric	Stock	Existing	3.01	4' 3L T8 Premium, EB	22.6%	$ 0.05	26	75.0%	100.0%	75.0%	0.681	3.01	0.51	0.68	$0.01	$0.01	A	A
MPS	Lodging	Lighting_3L4T8	Electric	Stock	Existing	2.41	4' 3L T8 Premium, EB	6.7%	$ 0.21	26	100.0%	100.0%	100.0%	0.161	2.41	0.16	0.16	$0.13	$0.13	F	F
MPS	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
MPS	Lodging	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 4L T8, EB	22.2%	$ 0.10	26	16.7%	100.0%	16.7%	0.669	3.01	0.11	0.67	$0.01	$0.01	A	A
MPS	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	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 2L T5HO, EB	18.8%	$ 0.14	26	16.7%	100.0%	16.7%	0.564	3.01	0.09	0.56	$0.02	$0.02	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 4L T8 Premium, EB	25.0%	$ 0.24	26	16.7%	100.0%	16.7%	0.753	3.01	0.13	0.75	$0.03	$0.03	B	B
MPS	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.26	15	20.0%	89.6%	17.9%	0.903	3.01	0.16	0.90	$0.03	$0.03	B	B
MPS	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
MPS	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	B	B
MPS	Lodging	Lighting_4L4T8	Electric	Stock	Existing	2.41	4' 4L T8 Premium, EB	3.6%	$ 0.15	26	100.0%	100.0%	100.0%	0.087	2.41	0.09	0.09	$0.16	$0.16	F	F
MPS	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
MPS	Lodging	Lighting_INC150W	Electric	Stock	Existing	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
MPS	Lodging	Lighting_INC150W	Electric	Stock	Existing	3.01	Metal Halide, 50W	52.0%	$ 3.88	9	45.0%	92.2%	41.5%	1.565	3.01	0.65	1.57	$0.42	$0.42	F	F
MPS	Lodging	Lighting_INC40W	Electric	Stock	Existing	3.01	LED Exit Signs	80.0%	$ 0.32	20	90.0%	90.0%	81.0%	2.408	3.01	1.95	2.41	$0.01	$0.01	A	A
MPS	Lodging	Lighting_INC75W	Electric	Stock	Existing	3.01	CFL Screw-in, Modular 18W	65.3%	$ 1.24	8	70.0%	72.5%	50.8%	1.966	3.01	1.00	1.97	$0.12	$0.12	F	F
MPS	Lodging	Plug_Load	Electric	Stock	Existing	0.1	Smart Networks	4.5%	$ 0.00	4	90.0%	40.0%	36.0%	0.005	0.10	0.00	0.00	$0.03	$0.03	A	A
MPS	Lodging	Plug_Load	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	B	B
MPS	Lodging	Plug_Load	Electric	Stock	Existing	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	$0.17	F	F
MPS	Lodging	Plug_Load	Electric	Stock	Existing	0.1	ENERGY STAR or Better Office Equipment: Computer	12.2%	$ 0.01	4	100.0%	65.0%	65.0%	0.012	0.08	0.01	0.01	$0.26	$0.33	F	F
MPS	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	$0.51	F	F
MPS	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.051	2.54	0.01	0.05	$0.01	$0.01	A	A
MPS	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Duct Insulation	2.0%	$ 0.01	20	25.0%	79.1%	19.8%	0.051	2.53	0.01	0.05	$0.03	$0.03	A	A
MPS	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Occupancy Sensor for room HVAC units	35.0%	$ 0.20	15	51.0%	100.0%	51.0%	0.889	2.52	0.45	0.88	$0.03	$0.03	A	A
MPS	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	B	B
MPS	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.11	20	50.0%	62.3%	31.1%	0.178	1.70	0.04	0.12	$0.06	$0.09	D	E
MPS	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.11	20	50.0%	62.3%	31.1%	0.076	1.67	0.02	0.05	$0.15	$0.22	F	F
MPS	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
MPS	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	B	B
MPS	Lodging	Water_Heat	Electric	Stock	Existing	2.79	Heat Pump Water Heater	30.0%	$ 3.47	15	75.0%	100.0%	75.0%	0.837	2.72	0.61	0.82	$0.51	$0.52	F	F
MPS	Lodging	Water_Heat	Electric	Stock	Existing	2.79	Demand controlled circulating systems	5.0%	$ 5.45	15	50.0%	100.0%	50.0%	0.140	2.11	0.05	0.11	$4.81	$6.36	F	F
MPS	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
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.335	2.37	0.15	0.33	$0.00	$0.00	A	A
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	VSD Cooling Tower, 300 Tons	18.0%	$ 0.05	15	50.0%	90.0%	45.0%	0.430	2.22	0.18	0.40	$0.01	$0.01	A	A
MPS	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	A	B
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Insulation of Pipes	1.0%	$ 0.01	20	50.0%	50.0%	25.0%	0.024	2.01	0.01	0.02	$0.04	$0.05	B	C
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Installation of Energy Management Systems	10.0%	$ 0.12	10	50.0%	100.0%	50.0%	0.239	2.01	0.10	0.20	$0.08	$0.09	E	E
MPS	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	0.09	0.23	$0.13	$0.16	F	F
MPS	Miscellaneous	Cooling_Chillers	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	1.82	0.09	0.18	$0.13	$0.17	F	F
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Chiller Tune-Up / Diagnostics	5.0%	$ 0.08	5	100.0%	90.0%	90.0%	0.120	1.73	0.08	0.09	$0.17	$0.24	F	F
MPS	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
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	76.3%	38.1%	0.239	1.63	0.05	0.16	$0.26	$0.38	F	F
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	40.2%	20.1%	0.050	1.57	0.01	0.03	$0.47	$0.71	F	F
MPS	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
MPS	Miscellaneous	Cooling_DX	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
MPS	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
MPS	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	B	B
MPS	Miscellaneous	Cooling_DX	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	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.024	2.12	0.00	0.02	$0.18	$0.20	F	F
MPS	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	79.7%	79.7%	0.359	2.12	0.25	0.32	$0.26	$0.29	F	F
MPS	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	DX Tune-Up / Diagnostics	10.0%	$ 0.18	3	100.0%	90.0%	90.0%	0.239	1.87	0.17	0.19	$0.28	$0.35	F	F
MPS	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	40.2%	20.1%	0.050	1.70	0.01	0.04	$0.47	$0.66	F	F
MPS	Miscellaneous	Cooling_DX	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	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
MPS	Miscellaneous	Cooling_HeatPump	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
MPS	Miscellaneous	Cooling_HeatPump	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	B	B
MPS	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	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.024	2.12	0.00	0.02	$0.18	$0.20	F	F
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	79.7%	79.7%	0.359	2.12	0.25	0.32	$0.26	$0.29	F	F
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	DX Tune-Up / Diagnostics	10.0%	$ 0.18	3	100.0%	90.0%	90.0%	0.239	1.87	0.17	0.19	$0.28	$0.35	F	F
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	40.2%	20.1%	0.050	1.70	0.01	0.04	$0.47	$0.66	F	F
MPS	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_2L4T12	Electric	Stock	Existing	2.12	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.43	21	20.0%	95.0%	19.0%	0.636	2.12	0.12	0.64	$0.07	$0.07	D	D
MPS	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
MPS	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	Miscellaneous	Lighting_2L4T12	Electric	Stock	Existing	2.12	4' 1L T5HO, EB	13.9%	$ 0.56	36	33.3%	100.0%	33.3%	0.295	2.12	0.10	0.29	$0.16	$0.16	F	F
MPS	Miscellaneous	Lighting_2L4T12	Electric	Stock	Existing	2.12	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.62	28	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	$0.22	$0.22	F	F
MPS	Miscellaneous	Lighting_2L4T8	Electric	Stock	Existing	1.7	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.43	21	20.0%	95.0%	19.0%	0.510	1.70	0.10	0.51	$0.09	$0.09	E	E
MPS	Miscellaneous	Lighting_2L4T8	Electric	Stock	Existing	1.7	4' 2L T8 Premium, EB	8.5%	$ 0.25	36	100.0%	100.0%	100.0%	0.145	1.70	0.14	0.14	$0.15	$0.15	F	F
MPS	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	0.58	1.12	$0.03	$0.03	A	A
MPS	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	C	C
MPS	Miscellaneous	Lighting_2L8T12	Electric	Stock	Existing	2.12	8' 2L T12, 60W, EB	10.6%	$ 0.17	36	25.0%	46.2%	11.5%	0.224	2.12	0.03	0.22	$0.07	$0.07	D	D
MPS	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	E
MPS	Miscellaneous	Lighting_2L8T12	Electric	Stock	Existing	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
MPS	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 1L T5HO, EB	46.1%	$ 0.03	36	75.0%	100.0%	75.0%	0.977	2.12	0.73	0.98	$0.00	$0.00	A	A
MPS	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 3L T8, EB	22.8%	$ 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_3L4T12	Electric	Stock	Existing	2.12	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.19	36	40.0%	100.0%	40.0%	1.125	2.12	0.45	1.12	$0.01	$0.01	A	A
MPS	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 3L T8 Premium, EB	22.8%	$ 0.08	36	75.0%	100.0%	75.0%	0.479	2.12	0.36	0.48	$0.02	$0.02	A	A
MPS	Miscellaneous	Lighting_3L4T8	Electric	Stock	Existing	1.7	4' 3L T8 Premium, EB	6.7%	$ 0.41	36	100.0%	100.0%	100.0%	0.114	1.70	0.11	0.11	$0.31	$0.31	F	F
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	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
MPS	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	A	A
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	2.12	4' 4L T8, EB	22.2%	$ 0.19	36	16.7%	100.0%	16.7%	0.471	2.12	0.08	0.47	$0.04	$0.04	B	B
MPS	Miscellaneous	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	C	C
MPS	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	C
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	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	E	E
MPS	Miscellaneous	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
MPS	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	F
MPS	Miscellaneous	Lighting_4L4T8	Electric	Stock	Existing	1.7	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.49	21	20.0%	95.0%	19.0%	0.510	1.70	0.10	0.51	$0.10	$0.10	F	F
MPS	Miscellaneous	Lighting_4L4T8	Electric	Stock	Existing	1.7	4' 4L T8 Premium, EB	3.6%	$ 0.28	36	100.0%	100.0%	100.0%	0.061	1.70	0.06	0.06	$0.40	$0.40	F	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%	0.848	2.12	0.08	0.85	$0.27	$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%	1.187	2.12	0.52	1.19	$0.62	$0.62	F	F
MPS	Miscellaneous	Lighting_INC150W	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 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	E	F
MPS	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	Smart Networks	8.9%	$ 0.01	4	90.0%	40.0%	36.0%	0.069	1.00	0.02	[illegible]	[illegible]	[illegible]	[illegible]	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	ENERGY STAR or Better Office Equipment: Copiers	11.4%	$ 0.04	4	100.0%	65.0%	65.0%	0.114	0.98	0.07	0.11	$0.12	$0.13	F	F
MPS	Miscellaneous	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
MPS	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	ENERGY STAR or Better Office Equipment: Computer	18.6%	$ 0.15	4	100.0%	65.0%	65.0%	0.186	0.80	0.10	0.15	$0.26	$0.32	F	F
MPS	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	ENERGY STAR or Better Office Equipment: Printers	9.2%	$ 0.11	4	100.0%	65.0%	65.0%	0.092	0.70	0.04	0.06	$0.38	$0.54	F	F
MPS	Miscellaneous	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
MPS	Miscellaneous	Space_Heat	Electric	Stock	Existing	2.76	Duct Insulation	2.0%	$ 0.01	20	25.0%	83.4%	20.9%	0.055	2.75	0.01	0.06	$0.02	$0.02	A	A
MPS	Miscellaneous	Space_Heat	Electric	Stock	Existing	2.76	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	41.8%	41.8%	0.828	2.74	0.34	0.82	$0.03	$0.03	A	A
MPS	Miscellaneous	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
MPS	Miscellaneous	Space_Heat	Electric	Stock	Existing	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	$0.25	$0.29	F	F
MPS	Miscellaneous	Space_Heat	Electric	Stock	Existing	2.76	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.22	20	50.0%	13.4%	6.7%	0.083	2.33	0.00	0.07	$0.28	$0.34	F	F
MPS	Miscellaneous	Water_Heat	Electric	Stock	Existing	1.65	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.01	15	50.0%	100.0%	50.0%	0.083	1.65	0.04	0.08	$0.01	$0.01	A	A
MPS	Miscellaneous	Water_Heat	Electric	Stock	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	Miscellaneous	Water_Heat	Electric	Stock	Existing	1.65	Demand controlled circulating systems	5.0%	$ 5.32	15	50.0%	100.0%	50.0%	0.083	1.25	0.03	0.06	$7.94	$10.51	F	F
MPS	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.045	4.49	0.03	0.04	$0.00	$0.00	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.02	30	50.0%	100.0%	50.0%	0.242	3.84	0.10	0.21	$0.01	$0.01	A	A
MPS	Restaurant	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	B	C
MPS	Restaurant	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
MPS	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.29	15	50.0%	80.0%	40.0%	0.539	3.54	0.17	0.42	$0.07	$0.08	D	E
MPS	Restaurant	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	E
MPS	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Chiller Tune-Up / Diagnostics	5.0%	$ 0.07	5	100.0%	90.0%	90.0%	0.225	3.20	0.14	0.16	$0.09	$0.12	E	F
MPS	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.13	10	33.0%	50.0%	16.5%	0.225	3.08	0.03	0.15	$0.09	$0.13	E	F
MPS	Restaurant	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	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	100.0%	50.0%	0.094	2.88	0.03	0.06	$0.25	$0.39	F	F
MPS	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.22	20	50.0%	100.0%	50.0%	0.040	2.85	0.01	0.03	$0.59	$0.93	F	F
MPS	Restaurant	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	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Clock / Programmable Thermostat	10.0%	$ 0.04	10	100.0%	80.4%	80.4%	0.449	4.48	0.36	0.45	$0.01	$0.01	A	A
MPS	Restaurant	Cooling_DX	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	$0.02	A	A
MPS	*Restaurant*	*Cooling_DX*	*Electric*	*Stock*	*Existing*	*4.49*	*Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)*	*10.0%*	*$ 0.18*	*10*	*50.0%*	*100.0%*	*50.0%*	*0.449*	*4.02*	*0.20*	*0.40*	*$0.07*	*$0.07*	*D*	*D*
MPS	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.045	3.82	0.00	0.04	$0.09	$0.11	E	F
MPS	Restaurant	Cooling_DX	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
MPS	Restaurant	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	$0.18	F	F
MPS	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	100.0%	50.0%	0.094	3.18	0.03	0.07	$0.25	$0.36	F	F
MPS	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.22	20	50.0%	100.0%	50.0%	0.040	3.15	0.01	0.03	$0.59	$0.84	F	F
MPS	Restaurant	Cooling_HeatPump	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	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Clock / Programmable Thermostat	10.0%	$ 0.04	10	100.0%	80.4%	80.4%	0.449	4.48	0.36	0.45	$0.01	$0.01	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	Cooling_HeatPump	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	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Duct Repair and Sealing	1.0%	$ 0.04	20	50.0%	50.0%	25.0%	0.045	3.82	0.01	0.04	$0.09	$0.11	E	F
MPS	Restaurant	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
MPS	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	DX Tune-Up / Diagnostics	10.0%	$ 0.15	3	100.0%	90.0%	90.0%	0.449	3.49	0.31	0.35	$0.14	$0.18	F	F
MPS	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	100.0%	50.0%	0.094	3.18	0.03	0.07	$0.25	$0.36	F	F
MPS	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.22	20	50.0%	100.0%	50.0%	0.040	3.14	0.01	0.03	$0.59	$0.84	F	F
MPS	Restaurant	Lighting_2L4T12	Electric	Stock	Existing	8.74	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.46	13	10.0%	95.7%	9.6%	2.622	8.74	0.25	2.62	$0.02	$0.02	A	A
MPS	Restaurant	Lighting_2L4T12	Electric	Stock	Existing	8.74	4' 1L T8 Premium, EB, reflector	61.1%	1.80	22	33.3%	100.0%	33.3%	5.341	8.74	1.78	5.34	$0.03	$0.03	B	B
MPS	Restaurant	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	$0.04	$0.04	B	B
MPS	Restaurant	Lighting_2L4T12	Electric	Stock	Existing	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	C	C
MPS	Restaurant	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
MPS	Restaurant	Lighting_2L4T8	Electric	Stock	Existing	6.99	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.48	13	10.0%	95.7%	9.6%	2.097	6.99	0.20	2.10	$0.03	$0.03	A	A
MPS	Restaurant	Lighting_2L4T8	Electric	Stock	Existing	6.99	4' 2L T8 Premium, EB	8.5%	$ 0.27	22	100.0%	100.0%	100.0%	0.594	6.99	0.59	0.59	$0.05	$0.05	C	C
MPS	Restaurant	Lighting_2L8T12	Electric	Stock	Existing	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
MPS	Restaurant	Lighting_2L8T12	Electric	Stock	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	A	A
MPS	Restaurant	Lighting_2L8T12	Electric	Stock	Existing	8.74	8' 2L T12, 60W, EB	10.6%	$ 0.18	22	25.0%	68.1%	17.0%	0.924	8.74	0.16	0.92	$0.02	$0.02	A	A
MPS	Restaurant	Lighting_2L8T12	Electric	Stock	Existing	8.74	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.58	13	10.0%	95.7%	9.6%	2.622	8.74	0.25	2.62	$0.03	$0.03	A	A
MPS	Restaurant	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	E
MPS	Restaurant	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	A	A
MPS	Restaurant	Lighting_3L4T12	Electric	Stock	Existing	8.74	4' 3L T8, EB	22.6%	$ 0.04	22	75.0%	100.0%	75.0%	1.976	8.74	1.48	1.98	$0.00	$0.00	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	Lighting_3L4T8	Electric	Stock	Existing	6.99	4' 3L T8 Premium, EB	6.7%	$ 0.43	22	100.0%	100.0%	100.0%	0.468	6.99	0.47	0.47	$0.09	$0.09	E	E
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 3L T8, EB	38.2%	$ 0.10	22	16.7%	100.0%	16.7%	3.339	8.74	0.56	3.34	$0.00	$0.00	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 4L T8, EB	22.2%	$ 0.21	22	16.7%	100.0%	16.7%	1.942	8.74	0.32	1.94	$0.01	$0.01	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.76	22	16.7%	100.0%	16.7%	5.463	8.74	0.91	5.46	$0.01	$0.01	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 2L T5HO, EB	18.8%	$ 0.29	22	16.7%	100.0%	16.7%	1.639	8.74	0.27	1.64	$0.02	$0.02	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	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	$0.03	A	A
MPS	*Restaurant*	*Lighting_4L4T12*	*Electric*	*Stock*	*Existing*	*8.74*	*Continuous Dimming, 5-4' Fluorescent Fixtures*	*75.0%*	*$ 4.01*	*16*	*12.0%*	*100.0%*	*12.0%*	*6.555*	*8.74*	*0.79*	*6.56*	*$0.07*	*$0.07*	*D*	*D*
MPS	Restaurant	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	B	B
MPS	Restaurant	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
MPS	Restaurant	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
MPS	Restaurant	Lighting_INC150W	Electric	Stock	Existing	8.74	HPS, 50W	56.0%	$ 5.10	6	45.0%	90.4%	40.7%	4.894	8.74	1.89	4.89	$0.19	$0.19	F	F
MPS	Restaurant	Lighting_INC150W	Electric	Stock	Existing	8.74	Metal Halide, 50W	52.0%	$ 8.99	6	45.0%	90.4%	40.7%	4.545	8.74	1.85	4.54	$0.41	$0.41	F	F
MPS	Restaurant	Lighting_INC40W	Electric	Stock	Existing	8.74	LED Exit Signs	80.0%	$ 0.08	20	90.0%	90.0%	81.0%	6.992	8.74	5.68	6.99	$0.00	$0.00	A	A
MPS	Restaurant	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	E
MPS	Restaurant	Plug_Load	Electric	Stock	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
MPS	Restaurant	Plug_Load	Electric	Stock	Existing	0.23	ENERGY STAR or Better Office Equipment: Monitors	16.3%	$ 0.02	4	100.0%	71.0%	71.0%	0.038	0.22	0.03	0.04	$0.13	$0.14	F	F
MPS	Restaurant	Plug_Load	Electric	Stock	Existing	0.23	ENERGY STAR or Better Office Equipment: Copiers	7.6%	$ 0.01	4	100.0%	65.0%	65.0%	0.018	0.20	0.01	0.02	$0.21	$0.24	F	F
MPS	Restaurant	Plug_Load	Electric	Stock	Existing	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
MPS	Restaurant	Plug_Load	Electric	Stock	Existing	0.23	ENERGY STAR or Better Office Equipment: Printers	15.0%	$ 0.04	4	100.0%	65.0%	65.0%	0.034	0.17	0.02	0.02	$0.34	$0.47	F	F
MPS	Restaurant	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	A	A
MPS	Restaurant	Refrigeration	Electric	Stock	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
MPS	Restaurant	Refrigeration	Electric	Stock	Existing	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	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	B	B
MPS	Restaurant	Refrigeration	Electric	Stock	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	C	C
MPS	Restaurant	Refrigeration	Electric	Stock	Existing	7.67	Demand Control Defrost - Hot Gas	2.5%	$ 0.07	10	100.0%	69.6%	69.6%	0.192	6.71	0.12	0.17	$0.05	$0.06	C	D
MPS	Restaurant	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	D	E
MPS	Restaurant	Refrigeration	Electric	Stock	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	$0.15	F	F
MPS	Restaurant	Refrigeration	Electric	Stock	Existing	7.67	High Efficiency Case Fans	12.0%	$ 1.16	16	100.0%	95.0%	95.0%	0.919	6.24	0.71	0.75	$0.15	$0.18	F	F
MPS	Restaurant	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	Restaurant	Space_Heat	Electric	Stock	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	A	A
MPS	Restaurant	Space_Heat	Electric	Stock	Existing	3.76	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	46.2%	46.2%	1.128	3.75	0.52	1.13	$0.02	$0.02	A	A
MPS	Restaurant	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	C	C
MPS	Restaurant	Space_Heat	Electric	Stock	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
MPS	Restaurant	Space_Heat	Electric	Stock	Existing	3.76	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.188	3.15	0.06				F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked 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%	33.5%	0.113	3.07	0.03	0.09	$0.21	$0.26	F	F
MPS	Restaurant	Water_Heat	Electric	Stock	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
MPS	Restaurant	Water_Heat	Electric	Stock	Existing	9.19	Heat Pump Water Heater	30.0%	$ 1.80	15	75.0%	100.0%	75.0%	2.757	8.96	2.02	2.69	$0.08	$0.08	E	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%	0.460	6.84	0.17	0.35	$0.76	$1.00	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	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	A	A
MPS	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.440	3.12	0.20	0.44	$0.00	$0.00	A	A
MPS	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	High Efficiency Windows, Low-e; U=0.35	10.3%	$ 0.03	30	75.0%	100.0%	75.0%	0.324	2.92	0.23	0.30	$0.01	$0.01	A	A
MPS	Retail	Cooling_Chillers	Electric	Stock	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
MPS	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Installation of Energy Management Systems	10.0%	$ 0.15	10	50.0%	100.0%	50.0%	0.314	2.48	0.12	0.25	$0.08	$0.10	E	E
MPS	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Insulation of Pipes	1.0%	$ 0.03	20	50.0%	50.0%	25.0%	0.031	2.35	0.01	0.02	$0.09	$0.12	E	F
MPS	Retail	Cooling_Chillers	Electric	Stock	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
MPS	Retail	Cooling_Chillers	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	2.23	0.11	0.22	$0.12	$0.17	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.17	10	33.0%	50.0%	16.5%	0.157	2.12	0.02	0.11	$0.17	$0.25	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	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	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	$0.36	$0.60	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	1.98	0.01	0.02	$0.89	$1.41	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	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
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	Cooling_DX	Electric	Stock	Existing	3.14	Clock / Programmable Thermostat	10.0%	$ 0.05	10	100.0%	50.0%	50.0%	0.314	3.13	0.16	0.31	$0.03	$0.03	A	A
MPS	Retail	Cooling_DX	Electric	Stock	Existing	3.14	Duct Insulation	3.0%	$ 0.03	20	25.0%	25.0%	6.3%	0.094	2.97	0.01	0.09	$0.04	$0.04	B	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	B	C
MPS	Retail	Cooling_DX	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	2.85	0.14	0.29	$0.12	$0.14	F	F
MPS	Retail	Cooling_DX	Electric	Stock	Existing	3.14	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.031	2.71	0.00	0.03	$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	Cooling_DX	Electric	Stock	Existing	3.14	DX Tune-Up / Diagnostics	10.0%	$ 0.20	3	100.0%	90.0%	90.0%	0.314	2.33	0.21	0.23	$0.26	$0.35	F	F
MPS	Retail	Cooling_DX	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	2.12	0.02	0.04	$0.38	$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	Cooling_HeatPump	Electric	Stock	Existing	3.14	Duct Insulation	3.0%	$ 0.03	20	25.0%	25.0%	6.3%	0.094	2.98	0.01	0.09	$0.04	$0.04	B	B
MPS	Retail	Cooling_HeatPump	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	2.98	0.11	0.15	$0.05	$0.05	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	0.28	$0.12	$0.13	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	Existing	3.14	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.031	2.72	0.00	0.03	$0.14	$0.16	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	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	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	Cooling_HeatPump	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	2.13	0.02	0.04	$0.38	$0.56	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	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
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	B	B
MPS	Retail	Lighting_2L4T12	Electric	Stock	Existing	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	C	C
MPS	Retail	Lighting_2L4T12	Electric	Stock	Existing	5.89	4' 2L T8 Premium, EB	25.0%	$ 0.68	25	33.3%	100.0%	33.3%	1.473	5.89	0.49	1.47	$0.06	$0.06	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	E
MPS	Retail	Lighting_2L4T12	Electric	Stock	Existing	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	Lighting_2L4T8	Electric	Stock	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	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	Lighting_2L8T12	Electric	Stock	Existing	5.89	8' 2L T8, EB	52.8%	$ 0.44	25	50.0%	100.0%	50.0%	3.110	5.89	1.55	3.11	$0.01	$0.01	A	A
MPS	Retail	Lighting_2L8T12	Electric	Stock	Existing	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
MPS	Retail	Lighting_2L8T12	Electric	Stock	Existing	5.89	8' 2L T12, 60W, EB	10.6%	$ 0.21	25	25.0%	95.4%	23.9%	0.623	5.89	0.15	0.62	$0.03	$0.03	B	B
MPS	Retail	Lighting_2L8T12	Electric	Stock	Existing	5.89	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.87	14	10.0%	100.0%	10.0%	1.767	5.89	0.18	1.77	$0.05	$0.05	C	C
MPS	Retail	Lighting_2L8T12	Electric	Stock	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
MPS	Retail	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 1L T5HO, EB	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	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 3L T8, EB	22.6%	$ 0.11	25	75.0%	100.0%	75.0%	1.332	5.89	1.00	1.33	$0.01	$0.01	A	A
MPS	Retail	Lighting_3L4T12	Electric	Stock	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	A	A
MPS	Retail	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 3L T8 Premium, EB	22.6%	$ 0.31	25	75.0%	100.0%	75.0%	1.332	5.89	1.00	1.33	$0.02	$0.02	A	A
MPS	Retail	Lighting_3L4T8	Electric	Stock	Existing	4.71	4' 3L T8 Premium, EB	6.7%	$ 0.49	25	100.0%	100.0%	100.0%	0.316	4.71	0.32	0.32	$0.15	$0.15	F	F
MPS	Retail	Lighting_4L4T12	Electric	Stock	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
MPS	Retail	Lighting_4L4T12	Electric	Stock	Existing	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	Lighting_4L4T12	Electric	Stock	Existing	5.89	4' 4L T8, EB	22.2%	$ 0.23	25	16.7%	100.0%	16.7%	1.309	5.89	0.22	1.31	$0.02	$0.02	A	A
MPS	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.83	25	16.7%	100.0%	16.7%	3.681	5.89	0.61	3.68	$0.02	$0.02	A	A
MPS	Retail	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
MPS	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	4' 4L T8 Premium, EB	25.0%	$ 0.55	25	16.7%	100.0%	16.7%	1.473	5.89	0.25	1.47	$0.04	$0.04	B	B
MPS	Retail	Lighting_4L4T12	Electric	Stock	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	B	B
MPS	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 4.37	18	50.0%	100.0%	50.0%	4.418	5.89	2.21	4.42	$0.11	$0.11	F	F
MPS	Retail	Lighting_4L4T8	Electric	Stock	Existing	4.71	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.58	14	10.0%	100.0%	10.0%	1.413	4.71	0.14	1.41	$0.05	$0.05	C	C
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	Lighting_INC150W	Electric	Stock	Existing	5.89	Halogen PAR Flood, 90W	40.0%	$ 0.19	1	10.0%	99.3%	9.9%	2.358	5.89	0.23	2.35	$0.09	$0.09	E	E
MPS	Retail	Lighting_INC150W	Electric	Stock	Existing	5.89	HPS, 50W	56.0%	$ 5.13	8	45.0%	91.8%	41.2%	3.298	5.89	1.36	3.30	$0.29	$0.29	F	F
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	Lighting_INC40W	Electric	Stock	Existing	5.89	LED Exit Signs	80.0%	$ 0.06	20	90.0%	90.0%	81.0%	4.712	5.89	3.82	4.71	$0.00	$0.00	A	A
MPS	Retail	Lighting_INC75W	Electric	Stock	Existing	5.89	CFL Screw-in, Modular 18W	65.3%	$ 2.80	7	50.0%	75.0%	37.5%	3.846	5.89	1.44	3.85	$0.15	$0.15	F	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	Plug_Load	Electric	Stock	Existing	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	Plug_Load	Electric	Stock	Existing	0.15	ENERGY STAR or Better Office Equipment: Copiers	8.6%	$ 0.01	4	100.0%	65.0%	65.0%	0.014	0.13	0.01	0.01	$0.12	$0.13	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	Plug_Load	Electric	Stock	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
MPS	Retail	Space_Heat	Electric	Stock	Existing	4.59	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.092	4.59	0.01	0.09	$0.01	$0.01	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	Space_Heat	Electric	Stock	Existing	4.59	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	50.0%	50.0%	1.377	4.56	0.68	1.37	$0.02	$0.02	A	A
MPS	Retail	Space_Heat	Electric	Stock	Existing	4.59	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.24	20	50.0%	55.7%	27.9%	0.321	3.88	0.08	0.27	$0.08	$0.09	E	E
MPS	Retail	Space_Heat	Electric	Stock	Existing	4.59	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.230	3.80	0.09	0.19	$0.15	$0.18	F	F
MPS	Retail	Space_Heat	Electric	Stock	Existing	4.59	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	55.7%	27.9%	0.138	3.70	0.03	0.11	$0.18	$0.23	F	F
MPS	Retail	Water_Heat	Electric	Stock	Existing	1.01	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.03	15	50.0%	100.0%	50.0%	0.051	1.01	0.03	0.05	$0.06	$0.06	D	D
MPS	Retail	Water_Heat	Electric	Stock	Existing	1.01	Heat Pump Water Heater	30.0%	$ 2.49	15	75.0%	100.0%	75.0%	0.303	0.98	0.22	0.30	$1.01	$1.04	F	F
MPS	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
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.015	1.51	0.01	0.02	$0.00	$0.00	A	A
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.211	1.50	0.09	0.21	$0.00	$0.00	A	A
MPS	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	A	A
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	High Efficiency Windows, Low-e; U=0.35	3.9%	$ 0.02	30	75.0%	66.0%	49.5%	0.059	1.29	0.02	0.05	$0.03	$0.03	A	B
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Insulation of Pipes	1.0%	$ 0.02	20	50.0%	50.0%	25.0%	0.015	1.27	0.00	0.01	$0.11	$0.13	F	F
MPS	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
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.34	15	50.0%	80.0%	40.0%	0.181	1.22	0.08	0.15	$0.23	$0.28	F	F
MPS	School	Cooling_Chillers	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	1.18	0.06	0.12	$0.23	$0.30	F	F
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Chiller Tune-Up / Diagnostics	5.0%	$ 0.08	5	100.0%	90.0%	90.0%	0.076	1.10	0.05	0.06	$0.30	$0.42	F	F
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.15	10	33.0%	50.0%	16.5%	0.076	1.05	0.01	0.05	$0.31	$0.45	F	F
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	81.3%	40.6%	0.151	1.04	0.04	0.10	$0.42	$0.60	F	F
MPS	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	23.4%	11.7%	0.032	1.00	0.00	0.02	$0.78	$1.18	F	F
MPS	School	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	$2.78	F	F
MPS	School	Cooling_DX	Electric	Stock	Existing	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	Cooling_DX	Electric	Stock	Existing	1.51	Duct Insulation	3.0%	$ 0.01	20	25.0%	25.0%	6.3%	0.045	1.51	0.00	0.01	$0.00	$0.00	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	School	Cooling_DX	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	C	C
MPS	School	Cooling_DX	Electric	Stock	Existing	1.51	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.04	30	75.0%	66.0%	49.5%	0.076	1.44	0.04	0.07	$0.05	$0.05	C	C
MPS	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
MPS	School	Cooling_DX	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	Cooling_DX	Electric	Stock	Existing	1.51	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	41.1%	41.1%	0.227	1.34	0.08	0.20	$0.41	$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	Cooling_DX	Electric	Stock	Existing	1.51	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	23.4%	11.7%	0.032	1.14	0.00	0.02	$0.78	$1.04	F	F
MPS	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
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	$0.06	C	C
MPS	School	Cooling_HeatPump	Electric	Stock	Existing	1.51	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.04	30	75.0%	66.0%	49.5%	0.076	1.45	0.04	0.07	$0.05	$0.05	C	C
MPS	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
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	Cooling_HeatPump	Electric	Stock	Existing	1.51	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	41.1%	41.1%	0.227	1.34	0.08	0.20	$0.41	$0.47	F	F
MPS	School	Cooling_HeatPump	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	Cooling_HeatPump	Electric	Stock	Existing	1.51	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	23.4%	11.7%	0.032	1.14	0.00	0.02	$0.78	$1.03	F	F
MPS	School	Cooling_HeatPump	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	1.14	0.00	0.01	$1.83	$2.42	F	F
MPS	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.40	20	50.0%	94.7%	47.4%	0.804	2.68	0.38	0.80	$0.05	$0.05	C	C
MPS	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.40	34	33.3%	100.0%	33.3%	1.638	2.68	0.55	1.64	$0.06	$0.06	E	E
MPS	School	Lighting_2L4T12	Electric	Stock	Existing	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	E	E
MPS	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	4' 1L T5HO, EB	13.9%	$ 0.52	34	33.3%	100.0%	33.3%	0.373	2.68	0.12	0.37	$0.12	$0.12	F	F
MPS	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.38	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
MPS	School	Lighting_2L4T8	Electric	Stock	Existing	2.14	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.40	20	50.0%	94.7%	47.4%	0.642	2.14	0.30	0.64	$0.07	$0.07	D	D
MPS	School	Lighting_2L4T8	Electric	Stock	Existing	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	Lighting_2L8T12	Electric	Stock	Existing	2.68	8' 2L T8, EB	52.8%	$ 0.36	34	50.0%	100.0%	50.0%	1.415	2.68	0.71	1.42	$0.02	$0.02	A	A
MPS	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	C	C
MPS	School	Lighting_2L8T12	Electric	Stock	Existing	2.68	8' 2L T12, 60W, EB	10.8%	$ 0.17	34	25.0%	32.8%	8.2%	0.283	2.68	0.02	0.28	$0.05	$0.05	C	C
MPS	School	Lighting_2L8T12	Electric	Stock	Existing	2.68	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.55	20	50.0%	94.7%	47.4%	0.804	2.68	0.38	0.80	$0.07	$0.07	D	D
MPS	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
MPS	School	Lighting_3L4T12	Electric	Stock	Existing	2.68	4' 1L T5HO, EB	46.1%	$ 0.04	34	75.0%	100.0%	75.0%	1.235	2.68	0.93	1.24	$0.00	$0.00	A	A
MPS	School	Lighting_3L4T12	Electric	Stock	Existing	2.68	4' 3L T8, EB	22.6%	$ 0.04	34	75.0%	100.0%	75.0%	0.606	2.68	0.45	0.61	$0.01	$0.01	A	A
MPS	School	Lighting_3L4T12	Electric	Stock	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
MPS	School	Lighting_3L4T12	Electric	Stock	Existing	2.68	4' 3L T8 Premium, EB	22.6%	$ 0.10	34	75.0%	100.0%	75.0%	0.606	2.68	0.45	0.61	$0.02	$0.02	A	A
MPS	School	Lighting_3L4T8	Electric	Stock	Existing	2.14	4' 3L T8 Premium, EB	6.7%	$ 0.38	34	100.0%	100.0%	100.0%	0.143	2.14	0.14	0.14	$0.23	$0.23	F	F
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 3L T8, EB	38.2%	$ 0.09	34	16.7%	100.0%	16.7%	1.024	2.68	0.17	1.02	$0.01	$0.01	A	A
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 3L T8 Premium, EB	42.4%	$ 0.28	34	16.7%	100.0%	16.7%	1.135	2.68	0.19	1.14	$0.02	$0.02	A	A
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.86	34	16.7%	100.0%	16.7%	1.675	2.68	0.28	1.68	$0.04	$0.04	B	B
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 2L T5HO, EB	18.8%	$ 0.28	34	16.7%	100.0%	16.7%	0.503	2.68	0.08	0.50	$0.05	$0.05	C	C
MPS	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	C	C
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.47	20	50.0%	94.7%	47.4%	0.804	2.68	0.38	0.80	$0.06	$0.06	D	D
MPS	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.52	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
MPS	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	E	E
MPS	School	Lighting_4L4T8	Electric	Stock	Existing	2.14	4' 4L T8 Premium, EB	3.6%	$ 0.27	34	100.0%	100.0%	100.0%	0.077	2.14	0.08	0.08	$0.31	$0.31	F	F
MPS	School	Lighting_INC150W	Electric	Stock	Existing	2.68	Halogen PAR Flood, 90W	40.0%	$ 0.08	1	10.0%	97.3%	9.7%	1.072	2.68	0.10	1.07	$0.08	$0.08	E	E
MPS	School	Lighting_INC150W	Electric	Stock	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
MPS	School	Lighting_INC150W	Electric	Stock	Existing	2.68	Metal Halide, 50W	52.0%	$ 4.08	12	45.0%	85.5%	38.5%	1.394	2.68	0.54	1.39	$0.41	$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	Lighting_INC75W	Electric	Stock	Existing	2.68	CFL Screw-in, Modular 18W	65.3%	$ 1.92	10	90.0%	88.4%	79.6%	1.750	2.68	1.39	1.75	$0.17	$0.17	F	F
MPS	School	Plug_Load	Electric	Stock	Existing	0.11	Smart Networks	7.2%	$ 0.00	4	80.0%	40.0%	36.0%	0.008	0.11	0.00	0.01	$0.19	$0.19	F	F
MPS	School	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	Plug_Load	Electric	Stock	Existing	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	$0.99	$1.08	F	F
MPS	School	Plug_Load	Electric	Stock	Existing	0.11	ENERGY STAR or Better Office Equipment: Printers	11.2%	$ 0.06	4	100.0%	65.0%	65.0%	0.012	0.09	0.01	0.01	$1.69	$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	Space_Heat	Electric	Stock	Existing	2.77	Duct Repair and Sealing	2.0%	$ 0.00	20	25.0%	50.0%	12.5%	0.055	2.77	0.01	0.06	$0.01	$0.01	A	A
MPS	School	Space_Heat	Electric	Stock	Existing	2.77	Duct Insulation	2.0%	$ 0.01	20	25.0%	71.8%	18.0%	0.055	2.76	0.01	0.06	$0.01	$0.01	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	A	A
MPS	School	Space_Heat	Electric	Stock	Existing	2.77	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.23	20	50.0%	44.9%	22.5%	0.194	2.41	0.04	0.17	$0.13	$0.15	F	F
MPS	School	Space_Heat	Electric	Stock	Existing	2.77	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.139	2.38	0.06	0.12	$0.25	$0.29	F	F
MPS	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
MPS	School	Water_Heat	Electric	Stock	Existing	0.9	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.02	15	50.0%	9.9%	4.9%	0.045	0.90	0.00	0.05	$0.04	$0.04	B	B
MPS	School	Water_Heat	Electric	Stock	Existing	0.9	Heat Pump Water Heater	30.0%	$ 2.53	15	75.0%	87.2%	65.4%	0.270	0.90	0.18	0.27	$1.15	$1.18	F	F
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	Cooling_Chillers	Electric	Stock	Existing	4.19	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.042	4.19	0.03	0.04	$0.00	$0.00	A	A
MPS	Small_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	0.28	0.58	$0.00	$0.00	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	A	A
MPS	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	VSD Cooling Tower, 300 Tons	18.0%	$ 0.07	15	50.0%	90.0%	45.0%	0.754	3.89	0.31	0.70	$0.01	$0.01	A	A
MPS	Small_Office	Cooling_Chillers	Electric	Stock	Existing	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	$0.02	A	A
MPS	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Energy Management Systems	10.0%	$ 0.18	10	50.0%	19.1%	9.5%	0.419	3.33	0.03	0.33	$0.07	$0.09	D	E
MPS	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.29	0.16	0.40	$0.11	$0.14	F	F
MPS	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	$ 0.28	10	50.0%	100.0%	50.0%	0.419	3.14	0.16	0.31	$0.11	$0.15	F	F
MPS	Small_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	F	F
MPS	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	56.9%	28.4%	0.419	2.84	0.08	0.28	$0.15	$0.22	F	F
MPS	Small_Office	Cooling_Chillers	Electric	Stock	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	Small_Office	Cooling_Chillers	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	2.74	0.00	0.06	$0.20	$0.30	F	F
MPS	Small_Office	Cooling_Chillers	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	2.74	0.00	0.02	$0.45	$0.70	F	F
MPS	Small_Office	Cooling_DX	Electric	Stock	Existing	4.19	Ceiling R-38 to R-49 Insulation	0.9%	$ -	20	50.0%	8.7%	4.4%	0.038	4.19	0.00	0.04	$0.00	$0.00	A	A
MPS	Small_Office	Cooling_DX	Electric	Stock	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	A	A
MPS	Small_Office	Cooling_DX	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	A	A
MPS	Small_Office	Cooling_DX	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
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	Cooling_DX	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	3.76	0.19	0.38	$0.11	$0.12	F	F
MPS	Small_Office	Cooling_DX	Electric	Stock	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
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	Cooling_DX	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	Cooling_HeatPump	Electric	Stock	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	A	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	A	A
MPS	Small_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
MPS	Small_Office	Cooling_HeatPump	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	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	Cooling_HeatPump	Electric	Stock	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
MPS	Small_Office	Cooling_HeatPump	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	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	Cooling_HeatPump	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
MPS	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	C	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	C	C
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	$0.09	$0.09	D	D

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Small_Office	Lighting_2L4T12	Electric	Stock	Existing	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	$0.08	E	E
MPS	Small_Office	Lighting_2L4T12	Electric	Stock	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
MPS	Small_Office	Lighting_2L4T8	Electric	Stock	Existing	4.24	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	9	40.0%	79.6%	31.8%	1.272	4.24	0.40	1.27	$0.06	$0.06	D	D
MPS	Small_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	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	A	A
MPS	Small_Office	Lighting_2L8T12	Electric	Stock	Existing	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	B	B
MPS	Small_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29	8' 2L T12, 60W, EB	10.8%	$ 0.17	16	25.0%	26.6%	8.6%	0.559	5.29	0.04	0.56	$0.04	$0.04	B	B
MPS	Small_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.54	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	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	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 1L T5HO, EB	46.1%	$ 0.05	16	75.0%	100.0%	75.0%	2.438	5.29	1.83	2.44	$0.00	$0.00	A	A
MPS	Small_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	22.6%	$ 0.06	16	75.0%	100.0%	75.0%	1.196	5.29	0.90	1.20	$0.00	$0.00	A	A
MPS	Small_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	A	A
MPS	Small_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	A	A
MPS	Small_Office	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	$0.18	$0.18	F	F
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
MPS	Small_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	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	A	A
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
MPS	Small_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	B	B
MPS	Small_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	B	B
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.52	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	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	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
MPS	Small_Office	Lighting_4L4T8	Electric	Stock	Existing	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	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	Lighting_INC150W	Electric	Stock	Existing	5.29	HPS, 50W	56.0%	$ 4.80	6	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
MPS	Small_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	Metal Halide, 50W	52.0%	$ 9.40	6	45.0%	93.9%	42.2%	2.751	5.29	1.16	2.75	$0.80	$0.80	F	F
MPS	Small_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	Small_Office	Lighting_INC75W	Electric	Stock	Existing	5.29	CFL Screw-in, Modular 18W	65.3%	$ 2.25	5	90.0%	72.5%	65.2%	3.454	5.29	2.25	3.45	$0.18	$0.18	F	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	A	A
MPS	Small_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	Small_Office	Plug_Load	Electric	Stock	Existing	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	65.0%	65.0%	0.077	1.30	0.04	0.08	$0.14	$0.18	F	F
MPS	Small_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	F	F
MPS	Small_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	1.08	0.05	0.08	$0.26	$0.40	F	F
MPS	Small_Office	Space_Heat	Electric	Stock	Existing	6.18	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.124	6.18	0.02	0.12	$0.01	$0.01	A	A
MPS	Small_Office	Space_Heat	Electric	Stock	Existing	6.18	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	58.5%	58.5%	1.854	6.18	1.08	1.85	$0.01	$0.01	A	A
MPS	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	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	B	C
MPS	Small_Office	Space_Heat	Electric	Stock	Existing	6.18	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.16	20	50.0%	12.9%	6.5%	0.185	5.05	0.01	0.15	$0.09	$0.11	E	F
MPS	Small_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	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%	0.046	0.95	0.01	0.05	$0.01	$0.01	A	A
MPS	Small_Office	Water_Heat	Electric	Stock	Existing	0.95	Heat Pump Water Heater	30.0%	$ 0.58	15	75.0%	100.0%	75.0%	0.285	0.94	0.21	0.28	$0.25	$0.25	F	F
MPS	Small_Office	Water_Heat	Electric	Stock	Existing	0.95	Demand controlled circulating systems	5.0%	$ 0.91	15	50.0%	93.2%	46.6%	0.046	0.73	0.02	0.04	$2.35	$3.06	F	F
MPS	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
MPS	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.00	15	50.0%	90.0%	45.0%	0.232	1.65	0.10	0.23	$0.00	$0.00	A	A
MPS	Warehouse	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	A	A
MPS	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Insulation of Pipes	1.0%	$ 0.00	20	50.0%	50.0%	25.0%	0.017	1.42	0.00	0.01	$0.01	$0.01	A	A
MPS	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
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	C	D
MPS	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.14	15	50.0%	80.0%	40.0%	0.199	1.30	0.06	0.16	$0.08	$0.11	E	F
MPS	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	E	F
MPS	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Chiller Tune-Up / Diagnostics	5.0%	$ 0.03	5	100.0%	90.0%	90.0%	0.083	1.18	0.05	0.08	$0.11	$0.16	F	F
MPS	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.06	10	33.0%	50.0%	16.5%	0.083	1.13	0.01	0.06	$0.11	$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	Cooling_Chillers	Electric	Stock	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
MPS	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.23	20	50.0%	20.0%	10.0%	0.015	1.06	0.00	0.01	$1.61	$2.53	F	F
MPS	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Ceiling R-19 to R-38 Insulation	0.9%	$ -	20	50.0%	20.0%	10.0%	0.015	1.66	0.00	0.01	$0.00	$0.00	A	A
MPS	Warehouse	Cooling_DX	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
MPS	Warehouse	Cooling_DX	Electric	Stock	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	A
MPS	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.03	30	75.0%	100.0%	75.0%	0.083	1.58	0.06	0.08	$0.03	$0.03	B	B
MPS	Warehouse	Cooling_DX	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	1.52	0.08	0.15	$0.08	$0.09	E	E
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	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
MPS	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	53.5%	53.5%	0.249	1.31	0.11	0.20	$0.38	$0.48	F	F
MPS	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	20.0%	10.0%	0.035	1.21	0.00	0.03	$0.69	$0.95	F	F
MPS	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
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	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	A
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.03	30	75.0%	100.0%	75.0%	0.083	1.58	0.06	0.08	$0.03	$0.03	B	B
MPS	Warehouse	Cooling_HeatPump	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	1.52	0.08	0.15	$0.08	$0.09	E	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	Cooling_HeatPump	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
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	53.5%	53.5%	0.249	1.31	0.11	0.20	$0.38	$0.48	F	F
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	20.0%	10.0%	0.035	1.21	0.00	0.03	$0.69	$0.95	F	F
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.23	20	50.0%	20.0%	10.0%	0.015	1.21	0.00	0.01	$1.61	$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	B	B
MPS	Warehouse	Lighting_2L4T12	Electric	Stock	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	C	C
MPS	Warehouse	Lighting_2L4T12	Electric	Stock	Existing	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	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	Lighting_2L4T12	Electric	Stock	Existing	2.94	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 1.83	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.10	$0.10	F	F
MPS	Warehouse	Lighting_2L4T8	Electric	Stock	Existing	2.36	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.23	12	20.0%	98.0%	19.6%	0.708	2.36	0.14	0.71	$0.05	$0.05	C	C
MPS	Warehouse	Lighting_2L4T8	Electric	Stock	Existing	2.36	4' 2L T8 Premium, EB	8.5%	$ 0.13	22	100.0%	100.0%	100.0%	0.201	2.36	0.20	0.20	$0.07	$0.07	D	D
MPS	Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94	8' 2L T8, EB	52.8%	$ 0.21	22	50.0%	100.0%	50.0%	1.552	2.94	0.78	1.55	$0.01	$0.01	A	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	A	A
MPS	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	B	B
MPS	Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.32	12	20.0%	98.0%	19.6%	0.882	2.94	0.17	0.88	$0.05	$0.05	C	C
MPS	Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.39	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.13	$0.13	F	F
MPS	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
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94	4' 3L T8, EB	22.6%	$ 0.01	22	75.0%	100.0%	75.0%	0.665	2.94	0.50	0.66	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.04	22	40.0%	100.0%	40.0%	1.559	2.94	0.62	1.56	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94	4' 3L T8 Premium, EB	22.6%	$ 0.02	22	75.0%	100.0%	75.0%	0.665	2.94	0.50	0.66	$0.00	$0.00	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	Lighting_4L4T12	Electric	Stock	Existing	2.94	4' 3L T8, EB	38.2%	$ 0.05	22	16.7%	100.0%	16.7%	1.123	2.94	0.19	1.12	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	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	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	A	A
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.37	22	16.7%	100.0%	16.7%	1.838	2.94	0.31	1.84	$0.02	$0.02	A	A
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	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	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	4' 4L T8 Premium, EB	25.0%	$ 0.25	22	16.7%	100.0%	16.7%	0.735	2.94	0.12	0.74	$0.03	$0.03	B	B
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	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	B	B
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 1.95	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.11	$0.11	F	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	C	C
MPS	Warehouse	Lighting_4L4T8	Electric	Stock	Existing	2.36	4' 4L T8 Premium, EB	3.8%	$ 0.15	22	100.0%	100.0%	100.0%	0.085	2.36	0.08	0.08	$0.18	$0.18	F	F
MPS	Warehouse	Lighting_INC150W	Electric	Stock	Existing	2.94	Halogen PAR Flood, 90W	40.0%	$ 0.10	1	10.0%	100.0%	10.0%	1.176	2.94	0.12	1.18	$0.10	$0.10	E	E
MPS	Warehouse	Lighting_INC150W	Electric	Stock	Existing	2.94	HPS, 50W	56.0%	$ 2.69	7	45.0%	90.2%	40.6%	1.646	2.94	0.67	1.65	$0.34	$0.34	F	F
MPS	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
MPS	Warehouse	Lighting_INC40W	Electric	Stock	Existing	2.94	LED Exit Signs	80.0%	$ 0.06	20	90.0%	90.0%	81.0%	2.352	2.94	1.91	2.35	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_INC75W	Electric	Stock	Existing	2.94	CFL Screw-in, Modular 18W	65.3%	$ 1.34	8	90.0%	88.7%	79.8%	1.920	2.94	1.53	1.92	$0.16	$0.16	F	F
MPS	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
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	Plug_Load	Electric	Stock	Existing	0.15	ENERGY STAR or Better Office Equipment: Copiers	7.1%	$ 0.02	4	100.0%	65.0%	65.0%	0.011	0.13	0.01	0.01	$0.68	$0.78	F	F
MPS	Warehouse	Plug_Load	Electric	Stock	Existing	0.15	ENERGY STAR or Better Office Equipment: Computer	21.0%	$ 0.10	4	100.0%	65.0%	65.0%	0.031	0.12	0.02	0.03	$1.02	$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	Space_Heat	Electric	Stock	Existing	4.02	Duct Repair and Sealing	2.0%	$ 0.00	20	25.0%	50.0%	12.5%	0.080	4.02	0.01	0.08	$0.00	$0.00	A	A
MPS	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Duct Insulation	2.0%	$ 0.01	20	25.0%	62.3%	15.6%	0.080	4.01	0.01	0.08	$0.01	$0.01	A	A
MPS	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	41.8%	41.8%	1.206	4.00	0.50	1.20	$0.02	$0.02	A	A
MPS	Warehouse	Space_Heat	Electric	Stock	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	E	E
MPS	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.201	3.45	0.09	0.17	$0.17	$0.20	F	F
MPS	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.23	20	50.0%	33.7%	16.8%	0.121	3.37	0.02	0.10	$0.20	$0.24	F	F
MPS	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
MPS	Warehouse	Water_Heat	Electric	Stock	Existing	0.42	Heat Pump Water Heater	30.0%	$ 0.11	15	75.0%	100.0%	75.0%	0.126	0.41	0.09	0.12	$0.10	$0.11	F	F
MPS	Warehouse	Water_Heat	Electric	Stock	Existing	0.42	Demand controlled circulating systems	5.0%	$ 0.17	15	50.0%	100.0%	50.0%	0.021	0.32	0.01	0.02	$0.98	$1.29	F	F
SJD	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.041	4.10	0.03	0.04	$0.00	$0.00	A	A
SJD	Grocery	Cooling_Chillers	Electric	Stock	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	A	A
SJD	Grocery	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	A	A
SJD	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	VSD Cooling Tower, 300 Tons	18.0%	$ 0.08	15	50.0%	90.0%	45.0%	0.738	3.86	0.30	0.66	$0.01	$0.01	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	A
SJD	Grocery	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	E	E
SJD	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.49	15	50.0%	80.0%	40.0%	0.492	3.19	0.15	0.38	$0.12	$0.16	F	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	Cooling_Chillers	Electric	Stock	Existing	4.1	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	100.0%	50.0%	0.410	2.88	0.14	0.29	$0.15	$0.22	F	F
SJD	Grocery	Cooling_Chillers	Electric	Stock	Existing	4.1	Chiller Tune-Up / Diagnostics	5.0%	$ 0.12	5	100.0%	90.0%	90.0%	0.205	2.74	0.12	0.14	$0.16	$0.24	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	Cooling_Chillers	Electric	Stock	Existing	4.1	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.24	20	50.0%	20.0%	10.0%	0.088	2.59	0.01	0.05	$0.30	$0.47	F	F
SJD	Grocery	Cooling_Chillers	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	2.59	0.00	0.02	$0.69	$1.10	F	F
SJD	Grocery	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
SJD	Grocery	Cooling_DX	Electric	Stock	Existing	4.1	Clock / Programmable Thermostat	10.0%	$ 0.07	10	100.0%	84.7%	84.7%	0.410	4.09	0.35	0.41	$0.03	$0.03	A	A
SJD	Grocery	Cooling_DX	Electric	Stock	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	B	B
SJD	Grocery	Cooling_DX	Electric	Stock	Existing	4.1	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.041	3.61	0.00	0.04	$0.10	$0.12	F	F
SJD	Grocery	Cooling_DX	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
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	Cooling_DX	Electric	Stock	Existing	4.1	DX Tune-Up / Diagnostics	10.0%	$ 0.25	3	100.0%	90.0%	90.0%	0.410	2.91	0.26	0.29	$0.26	$0.37	F	F
SJD	Grocery	Cooling_DX	Electric	Stock	Existing	4.1	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.24	20	50.0%	20.0%	10.0%	0.088	2.65	0.01	0.06	$0.30	$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	F
SJD	Grocery	Cooling_HeatPump	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
SJD	Grocery	Cooling_HeatPump	Electric	Stock	Existing	4.1	Clock / Programmable Thermostat	10.0%	$ 0.07	10	100.0%	84.7%	84.7%	0.410	4.09	0.35	0.41	$0.03	$0.03	A	A
SJD	Grocery	Cooling_HeatPump	Electric	Stock	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	B	B
SJD	Grocery	Cooling_HeatPump	Electric	Stock	Existing	4.1	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.041	3.61	0.00	0.04	$0.10	$0.12	F	F
SJD	Grocery	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
SJD	Grocery	Cooling_HeatPump	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	Cooling_HeatPump	Electric	Stock	Existing	4.1	DX Tune-Up / Diagnostics	10.0%	$ 0.25	3	100.0%	90.0%	90.0%	0.410	2.91	0.26	0.29	$0.26	$0.37	F	F
SJD	Grocery	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%	0.088	2.65	0.01	0.06	$0.30	$0.46	F	F
SJD	Grocery	Cooling_HeatPump	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
SJD	Grocery	Lighting_2L4T12	Electric	Stock	Existing	12.76	Occupancy Sensor, 6-4' Fluorescent Fixtures	30.0%	$ 0.45	7	10.0%	100.0%	10.0%	3.828	12.76	0.38	3.83	$0.02	$0.02	A	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	A	A
SJD	Grocery	Lighting_2L4T12	Electric	Stock	Existing	12.76	4' 2L T8 Premium, EB	25.0%	$ 0.78	12	33.3%	100.0%	33.3%	3.190	12.76	1.06	3.19	$0.03	$0.03	B	B
SJD	Grocery	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	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	Lighting_2L4T8	Electric	Stock	Existing	10.21	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	7	10.0%	100.0%	10.0%	3.063	10.21	0.31	3.06	$0.03	$0.03	B	B
SJD	Grocery	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	B	B
SJD	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	8' 2L T8, EB	52.8%	$ 0.37	12	50.0%	100.0%	50.0%	6.737	12.76	3.37	6.74	$0.01	$0.01	A	A
SJD	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.82	12	25.0%	100.0%	25.0%	7.056	12.76	1.76	7.06	$0.02	$0.02	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	A	A
SJD	Grocery	Lighting_2L8T12	Electric	Stock	Existing	12.76	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.56	7	10.0%	100.0%	10.0%	3.828	12.76	0.38	3.83	$0.03	$0.03	B	B
SJD	Grocery	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
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	Lighting_3L4T12	Electric	Stock	Existing	12.76	4' 3L T8, EB	22.6%	$ 0.06	12	75.0%	100.0%	75.0%	2.885	12.76	2.16	2.88	$0.00	$0.00	A	A
SJD	Grocery	Lighting_3L4T12	Electric	Stock	Existing	12.76	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.35	12	40.0%	100.0%	40.0%	6.768	12.76	2.71	6.77	$0.01	$0.01	A	A
SJD	Grocery	Lighting_3L4T12	Electric	Stock	Existing	12.76	4' 3L T8 Premium, EB	22.6%	$ 0.16	12	75.0%	100.0%	75.0%	2.885	12.76	2.16	2.88	$0.01	$0.01	A	A
SJD	Grocery	Lighting_3L4T8	Electric	Stock	Existing	10.21	4' 3L T8 Premium, EB	6.7%	$ 0.42	12	100.0%	100.0%	100.0%	0.684	10.21	0.68	0.68	$0.09	$0.09	E	E
SJD	Grocery	Lighting_4L4T12	Electric	Stock	Existing	12.76	4' 3L T8, EB	38.2%	$ 0.10	12	16.7%	100.0%	16.7%	4.874	12.76	0.81	4.87	$0.00	$0.00	A	A
SJD	Grocery	Lighting_4L4T12	Electric	Stock	Existing	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	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	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	A
SJD	Grocery	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
SJD	Grocery	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	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	Lighting_4L4T12	Electric	Stock	Existing	12.76	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.90	8	26.0%	100.0%	26.0%	9.570	12.76	2.49	9.57	$0.08	$0.06	E	E
SJD	Grocery	Lighting_4L4T8	Electric	Stock	Existing	10.21	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.52	7	10.0%	100.0%	10.0%	3.063	10.21	0.31	3.06	$0.03	$0.03	B	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	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	E	E
SJD	Grocery	Lighting_INC150W	Electric	Stock	Existing	12.76	HPS, 50W	56.0%	$ 8.99	4	45.0%	94.3%	42.4%	7.145	12.76	3.03	7.15	$0.41	$0.41	F	F
SJD	Grocery	Lighting_INC150W	Electric	Stock	Existing	12.76	Metal Halide, 50W	52.0%	$ 17.62	4	45.0%	94.3%	42.4%	6.635	12.76	2.82	6.64	$0.87	$0.87	F	F
SJD	Grocery	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
SJD	Grocery	Lighting_INC75W	Electric	Stock	Existing	12.76	CFL Screw-in, Modular 18W	65.3%	$ 2.38	3	90.0%	95.4%	85.8%	8.332	12.76	7.15	8.33	$0.12	$0.12	F	F
SJD	Grocery	Plug_Load	Electric	Stock	Existing	0.41	Smart Networks	6.6%	$ 0.00	4	90.0%	40.0%	36.0%	0.027	0.41	0.01	0.03	$0.01	$0.01	A	A
SJD	Grocery	Plug_Load	Electric	Stock	Existing	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	A	B
SJD	Grocery	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	C	D
SJD	Grocery	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	E
SJD	Grocery	Plug_Load	Electric	Stock	Existing	0.41	ENERGY STAR or Better Office Equipment: Copiers	9.7%	$ 0.01	4	100.0%	65.0%	65.0%	0.040	0.29	0.02	0.03	$0.10	$0.14	F	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	Refrigeration	Electric	Stock	Existing	28.13	Anti-Sweat (Humidistat) Controls	5.0%	$ 0.02	12	100.0%	48.0%	48.0%	1.404	27.36	0.66	1.37	$0.00	$0.00	A	A
SJD	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Demand Control Defrost - Electric	7.6%	$ 0.04	10	100.0%	48.0%	48.0%	2.184	28.70	0.99	2.07	$0.00	$0.00	A	A
SJD	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Installation of Floating Condenser Head Pressure Controls	6.8%	$ 0.12	14	100.0%	44.4%	44.4%	1.921	25.71	0.78	[illegible]	[illegible]	[illegible]	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Strip Curtains for Walk-Ins	4.0%	$ 0.05	4	100.0%	30.0%	30.0%	1.132	24.93	0.30	1.00	$0.01	$0.02	A	A
SJD	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Demand Control Defrost - Hot Gas	2.5%	$ 0.07	10	100.0%	69.6%	69.6%	0.705	24.63	0.43	0.82	$0.01	$0.02	A	A
SJD	Grocery	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	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	B	B
SJD	Grocery	Refrigeration	Electric	Stock	Existing	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	B	C
SJD	Grocery	Refrigeration	Electric	Stock	Existing	28.13	Reduced Speed or Cycling of Evaporator Fans	0.6%	$ 0.09	5	100.0%	80.0%	80.0%	0.155	20.29	0.09	0.11	$0.16	$0.22	F	F
SJD	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.108	5.42	0.01	0.11	$0.01	$0.01	A	A
SJD	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Duct Insulation	2.0%	$ 0.01	20	25.0%	71.5%	17.9%	0.108	5.41	0.02	0.11	$0.01	$0.01	A	A
SJD	Grocery	Space_Heat	Electric	Stock	Existing	5.42	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	50.0%	50.0%	1.626	5.39	0.81	1.62	$0.01	$0.01	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	Space_Heat	Electric	Stock	Existing	5.42	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.12	20	50.0%	85.0%	42.5%	0.163	4.44	0.06	0.13	$0.08	$0.10	E	E
SJD	Grocery	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	4.39	0.11	0.22	$0.13	$0.16	F	F
SJD	Grocery	Water_Heat	Electric	Stock	Existing	2.4	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.01	15	50.0%	100.0%	50.0%	0.120	2.40	0.06	0.12	$0.01	$0.01	A	A
SJD	Grocery	Water_Heat	Electric	Stock	Existing	2.4	Heat Pump Water Heater	30.0%	$ 0.84	15	75.0%	100.0%	75.0%	0.720	2.34	0.53	0.70	$0.14	$0.15	F	F
SJD	Grocery	Water_Heat	Electric	Stock	Existing	2.4	Demand controlled circulating systems	5.0%	$ 1.32	15	50.0%	100.0%	50.0%	0.120	1.61	0.05	0.09	$1.35	$1.79	F	F
SJD	Health	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
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.470	3.33	0.21	0.47	$0.00	$0.00	A	A
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	VSD Cooling Tower, 300 Tons	18.0%	$ 0.11	15	50.0%	90.0%	45.0%	0.605	3.12	0.25	0.56	$0.02	$0.02	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	A	B
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	High Efficiency Windows, Low-e; U=0.35	1.2%	$ 0.01	30	75.0%	66.0%	49.5%	0.039	2.86	0.02	0.03	$0.03	$0.04	B	B
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Installation of Energy Management Systems	10.0%	$ 0.27	10	50.0%	75.0%	37.5%	0.338	2.85	0.11	0.28	$0.13	$0.15	F	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
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.68	15	50.0%	80.0%	40.0%	0.403	2.60	0.12	0.31	$0.21	$0.27	F	F
SJD	Health	Cooling_Chillers	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%	0.338	2.48	0.12	0.25	$0.21	$0.28	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	F
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.30	10	33.0%	50.0%	16.5%	0.168	2.25	0.02	0.11	$0.28	$0.42	F	F
SJD	Health	Cooling_Chillers	Electric	Stock	Existing	3.36	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.21	20	50.0%	20.0%	10.0%	0.071	2.23	0.00	0.05	$0.32	$0.49	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
SJD	Health	Cooling_DX	Electric	Stock	Existing	3.36	Duct Insulation	3.0%	$ 0.01	20	25.0%	25.0%	6.3%	0.101	3.36	0.01	0.10	$0.01	$0.01	A	A
SJD	Health	Cooling_DX	Electric	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
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	B
SJD	Health	Cooling_DX	Electric	Stock	Existing	3.36	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.034	3.07	0.00	0.03	$0.13	$0.14	F	F
SJD	Health	Cooling_DX	Electric	Stock	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
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
SJD	Health	Cooling_DX	Electric	Stock	Existing	3.36	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.21	20	50.0%	20.0%	10.0%	0.071	2.74	0.01	0.06	$0.32	$0.39	F	F
SJD	Health	Cooling_DX	Electric	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
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
SJD	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36	Duct Insulation	3.0%	$ 0.01	20	25.0%	25.0%	6.3%	0.101	3.36	0.01	0.10	$0.01	$0.01	A	A
SJD	Health	Cooling_HeatPump	Electric	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
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	B	B
SJD	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.034	3.07	0.00	0.03	$0.13	$0.14	F	F
SJD	Health	Cooling_HeatPump	Electric	Stock	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
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
SJD	Health	Cooling_HeatPump	Electric	Stock	Existing	3.36	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.21	20	50.0%	20.0%	10.0%	0.071	2.74	0.01	0.06	$0.32	$0.39	F	F
SJD	Health	Cooling_HeatPump	Electric	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
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
SJD	Health	Lighting_2L4T12	Electric	Stock	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
SJD	Health	Lighting_2L4T12	Electric	Stock	Existing	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	B	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	B	B
SJD	Health	Lighting_2L4T12	Electric	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	C
SJD	Health	Lighting_2L4T12	Electric	Stock	Existing	10.77	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.74	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	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	B	B
SJD	Health	Lighting_2L4T8	Electric	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	C	C
SJD	Health	Lighting_2L8T12	Electric	Stock	Existing	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
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	A	A
SJD	Health	Lighting_2L8T12	Electric	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	A	A
SJD	Health	Lighting_2L8T12	Electric	Stock	Existing	10.77	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.53	7	50.0%	90.0%	45.0%	3.231	10.77	1.45	3.23	$0.03	$0.03	B	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	E	E
SJD	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77	4' 1L T5HO, EB	46.1%	$ 0.61	12	75.0%	100.0%	75.0%	4.964	10.77	3.72	4.96	$0.00	$0.00	A	A
SJD	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77	4' 3L T8, EB	22.6%	$ 0.01	12	75.0%	100.0%	75.0%	2.435	10.77	1.83	2.43	$0.00	$0.00	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	A	A
SJD	Health	Lighting_3L4T12	Electric	Stock	Existing	10.77	4' 3L T8 Premium, EB	22.6%	$ 0.03	12	75.0%	100.0%	75.0%	2.435	10.77	1.83	2.43	$0.00	$0.00	A	A
SJD	Health	Lighting_3L4T8	Electric	Stock	Existing	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
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	Lighting_4L4T12	Electric	Stock	Existing	10.77	4' 3L T8 Premium, EB	42.4%	$ 0.31	12	16.7%	100.0%	16.7%	4.562	10.77	0.76	4.56	$0.01	$0.01	A	A
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	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
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
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77	4' 2L T5HO, EB	18.8%	$ 0.28	12	16.7%	100.0%	16.7%	2.019	10.77	0.34	2.02	$0.02	$0.02	A	A
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	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	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	B	B
SJD	Health	Lighting_4L4T12	Electric	Stock	Existing	10.77	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.84	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
SJD	Health	Lighting_4L4T8	Electric	Stock	Existing	8.62	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.51	7	50.0%	90.0%	45.0%	2.586	8.62	1.16	2.59	$0.04	$0.04	B	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
SJD	Health	Lighting_INC150W	Electric	Stock	Existing	10.77	Halogen PAR Flood, 90W	40.0%	$ 0.10	1	10.0%	95.0%	9.5%	4.308	10.77	0.41	4.31	$0.03	$0.03	A	A
SJD	Health	Lighting_INC150W	Electric	Stock	Existing	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
SJD	Health	Lighting_INC150W	Electric	Stock	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
SJD	Health	Lighting_INC40W	Electric	Stock	Existing	10.77	LED Exit Signs	80.0%	$ 0.17	20	90.0%	90.0%	81.0%	8.616	10.77	6.98	8.62	$0.00	$0.00	A	A
SJD	Health	Lighting_INC75W	Electric	Stock	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
SJD	Health	Plug_Load	Electric	Stock	Existing	0.52	Smart Networks	8.4%	$ 0.00	4	90.0%	40.0%	36.0%	0.033	0.52	0.01	0.03	$0.04	$0.04	B	B
SJD	Health	Plug_Load	Electric	Stock	Existing	0.52	ENERGY STAR or Better Office Equipment: Monitors	15.4%	$ 0.06	4	100.0%	71.0%	71.0%	0.080	0.51	0.08	0.08	$0.23	$0.23	F	F
SJD	Health	Plug_Load	Electric	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
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
SJD	Health	Plug_Load	Electric	Stock	Existing	0.52	ENERGY STAR or Better Office Equipment: Printers	13.2%	$ 0.11	4	100.0%	65.0%	65.0%	0.069	0.37	0.03	0.05	$0.53	$0.73	F	F
SJD	Health	Space_Heat	Electric	Stock	Existing	4.96	Duct Repair and Sealing	2.0%	$ 0.00	20	25.0%	50.0%	12.5%	0.099	4.96	0.01	0.10	$0.00	$0.00	A	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	A	A
SJD	Health	Space_Heat	Electric	Stock	Existing	4.96	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	70.0%	70.0%	1.488	4.93	1.04	1.48	$0.02	$0.02	A	A
SJD	Health	Space_Heat	Electric	Stock	Existing	4.96	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.21	20	50.0%	40.0%	20.0%	0.347	3.89	0.05	0.27	$0.07	$0.08	D	E
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
SJD	Health	Space_Heat	Electric	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
SJD	Health	Water_Heat	Electric	Stock	Existing	2.27	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.01	15	50.0%	80.0%	40.0%	0.114	2.27	0.05	0.11	$0.01	$0.01	A	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	F
SJD	Health	Water_Heat	Electric	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	$5.73	$8.88	F	F
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.042	4.19	0.03	0.04	$0.00	$0.00	A	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	A	A
SJD	Large_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	A	A
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	VSD Cooling Tower, 300 Tons	18.0%	$ 0.07	15	50.0%	90.0%	45.0%	0.754	3.89	0.31	[illegible]	[illegible]	[illegible]	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	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	$0.02	A	A
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Energy Management Systems	10.0%	$ 0.18	10	50.0%	19.1%	9.5%	0.419	3.33	0.03	0.33	$0.07	$0.08	D	E
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.29	0.16	0.40	$0.11	$0.14	F	F
SJD	Large_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
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	F	F
SJD	Large_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	56.9%	28.4%	0.419	2.84	0.08	0.28	$0.15	$0.22	F	F
SJD	Large_Office	Cooling_Chillers	Electric	Stock	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
SJD	Large_Office	Cooling_Chillers	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	2.74	0.00	0.06	$0.20	$0.30	F	F
SJD	Large_Office	Cooling_Chillers	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	2.74	0.00	0.02	$0.46	$0.70	F	F
SJD	Large_Office	Cooling_DX	Electric	Stock	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	A	A
SJD	Large_Office	Cooling_DX	Electric	Stock	Existing	4.19	Clock / Programmable Thermostat	10.0%	$ 0.06	10	100.0%	58.4%	58.4%	0.419	4.16	0.24	0.42	$0.02	$0.02	A	A
SJD	Large_Office	Cooling_DX	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
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
SJD	Large_Office	Cooling_DX	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
SJD	Large_Office	Cooling_DX	Electric	Stock	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
SJD	Large_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
SJD	Large_Office	Cooling_DX	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
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
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	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	A	A
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	Existing	4.19	Clock / Programmable Thermostat	10.0%	$ 0.06	10	100.0%	58.4%	58.4%	0.419	4.16	0.24	0.42	$0.02	$0.02	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
SJD	Large_Office	Cooling_HeatPump	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
SJD	Large_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
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	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
SJD	Large_Office	Cooling_HeatPump	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
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
SJD	Large_Office	Cooling_HeatPump	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
SJD	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	C	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	Lighting_2L4T12	Electric	Stock	Existing	5.29	4' 2L T8 Premium, EB	25.0%	$ 0.77	18	33.3%	100.0%	33.3%	1.323	5.29	0.44	1.32	$0.07	$0.07	D	D
SJD	Large_Office	Lighting_2L4T12	Electric	Stock	Existing	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
SJD	Large_Office	Lighting_2L4T12	Electric	Stock	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
SJD	Large_Office	Lighting_2L4T8	Electric	Stock	Existing	4.24	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	9	40.0%	79.6%	31.8%	1.272	4.24	0.40	1.27	$0.06	$0.06	D	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
SJD	Large_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	A	A
SJD	Large_Office	Lighting_2L8T12	Electric	Stock	Existing	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	B	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	B	B
SJD	Large_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.54	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	C
SJD	Large_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
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 1L T5HO, EB	46.1%	$ 0.05	16	75.0%	100.0%	75.0%	2.438	5.29	1.83	2.44	$0.00	$0.00	A	A
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	22.6%	$ 0.05	16	75.0%	100.0%	75.0%	1.196	5.29	0.90	1.20	$0.00	$0.00	A	A
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 3L T8 Premium, EB, reflector	53.0%	$ 0.28	16	40.0%	100.0%	40.0%	2.808	5.29	1.12	2.81	$0.01	$0.01	A	A
SJD	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	A	A
SJD	Large_Office	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	$0.18	$0.18	F	F
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
SJD	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	A	A
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 4L T8, EB	22.2%	$ 0.21	16	16.7%	100.0%	16.7%	1.178	5.29	0.20	1.18	$0.02	$0.02	A	A
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
SJD	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	B	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	B	B
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.52	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	C
SJD	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
SJD	Large_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
SJD	Large_Office	Lighting_4L4T8	Electric	Stock	Existing	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
SJD	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	E	E
SJD	Large_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	HPS, 50W	56.0%	$ 4.80	8	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
SJD	Large_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	Metal Halide, 50W	52.0%	$ 9.40	6	45.0%	93.9%	42.2%	2.751	5.29	1.16	2.75	$0.80	$0.80	F	F
SJD	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
SJD	Large_Office	Lighting_INC75W	Electric	Stock	Existing	5.29	CFL Screw-in, Modular 18W	65.3%	$ 2.25	5	90.0%	72.5%	65.2%	3.454	5.29	2.25	3.45	$0.18	$0.18	F	F
SJD	Large_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	A	A
SJD	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
SJD	Large_Office	Plug_Load	Electric	Stock	Existing	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	65.0%	65.0%	0.077	1.30	0.04	0.06	$0.14	$0.16	F	F
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	1.28	0.20	0.31	$0.15	$0.19	F	F
SJD	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
SJD	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.124	6.18	0.02	0.12	$0.01	$0.01	A	A
SJD	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	58.5%	58.5%	1.854	6.18	1.08	1.85	$0.01	$0.01	A	A
SJD	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	A	A
SJD	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.18	20	50.0%	12.9%	6.5%	0.433	5.07	0.02	0.35	$0.04	$0.05	B	C
SJD	Large_Office	Space_Heat	Electric	Stock	Existing	6.18	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.15	20	50.0%	12.9%	6.5%	0.185	5.05	0.01	0.15	$0.09	$0.11	E	F
SJD	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
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
SJD	Large_Office	Water_Heat	Electric	Stock	Existing	0.95	Heat Pump Water Heater	30.0%	$ 0.58	15	75.0%	100.0%	75.0%	0.285	0.94	0.21	0.28	$0.25	$0.25	F	F
SJD	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
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.028	2.83	0.02	0.03	$0.00	$0.00	A	A
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.396	2.81	0.18	0.39	$0.00	$0.00	A	A
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	VSD Cooling Tower, 300 Tons	16.0%	$ 0.11	15	50.0%	90.0%	45.0%	0.509	2.83	0.21	0.47	$0.03	$0.03	A	A
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	High Efficiency Windows, Low-e; U=0.35	7.0%	$ 0.06	30	75.0%	92.9%	69.7%	0.199	2.42	0.12	0.17	$0.03	$0.03	A	B
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	Insulation of Pipes	1.0%	$ 0.03	20	50.0%	50.0%	25.0%	0.028	2.30	0.01	0.02	$0.13	$0.16	F	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	$0.18	$0.20	F	F
SJD	Lodging	Cooling_Chillers	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	2.25	0.01	0.05	$0.19	$0.24	F	F
SJD	Lodging	Cooling_Chillers	Electric	Stock	Existing	2.83	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	40.1%	20.0%	0.283	2.24	0.04	0.22	$0.22	$0.28	F	F
SJD	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
SJD	Lodging	Cooling_Chillers	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	2.09	0.10	0.21	$0.26	$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
SJD	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
SJD	Lodging	Cooling_Chillers	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	1.88	0.00	0.02	$0.44	$0.66	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	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	B	B
SJD	Lodging	Cooling_DX	Electric	Stock	Existing	2.83	Clock / Programmable Thermostat	10.0%	$ 0.10	10	100.0%	80.0%	80.0%	0.283	2.32	0.19	0.23	$0.05	$0.07	C	D
SJD	Lodging	Cooling_DX	Electric	Stock	Existing	2.83	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.16	30	75.0%	92.9%	69.7%	0.142	2.13	0.07	0.11	$0.10	$0.14	F	F
SJD	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
SJD	Lodging	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
SJD	Lodging	Cooling_DX	Electric	Stock	Existing	2.83	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	40.0%	40.0%	0.425	2.05	0.12	0.31	$0.22	$0.30	F	F
SJD	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	$0.28	$0.38	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	$0.66	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	[illegible]	[illegible]	[illegible]	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJO	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	Duct Insulation	3.0%	$ 0.01	20	25.0%	25.0%	6.3%	0.095	2.83	0.01	0.08	$0.02	$0.02	A	A
SJO	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	Clock / Programmable Thermostat	10.0%	$ 0.10	10	100.0%	80.0%	80.0%	0.283	2.82	0.23	0.28	$0.05	$0.05	C	C
SJO	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.16	30	75.0%	92.9%	69.7%	0.142	2.60	0.09	0.13	$0.10	$0.11	F	F
SJO	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
SJO	Lodging	Cooling_HeatPump	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	2.51	0.01	0.05	$0.19	$0.21	F	F
SJO	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	40.0%	40.0%	0.425	2.50	0.15	0.37	$0.22	$0.25	F	F
SJO	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
SJO	Lodging	Cooling_HeatPump	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	2.23	0.00	0.02	$0.44	$0.56	F	F
SJO	Lodging	Cooling_HeatPump	Electric	Stock	Existing	2.83	DX Tune-Up / Diagnostics	10.0%	$ 0.37	3	100.0%	90.0%	90.0%	0.283	2.23	0.20	0.22	$0.55	$0.70	F	F
SJO	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.22	15	20.0%	89.6%	17.9%	0.903	3.01	0.16	0.90	$0.03	$0.03	B	B
SJO	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	4' 1L T8 Premium, EB, reflector	61.1%	$ 0.78	28	33.3%	100.0%	33.3%	1.839	3.01	0.61	1.84	$0.04	$0.04	B	B
SJO	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	4' 2L T8 Premium, EB	25.0%	$ 0.38	28	33.3%	100.0%	33.3%	0.753	3.01	0.25	0.75	$0.05	$0.05	C	C
SJO	Lodging	Lighting_2L4T12	Electric	Stock	Existing	3.01	4' 1L T5HO, EB	13.9%	$ 0.29	28	33.3%	100.0%	33.3%	0.418	3.01	0.14	0.42	$0.07	$0.07	D	D
SJO	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
SJO	Lodging	Lighting_2L4T8	Electric	Stock	Existing	2.41	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.22	15	20.0%	89.6%	17.9%	0.723	2.41	0.13	0.72	$0.04	$0.04	B	B
SJO	Lodging	Lighting_2L4T8	Electric	Stock	Existing	2.41	4' 2L T8 Premium, EB	8.5%	$ 0.13	28	100.0%	100.0%	100.0%	0.205	2.41	0.20	0.20	$0.06	$0.06	D	D
SJO	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	8' 2L T8, EB	52.8%	$ 0.18	28	50.0%	100.0%	50.0%	1.589	3.01	0.79	1.59	$0.01	$0.01	A	A
SJO	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.40	28	25.0%	100.0%	25.0%	1.665	3.01	0.42	1.66	$0.02	$0.02	A	A
SJO	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	8' 2L T12, 60W, EB	10.6%	$ 0.09	28	25.0%	79.9%	20.0%	0.318	3.01	0.08	0.32	$0.03	$0.03	A	A
SJO	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	B	B
SJO	Lodging	Lighting_2L8T12	Electric	Stock	Existing	3.01	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.07	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	$0.10	$0.10	E	E
SJO	Lodging	Lighting_3L4T12	Electric	Stock	Existing	3.01	4' 1L T5HO, EB	46.1%	$ 0.02	28	75.0%	100.0%	75.0%	1.387	3.01	1.04	1.39	$0.00	$0.00	A	A
SJO	Lodging	Lighting_3L4T12	Electric	Stock	Existing	3.01	4' 3L T8, EB	22.6%	$ 0.02	28	75.0%	100.0%	75.0%	0.681	3.01	0.51	0.68	$0.00	$0.00	A	A
SJO	Lodging	Lighting_3L4T12	Electric	Stock	Existing	3.01	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.11	28	40.0%	100.0%	40.0%	1.597	3.01	0.64	1.60	$0.01	$0.01	A	A
SJO	Lodging	Lighting_3L4T12	Electric	Stock	Existing	3.01	4' 3L T8 Premium, EB	22.6%	$ 0.05	28	75.0%	100.0%	75.0%	0.681	3.01	0.51	0.68	$0.01	$0.01	A	A
SJO	Lodging	Lighting_3L4T8	Electric	Stock	Existing	2.41	4' 3L T8 Premium, EB	6.7%	$ 0.21	28	100.0%	100.0%	100.0%	0.161	2.41	0.16	0.16	$0.13	$0.13	F	F
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 3L T8, EB	38.2%	$ 0.05	28	16.7%	100.0%	16.7%	1.150	3.01	0.19	1.15	$0.00	$0.00	A	A
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 3L T8 Premium, EB	42.4%	$ 0.15	28	16.7%	100.0%	16.7%	1.275	3.01	0.21	1.28	$0.01	$0.01	A	A
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 4L T8, EB	22.2%	$ 0.10	28	16.7%	100.0%	16.7%	0.669	3.01	0.11	0.67	$0.01	$0.01	A	A
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.38	28	16.7%	100.0%	16.7%	1.881	3.01	0.31	1.88	$0.02	$0.02	A	A
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 2L T5HO, EB	18.8%	$ 0.14	28	16.7%	100.0%	16.7%	0.564	3.01	0.09	0.56	$0.02	$0.02	A	A
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	4' 4L T8 Premium, EB	25.0%	$ 0.24	28	16.7%	100.0%	16.7%	0.753	3.01	0.13	0.75	$0.03	$0.03	B	B
SJO	Lodging	Lighting_4L4T12	Electric	Stock	Existing	3.01	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.28	15	20.0%	89.6%	17.9%	0.903	3.01	0.16	0.90	$0.03	$0.03	B	B
SJO	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
SJO	Lodging	Lighting_4L4T8	Electric	Stock	Existing	2.41	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.28	15	20.0%	89.6%	17.9%	0.723	2.41	0.13	0.72	$0.04	$0.04	B	B
SJO	Lodging	Lighting_4L4T8	Electric	Stock	Existing	2.41	4' 4L T8 Premium, EB	3.6%	$ 0.15	28	100.0%	100.0%	100.0%	0.087	2.41	0.09	0.09	$0.16	$0.16	F	F
SJO	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
SJO	Lodging	Lighting_INC150W	Electric	Stock	Existing	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
SJO	Lodging	Lighting_INC150W	Electric	Stock	Existing	3.01	Metal Halide, 50W	52.0%	$ 3.88	9	45.0%	92.2%	41.5%	1.565	3.01	0.65	1.57	$0.42	$0.42	F	F
SJO	Lodging	Lighting_INC40W	Electric	Stock	Existing	3.01	LED Exit Signs	80.0%	$ 0.32	20	90.0%	90.0%	81.0%	2.408	3.01	1.95	2.41	$0.01	$0.01	A	A
SJO	Lodging	Lighting_INC75W	Electric	Stock	Existing	3.01	CFL Screw-in, Modular 18W	65.3%	$ 1.24	8	70.0%	72.5%	50.8%	1.966	3.01	1.00	1.97	$0.12	$0.12	F	F
SJO	Lodging	Plug_Load	Electric	Stock	Existing	0.1	Smart Networks	4.5%	$ 0.00	4	90.0%	40.0%	36.0%	0.005	0.10	0.00	0.00	$0.03	$0.03	A	A
SJO	Lodging	Plug_Load	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	B	B
SJO	Lodging	Plug_Load	Electric	Stock	Existing	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	$0.17	F	F
SJO	Lodging	Plug_Load	Electric	Stock	Existing	0.1	ENERGY STAR or Better Office Equipment: Computer	12.2%	$ 0.01	4	100.0%	65.0%	65.0%	0.012	0.08	0.01	0.01	$0.26	$0.33	F	F
SJO	Lodging	Plug_Load	Electric	Stock	Existing	0.1	ENERGY STAR or Better Office Equipment: Printers	7.8%	$ 0.01	4	100.0%	65.0%	65.0%	0.008	0.07	0.00	0.01	$0.45	$0.61	F	F
SJO	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.051	2.54	0.01	0.05	$0.01	$0.01	A	A
SJO	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Duct Insulation	2.0%	$ 0.01	20	25.0%	79.1%	19.8%	0.051	2.53	0.01	0.05	$0.03	$0.03	A	A
SJO	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Occupancy Sensor for room HVAC units	35.0%	$ 0.20	15	51.0%	100.0%	51.0%	0.889	2.52	0.45	0.88	$0.03	$0.03	A	A
SJO	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	B	B
SJO	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.11	20	50.0%	62.3%	31.1%	0.178	1.70	0.04	0.12	$0.08	$0.09	D	E
SJO	Lodging	Space_Heat	Electric	Stock	Existing	2.54	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.11	20	50.0%	62.3%	31.1%	0.076	1.67	0.02	0.05	$0.15	$0.22	F	F
SJO	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
SJO	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	B	B
SJO	Lodging	Water_Heat	Electric	Stock	Existing	2.79	Heat Pump Water Heater	30.0%	$ 3.47	15	75.0%	100.0%	75.0%	0.837	2.72	0.61	0.82	$0.51	$0.52	F	F
SJO	Lodging	Water_Heat	Electric	Stock	Existing	2.79	Demand controlled circulating systems	5.0%	$ 5.45	15	50.0%	100.0%	50.0%	0.140	2.11	0.05	0.11	$4.81	$6.38	F	F
SJO	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
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.335	2.37	0.15	0.33	$0.00	$0.00	A	A
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	VSD Cooling Tower, 300 Tons	18.0%	$ 0.05	15	50.0%	90.0%	45.0%	0.430	2.22	0.18	0.40	$0.01	$0.01	A	A
SJO	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	A	B
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Insulation of Pipes	1.0%	$ 0.01	20	50.0%	50.0%	25.0%	0.024	2.01	0.01	0.02	$0.04	$0.05	B	C
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Installation of Energy Management Systems	10.0%	$ 0.12	10	50.0%	100.0%	50.0%	0.239	2.01	0.10	0.20	$0.08	$0.09	E	E
SJO	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	0.09	0.23	$0.13	$0.18	F	F
SJO	Miscellaneous	Cooling_Chillers	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	1.82	0.09	0.18	$0.13	$0.17	F	F
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Chiller Tune-Up / Diagnostics	5.0%	$ 0.08	5	100.0%	90.0%	90.0%	0.120	1.73	0.08	0.09	$0.17	$0.24	F	F
SJO	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
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	76.3%	38.1%	0.239	1.63	0.06	0.18	$0.26	$0.38	F	F
SJO	Miscellaneous	Cooling_Chillers	Electric	Stock	Existing	2.39	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	40.2%	20.1%	0.050	1.57	0.01	0.03	$0.47	$0.71	F	F
SJO	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
SJO	Miscellaneous	Cooling_DX	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
SJO	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
SJO	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	B	B
SJO	Miscellaneous	Cooling_DX	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
SJO	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.024	2.12	0.00	0.02	$0.18	$0.20	F	F
SJO	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	79.7%	79.7%	0.359	2.12	0.25	0.32	$0.26	$0.29	F	F
SJO	Miscellaneous	Cooling_DX	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
SJO	Miscellaneous	Cooling_DX	Electric	Stock	Existing	2.39	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	40.2%	20.1%	0.050	1.70	0.01	0.04	$0.47	$0.66	F	F
SJO	Miscellaneous	Cooling_DX	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
SJO	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
SJO	Miscellaneous	Cooling_HeatPump	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
SJO	Miscellaneous	Cooling_HeatPump	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	B	B
SJO	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
SJO	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.024	2.12	0.00	0.02	$0.18	$0.20	F	F
SJO	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	79.7%	79.7%	0.359	2.12	0.25	0.32	$0.26	$0.29	F	F
SJO	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
SJO	Miscellaneous	Cooling_HeatPump	Electric	Stock	Existing	2.39	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	40.2%	20.1%	0.050	1.70	0.01	0.04	$0.47	$0.66	F	F
SJO	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
SJO	Miscellaneous	Lighting_2L4T12	Electric	Stock	Existing	2.12	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.43	21	20.0%	95.0%	19.0%	0.636	2.12	0.12	0.64	$0.07	$0.07	D	D
SJO	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%	1.295	2.12	0.43	1.30	$0.10	$0.10	F	F
SJO	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
SJO	Miscellaneous	Lighting_2L4T12	Electric	Stock	Existing	2.12	4' 1L T5HO, EB	13.9%	$ 0.56	36	33.3%	100.0%	33.3%	0.295	2.12	0.10	0.29	$0.16	$0.16	F	F
SJO	Miscellaneous	Lighting_2L4T12	Electric	Stock	Existing	2.12	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.62	28	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	$0.22	$0.22	F	F
SJO	Miscellaneous	Lighting_2L4T8	Electric	Stock	Existing	1.7	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.43	21	20.0%	95.0%	19.0%	0.510	1.70	0.10	0.51	$0.09	$0.09	E	E
SJO	Miscellaneous	Lighting_2L4T8	Electric	Stock	Existing	1.7	4' 2L T8 Premium, EB	8.5%	$ 0.25	36	100.0%	100.0%	100.0%	0.145	1.70	0.14	0.14	$0.15	$0.15	F	F
SJO	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	A
SJO	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	0.28	[illegible]	[illegible]	[illegible]	[illegible]	C

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Miscellaneous	Lighting_2L8T12	Electric	Stock	Existing	2.12	8' 2L T12, 60W, EB	10.6%	$ 0.17	36	25.0%	46.2%	11.5%	0.224	2.12	0.03	0.22	$0.07	$0.07	D	D
SJD	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	0.84	$0.09	$0.09	E	E
SJD	Miscellaneous	Lighting_2L8T12	Electric	Stock	Existing	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
SJD	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 1L T5HO, EB	46.1%	$ 0.03	36	75.0%	100.0%	75.0%	0.977	2.12	0.73	0.98	$0.00	$0.00	A	A
SJD	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 3L T8, EB	22.5%	$ 0.03	36	75.0%	100.0%	75.0%	0.479	2.12	0.36	0.48	$0.01	$0.01	A	A
SJD	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.19	36	40.0%	100.0%	40.0%	1.125	2.12	0.45	1.12	$0.01	$0.01	A	A
SJD	Miscellaneous	Lighting_3L4T12	Electric	Stock	Existing	2.12	4' 3L T8 Premium, EB	22.6%	$ 0.08	36	75.0%	100.0%	75.0%	0.479	2.12	0.36	0.48	$0.02	$0.02	A	A
SJD	Miscellaneous	Lighting_3L4T8	Electric	Stock	Existing	1.7	4' 3L T8 Premium, EB	6.7%	$ 0.41	36	100.0%	100.0%	100.0%	0.114	1.70	0.11	0.11	$0.31	$0.31	F	F
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	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
SJD	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	A	A
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	2.12	4' 4L T8, EB	22.2%	$ 0.19	36	16.7%	100.0%	16.7%	0.471	2.12	0.08	0.47	$0.04	$0.04	B	B
SJD	Miscellaneous	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	C	C
SJD	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	C
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	Existing	2.12	4' 4L T8 Premium, EB	25.0%	$ 0.48	36	16.7%	100.0%	16.7%	0.530	2.12	0.09	0.53	$0.08	$0.08	E	E
SJD	Miscellaneous	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
SJD	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	F
SJD	Miscellaneous	Lighting_4L4T8	Electric	Stock	Existing	1.7	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.49	21	20.0%	95.0%	19.0%	0.510	1.70	0.10	0.51	$0.10	$0.10	F	F
SJD	Miscellaneous	Lighting_4L4T8	Electric	Stock	Existing	1.7	4' 4L T8 Premium, EB	3.6%	$ 0.28	36	100.0%	100.0%	100.0%	0.061	1.70	0.06	0.06	$0.40	$0.40	F	F
SJD	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
SJD	Miscellaneous	Lighting_INC150W	Electric	Stock	Existing	2.12	HPS, 50W	58.0%	$ 5.25	12	45.0%	98.0%	44.1%	1.187	2.12	0.52	1.19	$0.62	$0.62	F	F
SJD	Miscellaneous	Lighting_INC150W	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
SJD	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
SJD	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
SJD	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	Smart Networks	6.8%	$ 0.01	4	90.0%	40.0%	36.0%	0.069	1.00	0.02	0.07	$0.03	$0.03	A	A
SJD	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	ENERGY STAR or Better Office Equipment: Copiers	11.4%	$ 0.04	4	100.0%	65.0%	65.0%	0.114	0.98	0.07	0.11	$0.12	$0.13	F	F
SJD	Miscellaneous	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
SJD	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	ENERGY STAR or Better Office Equipment: Computer	18.6%	$ 0.15	4	100.0%	65.0%	65.0%	0.186	0.80	0.10	0.15	$0.26	$0.32	F	F
SJD	Miscellaneous	Plug_Load	Electric	Stock	Existing	1	ENERGY STAR or Better Office Equipment: Printers	9.2%	$ 0.11	4	100.0%	65.0%	65.0%	0.092	0.70	0.04	0.06	$0.38	$0.54	F	F
SJD	Miscellaneous	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
SJD	Miscellaneous	Space_Heat	Electric	Stock	Existing	2.76	Duct Insulation	2.0%	$ 0.01	20	25.0%	83.4%	20.9%	0.055	2.75	0.01	0.06	$0.02	$0.02	A	A
SJD	Miscellaneous	Space_Heat	Electric	Stock	Existing	2.76	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	41.8%	41.8%	0.828	2.74	0.34	0.82	$0.03	$0.03	A	A
SJD	Miscellaneous	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
SJD	Miscellaneous	Space_Heat	Electric	Stock	Existing	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	$0.25	$0.29	F	F
SJD	Miscellaneous	Space_Heat	Electric	Stock	Existing	2.76	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.22	20	50.0%	13.4%	6.7%	0.083	2.33	0.00	0.07	$0.28	$0.34	F	F
SJD	Miscellaneous	Water_Heat	Electric	Stock	Existing	1.65	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.01	15	50.0%	100.0%	50.0%	0.083	1.65	0.04	0.06	$0.01	$0.01	A	A
SJD	Miscellaneous	Water_Heat	Electric	Stock	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
SJD	Miscellaneous	Water_Heat	Electric	Stock	Existing	1.65	Demand controlled circulating systems	5.0%	$ 5.32	15	50.0%	100.0%	50.0%	0.083	1.25	0.03	0.06	$7.94	$10.51	F	F
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.045	4.49	0.03	0.04	$0.00	$0.00	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.02	30	50.0%	100.0%	50.0%	0.242	3.84	0.10	0.21	$0.01	$0.01	A	A
SJD	Restaurant	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	B	C
SJD	Restaurant	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
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.29	15	50.0%	80.0%	40.0%	0.539	3.54	0.17	0.42	$0.07	$0.08	D	E
SJD	Restaurant	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	E
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Chiller Tune-Up / Diagnostics	5.0%	$ 0.07	5	100.0%	90.0%	90.0%	0.225	3.20	0.14	0.16	$0.09	$0.12	E	F
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.13	10	33.0%	50.0%	16.5%	0.225	3.06	0.03	0.15	$0.09	$0.13	E	F
SJD	Restaurant	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
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	100.0%	50.0%	0.094	2.88	0.03	0.06	$0.25	$0.39	F	F
SJD	Restaurant	Cooling_Chillers	Electric	Stock	Existing	4.49	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.22	20	50.0%	100.0%	50.0%	0.040	2.85	0.01	0.03	$0.59	$0.93	F	F
SJD	Restaurant	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
SJD	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Clock / Programmable Thermostat	10.0%	$ 0.04	10	100.0%	80.4%	80.4%	0.449	4.48	0.36	0.45	$0.01	$0.01	A	A
SJD	Restaurant	Cooling_DX	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	A	A
SJD	Restaurant	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
SJD	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Duct Repair and Sealing	1.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.045	3.82	0.00	0.04	$0.09	$0.11	E	F
SJD	Restaurant	Cooling_DX	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
SJD	Restaurant	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	$0.18	F	F
SJD	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	100.0%	50.0%	0.094	3.18	0.03	0.07	$0.25	$0.36	F	F
SJD	Restaurant	Cooling_DX	Electric	Stock	Existing	4.49	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.22	20	50.0%	100.0%	50.0%	0.040	3.15	0.01	0.03	$0.59	$0.84	F	F
SJD	Restaurant	Cooling_HeatPump	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
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Clock / Programmable Thermostat	10.0%	$ 0.04	10	100.0%	80.4%	80.4%	0.449	4.48	0.36	0.45	$0.01	$0.01	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	Cooling_HeatPump	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
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Duct Repair and Sealing	1.0%	$ 0.04	20	50.0%	50.0%	25.0%	0.045	3.82	0.01	0.04	$0.09	$0.11	E	F
SJD	Restaurant	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
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	DX Tune-Up / Diagnostics	10.0%	$ 0.15	3	100.0%	90.0%	90.0%	0.449	3.49	0.31	0.35	$0.14	$0.18	F	F
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.22	20	50.0%	100.0%	50.0%	0.094	3.18	0.03	0.07	$0.25	$0.36	F	F
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	Existing	4.49	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.22	20	50.0%	100.0%	50.0%	0.040	3.14	0.01	0.03	$0.59	$0.84	F	F
SJD	Restaurant	Lighting_2L4T12	Electric	Stock	Existing	8.74	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.46	13	10.0%	95.7%	9.6%	2.622	8.74	0.25	2.62	$0.02	$0.02	A	A
SJD	Restaurant	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	B	B
SJD	Restaurant	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	$0.04	$0.04	B	B
SJD	Restaurant	Lighting_2L4T12	Electric	Stock	Existing	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	C	C
SJD	Restaurant	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
SJD	Restaurant	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	A	A
SJD	Restaurant	Lighting_2L4T8	Electric	Stock	Existing	6.99	4' 2L T8 Premium, EB	8.5%	$ 0.27	22	100.0%	100.0%	100.0%	0.594	6.99	0.59	0.59	$0.05	$0.05	C	C
SJD	Restaurant	Lighting_2L8T12	Electric	Stock	Existing	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
SJD	Restaurant	Lighting_2L8T12	Electric	Stock	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	A	A
SJD	Restaurant	Lighting_2L8T12	Electric	Stock	Existing	8.74	8' 2L T12, 60W, EB	10.6%	$ 0.18	22	25.0%	68.1%	17.0%	0.924	8.74	0.18	0.92	$0.02	$0.02	A	A
SJD	Restaurant	Lighting_2L8T12	Electric	Stock	Existing	8.74	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.58	13	10.0%	95.7%	9.6%	2.622	8.74	0.25	2.62	$0.03	$0.03	A	A
SJD	Restaurant	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	E
SJD	Restaurant	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	A	A
SJD	Restaurant	Lighting_3L4T12	Electric	Stock	Existing	8.74	4' 3L T8, EB	22.6%	$ 0.04	22	75.0%	100.0%	75.0%	1.976	8.74	1.48	1.98	$0.00	$0.00	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	Lighting_3L4T8	Electric	Stock	Existing	6.99	4' 3L T8 Premium, EB	6.7%	$ 0.43	22	100.0%	100.0%	100.0%	0.468	6.99	0.47	0.47	$0.09	$0.09	E	E
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 3L T8, EB	38.2%	$ 0.10	22	16.7%	100.0%	16.7%	3.339	8.74	0.56	3.34	$0.00	$0.00	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 4L T8, EB	22.2%	$ 0.21	22	16.7%	100.0%	16.7%	1.942	8.74	0.32	1.94	$0.01	$0.01	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.78	22	16.7%	100.0%	16.7%	5.483	8.74	0.91	5.48	$0.01	$0.01	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	8.74	4' 2L T5HO, EB	18.8%	$ 0.29	22	16.7%	100.0%	16.7%	1.639	8.74	0.27	1.64	$0.02	$0.02	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	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	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	Existing	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
SJD	Restaurant	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	B	B
SJD	Restaurant	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	E	F
SJD	Restaurant	Lighting_INC150W	Electric	Stock	Existing	8.74	Halogen PAR Flood, 90W	40.0%	$ 0.19	1	10.0%	100.0%	10.0%	3.498	8.74	0.35	3.50	$0.01	$0.01	C	D

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Restaurant	Lighting_INC150W	Electric	Stock	Existing	8.74	HPS, 50W	58.0%	$ 5.10	8	45.0%	90.4%	40.7%	4.894	8.74	1.99	4.89	$0.19	$0.19	F	F
SJD	Restaurant	Lighting_INC150W	Electric	Stock	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	Restaurant	Lighting_INC40W	Electric	Stock	Existing	8.74	LED Exit Signs	80.0%	$ 0.08	20	90.0%	90.0%	81.0%	6.992	8.74	5.66	6.99	$0.00	$0.00	A	A
SJD	Restaurant	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	E
SJD	Restaurant	Plug_Load	Electric	Stock	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	Restaurant	Plug_Load	Electric	Stock	Existing	0.23	ENERGY STAR or Better Office Equipment: Monitors	16.3%	$ 0.02	4	100.0%	71.0%	71.0%	0.038	0.22	0.03	0.04	$0.13	$0.14	F	F
SJD	Restaurant	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
SJD	Restaurant	Plug_Load	Electric	Stock	Existing	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	Restaurant	Plug_Load	Electric	Stock	Existing	0.23	ENERGY STAR or Better Office Equipment: Printers	15.0%	$ 0.04	4	100.0%	65.0%	65.0%	0.034	0.17	0.02	0.02	$0.34	$0.47	F	F
SJD	Restaurant	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	A	A
SJD	Restaurant	Refrigeration	Electric	Stock	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	Restaurant	Refrigeration	Electric	Stock	Existing	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
SJD	Restaurant	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	B	B
SJD	Restaurant	Refrigeration	Electric	Stock	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	C	C
SJD	Restaurant	Refrigeration	Electric	Stock	Existing	7.67	Demand Control Defrost - Hot Gas	2.5%	$ 0.07	10	100.0%	69.6%	69.6%	0.192	6.71	0.12	0.17	$0.05	$0.06	C	D
SJD	Restaurant	Refrigeration	Electric	Stock	Existing	7.67	Refrigeration Commissioning	5.0%	$ 0.06	3	100.0%	50.0%	50.0%	0.384	6.60	0.18	0.33	$0.07	$0.08	D	E
SJD	Restaurant	Refrigeration	Electric	Stock	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	Restaurant	Refrigeration	Electric	Stock	Existing	7.67	High Efficiency Case Fans	12.0%	$ 1.16	18	100.0%	95.0%	95.0%	0.919	6.24	0.71	0.75	$0.15	$0.18	F	F
SJD	Restaurant	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
SJD	Restaurant	Space_Heat	Electric	Stock	Existing	3.76	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.075	3.76	0.01	0.06	$0.02	$0.02	A	A
SJD	Restaurant	Space_Heat	Electric	Stock	Existing	3.76	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	46.2%	46.2%	1.128	3.75	0.52	1.13	$0.02	$0.02	A	A
SJD	Restaurant	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	C	C
SJD	Restaurant	Space_Heat	Electric	Stock	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	Restaurant	Space_Heat	Electric	Stock	Existing	3.76	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.188	3.15	0.08	0.16	$0.18	$0.22	F	F
SJD	Restaurant	Space_Heat	Electric	Stock	Existing	3.76	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.22	20	50.0%	67.0%	33.5%	0.113	3.07	0.03	0.09	$0.21	$0.26	F	F
SJD	Restaurant	Water_Heat	Electric	Stock	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	Restaurant	Water_Heat	Electric	Stock	Existing	9.19	Heat Pump Water Heater	30.0%	$ 1.80	15	75.0%	100.0%	75.0%	2.757	8.96	2.02	2.69	$0.08	$0.08	E	E
SJD	Restaurant	Water_Heat	Electric	Stock	Existing	9.19	Demand controlled circulating systems	5.0%	$ 2.83	15	50.0%	100.0%	50.0%	0.460	6.94	0.17	0.35	$0.76	$1.00	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	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	A	A
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.440	3.12	0.20	0.44	$0.00	$0.00	A	A
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	High Efficiency Windows, Low-e; U=0.35	10.3%	$ 0.03	30	75.0%	100.0%	75.0%	0.324	2.92	0.23	0.30	$0.01	$0.01	A	A
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	VSD Cooling Tower, 300 Tons	18.0%	$ 0.08	15	50.0%	90.0%	45.0%	0.565	2.69	0.22	0.48	$0.01	$0.02	A	A
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Installation of Energy Management Systems	10.0%	$ 0.15	10	50.0%	100.0%	50.0%	0.314	2.48	0.12	0.25	$0.08	$0.10	E	E
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Insulation of Pipes	1.0%	$ 0.03	20	50.0%	50.0%	25.0%	0.031	2.35	0.01	0.02	$0.09	$0.12	E	E
SJD	Retail	Cooling_Chillers	Electric	Stock	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	Cooling_Chillers	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	2.23	0.11	0.22	$0.12	$0.17	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.17	10	33.0%	50.0%	16.5%	0.157	2.12	0.02	0.11	$0.17	$0.25	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	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	F	F
SJD	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
SJD	Retail	Cooling_Chillers	Electric	Stock	Existing	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	1.98	0.01	0.02	$0.89	$1.41	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	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	Cooling_DX	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
SJD	Retail	Cooling_DX	Electric	Stock	Existing	3.14	Duct Insulation	3.0%	$ 0.03	20	25.0%	25.0%	6.3%	0.094	2.98	0.01	0.09	$0.04	$0.04	B	B
SJD	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	2.88	0.11	0.15	$0.05	$0.05	B	C
SJD	Retail	Cooling_DX	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	F	F
SJD	Retail	Cooling_DX	Electric	Stock	Existing	3.14	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.031	2.72	0.00	0.03	$0.14	$0.16	F	F
SJD	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	2.72	0.38	0.41	$0.20	$0.23	F	F
SJD	Retail	Cooling_DX	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
SJD	Retail	Cooling_DX	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	2.13	0.02	0.04	$0.38	$0.58	F	F
SJD	Retail	Cooling_DX	Electric	Stock	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	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	0.18	0.31	$0.03	$0.03	A	A
SJD	Retail	Cooling_HeatPump	Electric	Stock	Existing	3.14	Duct Insulation	3.0%	$ 0.03	20	25.0%	25.0%	6.3%	0.094	2.98	0.01	0.09	$0.04	$0.04	B	B
SJD	Retail	Cooling_HeatPump	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	2.98	0.11	0.15	$0.05	$0.05	B	C
SJD	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	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	Existing	3.14	Duct Repair and Sealing	1.0%	$ 0.04	20	25.0%	50.0%	12.5%	0.031	2.72	0.00	0.03	$0.14	$0.16	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	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	F	F
SJD	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
SJD	Retail	Cooling_HeatPump	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	2.13	0.02	0.04	$0.38	$0.58	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	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	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	B	B
SJD	Retail	Lighting_2L4T12	Electric	Stock	Existing	5.89	4' 1L T8 Premium, EB, reflector	81.1%	$ 1.80	25	33.3%	100.0%	33.3%	3.599	5.89	1.20	3.60	$0.05	$0.05	C	C
SJD	Retail	Lighting_2L4T12	Electric	Stock	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	C	C
SJD	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	5.88	0.27	0.82	$0.08	$0.08	E	E
SJD	Retail	Lighting_2L4T12	Electric	Stock	Existing	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
SJD	Retail	Lighting_2L4T8	Electric	Stock	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	C
SJD	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
SJD	Retail	Lighting_2L8T12	Electric	Stock	Existing	5.89	8' 2L T8, EB	52.8%	$ 0.44	25	50.0%	100.0%	50.0%	3.110	5.89	1.55	3.11	$0.01	$0.01	A	A
SJD	Retail	Lighting_2L8T12	Electric	Stock	Existing	5.89	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.98	25	25.0%	100.0%	25.0%	3.257	5.89	0.81	3.26	$0.03	$0.03	A	A
SJD	Retail	Lighting_2L8T12	Electric	Stock	Existing	5.89	8' 2L T12, 60W, EB	10.6%	$ 0.21	25	25.0%	95.4%	23.9%	0.623	5.89	0.15	0.62	$0.03	$0.03	B	B
SJD	Retail	Lighting_2L8T12	Electric	Stock	Existing	5.89	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.67	14	10.0%	100.0%	10.0%	1.767	5.89	0.18	1.77	$0.05	$0.05	C	C
SJD	Retail	Lighting_2L8T12	Electric	Stock	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	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 1L T5HO, EB	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
SJD	Retail	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 3L T8, EB	22.6%	$ 0.11	25	75.0%	100.0%	75.0%	1.332	5.89	1.00	1.33	$0.01	$0.01	A	A
SJD	Retail	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.70	25	40.0%	100.0%	40.0%	3.124	5.88	1.25	3.12	$0.02	$0.02	A	A
SJD	Retail	Lighting_3L4T12	Electric	Stock	Existing	5.89	4' 3L T8 Premium, EB	22.6%	$ 0.31	25	75.0%	100.0%	75.0%	1.332	5.89	1.00	1.33	$0.02	$0.02	A	A
SJD	Retail	Lighting_3L4T8	Electric	Stock	Existing	4.71	4' 3L T8 Premium, EB	6.7%	$ 0.49	25	100.0%	100.0%	100.0%	0.316	4.71	0.32	0.32	$0.15	$0.15	F	F
SJD	Retail	Lighting_4L4T12	Electric	Stock	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	Lighting_4L4T12	Electric	Stock	Existing	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
SJD	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	4' 4L T8, EB	22.2%	$ 0.23	25	16.7%	100.0%	16.7%	1.309	5.89	0.22	1.31	$0.02	$0.02	A	A
SJD	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.83	25	16.7%	100.0%	15.7%	3.681	5.89	0.61	3.68	$0.02	$0.02	A	A
SJD	Retail	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
SJD	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	4' 4L T8 Premium, EB	25.0%	$ 0.55	25	16.7%	100.0%	16.7%	1.473	5.89	0.25	1.47	$0.04	$0.04	B	B
SJD	Retail	Lighting_4L4T12	Electric	Stock	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	B	B
SJD	Retail	Lighting_4L4T12	Electric	Stock	Existing	5.89	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 4.37	18	50.0%	100.0%	50.0%	4.418	5.88	2.21	4.42	$0.11	$0.11	F	F
SJD	Retail	Lighting_4L4T8	Electric	Stock	Existing	4.71	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.58	14	10.0%	100.0%	10.0%	1.413	4.71	0.14	1.41	$0.05	$0.05	C	C
SJD	Retail	Lighting_4L4T8	Electric	Stock	Existing	4.71	4' 4L T8 Premium, EB	3.8%	$ 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	Lighting_INC150W	Electric	Stock	Existing	5.89	Halogen PAR Flood, 90W	40.0%	$ 0.19	1	10.0%	99.3%	9.9%	2.358	5.89	0.23	2.36	$0.09	$0.09	E	E
SJD	Retail	Lighting_INC150W	Electric	Stock	Existing	5.89	HPS, 50W	58.0%	$ 5.13	8	45.0%	91.6%	41.2%	3.298	5.89	1.35	3.30	$0.29	$0.29	F	F
SJD	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
SJD	Retail	Lighting_INC40W	Electric	Stock	Existing	5.89	LED Exit Signs	80.0%	$ 0.08	20	90.0%	90.0%	81.0%	4.712	5.89	3.82	4.71	$0.00	$0.00	A	A
SJD	Retail	Lighting_INC75W	Electric	Stock	Existing	5.89	CFL Screw-in, Modular 18W	65.3%	$ 2.80	7	50.0%	75.0%	37.5%	3.846	5.89	1.44	3.85	$0.15	$0.15	F	F
SJD	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
SJD	Retail	Plug_Load	Electric	Stock	Existing	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
SJD	Retail	Plug_Load	Electric	Stock	Existing	0.15	ENERGY STAR or Better Office Equipment: Copiers	9.6%	$ 0.01	4	100.0%	65.0%	65.0%	0.014	0.13	0.01	0.01	$0.12	$0.13	F	F
SJD	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
SJD	Retail	Plug_Load	Electric	Stock	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	[illegible]	[illegible]	[illegible]	[illegible]	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Retail	Space_Heat	Electric	Stock	Existing	4.59	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.092	4.59	0.01	0.09	$0.01	$0.01	A	A
SJD	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
SJD	Retail	Space_Heat	Electric	Stock	Existing	4.59	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	50.0%	50.0%	1.377	4.58	0.68	1.37	$0.02	$0.02	A	A
SJD	Retail	Space_Heat	Electric	Stock	Existing	4.59	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.24	20	50.0%	55.7%	27.9%	0.321	3.88	0.08	0.27	$0.08	$0.09	E	E
SJD	Retail	Space_Heat	Electric	Stock	Existing	4.59	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.230	3.80	0.09	0.19	$0.15	$0.18	F	F
SJD	Retail	Space_Heat	Electric	Stock	Existing	4.59	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	55.7%	27.9%	0.138	3.70	0.03	0.11	$0.18	$0.23	F	F
SJD	Retail	Water_Heat	Electric	Stock	Existing	1.01	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.03	15	50.0%	100.0%	50.0%	0.051	1.01	0.03	0.05	$0.06	$0.06	D	D
SJD	Retail	Water_Heat	Electric	Stock	Existing	1.01	Heat Pump Water Heater	30.0%	$ 2.49	15	75.0%	100.0%	75.0%	0.303	0.98	0.22	0.30	$1.01	$1.04	F	F
SJD	Retail	Water_Heat	Electric	Stock	Existing	1.01	Demand controlled circulating systems	5.0%	$ 3.80	15	50.0%	100.0%	50.0%	0.051	0.78	0.02	0.04	$9.50	$12.58	F	F
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.015	1.51	0.01	0.02	$0.00	$0.00	A	A
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.01	15	50.0%	90.0%	45.0%	0.211	1.50	0.09	0.21	$0.00	$0.00	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	A	A
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	High Efficiency Windows, Low-e; U=0.35	3.9%	$ 0.02	30	75.0%	66.0%	49.5%	0.059	1.29	0.02	0.05	$0.03	$0.03	A	B
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Insulation of Pipes	1.0%	$ 0.02	20	50.0%	50.0%	25.0%	0.015	1.27	0.00	0.01	$0.11	$0.13	F	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
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.34	15	50.0%	80.0%	40.0%	0.181	1.22	0.06	0.15	$0.23	$0.28	F	F
SJD	School	Cooling_Chillers	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	1.16	0.06	0.12	$0.23	$0.30	F	F
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Chiller Tune-Up / Diagnostics	5.0%	$ 0.08	5	100.0%	90.0%	90.0%	0.076	1.10	0.05	0.06	$0.30	$0.42	F	F
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.15	10	33.0%	50.0%	16.5%	0.076	1.05	0.01	0.05	$0.31	$0.45	F	F
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	81.3%	40.6%	0.151	1.04	0.04	0.10	$0.42	$0.60	F	F
SJD	School	Cooling_Chillers	Electric	Stock	Existing	1.51	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	23.4%	11.7%	0.032	1.00	0.00	0.02	$0.78	$1.18	F	F
SJD	School	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
SJD	School	Cooling_DX	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
SJD	School	Cooling_DX	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	C	C
SJD	School	Cooling_DX	Electric	Stock	Existing	1.51	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.04	30	75.0%	66.0%	49.5%	0.076	1.45	0.04	0.07	$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
SJD	School	Cooling_DX	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
SJD	School	Cooling_DX	Electric	Stock	Existing	1.51	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	41.1%	41.1%	0.227	1.34	0.08	0.20	$0.41	$0.47	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
SJD	School	Cooling_DX	Electric	Stock	Existing	1.51	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	23.4%	11.7%	0.032	1.14	0.00	0.02	$0.78	$1.03	F	F
SJD	School	Cooling_DX	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	1.14	0.00	0.01	$1.83	$2.42	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
SJD	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	C	C
SJD	School	Cooling_HeatPump	Electric	Stock	Existing	1.51	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.04	30	75.0%	66.0%	49.5%	0.076	1.45	0.04	0.07	$0.05	$0.05	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
SJD	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
SJD	School	Cooling_HeatPump	Electric	Stock	Existing	1.51	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	41.1%	41.1%	0.227	1.34	0.08	0.20	$0.41	$0.47	F	F
SJD	School	Cooling_HeatPump	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
SJD	School	Cooling_HeatPump	Electric	Stock	Existing	1.51	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	23.4%	11.7%	0.032	1.14	0.00	0.02	$0.78	$1.03	F	F
SJD	School	Cooling_HeatPump	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	1.14	0.00	0.01	$1.83	$2.42	F	F
SJD	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.40	20	50.0%	94.7%	47.4%	0.804	2.68	0.38	0.80	$0.05	$0.05	C	C
SJD	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.40	34	33.3%	100.0%	33.3%	1.638	2.68	0.55	1.64	$0.08	$0.08	E	E
SJD	School	Lighting_2L4T12	Electric	Stock	Existing	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	E	E
SJD	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	4' 1L T5HO, EB	13.9%	$ 0.52	34	33.3%	100.0%	33.3%	0.373	2.68	0.12	0.37	$0.12	$0.12	F	F
SJD	School	Lighting_2L4T12	Electric	Stock	Existing	2.68	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.36	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
SJD	School	Lighting_2L4T8	Electric	Stock	Existing	2.14	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.40	20	50.0%	94.7%	47.4%	0.642	2.14	0.30	0.64	$0.07	$0.07	D	D
SJD	School	Lighting_2L4T8	Electric	Stock	Existing	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
SJD	School	Lighting_2L8T12	Electric	Stock	Existing	2.68	8' 2L T8, EB	52.8%	$ 0.38	34	50.0%	100.0%	50.0%	1.415	2.68	0.71	1.42	$0.02	$0.02	A	A
SJD	School	Lighting_2L8T12	Electric	Stock	Existing	2.68	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.70	34	25.0%	100.0%	25.0%	1.482	2.68	0.37	1.48	$0.05	$0.05	C	C
SJD	School	Lighting_2L8T12	Electric	Stock	Existing	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	C
SJD	School	Lighting_2L8T12	Electric	Stock	Existing	2.68	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.55	20	50.0%	94.7%	47.4%	0.804	2.68	0.38	0.80	$0.07	$0.07	D	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
SJD	School	Lighting_3L4T12	Electric	Stock	Existing	2.68	4' 1L T5HO, EB	48.1%	$ 0.04	34	75.0%	100.0%	75.0%	1.235	2.68	0.93	1.24	$0.00	$0.00	A	A
SJD	School	Lighting_3L4T12	Electric	Stock	Existing	2.68	4' 3L T8, EB	22.8%	$ 0.04	34	75.0%	100.0%	75.0%	0.606	2.68	0.45	0.61	$0.01	$0.01	A	A
SJD	School	Lighting_3L4T12	Electric	Stock	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
SJD	School	Lighting_3L4T12	Electric	Stock	Existing	2.68	4' 3L T8 Premium, EB	22.8%	$ 0.10	34	75.0%	100.0%	75.0%	0.606	2.68	0.45	0.61	$0.02	$0.02	A	A
SJD	School	Lighting_3L4T8	Electric	Stock	Existing	2.14	4' 3L T8 Premium, EB	6.7%	$ 0.38	34	100.0%	100.0%	100.0%	0.143	2.14	0.14	0.14	$0.23	$0.23	F	F
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 3L T8, EB	38.2%	$ 0.09	34	16.7%	100.0%	16.7%	1.024	2.68	0.17	1.02	$0.01	$0.01	A	A
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 3L T8 Premium, EB	42.4%	$ 0.28	34	16.7%	100.0%	16.7%	1.135	2.68	0.19	1.14	$0.02	$0.02	A	A
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.68	34	16.7%	100.0%	16.7%	1.675	2.68	0.28	1.68	$0.04	$0.04	B	B
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	4' 2L T5HO, EB	19.8%	$ 0.28	34	16.7%	100.0%	16.7%	0.503	2.68	0.08	0.50	$0.05	$0.05	C	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	C	C
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.47	20	50.0%	94.7%	47.4%	0.804	2.68	0.38	0.80	$0.06	$0.06	D	D
SJD	School	Lighting_4L4T12	Electric	Stock	Existing	2.68	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.52	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
SJD	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	E	E
SJD	School	Lighting_4L4T8	Electric	Stock	Existing	2.14	4' 4L T8 Premium, EB	3.6%	$ 0.27	34	100.0%	100.0%	100.0%	0.077	2.14	0.08	0.08	$0.31	$0.31	F	F
SJD	School	Lighting_INC150W	Electric	Stock	Existing	2.68	Halogen PAR Flood, 90W	40.0%	$ 0.08	1	10.0%	97.3%	9.7%	1.072	2.68	0.10	1.07	$0.08	$0.08	E	E
SJD	School	Lighting_INC150W	Electric	Stock	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
SJD	School	Lighting_INC150W	Electric	Stock	Existing	2.68	Metal Halide, 50W	52.0%	$ 4.09	12	45.0%	85.5%	38.5%	1.394	2.68	0.54	1.39	$0.41	$0.41	F	F
SJD	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
SJD	School	Lighting_INC75W	Electric	Stock	Existing	2.68	CFL Screw-in, Modular 18W	65.3%	$ 1.92	10	90.0%	88.4%	79.6%	1.750	2.68	1.39	1.75	$0.17	$0.17	F	F
SJD	School	Plug_Load	Electric	Stock	Existing	0.11	Smart Networks	7.2%	$ 0.00	4	90.0%	40.0%	36.0%	0.008	0.11	0.00	0.01	$0.19	$0.19	F	F
SJD	School	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
SJD	School	Plug_Load	Electric	Stock	Existing	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	$0.99	$1.08	F	F
SJD	School	Plug_Load	Electric	Stock	Existing	0.11	ENERGY STAR or Better Office Equipment: Printers	11.2%	$ 0.08	4	100.0%	65.0%	65.0%	0.012	0.09	0.01	0.01	$1.69	$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
SJD	School	Space_Heat	Electric	Stock	Existing	2.77	Duct Repair and Sealing	2.0%	$ 0.00	20	25.0%	50.0%	12.5%	0.055	2.77	0.01	0.06	$0.01	$0.01	A	A
SJD	School	Space_Heat	Electric	Stock	Existing	2.77	Duct Insulation	2.0%	$ 0.01	20	25.0%	71.8%	18.0%	0.055	2.78	0.01	0.06	$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%	0.631	2.75	0.34	0.63	$0.03	$0.03	A	A
SJD	School	Space_Heat	Electric	Stock	Existing	2.77	Ceiling R-0 to R-19 Insulation	7.0%	$ 0.23	20	50.0%	44.9%	22.5%	0.194	2.41	0.04	0.17	$0.13	$0.15	F	F
SJD	School	Space_Heat	Electric	Stock	Existing	2.77	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.139	2.38	0.06	0.12	$0.25	$0.29	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
SJD	School	Water_Heat	Electric	Stock	Existing	0.9	Hot Water (SHW) Pipe Insulation	5.0%	$ 0.02	15	50.0%	9.9%	4.9%	0.045	0.90	0.00	0.05	$0.04	$0.04	B	B
SJD	School	Water_Heat	Electric	Stock	Existing	0.9	Heat Pump Water Heater	30.0%	$ 2.53	15	75.0%	87.2%	65.4%	0.270	0.90	0.18	0.27	$1.15	$1.16	F	F
SJD	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
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	EMS Optimization	1.0%	$ -	5	100.0%	75.0%	75.0%	0.042	4.19	0.03	0.04	$0.00	$0.00	A	A
SJD	Small_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	A	A
SJD	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	A	A
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	VSD Cooling Tower, 300 Tons	18.0%	$ 0.07	15	50.0%	90.0%	45.0%	0.754	3.89	0.31	0.70	$0.01	$0.01	A	A
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	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	$0.02	A	A
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Energy Management Systems	10.0%	$ 0.18	10	50.0%	19.1%	9.5%	0.419	3.33	0.03	0.33	$0.07	$0.09	D	E
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.29	0.16	0.40	$0.11	$0.14	F	F
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
SJD	Small_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	F	F
SJD	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Installation of Chiller Economizers (water side)	10.0%	$ 0.59	20	50.0%	56.9%	28.4%	0.419	2.84	0.08	[illegible]	[illegible]	[illegible]	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJO	Small_Office	Cooling_Chillers	Electric	Stock	Existing	4.19	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.20	10	33.0%	50.0%	16.5%	0.210	2.78	0.02	0.14	$0.15	$0.23	F	F
SJO	Small_Office	Cooling_Chillers	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	2.74	0.00	0.08	$0.20	$0.30	F	F
SJO	Small_Office	Cooling_Chillers	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	2.74	0.00	0.02	$0.46	$0.70	F	F
SJO	Small_Office	Cooling_DX	Electric	Stock	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	A	A
SJO	Small_Office	Cooling_DX	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	A	A
SJO	Small_Office	Cooling_DX	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
SJO	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
SJO	Small_Office	Cooling_DX	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
SJO	Small_Office	Cooling_DX	Electric	Stock	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
SJO	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
SJO	Small_Office	Cooling_DX	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
SJO	Small_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
SJO	Small_Office	Cooling_HeatPump	Electric	Stock	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	A	A
SJO	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	A	A
SJO	Small_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
SJO	Small_Office	Cooling_HeatPump	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
SJO	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
SJO	Small_Office	Cooling_HeatPump	Electric	Stock	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
SJO	Small_Office	Cooling_HeatPump	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
SJO	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
SJO	Small_Office	Cooling_HeatPump	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
SJO	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	C	C
SJO	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	C	C
SJO	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
SJO	Small_Office	Lighting_2L4T12	Electric	Stock	Existing	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
SJO	Small_Office	Lighting_2L4T12	Electric	Stock	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
SJO	Small_Office	Lighting_2L4T8	Electric	Stock	Existing	4.24	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.45	9	40.0%	79.6%	31.8%	1.272	4.24	0.40	1.27	$0.06	$0.06	D	D
SJO	Small_Office	Lighting_2L4T8	Electric	Stock	Existing	4.24	4' 2L T8 Premium, EB	6.5%	$ 0.27	16	100.0%	100.0%	100.0%	0.360	4.24	0.36	0.36	$0.09	$0.09	E	E
SJO	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	A	A
SJO	Small_Office	Lighting_2L8T12	Electric	Stock	Existing	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	B	B
SJO	Small_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	B	B
SJO	Small_Office	Lighting_2L8T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.54	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	C
SJO	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
SJO	Small_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 1L T5HO, EB	46.1%	$ 0.05	16	75.0%	100.0%	75.0%	2.438	5.29	1.83	2.44	$0.00	$0.00	A	A
SJO	Small_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	22.6%	$ 0.05	16	75.0%	100.0%	75.0%	1.198	5.29	0.90	1.20	$0.00	$0.00	A	A
SJO	Small_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	A	A
SJO	Small_Office	Lighting_3L4T12	Electric	Stock	Existing	5.29	4' 3L T8 Premium, EB	22.6%	$ 0.13	16	75.0%	100.0%	75.0%	1.198	5.29	0.90	1.20	$0.01	$0.01	A	A
SJO	Small_Office	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	$0.18	$0.18	F	F
SJO	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
SJO	Small_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	A	A
SJO	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 4L T8, EB	22.2%	$ 0.21	16	16.7%	100.0%	16.7%	1.175	5.29	0.20	1.18	$0.02	$0.02	A	A
SJO	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
SJO	Small_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	B	B
SJO	Small_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	B	B
SJO	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	Occupancy Sensor, 4-4' Fluorescent Fixtures	30.0%	$ 0.52	9	40.0%	79.6%	31.8%	1.587	5.29	0.51	1.59	$0.06	$0.06	C	C
SJO	Small_Office	Lighting_4L4T12	Electric	Stock	Existing	5.29	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.83	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	$0.15	$0.15	F	F
SJO	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
SJO	Small_Office	Lighting_4L4T8	Electric	Stock	Existing	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
SJO	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
SJO	Small_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	HPS, 50W	56.0%	$ 4.80	8	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
SJO	Small_Office	Lighting_INC150W	Electric	Stock	Existing	5.29	Metal Halide, 50W	52.0%	$ 9.40	6	45.0%	93.9%	42.2%	2.751	5.29	1.16	2.75	$0.80	$0.80	F	F
SJO	Small_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
SJO	Small_Office	Lighting_INC75W	Electric	Stock	Existing	5.29	CFL Screw-in, Modular 18W	65.3%	$ 2.25	5	90.0%	72.5%	65.2%	3.454	5.29	2.25	3.45	$0.18	$0.18	F	F
SJO	Small_Office	Plug_Load	Electric	Stock	Existing	1.59	Smart Networks	8.1%	$ 0.01	4	90.0%	40.0%	36.0%	0.145	1.59	0.05	0.15	$0.02	$0.02	A	A
SJO	Small_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
SJO	Small_Office	Plug_Load	Electric	Stock	Existing	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	65.0%	65.0%	0.077	1.30	0.04	0.06	$0.14	$0.18	F	F
SJO	Small_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	F	F
SJO	Small_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
SJO	Small_Office	Space_Heat	Electric	Stock	Existing	6.18	Duct Repair and Sealing	2.0%	$ 0.01	20	25.0%	50.0%	12.5%	0.124	6.16	0.02	0.12	$0.01	$0.01	A	A
SJO	Small_Office	Space_Heat	Electric	Stock	Existing	6.18	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	58.5%	58.5%	1.854	6.16	1.08	1.85	$0.01	$0.01	A	A
SJO	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	A
SJO	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	B	C
SJO	Small_Office	Space_Heat	Electric	Stock	Existing	6.18	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.16	20	50.0%	12.9%	6.5%	0.165	5.05	0.01	0.15	$0.09	$0.11	E	F
SJO	Small_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
SJO	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
SJO	Small_Office	Water_Heat	Electric	Stock	Existing	0.95	Heat Pump Water Heater	30.0%	$ 0.58	15	75.0%	100.0%	75.0%	0.285	0.94	0.21	0.28	$0.25	$0.25	F	F
SJO	Small_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	$3.08	F	F
SJO	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
SJO	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Two-Speed Cooling Tower, 300 Tons	14.0%	$ 0.00	15	50.0%	90.0%	45.0%	0.232	1.65	0.10	0.23	$0.00	$0.00	A	A
SJO	Warehouse	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	0.26	$0.01	$0.01	A	A
SJO	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Insulation of Pipes	1.0%	$ 0.00	20	50.0%	50.0%	25.0%	0.017	1.42	0.00	0.01	$0.01	$0.01	A	A
SJO	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
SJO	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	C	D
SJO	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.14	15	50.0%	80.0%	40.0%	0.199	1.30	0.05	0.16	$0.08	$0.11	E	F
SJO	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	0.08	0.12	$0.08	$0.11	E	F
SJO	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Chiller Tune-Up / Diagnostics	5.0%	$ 0.03	5	100.0%	90.0%	90.0%	0.093	1.18	0.05	0.06	$0.11	$0.16	F	F
SJO	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.06	10	33.0%	50.0%	16.5%	0.083	1.13	0.01	0.06	$0.11	$0.17	F	F
SJO	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	0.05	0.11	$0.38	$0.56	F	F
SJO	Warehouse	Cooling_Chillers	Electric	Stock	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
SJO	Warehouse	Cooling_Chillers	Electric	Stock	Existing	1.66	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.23	20	50.0%	20.0%	10.0%	0.015	1.06	0.00	0.01	$1.61	$2.53	F	F
SJO	Warehouse	Cooling_DX	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
SJO	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Clock / Programmable Thermostat	10.0%	$ 0.02	10	100.0%	48.5%	48.5%	0.166	1.66	0.08	0.17	$0.02	$0.02	A	A
SJO	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.03	30	75.0%	100.0%	75.0%	0.083	1.58	0.08	0.08	$0.03	$0.03	B	B
SJO	Warehouse	Cooling_DX	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	1.52	0.08	0.15	$0.08	$0.09	E	E
SJO	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	$0.20	F	F
SJO	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	$0.25	$0.32	F	F
SJO	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	53.5%	53.5%	0.249	1.31	0.11	0.20	$0.38	$0.48	F	F
SJO	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	20.0%	10.0%	0.035	1.21	0.00	0.03	$0.69	$0.95	F	F
SJO	Warehouse	Cooling_DX	Electric	Stock	Existing	1.66	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.23	20	50.0%	20.0%	10.0%	0.015	1.21	0.00	0.01	$1.61	$2.22	F	F
SJO	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
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Clock / Programmable Thermostat	10.0%	$ 0.02	10	100.0%	48.5%	48.5%	0.166	1.66	0.08	0.17	$0.02	$0.02	A	A
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.03	30	75.0%	100.0%	75.0%	0.083	1.58	0.08	0.08	$0.03	$0.03	B	B
SJO	Warehouse	Cooling_HeatPump	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	1.52	0.08	0.15	$0.08	$0.09	E	E
SJO	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
SJO	Warehouse	Cooling_HeatPump	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	$0.25	$0.32	F	F
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Installation of Air Side Economizers	15.0%	$ 0.59	10	100.0%	53.5%	53.5%	0.249	1.31	0.11	0.20	$0.38	$0.48	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Ceiling R-0 to R-19 Insulation	2.1%	$ 0.23	20	50.0%	20.0%	10.0%	0.035	1.21	0.00	0.03	$0.69	$0.95	F	F
SJD	Warehouse	Cooling_HeatPump	Electric	Stock	Existing	1.66	Ceiling R-19 to R-38 Insulation	0.6%	$ 0.23	20	50.0%	20.0%	10.0%	0.015	1.21	0.00	0.01	$1.61	$2.22	F	F
SJD	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	B	B
SJD	Warehouse	Lighting_2L4T12	Electric	Stock	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	C	C
SJD	Warehouse	Lighting_2L4T12	Electric	Stock	Existing	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	C	C
SJD	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
SJD	Warehouse	Lighting_2L4T12	Electric	Stock	Existing	2.94	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 1.93	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.10	$0.10	F	F
SJD	Warehouse	Lighting_2L4T8	Electric	Stock	Existing	2.36	Occupancy Sensor, 8-4' Fluorescent Fixtures	30.0%	$ 0.23	12	20.0%	98.0%	19.6%	0.708	2.36	0.14	0.71	$0.05	$0.05	C	C
SJD	Warehouse	Lighting_2L4T8	Electric	Stock	Existing	2.36	4' 2L T8 Premium, EB	8.5%	$ 0.13	22	100.0%	100.0%	100.0%	0.201	2.36	0.20	0.20	$0.07	$0.07	D	D
SJD	Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94	8' 2L T8, EB	52.8%	$ 0.21	22	50.0%	100.0%	50.0%	1.552	2.94	0.78	1.55	$0.01	$0.01	A	A
SJD	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	A	A
SJD	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	B	B
SJD	Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94	Occupancy Sensor, 4-8' Fluorescent Fixtures	30.0%	$ 0.32	12	20.0%	98.0%	19.6%	0.882	2.94	0.17	0.88	$0.05	$0.05	C	C
SJD	Warehouse	Lighting_2L8T12	Electric	Stock	Existing	2.94	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.39	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.13	$0.13	F	F
SJD	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
SJD	Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94	4' 3L T8, EB	22.6%	$ 0.01	22	75.0%	100.0%	75.0%	0.665	2.94	0.50	0.66	$0.00	$0.00	A	A
SJD	Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.04	22	40.0%	100.0%	40.0%	1.559	2.94	0.62	1.56	$0.00	$0.00	A	A
SJD	Warehouse	Lighting_3L4T12	Electric	Stock	Existing	2.94	4' 3L T8 Premium, EB	22.6%	$ 0.02	22	75.0%	100.0%	75.0%	0.665	2.94	0.50	0.66	$0.00	$0.00	A	A
SJD	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
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	4' 3L T8, EB	38.2%	$ 0.05	22	16.7%	100.0%	16.7%	1.123	2.94	0.19	1.12	$0.00	$0.00	A	A
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	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	A	A
SJD	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	A	A
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.37	22	16.7%	100.0%	16.7%	1.838	2.94	0.31	1.84	$0.02	$0.02	A	A
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	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	A
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	4' 4L T8 Premium, EB	25.0%	$ 0.25	22	16.7%	100.0%	16.7%	0.735	2.94	0.12	0.74	$0.03	$0.03	B	B
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	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	B	B
SJD	Warehouse	Lighting_4L4T12	Electric	Stock	Existing	2.94	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 1.95	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.11	$0.11	F	F
SJD	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	C	C
SJD	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
SJD	Warehouse	Lighting_INC150W	Electric	Stock	Existing	2.94	Halogen PAR Flood, 90W	40.0%	$ 0.10	1	10.0%	100.0%	10.0%	1.176	2.94	0.12	1.18	$0.10	$0.10	E	E
SJD	Warehouse	Lighting_INC150W	Electric	Stock	Existing	2.94	HPS, 50W	56.0%	$ 2.69	7	45.0%	90.2%	40.6%	1.646	2.94	0.67	1.65	$0.34	$0.34	F	F
SJD	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
SJD	Warehouse	Lighting_INC40W	Electric	Stock	Existing	2.94	LED Exit Signs	80.0%	$ 0.06	20	90.0%	90.0%	81.0%	2.352	2.94	1.91	2.35	$0.00	$0.00	A	A
SJD	Warehouse	Lighting_INC75W	Electric	Stock	Existing	2.94	CFL Screw-in, Modular 18W	65.3%	$ 1.34	6	90.0%	88.7%	79.8%	1.920	2.94	1.53	1.92	$0.16	$0.16	F	F
SJD	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
SJD	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
SJD	Warehouse	Plug_Load	Electric	Stock	Existing	0.15	ENERGY STAR or Better Office Equipment: Copiers	7.1%	$ 0.02	4	100.0%	65.0%	65.0%	0.011	0.13	0.01	0.01	$0.66	$0.78	F	F
SJD	Warehouse	Plug_Load	Electric	Stock	Existing	0.15	ENERGY STAR or Better Office Equipment: Computer	21.0%	$ 0.10	4	100.0%	65.0%	65.0%	0.031	0.12	0.02	0.03	$1.02	$1.27	F	F
SJD	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
SJD	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Duct Repair and Sealing	2.0%	$ 0.00	20	25.0%	50.0%	12.5%	0.080	4.02	0.01	0.08	$0.00	$0.00	A	A
SJD	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Duct Insulation	2.0%	$ 0.01	20	25.0%	62.3%	15.6%	0.080	4.01	0.01	0.08	$0.01	$0.01	A	A
SJD	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Clock / Programmable Thermostat	30.0%	$ 0.15	10	100.0%	41.8%	41.8%	1.206	4.00	0.50	1.20	$0.02	$0.02	A	A
SJD	Warehouse	Space_Heat	Electric	Stock	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	E	E
SJD	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.201	3.45	0.09	0.17	$0.17	$0.20	F	F
SJD	Warehouse	Space_Heat	Electric	Stock	Existing	4.02	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.23	20	50.0%	33.7%	16.8%	0.121	3.37	0.02	0.10	$0.20	$0.24	F	F
SJD	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
SJD	Warehouse	Water_Heat	Electric	Stock	Existing	0.42	Heat Pump Water Heater	30.0%	$ 0.11	15	75.0%	100.0%	75.0%	0.126	0.41	0.09	0.12	$0.10	$0.11	F	F
SJD	Warehouse	Water_Heat	Electric	Stock	Existing	0.42	Demand controlled circulating systems	5.0%	$ 0.17	15	50.0%	100.0%	50.0%	0.021	0.32	0.01	0.02	$0.98	$1.29	F	F
MPS	Grocery	Cooling_Chillers	Electric	Stock	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
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.03	30	75.0%	100.0%	75.0%	0.221	4.08	0.17	0.22	$0.01	$0.01	A	A
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Decrease Cooling Tower Approach Temperature, 300 Tons, 8 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	C	C
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.49	15	50.0%	80.0%	40.0%	0.492	3.74	0.18	0.45	$0.12	$0.13	F	F
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	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	3.56	0.18	0.36	$0.12	$0.14	F	F
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.21	10	33.0%	50.0%	16.5%	0.205	3.38	0.03	0.17	$0.17	$0.20	F	F
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Cool Roofs (Reflective and Spray Evaporative)	4.3%	$ 0.47	10	90.0%	100.0%	90.0%	0.176	3.35	0.13	0.14	$0.42	$0.52	F	F
MPS	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	20.0%	10.0%	0.037	3.22	0.00	0.03	$0.69	$0.86	F	F
MPS	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
MPS	Grocery	Cooling_DX	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	B	B
MPS	Grocery	Cooling_DX	Electric	Stock	New	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	3.95	0.20	0.39	$0.12	$0.13	F	F
MPS	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
MPS	Grocery	Cooling_DX	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
MPS	Grocery	Cooling_DX	Electric	Stock	New	4.1	Cool Roofs (Reflecsve 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
MPS	Grocery	Cooling_DX	Electric	Stock	New	4.1	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	20.0%	10.0%	0.037	3.55	0.00	0.03	$0.69	$0.80	F	F
MPS	Grocery	Cooling_DX	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	3.54	0.04	0.09	$1.29	$1.49	F	F
MPS	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	B	B
MPS	Grocery	Cooling_HeatPump	Electric	Stock	New	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	3.95	0.20	0.39	$0.12	$0.13	F	F
MPS	Grocery	Cooling_HeatPump	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	$0.28	$0.29	F	F
MPS	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
MPS	Grocery	Cooling_HeatPump	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
MPS	Grocery	Cooling_HeatPump	Electric	Stock	New	4.1	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	20.0%	10.0%	0.037	3.55	0.00	0.03	$0.69	$0.80	F	F
MPS	Grocery	Cooling_HeatPump	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	3.54	0.04	0.09	$1.29	$1.49	F	F
MPS	Grocery	Lighting_2L4T12	Electric	Stock	New	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	A	A
MPS	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	B	B
MPS	Grocery	Lighting_2L4T12	Electric	Stock	New	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	C
MPS	Grocery	Lighting_2L4T12	Electric	Stock	New	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
MPS	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	B	B
MPS	Grocery	Lighting_2L8T12	Electric	Stock	New	12.76	8' 2L T8, EB	52.8%	$ 0.37	12	50.0%	100.0%	50.0%	6.737	12.76	3.37	6.74	$0.01	$0.01	A	A
MPS	Grocery	Lighting_2L8T12	Electric	Stock	New	12.76	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.82	12	25.0%	100.0%	25.0%	7.056	12.76	1.76	7.06	$0.02	$0.02	A	A
MPS	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
MPS	Grocery	Lighting_2L8T12	Electric	Stock	New	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	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 1L T5HO, EB	46.1%	$ 0.06	12	25.0%	100.0%	25.0%	5.881	12.76	1.47	5.88	$0.00	$0.00	A	A
MPS	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 3L T8, EB	22.6%	$ 0.06	12	25.0%	100.0%	25.0%	2.885	12.76	0.72	2.88	$0.00	$0.00	A	A
MPS	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.35	12	25.0%	100.0%	25.0%	6.768	12.76	1.69	6.77	$0.01	$0.01	A	A
MPS	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	A	A
MPS	Grocery	Lighting_3L4T8	Electric	Stock	New	10.21	4' 3L T8 Premium, EB	6.7%	$ 0.42	12	100.0%	100.0%	100.0%	0.684	10.21	0.68	0.68	$0.09	$0.09	E	E
MPS	Grocery	Lighting_4L4T12	Electric	Stock	New	12.76	4' 3L T8, EB	38.2%	$ 0.10	12	16.7%	100.0%	16.7%	4.874	12.76	0.81	4.87	$0.00	$0.00	A	A
MPS	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
MPS	Grocery	Lighting_4L4T12	Electric	Stock	New	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	A	A
MPS	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
MPS	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	A	A
MPS	Grocery	Lighting_4L4T12	Electric	Stock	New	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	A
MPS	Grocery	Lighting_4L4T12	Electric	Stock	New	12.76	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.90	8	26.0%	100.0%	26.0%	9.570	12.76	2.49	9.57	$0.08	$0.08	E	E
MPS	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
MPS	Grocery	Lighting_INC150W	Electric	Stock	New	12.76	HPS, 50W	56.0%	$ 8.99	4	45.0%	94.3%	42.4%	7.148	12.76	3.03	7.15	$0.41	$0.41	F	F
MPS	Grocery	Plug_Load	Electric	Stock	New	0.41	Smart Networks	6.5%	$ 0.00	4	90.0%	40.0%	36.0%	0.027	0.41	0.01	0.03	$0.01	$0.01	A	A
MPS	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	$0.01	$0.01	B	B

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Grocery	Plug_Load	Electric	Stock	New	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	C	D
MPS	Grocery	Plug_Load	Electric	Stock	New	0.41	ENERGY STAR or Better Office Equipment: Printers	13.0%	$ 0.01	4	100.0%	99.0%	99.0%	0.053	0.31	0.04	0.04	$0.07	$0.10	D	E
MPS	Grocery	Plug_Load	Electric	Stock	New	0.41	ENERGY STAR or Better Office Equipment: Copiers	9.7%	$ 0.01	4	100.0%	33.0%	33.0%	0.040	0.27	0.01	0.03	$0.10	$0.15	F	F
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	Night Covers for Display Cases	5.8%	$ 0.01	5	50.0%	95.0%	47.5%	1.531	28.13	0.77	1.63	$0.00	$0.00	A	A
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	Anti-Sweat (Humidistat) Controls	5.0%	$ 0.02	12	100.0%	48.0%	48.0%	1.404	27.38	0.66	1.37	$0.00	$0.00	A	A
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	Demand Control Defrost - Electric	7.8%	$ 0.04	10	100.0%	48.0%	48.0%	2.184	26.70	0.89	2.07	$0.00	$0.00	A	A
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	Installation of Floating Condenser Head Pressure Controls	8.8%	$ 0.12	14	100.0%	44.4%	44.4%	1.921	25.71	0.78	1.76	$0.01	$0.01	A	A
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	Strip Curtains for Walk-Ins	4.0%	$ 0.05	4	100.0%	30.0%	30.0%	1.132	24.93	0.30	1.00	$0.01	$0.02	A	A
MPS	Grocery	Refrigeration	Electric	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	A	A
MPS	Grocery	Refrigeration	Electric	Stock	New	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	A	A
MPS	Grocery	Refrigeration	Electric	Stock	New	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	B	B
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	High Efficiency Case Fans	12.0%	$ 1.16	16	100.0%	95.0%	95.0%	3.370	22.90	2.81	2.74	$0.04	$0.05	B	C
MPS	Grocery	Refrigeration	Electric	Stock	New	28.13	Reduced Speed or Cycling of Evaporator Fans	0.6%	$ 0.09	5	100.0%	80.0%	80.0%	0.155	20.29	0.09	0.11	$0.16	$0.22	F	F
MPS	Grocery	Space_Heat	Electric	Stock	New	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	5.42	0.14	0.27	$0.13	$0.13	F	F
MPS	Grocery	Space_Heat	Electric	Stock	New	5.42	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	85.0%	42.5%	0.163	5.28	0.07	0.16	$0.16	$0.16	F	F
MPS	Grocery	Space_Heat	Electric	Stock	New	5.42	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.8%	$ 1.31	20	50.0%	90.0%	45.0%	0.143	5.22	0.06	0.14	$0.98	$1.01	F	F
MPS	Grocery	Water_Heat	Electric	Stock	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	Water_Heat	Electric	Stock	New	2.4	Demand controlled circulating systems	5.0%	$ 1.32	15	50.0%	100.0%	50.0%	0.120	1.86	0.05	0.09	$1.35	$1.75	F	F
MPS	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
MPS	Health	Cooling_Chillers	Electric	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	B	B
MPS	Health	Cooling_Chillers	Electric	Stock	New	3.36	Decrease Cooling Tower Approach Temperature, 300 Tons, 8 Deg F	7.5%	$ 0.16	15	67.0%	90.0%	60.3%	0.252	3.32	0.15	0.25	$0.08	$0.08	E	E
MPS	Health	Cooling_Chillers	Electric	Stock	New	3.36	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.68	15	50.0%	80.0%	40.0%	0.403	3.17	0.15	0.38	$0.21	$0.22	F	F
MPS	Health	Cooling_Chillers	Electric	Stock	New	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	3.02	0.15	0.30	$0.21	$0.23	F	F
MPS	Health	Cooling_Chillers	Electric	Stock	New	3.36	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.30	10	33.0%	50.0%	16.5%	0.168	2.87	0.02	0.14	$0.28	$0.33	F	F
MPS	Health	Cooling_Chillers	Electric	Stock	New	3.36	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.21	20	50.0%	20.0%	10.0%	0.030	2.85	0.00	0.03	$0.75	$0.89	F	F
MPS	Health	Cooling_Chillers	Electric	Stock	New	3.36	Cool Roofs (Reflective and Spray Evaporative)	0.6%	$ 0.16	10	90.0%	100.0%	90.0%	0.021	2.84	0.02	0.02	$1.17	$1.38	F	F
MPS	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	2.83	0.03	0.07	$1.57	$1.87	F	F
MPS	Health	Cooling_DX	Electric	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	A	A
MPS	Health	Cooling_DX	Electric	Stock	New	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	3.28	0.16	0.33	$0.21	$0.21	F	F
MPS	Health	Cooling_DX	Electric	Stock	New	3.36	DX Tune-Up / Diagnostics	10.0%	$ 0.35	3	100.0%	10.0%	10.0%	0.336	3.11	0.03	0.31	$0.44	$0.48	F	F
MPS	Health	Cooling_DX	Electric	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	Cooling_DX	Electric	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	Cooling_DX	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	F	F
MPS	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
MPS	Health	Cooling_HeatPump	Electric	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	A	A
MPS	Health	Cooling_HeatPump	Electric	Stock	New	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	3.28	0.16	0.33	$0.21	$0.21	F	F
MPS	Health	Cooling_HeatPump	Electric	Stock	New	3.36	DX Tune-Up / Diagnostics	10.0%	$ 0.35	3	100.0%	10.0%	10.0%	0.336	3.11	0.03	0.31	$0.44	$0.48	F	F
MPS	Health	Cooling_HeatPump	Electric	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	Cooling_HeatPump	Electric	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	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	F	F
MPS	Health	Cooling_HeatPump	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
MPS	Health	Lighting_2L4T12	Electric	Stock	New	10.77	4' 1L T8 Premium, EB, reflector	81.1%	$ 1.54	12	33.3%	100.0%	33.3%	6.582	10.77	2.19	6.58	$0.03	$0.03	B	B
MPS	Health	Lighting_2L4T12	Electric	Stock	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	B	B
MPS	Health	Lighting_2L4T12	Electric	Stock	New	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	C
MPS	Health	Lighting_2L4T12	Electric	Stock	New	10.77	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.74	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
MPS	Health	Lighting_2L4T8	Electric	Stock	New	8.62	4' 2L T8 Premium, EB	8.5%	$ 0.28	12	100.0%	100.0%	100.0%	0.733	8.62	0.73	0.73	$0.05	$0.05	C	C
MPS	Health	Lighting_2L8T12	Electric	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	Lighting_2L8T12	Electric	Stock	New	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	A	A
MPS	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	A	A
MPS	Health	Lighting_2L8T12	Electric	Stock	New	10.77	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 3.98	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.08	$0.08	E	E
MPS	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 1L T5HO, EB	46.1%	$ 0.01	12	25.0%	100.0%	25.0%	4.964	10.77	1.24	4.96	$0.00	$0.00	A	A
MPS	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 3L T8, EB	22.6%	$ 0.01	12	25.0%	100.0%	25.0%	2.435	10.77	0.61	2.43	$0.00	$0.00	A	A
MPS	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.07	12	25.0%	100.0%	25.0%	5.713	10.77	1.43	5.71	$0.00	$0.00	A	A
MPS	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 3L T8 Premium, EB	22.6%	$ 0.03	12	25.0%	100.0%	25.0%	2.435	10.77	0.61	2.43	$0.00	$0.00	A	A
MPS	Health	Lighting_3L4T8	Electric	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	Lighting_4L4T12	Electric	Stock	New	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
MPS	Health	Lighting_4L4T12	Electric	Stock	New	10.77	4' 3L T8 Premium, EB	42.4%	$ 0.31	12	16.7%	100.0%	16.7%	4.562	10.77	0.76	4.56	$0.01	$0.01	A	A
MPS	Health	Lighting_4L4T12	Electric	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	A	A
MPS	Health	Lighting_4L4T12	Electric	Stock	New	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
MPS	Health	Lighting_4L4T12	Electric	Stock	New	10.77	4' 2L T5HO, EB	16.8%	$ 0.29	12	16.7%	100.0%	16.7%	2.019	10.77	0.34	2.02	$0.02	$0.02	A	A
MPS	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	A	A
MPS	Health	Lighting_4L4T12	Electric	Stock	New	10.77	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.84	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
MPS	Health	Lighting_4L4T8	Electric	Stock	New	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
MPS	Health	Lighting_INC150W	Electric	Stock	New	10.77	HPS, 50W	58.0%	$ 2.85	4	45.0%	90.0%	40.5%	5.031	10.77	2.44	5.03	$0.15	$0.15	F	F
MPS	Health	Plug_Load	Electric	Stock	New	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	B	B
MPS	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Monitors	15.4%	$ 0.08	4	100.0%	71.0%	71.0%	0.080	0.51	0.06	0.08	$0.23	$0.23	F	F
MPS	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Copiers	10.2%	$ 0.04	4	100.0%	33.0%	33.0%	0.053	0.45	0.02	0.05	$0.24	$0.28	F	F
MPS	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Computer	17.4%	$ 0.11	4	100.0%	65.0%	65.0%	0.090	0.44	0.05	0.08	$0.40	$0.48	F	F
MPS	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Printers	13.2%	$ 0.11	4	100.0%	99.0%	99.0%	0.069	0.39	0.05	0.06	$0.53	$0.71	F	F
MPS	Health	Space_Heat	Electric	Stock	New	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	4.96	0.12	0.25	$0.14	$0.14	F	F
MPS	Health	Space_Heat	Electric	Stock	New	4.96	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.21	20	50.0%	40.0%	20.0%	0.149	4.84	0.03	0.15	$0.15	$0.18	F	F
MPS	Health	Space_Heat	Electric	Stock	New	4.96	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.8%	$ 1.31	20	50.0%	90.0%	45.0%	0.131	4.81	0.06	0.13	$1.07	$1.10	F	F
MPS	Health	Water_Heat	Electric	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
MPS	Health	Water_Heat	Electric	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	$8.73	$8.68	F	F
MPS	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.042	4.19	0.02	0.04	$0.00	$0.00	A	A
MPS	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	High Efficiency Windows, Low-e; U=0.35	9.3%	$ 0.08	30	75.0%	99.4%	74.6%	0.388	4.17	0.29	0.39	$0.01	$0.01	A	A
MPS	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	Decrease Cooling Tower Approach Temperature, 300 Tons, 8 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	B	B
MPS	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.71	0.18	0.44	$0.11	$0.12	F	F
MPS	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	F
MPS	Large_Office	Cooling_Chillers	Electric	Stock	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	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.16	20	50.0%	8.7%	4.4%	0.036	3.32	0.00	0.03	$0.46	$0.58	F	F
MPS	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
MPS	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.27	0.04	0.09	$1.26	$1.52	F	F
MPS	Large_Office	Cooling_DX	Electric	Stock	New	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
MPS	Large_Office	Cooling_DX	Electric	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	$0.08	$0.08	D	D
MPS	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
MPS	Large_Office	Cooling_DX	Electric	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	$0.28	F	F
MPS	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.87	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.38	F	F
MPS	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
MPS	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.06	$0.49	$0.62	F	F
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
MPS	Large_Office	Cooling_HeatPump	Electric	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	$0.08	$0.06	D	D
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	$ 0.28	10	50.0%	100.0%	50.0%	0.419	4.03	0.20	0.40	$0.11	$0.11	F	F
MPS	Large_Office	Cooling_HeatPump	Electric	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	$0.28	F	F
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.87	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.36	F	F
MPS	Large_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	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.06	$0.49	$0.62	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
MPS	Large_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	$0.08	C	C
MPS	Large_Office	Lighting_2L4T12	Electric	Stock	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
MPS	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
MPS	Large_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	Large_Office	Lighting_2L4T8	Electric	Stock	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
MPS	Large_Office	Lighting_2L8T12	Electric	Stock	New	5.29	8' 2L T8, EB	52.6%	$ 0.36	16	50.0%	100.0%	50.0%	2.793	5.29	1.40	2.79	$0.02	$0.02	A	A
MPS	Large_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	B	B
MPS	Large_Office	Lighting_2L8T12	Electric	Stock	New	5.29	8' 2L T12, 60W, EB	10.6%	$ 0.17	16	25.0%	25.6%	6.6%	0.559	5.29	0.04	0.56	$0.04	$0.04	B	B
MPS	Large_Office	Lighting_2L8T12	Electric	Stock	New	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	Large_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	A
MPS	Large_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	22.6%	$ 0.05	16	25.0%	100.0%	25.0%	1.198	5.29	0.30	1.20	$0.00	$0.00	A	A
MPS	Large_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.28	16	25.0%	100.0%	25.0%	2.806	5.29	0.70	2.81	$0.01	$0.01	A	A
MPS	Large_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 3L T8 Premium, EB	22.6%	$ 0.13	16	25.0%	100.0%	25.0%	1.198	5.29	0.30	1.20	$0.01	$0.01	A	A
MPS	Large_Office	Lighting_3L4T8	Electric	Stock	New	4.24	4' 3L T8 Premium, EB	8.7%	$ 0.43	16	100.0%	100.0%	100.0%	0.284	4.24	0.28	0.28	$0.18	$0.18	F	F
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
MPS	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	A	A
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	New	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	A	A
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
MPS	Large_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	B	B
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	New	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	B	B
MPS	Large_Office	Lighting_4L4T12	Electric	Stock	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	F
MPS	Large_Office	Lighting_4L4T8	Electric	Stock	New	4.24	4' 4L T8 Premium, EB	3.8%	$ 0.30	16	100.0%	100.0%	100.0%	0.153	4.24	0.15	0.15	$0.24	$0.24	F	F
MPS	Large_Office	Lighting_INC150W	Electric	Stock	New	5.29	HPS, 50W	56.0%	$ 4.80	6	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
MPS	Large_Office	Plug_Load	Electric	Stock	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
MPS	Large_Office	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	E	E
MPS	Large_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	33.0%	33.0%	0.077	1.30	0.02	0.08	$0.14	$0.18	F	F
MPS	Large_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Computer	24.7%	$ 0.18	4	100.0%	65.0%	65.0%	0.393	1.28	0.21	0.32	$0.15	$0.19	F	F
MPS	Large_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Printers	8.0%	$ 0.10	4	100.0%	89.0%	89.0%	0.127	1.07	0.09	0.09	$0.28	$0.39	F	F
MPS	Large_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	$0.09	E	E
MPS	Large_Office	Space_Heat	Electric	Stock	New	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	6.17	0.15	0.31	$0.11	$0.11	F	F
MPS	Large_Office	Water_Heat	Electric	Stock	New	0.95	Heat Pump Water Heater	2.8%	$ 1.31	20	50.0%	90.0%	45.0%	0.163	6.01	0.07	0.16	$0.88	$0.88	F	F
MPS	Large_Office	Water_Heat	Electric	Stock	New	0.95	Demand controlled circulating systems	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
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	EMS Optimization	5.0%	$ 0.91	15	50.0%	93.2%	46.6%	0.048	0.74	0.02	0.04	$2.35	$3.03	F	F
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	High Efficiency Windows, Low-e; U=0.35	1.0%	$ -	5	100.0%	50.0%	50.0%	0.028	2.83	0.01	0.03	$0.00	$0.00	A	A
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.0%	$ 0.08	30	75.0%	92.8%	69.7%	0.199	2.82	0.14	0.20	$0.03	$0.03	A	A
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Primary/Secondary De-coupled Chilled Water System	7.5%	$ 0.17	15	67.0%	90.0%	60.3%	0.212	2.68	0.12	0.20	$0.10	$0.10	E	F
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	12.0%	$ 0.71	15	50.0%	80.0%	40.0%	0.340	2.58	0.12	0.31	$0.29	$0.29	F	F
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Optimize Chilled Water and Condenser Water Settings	10.0%	$ 0.46	10	50.0%	100.0%	50.0%	0.283	2.43	0.12	0.24	$0.28	$0.30	F	F
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Ceiling R-19 to R-38 Insulation	5.0%	$ 0.31	10	33.0%	50.0%	16.5%	0.142	2.31	0.02	0.12	$0.35	$0.43	F	F
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Cool Roofs (Reflective and Spray Evaporative)	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
MPS	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	0.4%	$ 0.04	10	50.0%	100.0%	50.0%	0.011	2.29	0.01	0.01	$0.56	$0.69	F	F
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	Occupancy Sensor for room HVAC units	2.8%	$ 1.31	20	50.0%	90.0%	45.0%	0.074	2.28	0.03	0.06	$1.87	$2.32	F	F
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	High Efficiency Windows, Low-e; U=0.35	35.0%	$ 0.30	15	51.0%	100.0%	51.0%	0.891	2.83	0.51	0.99	$0.04	$0.04	B	B
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.16	30	75.0%	92.8%	69.7%	0.142	2.32	0.08	0.12	$0.10	$0.12	F	F
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	Ceiling R-19 to R-38 Insulation	10.0%	$ 0.46	10	50.0%	100.0%	50.0%	0.283	2.24	0.11	0.22	$0.28	$0.33	F	F
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	DX Tune-Up / Diagnostics	0.9%	$ 0.11	20	50.0%	34.6%	17.3%	0.025	2.13	0.00	0.02	$0.44	$0.58	F	F
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	Cool Roofs (Reflective and Spray Evaporative)	10.0%	$ 0.37	3	100.0%	10.0%	10.0%	0.283	2.13	0.02	0.21	$0.55	$0.73	F	F
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	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
MPS	Lodging	Cooling_DX	Electric	Stock	New	2.83	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	10.0%	$ 1.38	10	25.0%	95.0%	23.8%	0.283	2.10	0.05	0.21	$0.77	$1.04	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	High Efficiency Windows, Low-e; U=0.35	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.074	2.05	0.02	0.05	$1.87	$2.57	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.16	30	75.0%	92.8%	69.7%	0.142	2.83	0.10	0.14	$0.10	$0.10	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Ceiling R-19 to R-38 Insulation	10.0%	$ 0.46	10	50.0%	100.0%	50.0%	0.283	2.73	0.14	0.27	$0.26	$0.27	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	DX Tune-Up / Diagnostics	0.9%	$ 0.11	20	50.0%	34.6%	17.3%	0.025	2.59	0.00	0.02	$0.44	$0.48	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Cool Roofs (Reflective and Spray Evaporative)	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
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	0.4%	$ 0.04	10	50.0%	100.0%	50.0%	0.011	2.56	0.01	0.01	$0.56	$0.62	F	F
MPS	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	10.0%	$ 1.38	10	25.0%	95.0%	23.8%	0.283	2.56	0.06	0.26	$0.77	$0.85	F	F
MPS	Lodging	Lighting_2L4T12	Electric	Stock	New	3.01	4' 1L T8 Premium, EB, reflector	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.074	2.50	0.03	0.07	$1.87	$2.12	F	F
MPS	Lodging	Lighting_2L4T12	Electric	Stock	New	3.01	4' 2L T8 Premium, EB	61.1%	$ 0.78	26	33.3%	100.0%	33.3%	1.839	3.01	0.61	1.84	$0.04	$0.04	B	B
MPS	Lodging	Lighting_2L4T12	Electric	Stock	New	3.01	4' 1L T5HO, 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	C
MPS	Lodging	Lighting_2L4T12	Electric	Stock	New	3.01	Continuous Dimming, 10-4' Fluorescent Fixtures	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
MPS	Lodging	Lighting_2L4T8	Electric	Stock	New	2.41	4' 2L T8 Premium, EB	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
MPS	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	8' 2L T8, EB	8.5%	$ 0.13	26	100.0%	100.0%	100.0%	0.205	2.41	0.20	0.20	$0.06	$0.06	D	D
MPS	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	8' 1L T12, 60W, EB, reflector	52.8%	$ 0.18	26	50.0%	100.0%	50.0%	1.589	3.01	0.79	1.59	$0.01	$0.01	A	A
MPS	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	8' 2L T12, 60W, EB	55.3%	$ 0.40	26	25.0%	100.0%	25.0%	1.665	3.01	0.42	1.66	$0.02	$0.02	A	A
MPS	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	Continuous Dimming, 5-8' Fluorescent Fixtures	10.6%	$ 0.09	26	25.0%	79.9%	20.0%	0.318	3.01	0.06	0.32	$0.03	$0.03	A	A
MPS	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01	4' 1L T5HO, EB	75.0%	$ 2.07	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	$0.10	$0.10	E	E
MPS	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01	4' 3L T8, 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
MPS	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01	4' 2L T8 Premium, EB, reflector	22.6%	$ 0.02	26	25.0%	100.0%	25.0%	0.681	3.01	0.17	0.68	$0.00	$0.00	A	A
MPS	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01	4' 3L T8 Premium, EB	53.0%	$ 0.11	26	25.0%	100.0%	25.0%	1.597	3.01	0.40	1.60	$0.01	$0.01	A	A
MPS	Lodging	Lighting_3L4T8	Electric	Stock	New	2.41	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	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 3L T8, EB	6.7%	$ 0.21	26	100.0%	100.0%	100.0%	0.151	2.41	0.18	0.16	$0.13	$0.13	F	F
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 3L T8 Premium, 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
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 4L T8, EB	42.4%	$ 0.15	26	16.7%	100.0%	16.7%	1.275	3.01	0.21	1.28	$0.01	$0.01	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 2L T8 Premium, EB, reflector	22.2%	$ 0.10	26	16.7%	100.0%	16.7%	0.659	3.01	0.11	0.67	$0.01	$0.01	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 2L T5HO, EB	62.5%	$ 0.36	26	16.7%	100.0%	16.7%	1.881	3.01	0.31	1.88	$0.02	$0.02	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 4L T8 Premium, EB	18.8%	$ 0.14	26	16.7%	100.0%	16.7%	0.564	3.01	0.09	0.56	$0.02	$0.02	A	A
MPS	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	Continuous Dimming, 5-4' Fluorescent Fixtures	25.0%	$ 0.24	26	16.7%	100.0%	16.7%	0.753	3.01	0.13	0.75	$0.03	$0.03	B	B
MPS	Lodging	Lighting_4L4T8	Electric	Stock	New	2.41	4' 4L T8 Premium, EB	75.0%	$ 1.92	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.28	$0.09	$0.09	E	E
MPS	Lodging	Lighting_INC150W	Electric	Stock	New	3.01	HPS, 50W	3.6%	$ 0.15	28	100.0%	100.0%	100.0%	0.087	2.41	0.09	0.09	$0.16	$0.16	F	F
MPS	Lodging	Plug_Load	Electric	Stock	New	0.1	Smart Networks	56.0%	$ 1.98	9	45.0%	92.2%	41.5%	1.886	3.01	0.70	1.69	$0.20	$0.20	F	F
MPS	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Copiers	4.5%	$ 0.00	4	90.0%	40.0%	36.0%	0.005	0.10	0.00	0.00	$0.03	$0.03	A	A
MPS	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Monitors	20.2%	$ 0.00	4	100.0%	33.0%	33.0%	0.020	0.10	0.01	0.02	$0.04	$0.04	B	B
MPS	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Computer	10.9%	$ 0.00	4	100.0%	71.0%	71.0%	0.011	0.09	0.01	0.01	$0.14	$0.18	F	F
MPS	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Printers	12.2%	$ 0.01	4	100.0%	65.0%	65.0%	0.012	0.08	0.01	0.01	$0.28	$0.30	F	F
MPS	Lodging	Space_Heat	Electric	Stock	New	2.54	Occupancy Sensor for room HVAC units	7.5%	$ 0.01	4	100.0%	99.3%	99.3%	0.008	0.08	0.01	0.01	$0.45	$0.57	F	F
MPS	Lodging	Space_Heat	Electric	Stock	New	2.54	Ceiling R-19 to R-38 Insulation	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
MPS	Lodging	Space_Heat	Electric	Stock	New	2.54	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	3.0%	$ 0.11	20	50.0%	62.3%	31.1%	0.076	2.09	0.02	0.06	$0.15	$0.18	F	F
MPS	Lodging	Space_Heat	Electric	Stock	New	2.54	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.127	2.07	0.05	0.10	$0.27	$0.33	F	F
MPS	Lodging	Water_Heat	Electric	Stock	New	2.79	Heat Pump Water Heater	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
MPS	Lodging	Water_Heat	Electric	Stock	New	2.79	Demand controlled circulating systems	30.0%	$ 3.47	15	75.0%	100.0%	75.0%	0.837	2.79	0.63	0.84	$0.51	$0.51	F	F
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	EMS Optimization	5.0%	$ 5.45	15	50.0%	100.0%	50.0%	0.140	2.16	0.05	0.11	$4.81	$8.20	F	F
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	High Efficiency Windows, Low-e; U=0.35	1.0%	$ -	5	100.0%	50.0%	50.0%	0.024	2.39	0.01	0.02	$0.00	$0.00	A	A
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	2.5%	$ 0.02	30	75.0%	76.3%	57.2%	0.059	2.38	0.03	0.06	$0.03	$0.03	A	B
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Primary/Secondary De-coupled Chilled Water System	7.5%	$ 0.07	15	67.0%	80.0%	60.3%	0.179	2.34	0.11	0.18	$0.05	$0.05	C	C
								12.0%	$ 0.30	15	50.0%	80.0%	40.0%	0.287	2.24	0.11					F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	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
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.13	10	33.0%	50.0%	16.5%	0.120	2.02	0.02	0.10	$0.18	$0.21	F	F
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Cool Roofs (Reflective and Spray Evaporative)	13.0%	$ 0.47	10	90.0%	100.0%	90.0%	0.310	2.01	0.23	0.26	$0.24	$0.28	F	F
MPS	Miscellaneous	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	F
MPS	Miscellaneous	Cooling_Chillers	Electric	Stock	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	1.77	0.02	0.05	$2.21	$2.99	F	F
MPS	Miscellaneous	Cooling_DX	Electric	Stock	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	B	B
MPS	Miscellaneous	Cooling_DX	Electric	Stock	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	2.32	0.12	0.23	$0.13	$0.13	F	F
MPS	Miscellaneous	Cooling_DX	Electric	Stock	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
MPS	Miscellaneous	Cooling_DX	Electric	Stock	New	2.39	DX Tune-Up / Diagnostics	10.0%	$ 0.16	3	100.0%	10.0%	10.0%	0.239	2.06	0.02	0.21	$0.28	$0.32	F	F
MPS	Miscellaneous	Cooling_DX	Electric	Stock	New	2.39	Installation of Direct or 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	F	F
MPS	Miscellaneous	Cooling_DX	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
MPS	Miscellaneous	Cooling_DX	Electric	Stock	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	$2.68	F	F
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	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	B	B
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	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	2.32	0.12	0.23	$0.13	$0.13	F	F
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	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
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	New	2.39	DX Tune-Up / Diagnostics	10.0%	$ 0.16	3	100.0%	10.0%	10.0%	0.239	2.06	0.02	0.21	$0.28	$0.32	F	F
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	New	2.39	Installation of Direct or 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	F	F
MPS	Miscellaneous	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
MPS	Miscellaneous	Cooling_HeatPump	Electric	Stock	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	$2.68	F	F
MPS	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	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
MPS	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	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	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	2.12	4' 1L T5HO, EB	13.9%	$ 0.68	36	33.3%	100.0%	33.3%	0.295	2.12	0.10	0.29	$0.16	$0.16	F	F
MPS	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	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	F	F
MPS	Miscellaneous	Lighting_2L4T8	Electric	Stock	New	1.7	4' 2L T8 Premium, EB	6.5%	$ 0.25	36	100.0%	100.0%	100.0%	0.145	1.70	0.14	0.14	$0.15	$0.15	F	F
MPS	Miscellaneous	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
MPS	Miscellaneous	Lighting_2L8T12	Electric	Stock	New	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	C	C
MPS	Miscellaneous	Lighting_2L8T12	Electric	Stock	New	2.12	8' 2L T12, 60W, EB	10.8%	$ 0.17	36	25.0%	46.2%	11.5%	0.224	2.12	0.03	0.22	$0.07	$0.07	D	D
MPS	Miscellaneous	Lighting_2L8T12	Electric	Stock	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
MPS	Miscellaneous	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
MPS	Miscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12	4' 3L T8, EB	22.6%	$ 0.03	36	25.0%	100.0%	25.0%	0.479	2.12	0.12	0.48	$0.01	$0.01	A	A
MPS	Miscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.19	36	25.0%	100.0%	25.0%	1.125	2.12	0.28	1.12	$0.01	$0.01	A	A
MPS	Miscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12	4' 3L T8 Premium, EB	22.8%	$ 0.08	36	25.0%	100.0%	25.0%	0.479	2.12	0.12	0.48	$0.02	$0.02	A	A
MPS	Miscellaneous	Lighting_3L4T8	Electric	Stock	New	1.7	4' 3L T8 Premium, EB	6.7%	$ 0.41	36	100.0%	100.0%	100.0%	0.114	1.70	0.11	0.11	$0.31	$0.31	F	F
MPS	Miscellaneous	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
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	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	A	A
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	2.12	4' 4L T8, EB	22.2%	$ 0.19	36	16.7%	100.0%	16.7%	0.471	2.12	0.08	0.47	$0.04	$0.04	B	B
MPS	Miscellaneous	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	C	C
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	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	$0.08	$0.08	C	C
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	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	E	E
MPS	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	2.12	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.89	26	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	$0.22	$0.22	F	F
MPS	Miscellaneous	Lighting_4L4T8	Electric	Stock	New	1.7	4' 4L T8 Premium, EB	3.6%	$ 0.29	36	100.0%	100.0%	100.0%	0.061	1.70	0.06	0.06	$0.40	$0.40	F	F
MPS	Miscellaneous	Lighting_INC150W	Electric	Stock	New	2.12	HPS, 50W	56.0%	$ 5.25	12	45.0%	98.0%	44.1%	1.187	2.12	0.52	1.19	$0.62	$0.62	F	F
MPS	Miscellaneous	Plug_Load	Electric	Stock	New	1	Smart Networks	8.9%	$ 0.01	4	90.0%	40.0%	36.0%	0.069	1.00	0.02	0.07	$0.03	$0.03	A	A
MPS	Miscellaneous	Plug_Load	Electric	Stock	New	1	ENERGY STAR or Better Office Equipment: Copiers	11.4%	$ 0.04	4	100.0%	33.0%	33.0%	0.114	0.98	0.04	0.11	$0.12	$0.13	F	F
MPS	Miscellaneous	Plug_Load	Electric	Stock	New	1	ENERGY STAR or Better Office Equipment: Monitors	16.5%	$ 0.07	4	100.0%	71.0%	71.0%	0.165	0.94	0.11	0.16	$0.14	$0.15	F	F
MPS	Miscellaneous	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
MPS	Miscellaneous	Plug_Load	Electric	Stock	New	1	ENERGY STAR or Better Office Equipment: Printers	9.2%	$ 0.11	4	100.0%	99.0%	99.0%	0.092	0.73	0.07	0.07	$0.38	$0.52	F	F
MPS	Miscellaneous	Space_Heat	Electric	Stock	New	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	2.76	0.07	0.14	$0.25	$0.25	F	F
MPS	Miscellaneous	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	F
MPS	Miscellaneous	Space_Heat	Electric	Stock	New	2.76	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.073	2.69	0.03	0.07	$1.92	$1.97	F	F
MPS	Miscellaneous	Water_Heat	Electric	Stock	New	1.65	Heat Pump Water Heater	30.0%	$ 3.39	15	75.0%	100.0%	75.0%	0.495	1.65	0.37	0.50	$0.84	$0.84	F	F
MPS	Miscellaneous	Water_Heat	Electric	Stock	New	1.65	Demand controlled circulating systems	5.0%	$ 5.32	15	50.0%	100.0%	50.0%	0.083	1.28	0.03	0.08	$7.94	$10.25	F	F
MPS	Restaurant	Cooling_Chillers	Electric	Stock	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
MPS	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.02	30	50.0%	100.0%	50.0%	0.242	4.47	0.12	0.24	$0.01	$0.01	A	A
MPS	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.07	15	67.0%	90.0%	60.3%	0.337	4.35	0.20	0.33	$0.02	$0.03	A	A
MPS	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.29	15	50.0%	80.0%	40.0%	0.539	4.15	0.20	0.50	$0.07	$0.07	D	D
MPS	Restaurant	Cooling_Chillers	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	3.95	0.20	0.40	$0.07	$0.07	D	D
MPS	Restaurant	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	E	E
MPS	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Cool Roofs (Reflective and Spray Evaporative)	4.3%	$ 0.47	10	90.0%	100.0%	90.0%	0.193	3.72	0.14	0.16	$0.39	$0.47	F	F
MPS	Restaurant	Cooling_Chillers	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	3.58	0.02	0.03	$0.59	$0.74	F	F
MPS	Restaurant	Cooling_DX	Electric	Stock	New	4.49	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.118	3.56	0.04	0.09	$1.18	$1.48	F	F
MPS	Restaurant	Cooling_DX	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
MPS	Restaurant	Cooling_DX	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	D	D
MPS	Restaurant	Cooling_DX	Electric	Stock	New	4.49	DX Tune-Up / Diagnostics	10.0%	$ 0.15	3	100.0%	10.0%	10.0%	0.449	4.16	0.04	0.42	$0.14	$0.15	F	F
MPS	Restaurant	Cooling_DX	Electric	Stock	New	4.49	Installation of Direct or Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.55	10	25.0%	95.0%	23.8%	0.449	4.12	0.10	0.41	$0.19	$0.21	F	F
MPS	Restaurant	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
MPS	Restaurant	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	Restaurant	Cooling_DX	Electric	Stock	New	4.49	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.118	3.92	0.05	0.10	$1.18	$1.35	F	F
MPS	Restaurant	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
MPS	Restaurant	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	D	D
MPS	Restaurant	Cooling_HeatPump	Electric	Stock	New	4.49	DX Tune-Up / Diagnostics	10.0%	$ 0.15	3	100.0%	10.0%	10.0%	0.449	4.16	0.04	0.42	$0.14	$0.15	F	F
MPS	Restaurant	Cooling_HeatPump	Electric	Stock	New	4.49	Installation of Direct or Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.55	10	25.0%	95.0%	23.8%	0.449	4.12	0.10	0.41	$0.19	$0.21	F	F
MPS	Restaurant	Cooling_HeatPump	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
MPS	Restaurant	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
MPS	Restaurant	Cooling_HeatPump	Electric	Stock	New	4.49	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.118	3.92	0.05	0.10	$1.18	$1.35	F	F
MPS	Restaurant	Lighting_2L4T12	Electric	Stock	New	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	B	B
MPS	Restaurant	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	B	B
MPS	Restaurant	Lighting_2L4T12	Electric	Stock	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	C	C
MPS	Restaurant	Lighting_2L4T12	Electric	Stock	New	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
MPS	Restaurant	Lighting_2L4T8	Electric	Stock	New	6.89	4' 2L T8 Premium, EB	6.5%	$ 0.27	22	100.0%	100.0%	100.0%	0.594	6.89	0.59	0.59	$0.05	$0.05	C	C
MPS	Restaurant	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
MPS	Restaurant	Lighting_2L8T12	Electric	Stock	New	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	A	A
MPS	Restaurant	Lighting_2L8T12	Electric	Stock	New	8.74	8' 2L T12, 60W, EB	10.8%	$ 0.18	22	25.0%	68.1%	17.0%	0.924	8.74	0.16	0.92	$0.02	$0.02	A	A
MPS	Restaurant	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	E	E
MPS	Restaurant	Lighting_3L4T12	Electric	Stock	New	8.74	4' 1L T5HO, EB	46.1%	$ 0.04	22	25.0%	100.0%	25.0%	4.028	8.74	1.01	4.03	$0.00	$0.00	A	A
MPS	Restaurant	Lighting_3L4T12	Electric	Stock	New	8.74	4' 3L T8, EB	22.6%	$ 0.04	22	25.0%	100.0%	25.0%	1.976	8.74	0.49	1.98	$0.00	$0.00	A	A
MPS	Restaurant	Lighting_3L4T12	Electric	Stock	New	8.74	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.22	22	25.0%	100.0%	25.0%	4.636	8.74	1.16	4.64	$0.00	$0.00	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	Lighting_3L4T8	Electric	Stock	New	6.89	4' 3L T8 Premium, EB	6.7%	$ 0.43	22	100.0%	100.0%	100.0%	0.468	6.89	0.47	0.47	$0.09	$0.09	E	E
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	New	8.74	4' 3L T8, EB	38.2%	$ 0.10	22	16.7%	100.0%	16.7%	3.339	8.74	0.56	3.34	$0.00	$0.00	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	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	1.94	$0.01	$0.01	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	New	8.74	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.78	22	16.7%	100.0%	16.7%	5.483	8.74	0.91	5.48	$0.01	$0.01	A	A
MPS	Restaurant	Lighting_4L4T12	Electric	Stock	New	8.74	4' 2L T5HO, EB	18.8%	$ 0.29	22	16.7%	100.0%	16.7%	1.639	8.74	0.27	1.64	$0.02	$0.02	A	A
MPS	Restaurant	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	A	A
MPS	Restaurant	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	[illegible]	[illegible]	[illegible]	[illegible]	D

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Restaurant	Lighting_4L4T8	Electric	Stock	New	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
MPS	Restaurant	Lighting_INC150W	Electric	Stock	New	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	Restaurant	Plug_Load	Electric	Stock	New	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
MPS	Restaurant	Plug_Load	Electric	Stock	New	0.23	ENERGY STAR or Better Office Equipment: Monitors	16.3%	$ 0.02	4	100.0%	71.0%	71.0%	0.038	0.22	0.03	0.04	$0.13	$0.14	F	F
MPS	Restaurant	Plug_Load	Electric	Stock	New	0.23	ENERGY STAR or Better Office Equipment: Copiers	7.8%	$ 0.01	4	100.0%	33.0%	33.0%	0.018	0.20	0.01	0.02	$0.21	$0.24	F	F
MPS	Restaurant	Plug_Load	Electric	Stock	New	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	0.04	$0.24	$0.28	F	F
MPS	Restaurant	Plug_Load	Electric	Stock	New	0.23	ENERGY STAR or Better Office Equipment: Printers	15.0%	$ 0.04	4	100.0%	99.0%	99.0%	0.034	0.17	0.03	0.03	$0.34	$0.45	F	F
MPS	Restaurant	Refrigeration	Electric	Stock	New	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	A	A
MPS	Restaurant	Refrigeration	Electric	Stock	New	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
MPS	Restaurant	Refrigeration	Electric	Stock	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	Refrigeration	Electric	Stock	New	7.67	Installation of Floating Condenser Head Pressure Controls	8.8%	$ 0.12	14	100.0%	44.4%	44.4%	0.524	7.01	0.21	0.48	$0.03	$0.03	B	B
MPS	Restaurant	Refrigeration	Electric	Stock	New	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	C	C
MPS	Restaurant	Refrigeration	Electric	Stock	New	7.67	Demand Control Defrost - Hot Gas	2.5%	$ 0.07	10	100.0%	69.6%	69.6%	0.192	6.71	0.12	0.17	$0.05	$0.06	C	D
MPS	Restaurant	Refrigeration	Electric	Stock	New	7.67	Refrigeration Commissioning	5.0%	$ 0.08	3	100.0%	50.0%	50.0%	0.384	6.60	0.18	0.33	$0.07	$0.08	D	E
MPS	Restaurant	Refrigeration	Electric	Stock	New	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
MPS	Restaurant	Refrigeration	Electric	Stock	New	7.67	High Efficiency Case Fans	12.0%	$ 1.18	18	100.0%	95.0%	95.0%	0.919	6.24	0.71	0.75	$0.15	$0.18	F	F
MPS	Restaurant	Refrigeration	Electric	Stock	New	7.67	Reduced Speed or Cycling of Evaporator Fans	0.6%	$ 0.09	5	100.0%	80.0%	80.0%	0.042	6.53	0.02	0.03	$0.58	$0.80	F	F
MPS	Restaurant	Space_Heat	Electric	Stock	New	3.76	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.188	3.76	0.08	0.19	$0.18	$0.16	F	F
MPS	Restaurant	Space_Heat	Electric	Stock	New	3.76	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.22	20	50.0%	67.0%	33.5%	0.113	3.67	0.04	0.11	$0.21	$0.22	F	F
MPS	Restaurant	Space_Heat	Electric	Stock	New	3.76	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.099	3.63	0.04	0.10	$1.41	$1.45	F	F
MPS	Restaurant	Water_Heat	Electric	Stock	New	9.19	Heat Pump Water Heater	30.0%	$ 1.80	15	75.0%	100.0%	75.0%	2.757	9.19	2.07	2.76	$0.08	$0.08	E	E
MPS	Restaurant	Water_Heat	Electric	Stock	New	9.19	Demand controlled circulating systems	5.0%	$ 2.83	15	50.0%	100.0%	50.0%	0.460	7.12	0.18	0.36	$0.76	$0.98	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	New	3.14	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.031	3.14	0.02	0.03	$0.00	$0.00	A	A
MPS	Retail	Cooling_Chillers	Electric	Stock	New	3.14	High Efficiency Windows, Low-e; U=0.35	10.3%	$ 0.03	30	75.0%	100.0%	75.0%	0.324	3.12	0.24	0.32	$0.01	$0.01	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	Cooling_Chillers	Electric	Stock	New	3.14	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.38	15	50.0%	80.0%	40.0%	0.377	2.75	0.13	0.33	$0.12	$0.14	F	F
MPS	Retail	Cooling_Chillers	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	2.62	0.13	0.26	$0.12	$0.15	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.17	10	33.0%	50.0%	16.5%	0.157	2.49	0.02	0.12	$0.17	$0.21	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Cool Roofs (Reflective and Spray Evaporative)	8.9%	$ 0.47	10	90.0%	100.0%	90.0%	0.217	2.47	0.15	0.17	$0.34	$0.44	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	2.31	0.01	0.02	$0.89	$1.20	F	F
MPS	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.083	2.30	0.03	0.06	$1.68	$2.29	F	F
MPS	Retail	Cooling_DX	Electric	Stock	New	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	Cooling_DX	Electric	Stock	New	3.14	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.08	30	75.0%	100.0%	75.0%	0.157	3.13	0.12	0.16	$0.05	$0.05	B	C
MPS	Retail	Cooling_DX	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	3.01	0.15	0.30	$0.12	$0.13	F	F
MPS	Retail	Cooling_DX	Electric	Stock	New	3.14	DX Tune-Up / Diagnostics	10.0%	$ 0.20	3	100.0%	10.0%	10.0%	0.314	2.86	0.03	0.29	$0.26	$0.29	F	F
MPS	Retail	Cooling_DX	Electric	Stock	New	3.14	Cool Roofs (Reflective and Spray Evaporative)	8.9%	$ 0.47	10	50.0%	100.0%	50.0%	0.217	2.83	0.10	0.20	$0.34	$0.38	F	F
MPS	Retail	Cooling_DX	Electric	Stock	New	3.14	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.73	10	25.0%	95.0%	23.8%	0.314	2.73	0.06	0.27	$0.37	$0.42	F	F
MPS	Retail	Cooling_DX	Electric	Stock	New	3.14	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.083	2.67	0.03	0.07	$1.68	$1.98	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.08	30	75.0%	100.0%	75.0%	0.157	3.14	0.12	0.16	$0.05	$0.05	B	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	Cooling_HeatPump	Electric	Stock	New	3.14	DX Tune-Up / Diagnostics	10.0%	$ 0.20	3	100.0%	10.0%	10.0%	0.314	2.87	0.03	0.29	$0.26	$0.29	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Cool Roofs (Reflective and Spray Evaporative)	8.9%	$ 0.47	10	50.0%	100.0%	50.0%	0.217	2.84	0.10	0.20	$0.34	$0.38	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.73	10	25.0%	95.0%	23.8%	0.314	2.74	0.07	0.27	$0.37	$0.42	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	2.68	0.01	0.02	$0.89	$1.04	F	F
MPS	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.083	2.67	0.03	0.07	$1.68	$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	C	C
MPS	Retail	Lighting_2L4T12	Electric	Stock	New	5.89	4' 2L T8 Premium, EB	25.0%	$ 0.68	25	33.3%	100.0%	33.3%	1.473	5.89	0.49	1.47	$0.06	$0.06	C	C
MPS	Retail	Lighting_2L4T12	Electric	Stock	New	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	E
MPS	Retail	Lighting_2L4T12	Electric	Stock	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	Lighting_2L4T8	Electric	Stock	New	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	Lighting_2L8T12	Electric	Stock	New	5.89	8' 2L T8, EB	52.8%	$ 0.44	25	50.0%	100.0%	50.0%	3.110	5.89	1.55	3.11	$0.01	$0.01	A	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	A	A
MPS	Retail	Lighting_2L8T12	Electric	Stock	New	5.89	8' 2L T12, 60W, EB	10.6%	$ 0.21	25	25.0%	95.4%	23.9%	0.823	5.89	0.15	0.82	$0.03	$0.03	B	B
MPS	Retail	Lighting_2L8T12	Electric	Stock	New	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
MPS	Retail	Lighting_3L4T12	Electric	Stock	New	5.89	4' 1L T5HO, EB	48.1%	$ 0.12	25	25.0%	100.0%	25.0%	2.715	5.89	0.68	2.71	$0.00	$0.00	A	A
MPS	Retail	Lighting_3L4T12	Electric	Stock	New	5.89	4' 3L T8, EB	22.6%	$ 0.11	25	25.0%	100.0%	25.0%	1.332	5.89	0.33	1.33	$0.01	$0.01	A	A
MPS	Retail	Lighting_3L4T12	Electric	Stock	New	5.89	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.70	25	25.0%	100.0%	25.0%	3.124	5.89	0.78	3.12	$0.02	$0.02	A	A
MPS	Retail	Lighting_3L4T12	Electric	Stock	New	5.89	4' 3L T8 Premium, EB	22.8%	$ 0.31	25	25.0%	100.0%	25.0%	1.332	5.89	0.33	1.33	$0.02	$0.02	A	A
MPS	Retail	Lighting_3L4T8	Electric	Stock	New	4.71	4' 3L T8 Premium, EB	6.7%	$ 0.49	25	100.0%	100.0%	100.0%	0.316	4.71	0.32	0.32	$0.15	$0.15	F	F
MPS	Retail	Lighting_4L4T12	Electric	Stock	New	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
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	Lighting_4L4T12	Electric	Stock	New	5.89	4' 4L T8, EB	22.2%	$ 0.23	25	16.7%	100.0%	16.7%	1.309	5.89	0.22	1.31	$0.02	$0.02	A	A
MPS	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.83	25	16.7%	100.0%	16.7%	3.681	5.89	0.61	3.68	$0.02	$0.02	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	A	A
MPS	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	4' 4L T8 Premium, EB	25.0%	$ 0.55	25	16.7%	100.0%	16.7%	1.473	5.89	0.25	1.47	$0.04	$0.04	B	B
MPS	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 4.37	18	50.0%	100.0%	50.0%	4.418	5.89	2.21	4.42	$0.11	$0.11	F	F
MPS	Retail	Lighting_4L4T8	Electric	Stock	New	4.71	4' 4L T8 Premium, EB	3.8%	$ 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	Lighting_INC150W	Electric	Stock	New	5.89	HPS, 50W	56.0%	$ 5.13	8	45.0%	91.6%	41.2%	3.298	5.89	1.36	3.30	$0.29	$0.29	F	F
MPS	Retail	Plug_Load	Electric	Stock	New	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	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	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Copiers	9.6%	$ 0.01	4	100.0%	33.0%	33.0%	0.014	0.13	0.00	0.01	$0.12	$0.13	F	F
MPS	Retail	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Computer	17.2%	$ 0.01	4	100.0%	65.0%	65.0%	0.026	0.13	0.01	0.02	$0.18	$0.22	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	Space_Heat	Electric	Stock	New	4.59	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.230	4.59	0.11	0.23	$0.15	$0.15	F	F
MPS	Retail	Space_Heat	Electric	Stock	New	4.59	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	55.7%	27.9%	0.138	4.48	0.04	0.13	$0.18	$0.19	F	F
MPS	Retail	Space_Heat	Electric	Stock	New	4.59	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.121	4.44	0.05	0.12	$1.15	$1.19	F	F
MPS	Retail	Water_Heat	Electric	Stock	New	1.01	Heat Pump Water Heater	30.0%	$ 2.49	15	75.0%	100.0%	75.0%	0.303	1.01	0.23	0.30	$1.01	$1.01	F	F
MPS	Retail	Water_Heat	Electric	Stock	New	1.01	Demand controlled circulating systems	5.0%	$ 3.90	15	50.0%	100.0%	50.0%	0.051	0.78	0.02	0.04	$9.50	$12.28	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	Cooling_Chillers	Electric	Stock	New	1.51	High Efficiency Windows, Low-e; U=0.35	3.5%	$ 0.02	30	75.0%	66.0%	49.5%	0.058	1.50	0.03	0.06	$0.03	$0.03	A	A
MPS	School	Cooling_Chillers	Electric	Stock	New	1.51	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.08	15	67.0%	90.0%	60.3%	0.113	1.47	0.07	0.11	$0.09	$0.09	E	E
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	Cooling_Chillers	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	1.34	0.07	0.13	$0.23	$0.26	F	F
MPS	School	Cooling_Chillers	Electric	Stock	New	1.51	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.15	10	33.0%	50.0%	16.5%	0.075	1.27	0.01	0.08	$0.31	$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	Cooling_Chillers	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	1.19	0.00	0.01	$1.83	$2.31	F	F
MPS	School	Cooling_Chillers	Electric	Stock	New	1.51	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.040	1.19	0.01	0.03	$3.50	$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	Cooling_DX	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_DX	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	F
MPS	School	Cooling_DX	Electric	Stock	New	1.51	Cool Roofs (Reflective and Spray Evaporative)	6.1%	$ 0.24	10	50.0%	100.0%	50.0%	0.093	1.40	0.04	0.09	$0.40	$0.43	F	F
MPS	School	Cooling_DX	Electric	Stock	New	1.51	DX Tune-Up / Diagnostics	10.0%	$ 0.18	3	100.0%	10.0%	10.0%	0.151	1.35	0.01	0.14	$0.49	$0.55	F	F
MPS	School	Cooling_DX	Electric	Stock	New	1.51	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.65	10	25.0%	95.0%	23.8%	0.151	1.34	0.03	0.13	$0.69	$0.77	F	F
MPS	School	Cooling_HeatPump	Electric	Stock	New	1.51	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.040	1.31	0.02	0.03	$3.50	$4.04	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	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	School	Cooling_HeatPump	Electric	Stock	New	1.51	Cool Roofs (Reflective and Spray Evaporative)	6.1%	$ 0.24	10	50.0%	100.0%	50.0%	0.093	1.40	0.04	0.08	$0.40	$0.43	F	F
MPS	School	Cooling_HeatPump	Electric	Stock	New	1.51	DX Tune-Up / Diagnostics	10.0%	$ 0.18	3	100.0%	10.0%	10.0%	0.151	1.36	0.01	0.14	$0.49	$0.55	F	F
MPS	School	Cooling_HeatPump	Electric	Stock	New	1.51	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.65	10	25.0%	95.0%	23.8%	0.151	1.34	0.03	0.13	$0.69	$0.77	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	Cooling_HeatPump	Electric	Stock	New	1.51	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.040	1.31	0.02	0.03	$3.50	$4.04	F	F
MPS	School	Lighting_2L4T12	Electric	Stock	New	2.68	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.40	34	33.3%	100.0%	33.3%	1.638	2.68	0.55	1.64	$0.08	$0.08	E	E
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	E	E
MPS	School	Lighting_2L4T12	Electric	Stock	New	2.68	4' 1L T5HO, EB	13.9%	$ 0.52	34	33.3%	100.0%	33.3%	0.373	2.68	0.12	0.37	$0.12	$0.12	F	F
MPS	School	Lighting_2L4T12	Electric	Stock	New	2.68	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.38	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	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	Lighting_2L8T12	Electric	Stock	New	2.68	8' 2L T8, EB	52.8%	$ 0.38	34	50.0%	100.0%	50.0%	1.415	2.68	0.71	1.42	$0.02	$0.02	A	A
MPS	School	Lighting_2L8T12	Electric	Stock	New	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	C	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	C
MPS	School	Lighting_2L8T12	Electric	Stock	New	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
MPS	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 1L T5HO, EB	46.1%	$ 0.04	34	25.0%	100.0%	25.0%	1.235	2.68	0.31	1.24	$0.00	$0.00	A	A
MPS	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 3L T8, EB	22.6%	$ 0.04	34	25.0%	100.0%	25.0%	0.606	2.68	0.15	0.61	$0.01	$0.01	A	A
MPS	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.23	34	25.0%	100.0%	25.0%	1.422	2.68	0.36	1.42	$0.01	$0.01	A	A
MPS	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 3L T8 Premium, EB	22.6%	$ 0.10	34	25.0%	100.0%	25.0%	0.606	2.68	0.15	0.61	$0.02	$0.02	A	A
MPS	School	Lighting_3L4T8	Electric	Stock	New	2.14	4' 3L T8 Premium, EB	6.7%	$ 0.38	34	100.0%	100.0%	100.0%	0.143	2.14	0.14	0.14	$0.23	$0.23	F	F
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 3L T8, EB	38.2%	$ 0.09	34	18.7%	100.0%	18.7%	1.024	2.68	0.17	1.02	$0.01	$0.01	A	A
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 3L T8 Premium, EB	42.4%	$ 0.28	34	18.7%	100.0%	18.7%	1.135	2.68	0.19	1.14	$0.02	$0.02	A	A
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 4L T8, EB	22.2%	$ 0.18	34	18.7%	100.0%	18.7%	0.596	2.68	0.10	0.60	$0.03	$0.03	A	A
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.66	34	18.7%	100.0%	18.7%	1.675	2.68	0.28	1.68	$0.04	$0.04	B	B
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 2L T5HO, EB	18.8%	$ 0.26	34	18.7%	100.0%	18.7%	0.503	2.68	0.08	0.50	$0.05	$0.05	C	C
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 4L T8 Premium, EB	25.0%	$ 0.44	34	18.7%	100.0%	18.7%	0.670	2.68	0.11	0.67	$0.06	$0.06	C	C
MPS	School	Lighting_4L4T12	Electric	Stock	New	2.68	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.52	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
MPS	School	Lighting_4L4T8	Electric	Stock	New	2.14	4' 4L T8 Premium, EB	3.6%	$ 0.27	34	100.0%	100.0%	100.0%	0.077	2.14	0.08	0.08	$0.31	$0.31	F	F
MPS	School	Lighting_INC150W	Electric	Stock	New	2.68	HPS, 50W	56.0%	$ 2.09	12	45.0%	85.5%	38.5%	1.501	2.68	0.56	1.50	$0.20	$0.20	F	F
MPS	School	Plug_Load	Electric	Stock	New	0.11	Smart Networks	7.2%	$ 0.00	4	90.0%	40.0%	36.0%	0.008	0.11	0.00	0.01	$0.19	$0.19	F	F
MPS	School	Plug_Load	Electric	Stock	New	0.11	ENERGY STAR or Better Office Equipment: Copiers	8.0%	$ 0.01	4	100.0%	33.0%	33.0%	0.010	0.11	0.00	0.01	$0.48	$0.49	F	F
MPS	School	Plug_Load	Electric	Stock	New	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	$0.99	$1.05	F	F
MPS	School	Plug_Load	Electric	Stock	New	0.11	ENERGY STAR or Better Office Equipment: Printers	11.2%	$ 0.06	4	100.0%	99.0%	99.0%	0.012	0.09	0.01	0.01	$1.69	$2.04	F	F
MPS	School	Plug_Load	Electric	Stock	New	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	$2.40	F	F
MPS	School	Space_Heat	Electric	Stock	New	2.77	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.139	2.77	0.07	0.14	$0.25	$0.25	F	F
MPS	School	Space_Heat	Electric	Stock	New	2.77	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.23	20	50.0%	44.9%	22.5%	0.083	2.70	0.02	0.08	$0.30	$0.31	F	F
MPS	School	Space_Heat	Electric	Stock	New	2.77	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.073	2.68	0.03	0.07	$1.91	$1.97	F	F
MPS	School	Water_Heat	Electric	Stock	New	0.9	Heat Pump Water Heater	30.0%	$ 2.53	15	75.0%	87.2%	65.4%	0.270	0.90	0.18	0.27	$1.15	$1.15	F	F
MPS	School	Water_Heat	Electric	Stock	New	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	$13.52	F	F
MPS	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.042	4.19	0.02	0.04	$0.00	$0.00	A	A
MPS	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	High Efficiency Windows, Low-e; U=0.35	9.3%	$ 0.06	30	75.0%	89.4%	74.6%	0.388	4.17	0.29	0.39	$0.01	$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%	$ 0.11	15	67.0%	90.0%	60.3%	0.314	3.88	0.18	0.29	$0.04	$0.04	B	B
MPS	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.71	0.18	0.44	$0.11	$0.12	F	F
MPS	Small_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	F
MPS	Small_Office	Cooling_Chillers	Electric	Stock	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	$0.18	F	F
MPS	Small_Office	Cooling_Chillers	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	3.32	0.00	0.03	$0.46	$0.58	F	F
MPS	Small_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
MPS	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.27	0.04	0.09	$1.26	$1.62	F	F
MPS	Small_Office	Cooling_DX	Electric	Stock	New	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
MPS	Small_Office	Cooling_DX	Electric	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	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	Cooling_DX	Electric	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	$0.25	F	F
MPS	Small_Office	Cooling_DX	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.67	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.36	F	F
MPS	Small_Office	Cooling_DX	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.07	$0.48	$0.56	F	F
MPS	Small_Office	Cooling_DX	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
MPS	Small_Office	Cooling_HeatPump	Electric	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	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%	$ 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	Cooling_HeatPump	Electric	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	$0.25	F	F
MPS	Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.67	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.36	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	Cooling_HeatPump	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.07	$0.49	$0.56	F	F
MPS	Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
MPS	Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.59	16	33.3%	100.0%	33.3%	3.233	5.29	1.08	3.23	$0.08	$0.08	C	C
MPS	Small_Office	Lighting_2L4T12	Electric	Stock	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
MPS	Small_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
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	Lighting_2L4T8	Electric	Stock	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
MPS	Small_Office	Lighting_2L8T12	Electric	Stock	New	5.29	8' 2L T8, EB	52.8%	$ 0.38	16	50.0%	100.0%	50.0%	2.793	5.29	1.40	2.79	$0.02	$0.02	A	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	B	B
MPS	Small_Office	Lighting_2L8T12	Electric	Stock	New	5.29	8' 2L T12, 60W, EB	10.6%	$ 0.17	16	25.0%	25.6%	6.6%	0.559	5.29	0.04	0.56	$0.04	$0.04	B	B
MPS	Small_Office	Lighting_2L8T12	Electric	Stock	New	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	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	A
MPS	Small_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	22.6%	$ 0.05	16	25.0%	100.0%	25.0%	1.196	5.29	0.30	1.20	$0.00	$0.00	A	A
MPS	Small_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.28	16	25.0%	100.0%	25.0%	2.806	5.29	0.70	2.81	$0.01	$0.01	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	A	A
MPS	Small_Office	Lighting_3L4T8	Electric	Stock	New	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	$0.18	$0.18	F	F
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	18.7%	100.0%	18.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 3L T8 Premium, EB	42.4%	$ 0.32	16	18.7%	100.0%	18.7%	2.241	5.29	0.37	2.24	$0.02	$0.02	A	A
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 4L T8, EB	22.2%	$ 0.21	16	18.7%	100.0%	18.7%	1.176	5.29	0.20	1.18	$0.02	$0.02	A	A
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	18.7%	100.0%	18.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 2L T5HO, EB	18.8%	$ 0.29	16	18.7%	100.0%	18.7%	0.992	5.29	0.17	0.99	$0.03	$0.03	B	B
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 4L T8 Premium, EB	25.0%	$ 0.50	16	18.7%	100.0%	18.7%	1.323	5.29	0.22	1.32	$0.04	$0.04	B	B
MPS	Small_Office	Lighting_4L4T12	Electric	Stock	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	F
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	Stock	New	5.29	HPS, 50W	56.0%	$ 4.80	8	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
MPS	Small_Office	Plug_Load	Electric	Stock	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
MPS	Small_Office	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	E	E
MPS	Small_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	33.0%	33.0%	0.077	1.30	0.02	0.05	$0.14	$0.18	F	F
MPS	Small_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Computer	24.7%	$ 0.18	4	100.0%	65.0%	65.0%	0.393	1.26	0.21	0.32	$0.15	$0.19	F	F
MPS	Small_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Printers	8.0%	$ 0.10	4	100.0%	99.0%	99.0%	0.127	1.07	0.09	0.09	$0.25	$0.38	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	$0.08	$0.09	E	E
MPS	Small_Office	Space_Heat	Electric	Stock	New	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	6.17	0.15	0.31	$0.11	$0.11	F	F
MPS	Small_Office	Space_Heat	Electric	Stock	New	6.18	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.163	6.01	0.07	0.16	$0.88	$0.88	F	F
MPS	Small_Office	Water_Heat	Electric	Stock	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
MPS	Small_Office	Water_Heat	Electric	Stock	New	0.95	Demand controlled circulating systems	5.0%	$ 0.91	15	50.0%	93.2%	46.6%	0.048	0.74	0.02	0.04	$2.35	$3.03	F	F
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.017	1.66	0.01	0.02	$0.00	$0.00	A	A
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.01	30	75.0%	100.0%	75.0%	0.090	1.55	0.07	0.09	$0.00	$0.00	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.03	15	67.0%	90.0%	60.3%	0.125	1.58	0.07	0.12	$0.03	$0.03	B	B
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.14	15	50.0%	80.0%	40.0%	0.199	1.51	0.07	0.18	$0.08	$0.09	E	E
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	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	1.44	0.07	0.14	$0.08	$0.10	E	E
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.06	10	33.0%	50.0%	16.5%	0.083	1.37	0.01	0.07	$0.11	$0.14	F	F
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Cool Roofs (Reflective and Spray Evaporative)	4.3%	$ 0.47	10	90.0%	100.0%	90.0%	0.071	1.36	0.05	0.06	$1.05	$1.28	F	F
MPS	Warehouse	Cooling_Chillers	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	1.30	0.00	0.01	$1.61	$3.05	F	F
MPS	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.044	1.30	0.02	0.03	$3.18	$4.08	F	F
MPS	Warehouse	Cooling_DX	Electric	Stock	New	1.66	Ceiling R-19 to R-38 Insulation	0.9%	$ -	20	50.0%	20.0%	10.0%	0.015	1.66	0.00	0.01	$0.00	$0.00	A	A
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	B	B
MPS	Warehouse	Cooling_DX	Electric	Stock	New	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	1.60	0.06	0.16	$0.08	$0.09	E	E
MPS	Warehouse	Cooling_DX	Electric	Stock	New	1.66	DX Tune-Up / Diagnostics	10.0%	$ 0.07	3	100.0%	10.0%	10.0%	0.166	1.52	0.02	0.15	$0.18	$0.20	F	F
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
MPS	Warehouse	Cooling_DX	Electric	Stock	New	1.66	Cool Roofs (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	F
MPS	Warehouse	Cooling_DX	Electric	Stock	New	1.66	Wall 2x4 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
MPS	Warehouse	Cooling_HeatPump	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	B	B
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	New	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	1.60	0.06	0.16	$0.08	$0.09	E	E
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66	DX Tune-Up / Diagnostics	10.0%	$ 0.07	3	100.0%	10.0%	10.0%	0.166	1.52	0.02	0.15	$0.18	$0.19	F	F
MPS	Warehouse	Cooling_HeatPump	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
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66	Cool Roofs (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	F
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
MPS	Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66	Wall 2x4 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
MPS	Warehouse	Lighting_2L4T12	Electric	Stock	New	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	C	C
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	C	C
MPS	Warehouse	Lighting_2L4T12	Electric	Stock	New	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	Lighting_2L4T12	Electric	Stock	New	2.94	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 1.93	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.10	$0.10	F	F
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	0.20	$0.07	$0.07	D	D
MPS	Warehouse	Lighting_2L8T12	Electric	Stock	New	2.94	8' 2L T8, EB	52.9%	$ 0.21	22	50.0%	100.0%	50.0%	1.552	2.94	0.78	1.55	$0.01	$0.01	A	A
MPS	Warehouse	Lighting_2L8T12	Electric	Stock	New	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	A	A
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	B	B
MPS	Warehouse	Lighting_2L8T12	Electric	Stock	New	2.94	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.39	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.13	$0.13	F	F
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 1L T5HO, EB	46.1%	$ 0.01	22	25.0%	100.0%	25.0%	1.355	2.94	0.34	1.35	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 3L T8, EB	22.6%	$ 0.01	22	25.0%	100.0%	25.0%	0.665	2.94	0.17	0.66	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.04	22	25.0%	100.0%	25.0%	1.559	2.94	0.38	1.56	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 3L T8 Premium, EB	22.6%	$ 0.02	22	25.0%	100.0%	25.0%	0.665	2.94	0.17	0.66	$0.00	$0.00	A	A
MPS	Warehouse	Lighting_3L4T8	Electric	Stock	New	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	Lighting_4L4T12	Electric	Stock	New	2.94	4' 3L T8, EB	38.2%	$ 0.05	22	16.7%	100.0%	16.7%	1.123	2.94	0.19	1.12	$0.00	$0.00	A	A
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	A	A
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	New	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	A	A
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.37	22	16.7%	100.0%	16.7%	1.838	2.94	0.31	1.84	$0.02	$0.02	A	A
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	A
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	4' 4L T8 Premium, EB	25.0%	$ 0.25	22	16.7%	100.0%	16.7%	0.735	2.94	0.12	0.74	$0.03	$0.03	B	B
MPS	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 1.95	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.11	$0.11	F	F
MPS	Warehouse	Lighting_4L4T8	Electric	Stock	New	2.36	4' 4L T8 Premium, EB	3.8%	$ 0.15	22	100.0%	100.0%	100.0%	0.085	2.36	0.08	0.08	$0.18	$0.18	F	F
MPS	Warehouse	Lighting_INC150W	Electric	Stock	New	2.94	HPS, 50W	56.0%	$ 2.69	7	45.0%	90.2%	40.6%	1.645	2.94	0.67	1.65	$0.34	$0.34	F	F
MPS	Warehouse	Plug_Load	Electric	Stock	New	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
MPS	Warehouse	Plug_Load	Electric	Stock	New	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	Plug_Load	Electric	Stock	New	0.15	ENERGY 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	$0.68	$0.75	F	F
MPS	Warehouse	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Computer	21.0%	$ 0.10	4	100.0%	65.0%	65.0%	0.031	0.12	0.02	0.03	$1.02	$1.24	F	F
MPS	Warehouse	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Printers	11.4%	$ 0.08	4	100.0%	99.0%	99.0%	0.017	0.11	0.01	0.01	$1.20	$1.69	F	F
MPS	Warehouse	Space_Heat	Electric	Stock	New	4.02	Installation 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
MPS	Warehouse	Space_Heat	Electric	Stock	New	4.02	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.23	20	50.0%	33.7%	16.8%	0.121	3.92	0.02	0.12	$0.20	$0.20	F	F
MPS	Warehouse	Space_Heat	Electric	Stock	New	4.02	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.106	3.90	0.05	0.10	$1.31	$1.36	F	F
MPS	Warehouse	Water_Heat	Electric	Stock	New	0.42	Heat Pump 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	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
SJD	Grocery	Cooling_Chillers	Electric	Stock	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
SJD	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.03	30	75.0%	100.0%	75.0%	0.221	4.08	0.17	0.22	$0.01	$0.01	A	A
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	C	C
SJD	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.49	15	50.0%	80.0%	40.0%	0.492	3.74	0.18	0.45	$0.12	$0.13	F	F
SJD	Grocery	Cooling_Chillers	Electric	Stock	New	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	3.56	0.18	0.36	$0.12	$0.14	F	F
SJD	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.21	10	33.0%	50.0%	16.5%	0.205	3.38	0.03	0.17	$0.17	$0.20	F	F
SJD	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Cool Roofs (Reflective and Spray Evaporative)	4.3%	$ 0.47	10	90.0%	100.0%	90.0%	0.176	3.35	0.13	0.14	$0.42	$0.52	F	F
SJD	Grocery	Cooling_Chillers	Electric	Stock	New	4.1	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	20.0%	10.0%	0.037	3.22	0.00	0.03	$0.69	$0.88	F	F
SJD	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
SJD	Grocery	Cooling_DX	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	B	B
SJD	Grocery	Cooling_DX	Electric	Stock	New	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	3.95	0.20	0.39	$0.12	$0.13	F	F
SJD	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
SJD	Grocery	Cooling_DX	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
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
SJD	Grocery	Cooling_DX	Electric	Stock	New	4.1	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	20.0%	10.0%	0.037	3.55	0.00	0.03	$0.69	$0.80	F	F
SJD	Grocery	Cooling_DX	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	3.54	0.04	0.09	$1.29	$1.49	F	F
SJD	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	B	B
SJD	Grocery	Cooling_HeatPump	Electric	Stock	New	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	3.95	0.20	0.39	$0.12	$0.13	F	F
SJD	Grocery	Cooling_HeatPump	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
SJD	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
SJD	Grocery	Cooling_HeatPump	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
SJD	Grocery	Cooling_HeatPump	Electric	Stock	New	4.1	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	20.0%	10.0%	0.037	3.55	0.00	0.03	$0.69	$0.80	F	F
SJD	Grocery	Cooling_HeatPump	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	3.54	0.04	0.09	$1.29	$1.49	F	F
SJD	Grocery	Lighting_2L4T12	Electric	Stock	New	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	A	A
SJD	Grocery	Lighting_2L4T12	Electric	Stock	New	12.76	4' 2L T8 Premium, EB	25.0%	$ 0.78	12	33.3%	100.0%	33.3%	3.190	12.76	1.06	3.19	$0.03	$0.03	B	B
SJD	Grocery	Lighting_2L4T12	Electric	Stock	New	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	C
SJD	Grocery	Lighting_2L4T12	Electric	Stock	New	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	Lighting_2L4T8	Electric	Stock	New	10.21	4' 2L T8 Premium, EB	8.5%	$ 0.26	12	100.0%	100.0%	100.0%	0.863	10.21	0.87	0.87	$0.04	$0.04	B	B
SJD	Grocery	Lighting_2L8T12	Electric	Stock	New	12.76	8' 2L T8, EB	52.8%	$ 0.37	12	50.0%	100.0%	50.0%	6.737	12.76	3.37	6.74	$0.01	$0.01	A	A
SJD	Grocery	Lighting_2L8T12	Electric	Stock	New	12.76	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.82	12	25.0%	100.0%	25.0%	7.059	12.76	1.76	7.06	$0.02	$0.02	A	A
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	A	A
SJD	Grocery	Lighting_2L8T12	Electric	Stock	New	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
SJD	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 1L T5HO, EB	46.1%	$ 0.06	12	25.0%	100.0%	25.0%	5.881	12.76	1.47	5.88	$0.00	$0.00	A	A
SJD	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 3L T8, EB	22.6%	$ 0.08	12	25.0%	100.0%	25.0%	2.885	12.76	0.72	2.88	$0.00	$0.00	A	A
SJD	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.35	12	25.0%	100.0%	25.0%	6.769	12.76	1.69	6.77	$0.01	$0.01	A	A
SJD	Grocery	Lighting_3L4T12	Electric	Stock	New	12.76	4' 3L T8 Premium, EB	22.6%	$ 0.18	12	25.0%	100.0%	25.0%	2.885	12.76	0.72	2.88	$0.01	$0.01	A	A
SJD	Grocery	Lighting_3L4T8	Electric	Stock	New	10.21	4' 3L T8 Premium, EB	6.7%	$ 0.42	12	100.0%	100.0%	100.0%	0.684	10.21	0.68	0.68	$0.09	$0.09	E	E
SJD	Grocery	Lighting_4L4T12	Electric	Stock	New	12.76	4' 3L T8, EB	38.2%	$ 0.10	12	16.7%	100.0%	16.7%	4.874	12.76	0.81	4.87	$0.00	$0.00	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	A	A
SJD	Grocery	Lighting_4L4T12	Electric	Stock	New	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	A	A
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' 2L T5HO, EB	18.8%	$ 0.29	12	16.7%	100.0%	16.7%	2.393	12.76	0.40	2.39	$0.01	$0.01	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Grocery	Lighting_4L4T12	Electric	Stock	New	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	A
SJD	Grocery	Lighting_4L4T12	Electric	Stock	New	12.76	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.90	8	26.0%	100.0%	26.0%	9.570	12.76	2.49	9.57	$0.08	$0.08	E	E
SJD	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
SJD	Grocery	Lighting_INC150W	Electric	Stock	New	12.76	HPS, 50W	56.0%	$ 8.98	4	45.0%	94.3%	42.4%	7.146	12.76	3.03	7.15	$0.41	$0.41	F	F
SJD	Grocery	Plug_Load	Electric	Stock	New	0.41	Smart Networks	6.5%	$ 0.00	4	90.0%	40.0%	36.0%	0.027	0.41	0.01	0.03	$0.01	$0.01	A	A
SJD	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	A	B
SJD	Grocery	Plug_Load	Electric	Stock	New	0.41	ENERGY STAR or Better Office Equipment: Computer	17.9%	$ 0.01	4	100.0%	65.0%	65.0%	0.073	0.38	0.04	0.06	$0.05	$0.06	C	D
SJD	Grocery	Plug_Load	Electric	Stock	New	0.41	ENERGY STAR or Better Office Equipment: Printers	13.0%	$ 0.01	4	100.0%	99.0%	99.0%	0.053	0.31	0.04	0.04	$0.07	$0.10	D	E
SJD	Grocery	Plug_Load	Electric	Stock	New	0.41	ENERGY STAR or Better Office Equipment: Copiers	9.7%	$ 0.01	4	100.0%	33.0%	33.0%	0.040	0.27	0.01	0.03	$0.10	$0.15	F	F
SJD	Grocery	Refrigeration	Electric	Stock	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
SJD	Grocery	Refrigeration	Electric	Stock	New	28.13	Anti-Sweat (Humidistat) Controls	5.0%	$ 0.02	12	100.0%	48.0%	48.0%	1.404	27.36	0.66	1.37	$0.00	$0.00	A	A
SJD	Grocery	Refrigeration	Electric	Stock	New	28.13	Demand Control Defrost - Electric	7.8%	$ 0.04	10	100.0%	48.0%	48.0%	2.184	28.70	0.99	2.07	$0.00	$0.00	A	A
SJD	Grocery	Refrigeration	Electric	Stock	New	28.13	Installation of Floating Condenser Head Pressure Controls	6.8%	$ 0.12	14	100.0%	44.4%	44.4%	1.921	25.71	0.78	1.76	$0.01	$0.01	A	A
SJD	Grocery	Refrigeration	Electric	Stock	New	28.13	Strip Curtains for Walk-Ins	4.0%	$ 0.05	4	100.0%	30.0%	30.0%	1.132	24.93	0.30	1.00	$0.01	$0.02	A	A
SJD	Grocery	Refrigeration	Electric	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	A	A
SJD	Grocery	Refrigeration	Electric	Stock	New	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	A	A
SJD	Grocery	Refrigeration	Electric	Stock	New	28.13	Compressor VSD retrofit	8.2%	$ 0.41	10	50.0%	95.0%	47.5%	1.745	23.59	0.89	1.46	$0.04	$0.04	B	B
SJD	Grocery	Refrigeration	Electric	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	B	C
SJD	Grocery	Refrigeration	Electric	Stock	New	28.13	Reduced Speed or Cycling of Evaporator Fans	0.6%	$ 0.09	5	100.0%	80.0%	80.0%	0.155	20.29	0.09	0.11	$0.16	$0.22	F	F
SJD	Grocery	Space_Heat	Electric	Stock	New	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	5.42	0.14	0.27	$0.13	$0.13	F	F
SJD	Grocery	Space_Heat	Electric	Stock	New	5.42	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	85.0%	42.5%	0.163	5.28	0.07	0.16	$0.16	$0.16	F	F
SJD	Grocery	Space_Heat	Electric	Stock	New	5.42	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.8%	$ 1.31	20	50.0%	90.0%	45.0%	0.143	5.22	0.06	0.14	$0.86	$1.01	F	F
SJD	Grocery	Water_Heat	Electric	Stock	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
SJD	Grocery	Water_Heat	Electric	Stock	New	2.4	Demand controlled circulating systems	5.0%	$ 1.32	15	50.0%	100.0%	50.0%	0.120	1.86	0.05	0.09	$1.35	$1.75	F	F
SJD	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
SJD	Health	Cooling_Chillers	Electric	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	B	B
SJD	Health	Cooling_Chillers	Electric	Stock	New	3.36	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.16	15	67.0%	90.0%	60.3%	0.252	3.32	0.15	0.25	$0.08	$0.08	E	E
SJD	Health	Cooling_Chillers	Electric	Stock	New	3.36	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.88	15	50.0%	80.0%	40.0%	0.403	3.17	0.15	0.38	$0.21	$0.22	F	F
SJD	Health	Cooling_Chillers	Electric	Stock	New	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	3.02	0.15	0.30	$0.21	$0.23	F	F
SJD	Health	Cooling_Chillers	Electric	Stock	New	3.36	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.30	10	33.0%	50.0%	16.5%	0.168	2.87	0.02	0.14	$0.28	$0.33	F	F
SJD	Health	Cooling_Chillers	Electric	Stock	New	3.36	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.21	20	50.0%	20.0%	10.0%	0.030	2.85	0.00	0.03	$0.75	$0.89	F	F
SJD	Health	Cooling_Chillers	Electric	Stock	New	3.36	Cool Roofs (Reflective and Spray Evaporative)	0.6%	$ 0.18	10	90.0%	100.0%	90.0%	0.021	2.84	0.02	0.02	$1.17	$1.38	F	F
SJD	Health	Cooling_Chillers	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	2.83	0.03	0.07	$1.57	$1.87	F	F
SJD	Health	Cooling_DX	Electric	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	A	A
SJD	Health	Cooling_DX	Electric	Stock	New	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	3.28	0.16	0.33	$0.21	$0.21	F	F
SJD	Health	Cooling_DX	Electric	Stock	New	3.36	DX Tune-Up / Diagnostics	10.0%	$ 0.35	3	100.0%	10.0%	10.0%	0.336	3.11	0.03	0.31	$0.44	$0.48	F	F
SJD	Health	Cooling_DX	Electric	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
SJD	Health	Cooling_DX	Electric	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
SJD	Health	Cooling_DX	Electric	Stock	New	3.36	Cool Roofs (Reflective and Spray Evaporative)	0.6%	$ 0.18	10	50.0%	100.0%	50.0%	0.021	3.01	0.01	0.02	$1.17	$1.30	F	F
SJD	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
SJD	Health	Cooling_HeatPump	Electric	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	A	A
SJD	Health	Cooling_HeatPump	Electric	Stock	New	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	3.28	0.16	0.33	$0.21	$0.21	F	F
SJD	Health	Cooling_HeatPump	Electric	Stock	New	3.36	DX Tune-Up / Diagnostics	10.0%	$ 0.35	3	100.0%	10.0%	10.0%	0.336	3.11	0.03	0.31	$0.44	$0.48	F	F
SJD	Health	Cooling_HeatPump	Electric	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
SJD	Health	Cooling_HeatPump	Electric	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
SJD	Health	Cooling_HeatPump	Electric	Stock	New	3.36	Cool Roofs (Reflective and Spray Evaporative)	0.6%	$ 0.18	10	50.0%	100.0%	50.0%	0.021	3.01	0.01	0.02	$1.17	$1.30	F	F
SJD	Health	Cooling_HeatPump	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
SJD	Health	Lighting_2L4T12	Electric	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	B	B
SJD	Health	Lighting_2L4T12	Electric	Stock	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	B	B
SJD	Health	Lighting_2L4T12	Electric	Stock	New	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	C
SJD	Health	Lighting_2L4T12	Electric	Stock	New	10.77	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.74	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
SJD	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	C
SJD	Health	Lighting_2L6T12	Electric	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
SJD	Health	Lighting_2L6T12	Electric	Stock	New	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	A	A
SJD	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	A	A
SJD	Health	Lighting_2L8T12	Electric	Stock	New	10.77	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 3.98	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
SJD	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 1L T5HO, EB	46.1%	$ 0.01	12	25.0%	100.0%	25.0%	4.964	10.77	1.24	4.96	$0.00	$0.00	A	A
SJD	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 3L T8, EB	22.6%	$ 0.01	12	25.0%	100.0%	25.0%	2.435	10.77	0.61	2.43	$0.00	$0.00	A	A
SJD	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.07	12	25.0%	100.0%	25.0%	5.713	10.77	1.43	5.71	$0.00	$0.00	A	A
SJD	Health	Lighting_3L4T12	Electric	Stock	New	10.77	4' 3L T8 Premium, EB	22.6%	$ 0.03	12	25.0%	100.0%	25.0%	2.435	10.77	0.61	2.43	$0.00	$0.00	A	A
SJD	Health	Lighting_3L4T8	Electric	Stock	New	8.62	4' 3L T8 Premium, EB	6.7%	$ 0.42	12	100.0%	100.0%	100.0%	0.576	8.62	0.58	0.58	$0.10	$0.10	F	F
SJD	Health	Lighting_4L4T12	Electric	Stock	New	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	Lighting_4L4T12	Electric	Stock	New	10.77	4' 3L T8 Premium, EB	42.4%	$ 0.31	12	16.7%	100.0%	16.7%	4.562	10.77	0.76	4.56	$0.01	$0.01	A	A
SJD	Health	Lighting_4L4T12	Electric	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	A	A
SJD	Health	Lighting_4L4T12	Electric	Stock	New	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
SJD	Health	Lighting_4L4T12	Electric	Stock	New	10.77	4' 2L T5HO, EB	18.8%	$ 0.28	12	16.7%	100.0%	16.7%	2.019	10.77	0.34	2.02	$0.02	$0.02	A	A
SJD	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	A	A
SJD	Health	Lighting_4L4T12	Electric	Stock	New	10.77	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.84	8	10.0%	100.0%	10.0%	8.078	10.77	0.81	8.08	$0.09	$0.09	E	E
SJD	Health	Lighting_4L4T8	Electric	Stock	New	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
SJD	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
SJD	Health	Plug_Load	Electric	Stock	New	0.52	Smart Networks	8.4%	$ 0.00	4	90.0%	40.0%	36.0%	0.033	0.52	0.01	0.03	$0.04	$0.04	B	B
SJD	Health	Plug_Load	Electric	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	0.08	0.08	$0.23	$0.23	F	F
SJD	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Copiers	10.2%	$ 0.04	4	100.0%	33.0%	33.0%	0.053	0.45	0.02	0.05	$0.24	$0.28	F	F
SJD	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Computer	17.4%	$ 0.11	4	100.0%	65.0%	65.0%	0.090	0.44	0.05	0.08	$0.40	$0.48	F	F
SJD	Health	Plug_Load	Electric	Stock	New	0.52	ENERGY STAR or Better Office Equipment: Printers	13.2%	$ 0.11	4	100.0%	99.0%	99.0%	0.069	0.39	0.05	0.05	$0.53	$0.71	F	F
SJD	Health	Space_Heat	Electric	Stock	New	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	4.96	0.12	0.25	$0.14	$0.14	F	F
SJD	Health	Space_Heat	Electric	Stock	New	4.96	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.21	20	50.0%	40.0%	20.0%	0.149	4.84	0.03	0.15	$0.15	$0.16	F	F
SJD	Health	Space_Heat	Electric	Stock	New	4.96	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.131	4.81	0.06	0.13	$1.07	$1.10	F	F
SJD	Health	Water_Heat	Electric	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
SJD	Health	Water_Heat	Electric	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
SJD	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.042	4.19	0.02	0.04	$0.00	$0.00	A	A
SJD	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	High Efficiency Windows, Low-e; U=0.35	9.3%	$ 0.08	30	75.0%	99.4%	74.6%	0.388	4.17	0.29	0.39	$0.01	$0.01	A	A
SJD	Large_Office	Cooling_Chillers	Electric	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	B	B
SJD	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.71	0.18	0.44	$0.11	$0.12	F	F
SJD	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	F
SJD	Large_Office	Cooling_Chillers	Electric	Stock	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
SJD	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.18	20	50.0%	8.7%	4.4%	0.038	3.32	0.00	0.03	$0.46	$0.58	F	F
SJD	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
SJD	Large_Office	Cooling_Chillers	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.27	0.04	0.09	$1.28	$1.52	F	F
SJD	Large_Office	Cooling_DX	Electric	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	$0.08	D	D
SJD	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
SJD	Large_Office	Cooling_DX	Electric	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
SJD	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.87	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.36	F	F
SJD	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.18	20	50.0%	8.7%	4.4%	0.038	3.70	0.00	0.03	$0.46	$0.52	F	F
SJD	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.07	$0.49	$0.56	F	F
SJD	Large_Office	Cooling_DX	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	[illegible]	[illegible]	[illegible]	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Large_Office	Cooling_HeatPump	Electric	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	D
SJD	Large_Office	Cooling_HeatPump	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
SJD	Large_Office	Cooling_HeatPump	Electric	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
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.87	10	25.0%	95.0%	23.8%	0.419	3.79	0.08	0.38	$0.33	$0.36	F	F
SJD	Large_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
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.07	$0.49	$0.56	F	F
SJD	Large_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
SJD	Large_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	C	C
SJD	Large_Office	Lighting_2L4T12	Electric	Stock	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	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
SJD	Large_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
SJD	Large_Office	Lighting_2L4T8	Electric	Stock	New	4.24	4' 2L T8 Premium, EB	8.5%	$ 0.27	18	100.0%	100.0%	100.0%	0.360	4.24	0.36	0.36	$0.09	$0.09	E	E
SJD	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	A	A
SJD	Large_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	B	B
SJD	Large_Office	Lighting_2L8T12	Electric	Stock	New	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	B	B
SJD	Large_Office	Lighting_2L8T12	Electric	Stock	New	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
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 1L T5HO, EB	46.1%	$ 0.06	16	25.0%	100.0%	25.0%	2.438	5.29	0.61	2.44	$0.00	$0.00	A	A
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	22.8%	$ 0.05	16	25.0%	100.0%	25.0%	1.196	5.29	0.30	1.20	$0.00	$0.00	A	A
SJD	Large_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.28	16	25.0%	100.0%	25.0%	2.806	5.29	0.70	2.81	$0.01	$0.01	A	A
SJD	Large_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	A	A
SJD	Large_Office	Lighting_3L4T8	Electric	Stock	New	4.24	4' 3L T8 Premium, EB	6.7%	$ 0.45	16	100.0%	100.0%	100.0%	0.284	4.24	0.28	0.28	$0.18	$0.18	F	F
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
SJD	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	A	A
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	New	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	A	A
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
SJD	Large_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	B	B
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	New	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	B	B
SJD	Large_Office	Lighting_4L4T12	Electric	Stock	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	F
SJD	Large_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
SJD	Large_Office	Lighting_INC150W	Electric	Stock	New	5.29	HPS, 50W	58.0%	$ 4.80	8	45.0%	93.9%	42.2%	2.962	5.29	1.25	2.96	$0.38	$0.38	F	F
SJD	Large_Office	Plug_Load	Electric	Stock	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	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	E	E
SJD	Large_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	33.0%	33.0%	0.077	1.30	0.02	0.08	$0.14	$0.18	F	F
SJD	Large_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Computer	24.7%	$ 0.18	4	100.0%	65.0%	65.0%	0.393	1.28	0.21	0.32	$0.15	$0.19	F	F
SJD	Large_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Printers	8.0%	$ 0.10	4	100.0%	99.0%	99.0%	0.127	1.07	0.09	0.09	$0.26	$0.39	F	F
SJD	Large_Office	Space_Heat	Electric	Stock	New	6.16	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.16	20	50.0%	12.9%	6.5%	0.185	6.16	0.01	0.18	$0.09	$0.09	E	E
SJD	Large_Office	Space_Heat	Electric	Stock	New	6.16	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	6.17	0.15	0.31	$0.11	$0.11	F	F
SJD	Large_Office	Space_Heat	Electric	Stock	New	6.16	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.163	6.01	0.07	0.16	$0.86	$0.88	F	F
SJD	Large_Office	Water_Heat	Electric	Stock	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	Water_Heat	Electric	Stock	New	0.95	Demand controlled circulating systems	5.0%	$ 0.91	15	50.0%	93.2%	46.6%	0.048	0.74	0.02	0.04	$2.35	$3.03	F	F
SJD	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.028	2.83	0.01	0.03	$0.00	$0.00	A	A
SJD	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	High Efficiency Windows, Low-e; U=0.35	7.0%	$ 0.08	30	75.0%	92.9%	69.7%	0.199	2.82	0.14	0.20	$0.03	$0.03	A	A
SJD	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Decrease Cooling Tower Approach Temperature, 300 Tons, 8 Deg F	7.5%	$ 0.17	15	67.0%	90.0%	60.3%	0.212	2.88	0.12	0.20	$0.10	$0.10	E	F
SJD	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.71	15	50.0%	80.0%	40.0%	0.340	2.56	0.12	0.31	$0.28	$0.29	F	F
SJD	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	2.45	0.12	0.24	$0.26	$0.30	F	F
SJD	Lodging	Cooling_Chillers	Electric	Stock	New	2.83	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.31	10	33.0%	50.0%	16.5%	0.142	2.31	0.02	0.12	$0.35	$0.43	F	F
SJD	Lodging	Cooling_Chillers	Electric	Stock	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	Cooling_Chillers	Electric	Stock	New	2.83	Cool Roofs (Reflective and Spray Evaporative)	0.4%	$ 0.04	10	90.0%	100.0%	90.0%	0.011	2.29	0.01	0.01	$0.56	$0.69	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	New	2.83	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.074	2.28	0.03	0.06	$1.87	$2.32	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	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	B	B
SJD	Lodging	Cooling_DX	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	2.32	0.09	0.12	$0.10	$0.12	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	New	2.83	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	$ 0.48	10	50.0%	100.0%	50.0%	0.283	2.24	0.11	0.22	$0.26	$0.33	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	New	2.83	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.11	20	50.0%	34.6%	17.3%	0.025	2.13	0.00	0.02	$0.44	$0.58	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	New	2.83	DX Tune-Up / Diagnostics	10.0%	$ 0.37	3	100.0%	10.0%	10.0%	0.263	2.13	0.02	0.21	$0.55	$0.73	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	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	$0.58	$0.75	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	New	2.83	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 1.38	10	25.0%	95.0%	23.8%	0.283	2.10	0.05	0.21	$0.77	$1.04	F	F
SJD	Lodging	Cooling_DX	Electric	Stock	New	2.83	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.074	2.05	0.03	0.05	$1.87	$2.57	F	F
SJD	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
SJD	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	$ 0.48	10	50.0%	100.0%	50.0%	0.283	2.73	0.14	0.27	$0.26	$0.27	F	F
SJD	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.11	20	50.0%	34.6%	17.3%	0.025	2.59	0.00	0.02	$0.44	$0.48	F	F
SJD	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	DX Tune-Up / Diagnostics	10.0%	$ 0.37	3	100.0%	10.0%	10.0%	0.263	2.59	0.03	0.26	$0.55	$0.60	F	F
SJD	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Cool Roofs (Reflective and Spray Evaporative)	0.4%	$ 0.04	10	50.0%	100.0%	50.0%	0.011	2.56	0.01	0.01	$0.56	$0.62	F	F
SJD	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 1.38	10	25.0%	95.0%	23.8%	0.283	2.55	0.06	0.26	$0.77	$0.85	F	F
SJD	Lodging	Cooling_HeatPump	Electric	Stock	New	2.83	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.074	2.50	0.03	0.07	$1.87	$2.12	F	F
SJD	Lodging	Lighting_2L4T12	Electric	Stock	New	3.01	4' 1L T8 Premium, EB, reflector	61.1%	$ 0.78	26	33.3%	100.0%	33.3%	1.839	3.01	0.61	1.84	$0.04	$0.04	B	B
SJD	Lodging	Lighting_2L4T12	Electric	Stock	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	C
SJD	Lodging	Lighting_2L4T12	Electric	Stock	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
SJD	Lodging	Lighting_2L4T12	Electric	Stock	New	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	Lighting_2L4T8	Electric	Stock	New	2.41	4' 2L T8 Premium, EB	8.5%	$ 0.13	26	100.0%	100.0%	100.0%	0.205	2.41	0.20	0.20	$0.06	$0.06	D	D
SJD	Lodging	Lighting_2L8T12	Electric	Stock	New	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	A	A
SJD	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.40	26	25.0%	100.0%	25.0%	1.665	3.01	0.42	1.66	$0.02	$0.02	A	A
SJD	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	8' 2L T12, 60W, EB	10.6%	$ 0.09	26	25.0%	79.9%	20.0%	0.318	3.01	0.08	0.32	$0.03	$0.03	A	A
SJD	Lodging	Lighting_2L8T12	Electric	Stock	New	3.01	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.07	19	30.0%	100.0%	30.0%	2.258	3.01	0.68	2.26	$0.10	$0.10	E	E
SJD	Lodging	Lighting_3L4T12	Electric	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
SJD	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01	4' 3L T8, EB	22.8%	$ 0.02	26	25.0%	100.0%	25.0%	0.681	3.01	0.17	0.68	$0.00	$0.00	A	A
SJD	Lodging	Lighting_3L4T12	Electric	Stock	New	3.01	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.11	26	25.0%	100.0%	25.0%	1.597	3.01	0.40	1.60	$0.01	$0.01	A	A
SJD	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	A	A
SJD	Lodging	Lighting_3L4T8	Electric	Stock	New	2.41	4' 3L T8 Premium, EB	6.7%	$ 0.21	26	100.0%	100.0%	100.0%	0.161	2.41	0.16	0.16	$0.13	$0.13	F	F
SJD	Lodging	Lighting_4L4T12	Electric	Stock	New	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	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	A	A
SJD	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 4L T8, EB	22.2%	$ 0.10	26	16.7%	100.0%	16.7%	0.669	3.01	0.11	0.67	$0.01	$0.01	A	A
SJD	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.36	26	16.7%	100.0%	16.7%	1.861	3.01	0.31	1.88	$0.02	$0.02	A	A
SJD	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 2L T5HO, EB	18.8%	$ 0.14	26	16.7%	100.0%	16.7%	0.564	3.01	0.09	0.56	$0.02	$0.02	A	A
SJD	Lodging	Lighting_4L4T12	Electric	Stock	New	3.01	4' 4L T8 Premium, EB	25.0%	$ 0.24	26	16.7%	100.0%	16.7%	0.753	3.01	0.13	0.75	$0.03	$0.03	B	B
SJD	Lodging	Lighting_4L4T12	Electric	Stock	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	E
SJD	Lodging	Lighting_4L4T8	Electric	Stock	New	2.41	4' 4L T8 Premium, EB	3.6%	$ 0.15	26	100.0%	100.0%	100.0%	0.087	2.41	0.09	0.09	$0.16	$0.16	F	F
SJD	Lodging	Lighting_INC150W	Electric	Stock	New	3.01	HPS, 50W	58.0%	$ 1.98	8	45.0%	92.2%	41.5%	1.886	3.01	0.70	1.69	$0.20	$0.20	F	F
SJD	Lodging	Plug_Load	Electric	Stock	New	0.1	Smart Networks	4.5%	$ 0.00	4	90.0%	40.0%	36.0%	0.005	0.10	0.00	0.00	$0.03	$0.03	A	A
SJD	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Copiers	20.2%	$ 0.00	4	100.0%	33.0%	33.0%	0.020	0.10	0.01	0.02	$0.04	$0.04	B	B
SJD	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Monitors	10.8%	$ 0.00	4	100.0%	71.0%	71.0%	0.011	0.09	0.01	0.01	$0.14	$0.16	F	F
SJD	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Computer	12.2%	$ 0.01	4	100.0%	65.0%	65.0%	0.012	0.08	0.01	0.01	$0.26	$0.30	F	F
SJD	Lodging	Plug_Load	Electric	Stock	New	0.1	ENERGY STAR or Better Office Equipment: Printers	7.6%	$ 0.01	4	100.0%	99.0%	99.0%	0.008	0.08	0.01	0.01	$0.45	$0.57	F	F
SJD	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
SJD	Lodging	Space_Heat	Electric	Stock	New	2.54	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.11	20	50.0%	62.3%	31.1%	0.078	2.09	0.02	0.06	$0.15	$0.18	F	F
SJD	Lodging	Space_Heat	Electric	Stock	New	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	2.07	0.05	0.10	$0.27	$0.33	F	F
SJD	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	[illegible]	[illegible]	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Lodging	Water_Heat	Electric	Stock	New	2.79	Heat Pump Water Heater	30.0%	$ 3.47	15	75.0%	100.0%	75.0%	0.837	2.79	0.63	0.84	$0.51	$0.51	F	F
SJD	Lodging	Water_Heat	Electric	Stock	New	2.79	Demand controlled circulating systems	5.0%	$ 5.45	15	50.0%	100.0%	50.0%	0.140	2.15	0.05	0.11	$4.81	$6.20	F	F
SJD	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
SJD	Miscellaneous	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	B
SJD	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.07	15	67.0%	90.0%	60.3%	0.179	2.34	0.11	0.18	$0.05	$0.05	C	C
SJD	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.30	15	50.0%	80.0%	40.0%	0.287	2.24	0.11	0.27	$0.13	$0.14	F	F
SJD	Miscellaneous	Cooling_Chillers	Electric	Stock	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
SJD	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.13	10	33.0%	50.0%	16.5%	0.120	2.02	0.02	0.10	$0.18	$0.21	F	F
SJD	Miscellaneous	Cooling_Chillers	Electric	Stock	New	2.39	Cool Roofs (Reflective and Spray Evaporative)	13.0%	$ 0.47	10	90.0%	100.0%	90.0%	0.310	2.01	0.23	0.26	$0.24	$0.29	F	F
SJD	Miscellaneous	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	F
SJD	Miscellaneous	Cooling_Chillers	Electric	Stock	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	1.77	0.02	0.05	$2.21	$2.99	F	F
SJD	Miscellaneous	Cooling_DX	Electric	Stock	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	B	B
SJD	Miscellaneous	Cooling_DX	Electric	Stock	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	2.32	0.12	0.23	$0.13	$0.13	F	F
SJD	Miscellaneous	Cooling_DX	Electric	Stock	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
SJD	Miscellaneous	Cooling_DX	Electric	Stock	New	2.39	DX Tune-Up / Diagnostics	10.0%	$ 0.16	3	100.0%	10.0%	10.0%	0.239	2.06	0.02	0.21	$0.28	$0.32	F	F
SJD	Miscellaneous	Cooling_DX	Electric	Stock	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	F	F
SJD	Miscellaneous	Cooling_DX	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
SJD	Miscellaneous	Cooling_DX	Electric	Stock	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
SJD	Miscellaneous	Cooling_HeatPump	Electric	Stock	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	B	B
SJD	Miscellaneous	Cooling_HeatPump	Electric	Stock	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	2.32	0.12	0.23	$0.13	$0.13	F	F
SJD	Miscellaneous	Cooling_HeatPump	Electric	Stock	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
SJD	Miscellaneous	Cooling_HeatPump	Electric	Stock	New	2.39	DX Tune-Up / Diagnostics	10.0%	$ 0.16	3	100.0%	10.0%	10.0%	0.239	2.06	0.02	0.21	$0.28	$0.32	F	F
SJD	Miscellaneous	Cooling_HeatPump	Electric	Stock	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	F	F
SJD	Miscellaneous	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
SJD	Miscellaneous	Cooling_HeatPump	Electric	Stock	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
SJD	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	2.12	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.49	36	33.3%	100.0%	33.3%	1.298	2.12	0.43	1.30	$0.10	$0.10	F	F
SJD	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	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
SJD	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	2.12	4' 1L T5HO, EB	13.9%	$ 0.58	36	33.3%	100.0%	33.3%	0.295	2.12	0.10	0.29	$0.16	$0.16	F	F
SJD	Miscellaneous	Lighting_2L4T12	Electric	Stock	New	2.12	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.82	26	30.0%	100.0%	30.0%	1.590	2.12	0.48	1.59	$0.22	$0.22	F	F
SJD	Miscellaneous	Lighting_2L4T8	Electric	Stock	New	1.7	4' 2L T8 Premium, EB	8.5%	$ 0.25	34	100.0%	100.0%	100.0%	0.145	1.70	0.14	0.14	$0.15	$0.15	F	F
SJD	Miscellaneous	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
SJD	Miscellaneous	Lighting_2L8T12	Electric	Stock	New	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	C	C
SJD	Miscellaneous	Lighting_2L8T12	Electric	Stock	New	2.12	8' 2L T12, 60W, EB	10.6%	$ 0.17	36	25.0%	46.2%	11.5%	0.224	2.12	0.03	0.22	$0.07	$0.07	D	D
SJD	Miscellaneous	Lighting_2L8T12	Electric	Stock	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
SJD	Miscellaneous	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
SJD	Miscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12	4' 3L T8, EB	22.6%	$ 0.03	36	25.0%	100.0%	25.0%	0.479	2.12	0.12	0.48	$0.01	$0.01	A	A
SJD	Miscellaneous	Lighting_3L4T12	Electric	Stock	New	2.12	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.19	36	25.0%	100.0%	25.0%	1.125	2.12	0.28	1.12	$0.01	$0.01	A	A
SJD	Miscellaneous	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	A	A
SJD	Miscellaneous	Lighting_3L4T8	Electric	Stock	New	1.7	4' 3L T8 Premium, EB	6.7%	$ 0.41	36	100.0%	100.0%	100.0%	0.114	1.70	0.11	0.11	$0.31	$0.31	F	F
SJD	Miscellaneous	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
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	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	A	A
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	2.12	4' 4L T8, EB	22.2%	$ 0.19	36	16.7%	100.0%	16.7%	0.471	2.12	0.08	0.47	$0.04	$0.04	B	B
SJD	Miscellaneous	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	C	C
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	New	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	C
SJD	Miscellaneous	Lighting_4L4T12	Electric	Stock	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	E	E
SJD	Miscellaneous	Lighting_4L4T12	Electric	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	F	F
SJD	Miscellaneous	Lighting_4L4T8	Electric	Stock	New	1.7	4' 4L T8 Premium, EB	3.8%	$ 0.28	36	100.0%	100.0%	100.0%	0.061	1.70	0.06	0.06	$0.40	$0.40	F	F
SJD	Miscellaneous	Lighting_INC150W	Electric	Stock	New	2.12	HPS, 50W	56.0%	$ 5.25	12	45.0%	98.0%	44.1%	1.187	2.12	0.52	1.19	$0.62	$0.62	F	F
SJD	Miscellaneous	Plug_Load	Electric	Stock	New	1	Smart Networks	6.9%	$ 0.01	4	80.0%	40.0%	36.0%	0.059	1.00	0.02	0.07	$0.03	$0.03	A	A
SJD	Miscellaneous	Plug_Load	Electric	Stock	New	1	ENERGY STAR or Better Office Equipment: Copiers	11.4%	$ 0.04	4	100.0%	33.0%	33.0%	0.114	0.98	0.04	0.11	$0.12	$0.13	F	F
SJD	Miscellaneous	Plug_Load	Electric	Stock	New	1	ENERGY STAR or Better Office Equipment: Monitors	16.5%	$ 0.07	4	100.0%	71.0%	71.0%	0.165	0.94	0.11	0.16	$0.14	$0.15	F	F
SJD	Miscellaneous	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
SJD	Miscellaneous	Plug_Load	Electric	Stock	New	1	ENERGY STAR or Better Office Equipment: Printers	9.2%	$ 0.11	4	100.0%	99.0%	99.0%	0.092	0.73	0.07	0.07	$0.38	$0.52	F	F
SJD	Miscellaneous	Space_Heat	Electric	Stock	New	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	2.78	0.07	0.14	$0.25	$0.25	F	F
SJD	Miscellaneous	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	F
SJD	Miscellaneous	Space_Heat	Electric	Stock	New	2.76	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.073	2.69	0.03	0.07	$1.92	$1.97	F	F
SJD	Miscellaneous	Water_Heat	Electric	Stock	New	1.85	Heat Pump Water Heater	30.0%	$ 3.39	15	75.0%	100.0%	75.0%	0.495	1.85	0.37	0.50	$0.84	$0.84	F	F
SJD	Miscellaneous	Water_Heat	Electric	Stock	New	1.85	Demand controlled circulating systems	5.0%	$ 5.32	15	50.0%	100.0%	50.0%	0.083	1.25	0.03	0.08	$7.94	$10.25	F	F
SJD	Restaurant	Cooling_Chillers	Electric	Stock	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
SJD	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.02	30	50.0%	100.0%	50.0%	0.242	4.47	0.12	0.24	$0.01	$0.01	A	A
SJD	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.07	15	67.0%	90.0%	60.3%	0.337	4.35	0.20	0.33	$0.02	$0.03	A	A
SJD	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.29	15	50.0%	80.0%	40.0%	0.539	4.15	0.20	0.50	$0.07	$0.07	D	D
SJD	Restaurant	Cooling_Chillers	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	3.95	0.20	0.40	$0.07	$0.07	D	D
SJD	Restaurant	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	0.18	$0.08	$0.11	E	E
SJD	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Cool Roofs (Reflective and Spray Evaporative)	4.3%	$ 0.47	10	90.0%	100.0%	90.0%	0.193	3.72	0.14	0.16	$0.39	$0.47	F	F
SJD	Restaurant	Cooling_Chillers	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	3.58	0.02	0.03	$0.59	$0.74	F	F
SJD	Restaurant	Cooling_Chillers	Electric	Stock	New	4.49	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.118	3.58	0.04	0.09	$1.18	$1.48	F	F
SJD	Restaurant	Cooling_DX	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
SJD	Restaurant	Cooling_DX	Electric	Stock	New	4.49	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	10.0%	$ 0.16	10	50.0%	100.0%	50.0%	0.449	4.38	0.22	0.44	$0.07	$0.07	D	D
SJD	Restaurant	Cooling_DX	Electric	Stock	New	4.49	DX Tune-Up / Diagnostics	10.0%	$ 0.15	3	100.0%	10.0%	10.0%	0.449	4.16	0.04	0.42	$0.14	$0.15	F	F
SJD	Restaurant	Cooling_DX	Electric	Stock	New	4.49	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.55	10	25.0%	95.0%	23.8%	0.449	4.12	0.10	0.41	$0.19	$0.21	F	F
SJD	Restaurant	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
SJD	Restaurant	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
SJD	Restaurant	Cooling_DX	Electric	Stock	New	4.49	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.118	3.93	0.05	0.10	$1.18	$1.35	F	F
SJD	Restaurant	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
SJD	Restaurant	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	D	D
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	New	4.49	DX Tune-Up / Diagnostics	10.0%	$ 0.15	3	100.0%	10.0%	10.0%	0.449	4.16	0.04	0.42	$0.14	$0.15	F	F
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	New	4.49	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.55	10	25.0%	95.0%	23.8%	0.449	4.12	0.10	0.41	$0.19	$0.21	F	F
SJD	Restaurant	Cooling_HeatPump	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
SJD	Restaurant	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
SJD	Restaurant	Cooling_HeatPump	Electric	Stock	New	4.49	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.118	3.93	0.05	0.10	$1.18	$1.35	F	F
SJD	Restaurant	Lighting_2L4T12	Electric	Stock	New	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	B	B
SJD	Restaurant	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	B	B
SJD	Restaurant	Lighting_2L4T12	Electric	Stock	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	C	C
SJD	Restaurant	Lighting_2L4T12	Electric	Stock	New	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
SJD	Restaurant	Lighting_2L4T8	Electric	Stock	New	6.99	4' 2L T8 Premium, EB	8.5%	$ 0.27	22	100.0%	100.0%	100.0%	0.594	6.99	0.59	0.59	$0.05	$0.05	C	C
SJD	Restaurant	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
SJD	Restaurant	Lighting_2L8T12	Electric	Stock	New	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	A	A
SJD	Restaurant	Lighting_2L8T12	Electric	Stock	New	8.74	8' 2L T12, 60W, EB	10.6%	$ 0.18	22	25.0%	68.1%	17.0%	0.924	8.74	0.16	0.92	$0.02	$0.02	A	A
SJD	Restaurant	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	E	E
SJD	Restaurant	Lighting_3L4T12	Electric	Stock	New	8.74	4' 1L T5HO, EB	46.1%	$ 0.04	22	25.0%	100.0%	25.0%	4.028	8.74	1.01	4.03	$0.00	$0.00	A	A
SJD	Restaurant	Lighting_3L4T12	Electric	Stock	New	8.74	4' 3L T8, EB	22.6%	$ 0.04	22	25.0%	100.0%	25.0%	1.976	8.74	0.49	1.98	$0.00	$0.00	A	A
SJD	Restaurant	Lighting_3L4T12	Electric	Stock	New	8.74	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.22	22	25.0%	100.0%	25.0%	4.636	8.74	1.16	4.64	$0.00	$0.00	A	A
SJD	Restaurant	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	A	A
SJD	Restaurant	Lighting_3L4T8	Electric	Stock	New	6.99	4' 3L T8 Premium, EB	6.7%	$ 0.43	22	100.0%	100.0%	100.0%	0.468	6.99	0.47	0.47	$0.09	$0.09	E	E
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	New	8.74	4' 3L T8, EB	38.2%	$ 0.10	22	16.7%	100.0%	16.7%	3.339	8.74	0.56	3.34	$0.02	$0.02	A	A

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Restaurant	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	0.82	3.70	$0.01	$0.01	A	A
SJD	Restaurant	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	1.94	$0.01	$0.01	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	New	8.74	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.76	22	16.7%	100.0%	16.7%	5.463	8.74	0.91	5.46	$0.01	$0.01	A	A
SJD	Restaurant	Lighting_4L4T12	Electric	Stock	New	8.74	4' 2L T5HO, EB	18.8%	$ 0.29	22	16.7%	100.0%	16.7%	1.639	8.74	0.27	1.64	$0.02	$0.02	A	A
SJD	Restaurant	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	2.18	$0.02	$0.02	A	A
SJD	Restaurant	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	0.78	6.56	$0.07	$0.07	D	D
SJD	Restaurant	Lighting_4L4T8	Electric	Stock	New	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
SJD	Restaurant	Lighting_INC150W	Electric	Stock	New	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
SJD	Restaurant	Plug_Load	Electric	Stock	New	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	Restaurant	Plug_Load	Electric	Stock	New	0.23	ENERGY STAR or Better Office Equipment: Monitors	16.3%	$ 0.02	4	100.0%	71.0%	71.0%	0.038	0.22	0.03	0.04	$0.13	$0.14	F	F
SJD	Restaurant	Plug_Load	Electric	Stock	New	0.23	ENERGY STAR or Better Office Equipment: Copiers	7.8%	$ 0.01	4	100.0%	33.0%	33.0%	0.018	0.20	0.01	0.02	$0.21	$0.24	F	F
SJD	Restaurant	Plug_Load	Electric	Stock	New	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	0.04	$0.24	$0.28	F	F
SJD	Restaurant	Plug_Load	Electric	Stock	New	0.23	ENERGY STAR or Better Office Equipment: Printers	15.0%	$ 0.04	4	100.0%	99.0%	99.0%	0.034	0.17	0.03	0.03	$0.34	$0.45	F	F
SJD	Restaurant	Refrigeration	Electric	Stock	New	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	A	A
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	Anti-Sweat (Humidistat) Controls	3.0%	$ 0.02	12	100.0%	48.0%	48.0%	0.383	7.46	0.18	0.37	$0.01	$0.01	A	A
SJD	Restaurant	Refrigeration	Electric	Stock	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
SJD	Restaurant	Refrigeration	Electric	Stock	New	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	B	B
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	Strip Curtains for Walk-Ins	4.0%	$ 0.05	4	100.0%	30.0%	30.0%	0.309	6.80	0.06	0.27	$0.05	$0.06	C	C
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	Demand Control Defrost - Hot Gas	2.5%	$ 0.07	10	100.0%	69.6%	69.6%	0.192	8.71	0.12	0.17	$0.05	$0.06	C	D
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	Refrigeration Commissioning	5.0%	$ 0.06	3	100.0%	50.0%	50.0%	0.384	8.60	0.18	0.33	$0.07	$0.08	D	E
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	Compressor VSD retrofit	5.2%	$ 0.41	10	50.0%	95.0%	47.5%	0.478	6.43	0.18	0.40	$0.14	$0.16	F	F
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	High Efficiency Case Fans	12.0%	$ 1.16	16	100.0%	95.0%	95.0%	0.918	6.24	0.71	0.75	$0.15	$0.18	F	F
SJD	Restaurant	Refrigeration	Electric	Stock	New	7.67	Reduced Speed or Cycling of Evaporator Fans	0.8%	$ 0.09	5	100.0%	80.0%	80.0%	0.042	5.53	0.02	0.03	$0.58	$0.80	F	F
SJD	Restaurant	Space_Heat	Electric	Stock	New	3.76	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.188	3.76	0.09	0.19	$0.18	$0.18	F	F
SJD	Restaurant	Space_Heat	Electric	Stock	New	3.76	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.22	20	50.0%	67.0%	33.5%	0.113	3.67	0.04	0.11	$0.21	$0.22	F	F
SJD	Restaurant	Space_Heat	Electric	Stock	New	3.76	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.099	3.63	0.04	0.10	$1.41	$1.46	F	F
SJD	Restaurant	Water_Heat	Electric	Stock	New	9.19	Heat Pump Water Heater	30.0%	$ 1.80	15	75.0%	100.0%	75.0%	2.757	9.19	2.07	2.76	$0.08	$0.08	E	E
SJD	Restaurant	Water_Heat	Electric	Stock	New	9.19	Demand controlled circulating systems	5.0%	$ 2.83	15	50.0%	100.0%	50.0%	0.460	7.12	0.18	0.36	$0.78	$0.98	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.031	3.14	0.02	0.03	$0.00	$0.00	A	A
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	High Efficiency Windows, Low-e; U=0.35	10.3%	$ 0.03	30	75.0%	100.0%	75.0%	0.324	3.12	0.24	0.32	$0.01	$0.01	A	A
SJD	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
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.38	15	50.0%	80.0%	40.0%	0.377	2.75	0.13	0.33	$0.12	$0.14	F	F
SJD	Retail	Cooling_Chillers	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	2.52	0.13	0.28	$0.12	$0.15	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.17	10	33.0%	50.0%	16.5%	0.157	2.49	0.02	0.12	$0.17	$0.21	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Cool Roofs (Reflective and Spray Evaporative)	6.9%	$ 0.47	10	90.0%	100.0%	90.0%	0.217	2.47	0.15	0.17	$0.34	$0.44	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	2.31	0.01	0.02	$0.89	$1.20	F	F
SJD	Retail	Cooling_Chillers	Electric	Stock	New	3.14	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.083	2.30	0.03	0.06	$1.68	$2.29	F	F
SJD	Retail	Cooling_DX	Electric	Stock	New	3.14	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.08	30	75.0%	100.0%	75.0%	0.157	3.14	0.12	0.16	$0.05	$0.05	B	B
SJD	Retail	Cooling_DX	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
SJD	Retail	Cooling_DX	Electric	Stock	New	3.14	DX Tune-Up / Diagnostics	10.0%	$ 0.20	3	100.0%	10.0%	10.0%	0.314	2.87	0.03	0.29	$0.28	$0.29	F	F
SJD	Retail	Cooling_DX	Electric	Stock	New	3.14	Cool Roofs (Reflective and Spray Evaporative)	6.9%	$ 0.47	10	50.0%	100.0%	50.0%	0.217	2.84	0.10	0.20	$0.34	$0.38	F	F
SJD	Retail	Cooling_DX	Electric	Stock	New	3.14	Installation of Direct or Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.73	10	25.0%	95.0%	23.8%	0.314	2.74	0.07	0.27	$0.37	$0.42	F	F
SJD	Retail	Cooling_DX	Electric	Stock	New	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	2.68	0.01	0.02	$0.89	$1.04	F	F
SJD	Retail	Cooling_DX	Electric	Stock	New	3.14	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.083	2.67	0.03	0.07	$1.68	$1.98	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.08	30	75.0%	100.0%	75.0%	0.157	3.14	0.12	0.16	$0.05	$0.05	B	B
SJD	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
SJD	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	DX Tune-Up / Diagnostics	10.0%	$ 0.20	3	100.0%	10.0%	10.0%	0.314	2.87	0.03	0.29	$0.28	$0.29	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Cool Roofs (Reflective and Spray Evaporative)	6.9%	$ 0.47	10	50.0%	100.0%	50.0%	0.217	2.84	0.10	0.20	$0.34	$0.38	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Installation of Direct or Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.73	10	25.0%	95.0%	23.8%	0.314	2.74	0.07	0.27	$0.37	$0.42	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Ceiling R-19 to R-38 Insulation	0.9%	$ 0.24	20	50.0%	100.0%	50.0%	0.028	2.68	0.01	0.02	$0.89	$1.04	F	F
SJD	Retail	Cooling_HeatPump	Electric	Stock	New	3.14	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.083	2.67	0.03	0.07	$1.68	$1.98	F	F
SJD	Retail	Lighting_2L4T12	Electric	Stock	New	5.89	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.90	25	33.3%	100.0%	33.3%	3.599	5.89	1.20	3.60	$0.05	$0.05	C	C
SJD	Retail	Lighting_2L4T12	Electric	Stock	New	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	C	C
SJD	Retail	Lighting_2L4T12	Electric	Stock	New	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	E
SJD	Retail	Lighting_2L4T12	Electric	Stock	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
SJD	Retail	Lighting_2L4T8	Electric	Stock	New	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
SJD	Retail	Lighting_2L8T12	Electric	Stock	New	5.89	8' 2L T8, EB	52.6%	$ 0.44	25	50.0%	100.0%	50.0%	3.110	5.89	1.55	3.11	$0.01	$0.01	A	A
SJD	Retail	Lighting_2L8T12	Electric	Stock	New	5.89	8' 1L T12, 60W, EB, reflector	55.3%	$ 0.98	25	25.0%	100.0%	25.0%	3.257	5.89	0.81	3.26	$0.03	$0.03	A	A
SJD	Retail	Lighting_2L8T12	Electric	Stock	New	5.89	8' 2L T12, 60W, EB	10.6%	$ 0.21	25	25.0%	95.4%	23.9%	0.623	5.89	0.15	0.62	$0.03	$0.03	B	B
SJD	Retail	Lighting_2L8T12	Electric	Stock	New	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	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	A	A
SJD	Retail	Lighting_3L4T12	Electric	Stock	New	5.89	4' 3L T8, EB	22.6%	$ 0.11	25	25.0%	100.0%	25.0%	1.332	5.89	0.33	1.33	$0.01	$0.01	A	A
SJD	Retail	Lighting_3L4T12	Electric	Stock	New	5.89	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.76	25	25.0%	100.0%	25.0%	3.124	5.89	0.78	3.12	$0.02	$0.02	A	A
SJD	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	A	A
SJD	Retail	Lighting_3L4T8	Electric	Stock	New	4.71	4' 3L T8 Premium, EB	8.7%	$ 0.49	25	100.0%	100.0%	100.0%	0.316	4.71	0.32	0.32	$0.15	$0.15	F	F
SJD	Retail	Lighting_4L4T12	Electric	Stock	New	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	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
SJD	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	4' 4L T8, EB	22.2%	$ 0.23	25	16.7%	100.0%	16.7%	1.309	5.89	0.22	1.31	$0.02	$0.02	A	A
SJD	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.83	25	16.7%	100.0%	16.7%	3.681	5.89	0.61	3.68	$0.02	$0.02	A	A
SJD	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	A	A
SJD	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	4' 4L T8 Premium, EB	25.0%	$ 0.55	25	16.7%	100.0%	16.7%	1.473	5.89	0.25	1.47	$0.04	$0.04	B	B
SJD	Retail	Lighting_4L4T12	Electric	Stock	New	5.89	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 4.37	18	50.0%	100.0%	50.0%	4.418	5.89	2.21	4.42	$0.11	$0.11	F	F
SJD	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
SJD	Retail	Lighting_INC150W	Electric	Stock	New	5.89	HPS, 50W	56.0%	$ 5.13	8	45.0%	91.8%	41.2%	3.296	5.89	1.36	3.30	$0.29	$0.29	F	F
SJD	Retail	Plug_Load	Electric	Stock	New	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	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
SJD	Retail	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Copiers	9.8%	$ 0.01	4	100.0%	33.0%	33.0%	0.014	0.13	0.00	0.01	$0.12	$0.13	F	F
SJD	Retail	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Computer	17.2%	$ 0.01	4	100.0%	65.0%	65.0%	0.026	0.13	0.01	0.02	$0.18	$0.22	F	F
SJD	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
SJD	Retail	Space_Heat	Electric	Stock	New	4.59	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.230	4.59	0.11	0.23	$0.15	$0.15	F	F
SJD	Retail	Space_Heat	Electric	Stock	New	4.59	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.24	20	50.0%	55.7%	27.5%	0.138	4.48	0.04	0.13	$0.18	$0.19	F	F
SJD	Retail	Space_Heat	Electric	Stock	New	4.59	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.121	4.44	0.05	0.12	$1.15	$1.19	F	F
SJD	Retail	Water_Heat	Electric	Stock	New	1.01	Heat Pump Water Heater	30.0%	$ 2.49	15	75.0%	100.0%	75.0%	0.303	1.01	0.23	0.30	$1.01	$1.01	F	F
SJD	Retail	Water_Heat	Electric	Stock	New	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	$12.26	F	F
SJD	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
SJD	School	Cooling_Chillers	Electric	Stock	New	1.51	High Efficiency Windows, Low-e; U=0.35	3.9%	$ 0.02	30	75.0%	66.0%	49.5%	0.059	1.50	0.03	0.06	$0.03	$0.03	A	A
SJD	School	Cooling_Chillers	Electric	Stock	New	1.51	Decrease Cooling Tower Approach Temperature, 300 Tons, 6 Deg F	7.5%	$ 0.02	15	67.0%	90.0%	60.3%	0.113	1.47	0.07	0.11	$0.09	$0.09	E	E
SJD	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
SJD	School	Cooling_Chillers	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	1.34	0.07	0.13	$0.23	$0.26	F	F
SJD	School	Cooling_Chillers	Electric	Stock	New	1.51	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.15	10	33.0%	50.0%	16.5%	0.076	1.27	0.01	0.06	$0.31	$0.37	F	F
SJD	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
SJD	School	Cooling_Chillers	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	1.19	0.00	0.01	$1.83	$2.31	F	F
SJD	School	Cooling_Chillers	Electric	Stock	New	1.51	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.040	1.19	0.01	0.03	$3.50	$4.44	F	F
SJD	School	Cooling_DX	Electric	Stock	New	1.51	High Efficiency Windows, Low-e; U=0.35	5.0%	$ 0.04	30	75.0%	66.0%	49.5%	0.078	1.51	0.04	0.08	$0.05	$0.05	C	C
SJD	School	Cooling_DX	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	0.13	$0.23	$0.24	F	F
SJD	School	Cooling_DX	Electric	Stock	New	1.51	Cool Roofs (Reflective and Spray Evaporative)	6.1%	$ 0.24	10	50.0%	100.0%	50.0%	0.093	1.40	0.04	[illegible]	[illegible]	[illegible]	F	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	School	Cooling_DX	Electric	Stock	New	1.51	DX Tune-Up / Diagnostics	10.0%	$ 0.16	3	100.0%	10.0%	10.0%	0.151	1.36	0.01	0.14	$0.49	$0.55	F	F
SJD	School	Cooling_DX	Electric	Stock	New	1.51	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.65	10	25.0%	95.0%	23.8%	0.151	1.34	0.03	0.13	$0.69	$0.77	F	F
SJD	School	Cooling_DX	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
SJD	School	Cooling_DX	Electric	Stock	New	1.51	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.040	1.31	0.02	0.03	$3.50	$4.04	F	F
SJD	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
SJD	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	F
SJD	School	Cooling_HeatPump	Electric	Stock	New	1.51	Cool Roofs (Reflective and Spray Evaporative)	6.1%	$ 0.24	10	50.0%	100.0%	50.0%	0.093	1.40	0.04	0.09	$0.40	$0.43	F	F
SJD	School	Cooling_HeatPump	Electric	Stock	New	1.51	DX Tune-Up / Diagnostics	10.0%	$ 0.16	3	100.0%	10.0%	10.0%	0.151	1.36	0.01	0.14	$0.49	$0.55	F	F
SJD	School	Cooling_HeatPump	Electric	Stock	New	1.51	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.65	10	25.0%	95.0%	23.8%	0.151	1.34	0.03	0.13	$0.69	$0.77	F	F
SJD	School	Cooling_HeatPump	Electric	Stock	New	1.51	Ceiling R-19 to R-38 Insulation	0.8%	$ 0.23	20	50.0%	23.4%	11.7%	0.014	1.31	0.00	0.01	$1.83	$2.10	F	F
SJD	School	Cooling_HeatPump	Electric	Stock	New	1.51	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.040	1.31	0.02	0.03	$3.50	$4.04	F	F
SJD	School	Lighting_2L4T12	Electric	Stock	New	2.68	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.40	34	33.3%	100.0%	33.3%	1.638	2.68	0.55	1.64	$0.08	$0.08	E	E
SJD	School	Lighting_2L4T12	Electric	Stock	New	2.68	4' 2L T8 Premium, EB	25.0%	$ 0.69	34	33.3%	100.0%	33.3%	0.570	2.68	0.22	0.67	$0.09	$0.09	E	E
SJD	School	Lighting_2L4T12	Electric	Stock	New	2.68	4' 1L T5HO, EB	13.9%	$ 0.52	34	33.3%	100.0%	33.3%	0.373	2.68	0.12	0.37	$0.12	$0.12	F	F
SJD	School	Lighting_2L4T12	Electric	Stock	New	2.68	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 3.38	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
SJD	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
SJD	School	Lighting_2L8T12	Electric	Stock	New	2.68	8' 2L T8, EB	52.8%	$ 0.36	34	50.0%	100.0%	50.0%	1.415	2.68	0.71	1.42	$0.02	$0.02	A	A
SJD	School	Lighting_2L8T12	Electric	Stock	New	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	C	C
SJD	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	C
SJD	School	Lighting_2L8T12	Electric	Stock	New	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
SJD	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 1L T5HO, EB	46.1%	$ 0.04	34	25.0%	100.0%	25.0%	1.235	2.68	0.31	1.24	$0.00	$0.00	A	A
SJD	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 3L T8, EB	22.6%	$ 0.04	34	25.0%	100.0%	25.0%	0.606	2.68	0.15	0.61	$0.01	$0.01	A	A
SJD	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.23	34	25.0%	100.0%	25.0%	1.422	2.68	0.36	1.42	$0.01	$0.01	A	A
SJD	School	Lighting_3L4T12	Electric	Stock	New	2.68	4' 3L T8 Premium, EB	22.6%	$ 0.10	34	25.0%	100.0%	25.0%	0.606	2.68	0.15	0.61	$0.02	$0.02	A	A
SJD	School	Lighting_3L4T8	Electric	Stock	New	2.14	4' 3L T8 Premium, EB	6.7%	$ 0.38	34	100.0%	100.0%	100.0%	0.143	2.14	0.14	0.14	$0.23	$0.23	F	F
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 3L T8, EB	38.2%	$ 0.09	34	16.7%	100.0%	16.7%	1.024	2.68	0.17	1.02	$0.01	$0.01	A	A
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 3L T8 Premium, EB	42.4%	$ 0.28	34	16.7%	100.0%	16.7%	1.135	2.68	0.19	1.14	$0.02	$0.02	A	A
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 4L T8, EB	22.2%	$ 0.18	34	16.7%	100.0%	16.7%	0.598	2.68	0.10	0.60	$0.03	$0.03	A	A
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.66	34	16.7%	100.0%	16.7%	1.675	2.68	0.28	1.58	$0.04	$0.04	B	B
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68	4' 2L T5HO, EB	18.8%	$ 0.26	34	16.7%	100.0%	16.7%	0.503	2.68	0.08	0.50	$0.05	$0.05	C	C
SJD	School	Lighting_4L4T12	Electric	Stock	New	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	C	C
SJD	School	Lighting_4L4T12	Electric	Stock	New	2.68	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.52	24	30.0%	100.0%	30.0%	2.010	2.68	0.60	2.01	$0.17	$0.17	F	F
SJD	School	Lighting_4L4T8	Electric	Stock	New	2.14	4' 4L T8 Premium, EB	3.6%	$ 0.27	34	100.0%	100.0%	100.0%	0.077	2.14	0.08	0.08	$0.31	$0.31	F	F
SJD	School	Lighting_INC150W	Electric	Stock	New	2.68	HPS, 50W	58.0%	$ 2.09	12	45.0%	85.5%	38.5%	1.501	2.68	0.58	1.50	$0.20	$0.20	F	F
SJD	School	Plug_Load	Electric	Stock	New	0.11	Smart Networks	7.2%	$ 0.00	4	90.0%	40.0%	36.0%	0.008	0.11	0.00	0.01	$0.19	$0.19	F	F
SJD	School	Plug_Load	Electric	Stock	New	0.11	ENERGY STAR or Better Office Equipment: Copiers	9.0%	$ 0.01	4	100.0%	33.0%	33.0%	0.010	0.11	0.00	0.01	$0.48	$0.49	F	F
SJD	School	Plug_Load	Electric	Stock	New	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	$0.99	$1.05	F	F
SJD	School	Plug_Load	Electric	Stock	New	0.11	ENERGY STAR or Better Office Equipment: Printers	11.2%	$ 0.08	4	100.0%	99.0%	99.0%	0.012	0.09	0.01	0.01	$1.89	$2.04	F	F
SJD	School	Plug_Load	Electric	Stock	New	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	$2.40	F	F
SJD	School	Space_Heat	Electric	Stock	New	2.77	Installation of Automated Building Ventilation Control (Via Occupancy Sensors, CO2 Sensors, Etc.)	5.0%	$ 0.28	15	50.0%	100.0%	50.0%	0.139	2.77	0.07	0.14	$0.25	$0.25	F	F
SJD	School	Space_Heat	Electric	Stock	New	2.77	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.23	20	50.0%	44.9%	22.5%	0.083	2.70	0.02	0.08	$0.30	$0.31	F	F
SJD	School	Space_Heat	Electric	Stock	New	2.77	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.073	2.58	0.03	0.07	$1.91	$1.97	F	F
SJD	School	Water_Heat	Electric	Stock	New	0.9	Heat Pump Water Heater	30.0%	$ 2.53	15	75.0%	87.2%	65.4%	0.270	0.90	0.18	0.27	$1.15	$1.15	F	F
SJD	School	Water_Heat	Electric	Stock	New	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	$10.66	$13.52	F	F
SJD	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	EMS Optimization	1.0%	$ -	5	100.0%	50.0%	50.0%	0.042	4.19	0.02	0.04	$0.00	$0.00	A	A
SJD	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	High Efficiency Windows, Low-e; U=0.35	8.3%	$ 0.08	30	75.0%	99.4%	74.6%	0.388	4.17	0.29	0.39	$0.01	$0.01	A	A
SJD	Small_Office	Cooling_Chillers	Electric	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	B	B
SJD	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.45	15	50.0%	80.0%	40.0%	0.503	3.71	0.18	0.44	$0.11	$0.12	F	F
SJD	Small_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	F
SJD	Small_Office	Cooling_Chillers	Electric	Stock	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
SJD	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	Ceiling R-19 to R-38 Insulation	0.8%	$ 0.16	20	50.0%	8.7%	4.4%	0.038	3.32	0.00	0.03	$0.46	$0.58	F	F
SJD	Small_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
SJD	Small_Office	Cooling_Chillers	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.27	0.04	0.09	$1.26	$1.52	F	F
SJD	Small_Office	Cooling_DX	Electric	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	D
SJD	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
SJD	Small_Office	Cooling_DX	Electric	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
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%	$ 0.87	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.36	F	F
SJD	Small_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
SJD	Small_Office	Cooling_DX	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.07	$0.49	$0.56	F	F
SJD	Small_Office	Cooling_DX	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
SJD	Small_Office	Cooling_HeatPump	Electric	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	D
SJD	Small_Office	Cooling_HeatPump	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
SJD	Small_Office	Cooling_HeatPump	Electric	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	$0.28	F	F
SJD	Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Installation of Direct of Indirect Evaporative Cooling, Evaporative Pre-Cooling, and Absorption Cooling	10.0%	$ 0.87	10	25.0%	95.0%	23.8%	0.419	3.79	0.09	0.38	$0.33	$0.36	F	F
SJD	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
SJD	Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Cool Roofs (Reflective and Spray Evaporative)	1.8%	$ 0.24	10	50.0%	100.0%	50.0%	0.076	3.70	0.03	0.07	$0.49	$0.56	F	F
SJD	Small_Office	Cooling_HeatPump	Electric	Stock	New	4.19	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.8%	$ 1.31	20	50.0%	90.0%	45.0%	0.110	3.67	0.04	0.10	$1.26	$1.44	F	F
SJD	Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29	4' 1L T8 Premium, EB, reflector	61.1%	$ 1.58	18	33.3%	100.0%	33.3%	3.233	5.29	1.08	3.23	$0.06	$0.06	C	C
SJD	Small_Office	Lighting_2L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB	25.0%	$ 0.77	18	33.3%	100.0%	33.3%	1.323	5.29	0.44	1.32	$0.07	$0.07	D	D
SJD	Small_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
SJD	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
SJD	Small_Office	Lighting_2L4T8	Electric	Stock	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	Small_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	A	A
SJD	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	B	B
SJD	Small_Office	Lighting_2L8T12	Electric	Stock	New	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	B	B
SJD	Small_Office	Lighting_2L8T12	Electric	Stock	New	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
SJD	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	A
SJD	Small_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	22.6%	$ 0.05	16	25.0%	100.0%	25.0%	1.198	5.29	0.30	1.20	$0.00	$0.00	A	A
SJD	Small_Office	Lighting_3L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.28	16	25.0%	100.0%	25.0%	2.808	5.29	0.70	2.81	$0.01	$0.01	A	A
SJD	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%	1.198	5.29	0.30	1.20	$0.01	$0.01	A	A
SJD	Small_Office	Lighting_3L4T8	Electric	Stock	New	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	$0.18	$0.18	F	F
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 3L T8, EB	38.2%	$ 0.10	16	16.7%	100.0%	16.7%	2.021	5.29	0.34	2.02	$0.01	$0.01	A	A
SJD	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	A	A
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	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	A	A
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.74	16	16.7%	100.0%	16.7%	3.306	5.29	0.55	3.31	$0.03	$0.03	A	A
SJD	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	B	B
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	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	B	B
SJD	Small_Office	Lighting_4L4T12	Electric	Stock	New	5.29	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 3.83	11	40.0%	100.0%	40.0%	3.968	5.29	1.59	3.97	$0.15	$0.15	F	F
SJD	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
SJD	Small_Office	Lighting_INC150W	Electric	Stock	New	5.29	HPS, 50W	56.0%	$ 4.80	6	45.0%	93.9%	42.2%	2.982	5.29	1.25	2.96	$0.38	$0.38	F	F
SJD	Small_Office	Plug_Load	Electric	Stock	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	Small_Office	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	E	E
SJD	Small_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Copiers	4.8%	$ 0.03	4	100.0%	33.0%	33.0%	0.077	1.30	0.02	0.06	$0.14	$0.18	F	F
SJD	Small_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Computer	24.7%	$ 0.18	4	100.0%	65.0%	65.0%	0.393	1.28	0.21	0.32	$0.15	$0.19	F	F
SJD	Small_Office	Plug_Load	Electric	Stock	New	1.59	ENERGY STAR or Better Office Equipment: Printers	8.0%	$ 0.10	4	100.0%	99.0%	99.0%	0.127	1.07	0.09	0.08	$0.26	$0.39	F	F
SJD	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	[illegible]	[illegible]	[illegible]	[illegible]	E

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJO	Small_Office	Space_Heat	Electric	Stock	New	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%	0.308	6.17	0.15	0.31	$0.11	$0.11	F	F
SJO	Small_Office	Space_Heat	Electric	Stock	New	6.18	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.163	6.01	0.07	0.16	$0.86	$0.88	F	F
SJO	Small_Office	Water_Heat	Electric	Stock	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
SJO	Small_Office	Water_Heat	Electric	Stock	New	0.95	Demand controlled circulating systems	5.0%	$ 0.91	15	50.0%	93.2%	46.6%	0.048	0.74	0.02	0.04	$2.35	$3.03	F	F
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	EMS Optimization	1.0%	$ -	3	100.0%	50.0%	50.0%	0.017	1.66	0.01	0.02	$0.00	$0.00	A	A
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	High Efficiency Windows, Low-e; U=0.35	5.4%	$ 0.01	30	75.0%	100.0%	75.0%	0.090	1.65	0.07	0.09	$0.01	$0.01	A	A
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Decrease Cooling Tower Approach Temperature, 300 Tons, 8 Deg F	7.5%	$ 0.03	15	87.0%	90.0%	80.3%	0.125	1.58	0.07	0.12	$0.03	$0.03	B	B
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Primary/Secondary De-coupled Chilled Water System	12.0%	$ 0.14	15	50.0%	80.0%	40.0%	0.199	1.51	0.07	0.18	$0.08	$0.09	E	E
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	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	1.44	0.07	0.14	$0.06	$0.10	E	E
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Optimize Chilled Water and Condenser Water Settings	5.0%	$ 0.06	10	33.0%	50.0%	16.5%	0.083	1.37	0.01	0.07	$0.11	$0.14	F	F
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Cool Roofs (Reflective and Spray Evaporative)	4.3%	$ 0.47	10	90.0%	100.0%	90.0%	0.071	1.36	0.05	0.06	$1.05	$1.28	F	F
SJO	Warehouse	Cooling_Chillers	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	1.30	0.00	0.01	$1.61	$2.05	F	F
SJO	Warehouse	Cooling_Chillers	Electric	Stock	New	1.66	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.044	1.30	0.02	0.03	$3.18	$4.06	F	F
SJO	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	1.68	0.06	0.08	$0.03	$0.03	B	B
SJO	Warehouse	Cooling_DX	Electric	Stock	New	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	1.60	0.08	0.16	$0.08	$0.09	E	E
SJO	Warehouse	Cooling_DX	Electric	Stock	New	1.66	DX Tune-Up / Diagnostics	10.0%	$ 0.07	3	100.0%	10.0%	10.0%	0.166	1.52	0.02	0.15	$0.18	$0.19	F	F
SJO	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%	85.0%	23.8%	0.166	1.50	0.04	0.15	$0.25	$0.28	F	F
SJO	Warehouse	Cooling_DX	Electric	Stock	New	1.66	Cool Roofs (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	F
SJO	Warehouse	Cooling_DX	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	$1.85	F	F
SJO	Warehouse	Cooling_DX	Electric	Stock	New	1.66	Wall 2x4 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
SJO	Warehouse	Cooling_HeatPump	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	B	B
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	New	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	1.60	0.08	0.16	$0.08	$0.09	E	E
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66	DX Tune-Up / Diagnostics	10.0%	$ 0.07	3	100.0%	10.0%	10.0%	0.166	1.52	0.02	0.15	$0.18	$0.19	F	F
SJO	Warehouse	Cooling_HeatPump	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%	85.0%	23.8%	0.166	1.50	0.04	0.15	$0.25	$0.28	F	F
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66	Cool Roofs (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	F
SJO	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
SJO	Warehouse	Cooling_HeatPump	Electric	Stock	New	1.66	Wall 2x4 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
SJO	Warehouse	Lighting_2L4T12	Electric	Stock	New	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	C	C
SJO	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	C	C
SJO	Warehouse	Lighting_2L4T12	Electric	Stock	New	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
SJO	Warehouse	Lighting_2L4T12	Electric	Stock	New	2.94	Continuous Dimming, 10-4' Fluorescent Fixtures	75.0%	$ 1.83	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.10	$0.10	F	F
SJO	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	0.20	$0.07	$0.07	D	D
SJO	Warehouse	Lighting_2L8T12	Electric	Stock	New	2.94	8' 2L T8, EB	52.8%	$ 0.21	22	50.0%	100.0%	50.0%	1.552	2.94	0.76	1.55	$0.01	$0.01	A	A
SJO	Warehouse	Lighting_2L8T12	Electric	Stock	New	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	A	A
SJO	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	B	B
SJO	Warehouse	Lighting_2L8T12	Electric	Stock	New	2.94	Continuous Dimming, 5-8' Fluorescent Fixtures	75.0%	$ 2.39	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.13	$0.13	F	F
SJO	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 1L T5HO, EB	46.1%	$ 0.01	22	25.0%	100.0%	25.0%	1.355	2.94	0.34	1.35	$0.00	$0.00	A	A
SJO	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 3L T8, EB	22.6%	$ 0.01	22	25.0%	100.0%	25.0%	0.665	2.94	0.17	0.66	$0.00	$0.00	A	A
SJO	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 2L T8 Premium, EB, reflector	53.0%	$ 0.04	22	25.0%	100.0%	25.0%	1.559	2.94	0.39	1.56	$0.00	$0.00	A	A
SJO	Warehouse	Lighting_3L4T12	Electric	Stock	New	2.94	4' 3L T8 Premium, EB	22.6%	$ 0.02	22	25.0%	100.0%	25.0%	0.665	2.94	0.17	0.66	$0.00	$0.00	A	A
SJO	Warehouse	Lighting_3L4T8	Electric	Stock	New	2.36	4' 3L T8 Premium, EB	6.7%	$ 0.22	22	100.0%	100.0%	100.0%	0.158	2.36	0.15	0.16	$0.14	$0.14	F	F
SJO	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	4' 3L T8, EB	38.2%	$ 0.05	22	16.7%	100.0%	16.7%	1.123	2.94	0.19	1.12	$0.00	$0.00	A	A
SJO	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	4' 3L T8 Premium, EB	42.4%	$ 0.18	22	16.7%	100.0%	16.7%	1.245	2.94	0.21	1.25	$0.01	$0.01	A	A
SJO	Warehouse	Lighting_4L4T12	Electric	Stock	New	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	A	A
SJO	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	4' 2L T8 Premium, EB, reflector	62.5%	$ 0.37	22	16.7%	100.0%	16.7%	1.838	2.94	0.31	1.84	$0.02	$0.02	A	A
SJO	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	A
SJO	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	4' 4L T8 Premium, EB	25.0%	$ 0.25	22	16.7%	100.0%	16.7%	0.735	2.94	0.12	0.74	$0.03	$0.03	B	B
SJO	Warehouse	Lighting_4L4T12	Electric	Stock	New	2.94	Continuous Dimming, 5-4' Fluorescent Fixtures	75.0%	$ 1.95	16	40.0%	100.0%	40.0%	2.205	2.94	0.88	2.21	$0.11	$0.11	F	F
SJO	Warehouse	Lighting_4L4T8	Electric	Stock	New	2.36	4' 4L T8 Premium, EB	3.5%	$ 0.15	22	100.0%	100.0%	100.0%	0.085	2.36	0.08	0.08	$0.18	$0.18	F	F
SJO	Warehouse	Lighting_INC150W	Electric	Stock	New	2.94	HPS, 50W	58.0%	$ 2.69	7	45.0%	80.2%	40.6%	1.646	2.94	0.87	1.65	$0.34	$0.34	F	F
SJO	Warehouse	Plug_Load	Electric	Stock	New	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
SJO	Warehouse	Plug_Load	Electric	Stock	New	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
SJO	Warehouse	Plug_Load	Electric	Stock	New	0.15	ENERGY 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	$0.66	$0.78	F	F
SJO	Warehouse	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Computer	21.0%	$ 0.10	4	100.0%	65.0%	65.0%	0.031	0.12	0.02	0.03	$1.02	$1.24	F	F
SJO	Warehouse	Plug_Load	Electric	Stock	New	0.15	ENERGY STAR or Better Office Equipment: Printers	11.4%	$ 0.06	4	100.0%	99.0%	99.0%	0.017	0.11	0.01	0.01	$1.20	$1.69	F	F
SJO	Warehouse	Space_Heat	Electric	Stock	New	4.02	Installation 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
SJO	Warehouse	Space_Heat	Electric	Stock	New	4.02	Ceiling R-19 to R-38 Insulation	3.0%	$ 0.23	20	50.0%	33.7%	16.8%	0.121	3.92	0.02	0.12	$0.20	$0.20	F	F
SJO	Warehouse	Space_Heat	Electric	Stock	New	4.02	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 1.31	20	50.0%	90.0%	45.0%	0.106	3.90	0.05	0.10	$1.31	$1.36	F	F
SJO	Warehouse	Water_Heat	Electric	Stock	New	0.42	Heat Pump 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
SJO	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
MPS	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%	68.65094	1144.1924	49.0772	68.6509424	$0.21	$0.21	F	F
MPS	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Ceiling R-0 to R-19 Insulation	14.2%	$ 447.20	30	67.0%	59.8%	40.1%	162.4739	1095.1052	62.9348	155.504937	$0.25	$0.27	F	F
MPS	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Floor R-0 to R-11 Insulation-Batts	5.5%	$ 240.84	30	67.0%	59.9%	40.1%	62.70118	1032.7704	22.71189	56.595816	$0.35	$0.39	F	F
MPS	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%	308.6409	1010.0515	193.011	270.683791	$0.41	$0.47	F	F
MPS	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Duct Insulation (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 AC	Electric	Stock	Existing	1144.18	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	164.7623	805.93105	20.8897	116.054031	$0.53	$0.89	F	F
MPS	Multi Family	Central AC	Electric	Stock	Existing	1144.18	PTCS Duct Sealing &O&M	6.0%	$ 630.00	20	50.0%	36.0%	18.0%	88.65094	785.04132	6.47845	47.1024791	$0.98	$1.43	F	F
MPS	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%	25.17201	776.56287	3.37307	17.0843632	$1.64	$2.41	F	F
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Wall 2x4 R-0 to Blow-In R-13 Insulation	23.1%	$ 435.00	30	50.0%	59.9%	30.0%	1712.511	7413.4692	513.017	1712.51139	$0.02	$0.02	A	A
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 100.00	12	80.0%	89.4%	71.5%	444.8082	6900.4522	295.98	414.027132	$0.03	$0.03	B	B
MPS	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%	1052.713	6604.4725	375.935	937.835093	$0.04	$0.04	B	B
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Floor R-0 to R-11 Insulation-Batts	5.5%	$ 240.84	30	67.0%	59.9%	40.1%	406.2581	6228.5373	137.016	341.323842	$0.05	$0.07	C	D
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	High Efficiency Windows, Low-e; U=0.35	26.8%	$ 1,370.00	30	75.0%	95.1%	71.3%	1988.81	6091.5217	1164.03	1632.52783	$0.06	$0.08	D	E
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Duct Insulation (R-3 to R-8)	6.8%	$ 376.00	30	50.0%	40.0%	20.0%	504.1159	4927.4886	66.9971	335.069224	$0.07	$0.10	D	F
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	$ 3,845.00	18	10.0%	100.0%	10.0%	4301.628	4860.4915	282.027	2820.27434	$0.10	$0.15	E	F
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	1067.54	4578.4841	118.674	859.298825	$0.10	$0.16	E	F
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5%	$ 3,220.00	18	90.0%	100.0%	90.0%	3591.826	4459.7903	1944.69	2160.76839	$0.10	$0.17	F	F
MPS	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	2515.0987	27.1631	150.905923	$0.15	$0.45	F	F
MPS	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	33.0%	59.8%	19.7%	163.0963	2487.9357	10.6066	54.7345845	$0.25	$0.75	F	F
MPS	Multi Family	Freezer	Electric	Stock	Existing	931.158	Removal of Secondary Freezer (or rep of Ineff unit)	110.0%	$ 200.00	7	15.0%	100.0%	15.0%	694.2742	631.15833	104.141	694.274158	$0.06	$0.06	C	C
MPS	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	4929.147	341.1	1138.63295	$0.04	$0.04	B	B
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Ceiling 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	C	D
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 150.00	12	80.0%	89.4%	71.5%	295.7488	4326.6891	185.592	259.613344	$0.07	$0.08	D	E
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	PTCS Duct Sealing &O&M	17.3%	$ 630.00	20	50.0%	34.0%	18.0%	851.2634	4141.2867	128.736	715.201712	$0.08	$0.09	E	E
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	88.2584	219.868308	$0.08	$0.10	E	F
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	High Efficiency Windows, Low-e; U=0.35	26.8%	$ 1,370.00	30	75.0%	95.1%	71.3%	1321.011	3924.292	749.898	1051.71025	$0.10	$0.12	E	F
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Duct Insulation (R-3 to R-8)	6.8%	$ 376.00	30	50.0%	40.0%	20.0%	335.182	3174.3963	43.161	215.658947	$0.10	$0.16	F	F
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	709.7972	3131.2353	81.1818	450.88788	$0.15	$0.23	F	F
MPS	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	33.0%	59.8%	19.7%	108.4412	3050.0737	13.2483	67.1016205	$0.38	$0.61	F	F
MPS	Multi Family	Lighting Bulbs	Electric	Stock	Existing	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	A
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%	427.2762	1088	368.282	427.276155	$0.02	$0.02	A	A
MPS	Multi Family	Lighting Bulbs	Electric	Stock	Existing	1088	CFL, 0.5 hr/day	4.4%	$ 4.50	7	100.0%	96.5%	96.5%	48.06052	1088	46.3987	48.0805186	$0.10	$0.10	F	F
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	368.282	427.276155	$0.04	$0.04	B	B
MPS	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%	48.06052	1088	46.3987	48.0805186	$0.21	$0.21	F	F
MPS	Multi Family	Plug Load	Electric	Stock	Existing	2000	Powerstrip with Occupancy Sensor	1.8%	$ 90.00	20	100.0%	100.0%	100.0%	35.87971	2000	35.6737	35.673[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost 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%	898.8981	817.18103	134.835	898.899133	$0.05	$0.05	C	C
MPS	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Ceiling R-0 to R-19 Insulation	14.2%	$ 447.20	30	67.0%	59.8%	40.1%	1087.402	7657.7612	435.89	1087.40209	$0.04	$0.04	B	B
MPS	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Floor R-0 to R-11 Insulation-Batts	5.5%	$ 240.84	30	67.0%	59.8%	40.1%	415.6453	7221.6714	158.867	395.758554	$0.05	$0.06	C	C
MPS	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	High Efficiency Windows, Low-e; U=0.35	28.9%	$ 1,370.00	30	75.0%	95.1%	71.3%	2052.28	7063.0045	1349.67	1892.88521	$0.06	$0.07	D	D
MPS	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Duct Insulation (R-3 to R-8)	8.8%	$ 376.00	30	50.0%	40.0%	20.0%	520.7278	5713.33	77.6819	388.506443	$0.07	$0.09	D	E
MPS	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	1102.718	5635.6482	146.076	811.533338	$0.09	$0.13	E	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	33.0%	59.8%	19.7%	168.4707	5488.5722	23.8444	120.770588	$0.24	$0.34	F	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Water Heater Tank Blanket/Insulation	10.0%	$ 17.00	15	90.0%	53.1%	47.8%	316.6281	3166.281	151.322	316.628101	$0.01	$0.01	A	A
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Faucet Aerators	1.9%	$ 4.82	15	90.0%	73.4%	66.1%	61.42585	3014.9587	38.6366	58.4901995	$0.01	$0.01	A	A
MPS	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	2876.3201	53.0121	126.65192	$0.01	$0.01	A	A
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Hot Water Pipe Insulation	1.2%	$ 5.80	15	75.0%	62.6%	46.9%	39.21009	2923.3081	16.9866	36.2012044	$0.02	$0.02	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	2906.3185	38.4322	148.512924	$0.02	$0.02	A	A
MPS	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	2867.8873	111.314	115.423404	$0.07	$0.08	D	E
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Drain Water Heat Recovery (GFX)	24.7%	$ 550.00	15	25.0%	100.0%	25.0%	782.0714	2756.573	170.218	680.87352	$0.09	$0.10	E	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Horizontal-Axis Clothes Washer; Energy Star CW (EF=2.5)	9.9%	$ 280.00	14	50.0%	97.0%	48.5%	313.6808	2586.3546	124.271	256.227942	$0.12	$0.14	F	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Energy Star Vertical-Axis Clothes Washer; SEHA CW Tier 2 (EF=3.25)	12.1%	$ 350.00	14	50.0%	91.8%	45.9%	382.2984	2462.084	138.393	297.273313	$0.12	$0.15	F	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Heat Pump Water Heater (EF=2.9)	50.0%	$ 1,750.00	15	40.0%	99.9%	40.0%	1583.141	2325.6906	464.673	1162.84525	$0.14	$0.19	F	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Tankless Water Heater (EF=0.98)	13.1%	$ 1,200.00	15	10.0%	100.0%	10.0%	414.7828	1861.0176	24.3793	243.793305	$0.38	$0.61	F	F
MPS	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Solar Water Heater	50.0%	$ 5,500.00	15	10.0%	99.0%	9.9%	1583.141	1836.8383	90.8136	918.319131	$0.43	$0.74	F	F
MPS	Single Family	Central AC	Electric	Stock	Existing	2370.5	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 100.00	12	80.0%	47.3%	37.8%	142.2299	2370.4983	53.8064	142.229897	$0.10	$0.10	E	E
MPS	Single Family	Central AC	Electric	Stock	Existing	2370.5	Ceiling R-0 to R-19 Insulation	24.3%	$ 812.70	30	67.0%	53.0%	35.5%	575.8828	2316.6889	199.777	562.810486	$0.13	$0.13	F	F
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%	213.5819	2116.9132	20.6374	190.733877	$0.16	$0.18	F	F
MPS	Single Family	Central AC	Electric	Stock	Existing	2370.5	HVAC Diagnostic Testing, Repair and Maintenance	4.0%	$ 123.00	10	100.0%	48.4%	48.4%	94.81993	2096.2758	40.6091	83.8510308	$0.21	$0.23	F	F
MPS	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	2055.6667	59.3735	162.603237	$0.31	$0.35	F	F
MPS	Single Family	Central AC	Electric	Stock	Existing	2370.5	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	33.0%	53.0%	17.5%	199.0181	1996.2932	29.3018	167.599597	$0.38	$0.45	F	F
MPS	Single Family	Central AC	Electric	Stock	Existing	2370.5	PTCS Duct Sealing &O&M	6.0%	$ 750.00	20	50.0%	72.0%	36.0%	189.6399	1868.8914	58.6494	157.355312	$0.42	$0.51	F	F
MPS	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%	400.842	1910.342	46.3726	322.870219	$0.64	$0.80	F	F
MPS	Single Family	Central AC	Electric	Stock	Existing	2370.5	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	150.1904	1863.8694	42.5123	118.089831	$0.69	$0.89	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%	36.55747	1821.4571	4.91375	27.3218584	$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%	$ 100.00	12	80.0%	47.3%	37.8%	881.6223	14693.705	333.535	881.622305	$0.02	$0.02	A	A
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Ceiling R-0 to R-19 Insulation	24.3%	$ 812.70	30	67.0%	53.0%	35.5%	3569.65	14360.17	1238.33	3488.8215	$0.02	$0.02	A	A
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Duct Insulation (R-3 to R-8)	9.0%	$ 376.00	30	50.0%	21.6%	10.8%	1323.903	13121.839	127.922	1182.27773	$0.03	$0.03	A	A
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Wall 2x4 R-0 to Blow-In R-13 Insulation	17.8%	$ 745.00	30	50.0%	54.5%	27.2%	2590.5	12993.917	624.239	2290.82756	$0.03	$0.03	A	A
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	HVAC Diagnostic Testing, Repair and Maintenance	4.0%	$ 123.00	10	100.0%	48.4%	48.4%	587.7482	12389.678	239.825	494.787119	$0.03	$0.04	B	B
MPS	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	12130.052	703.84	7038.39844	$0.05	$0.06	C	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%	1182.272	11426.213	330.021	903.813421	$0.05	$0.06	C	D
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5%	$ 3,220.00	18	90.0%	100.0%	90.0%	7119.1	11098.191	4838.49	5378.10465	$0.05	$0.07	C	D
MPS	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	6257.687	91.8512	525.36748	$0.06	$0.14	D	F
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	PTCS Duct Sealing &O&M	6.0%	$ 750.00	20	50.0%	72.0%	36.0%	1175.496	6165.8458	177.576	493.267666	$0.07	$0.16	D	F
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	High Efficiency Windows, Low-e; U=0.35	16.9%	$ 2,800.00	30	16.9%	85.0%	14.4%	2483.409	5988.2695	145.362	1012.08779	$0.10	$0.26	F	F
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	930.9043	5842.9072	133.262	370.171263	$0.11	$0.28	F	F
MPS	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	33.0%	54.5%	18.0%	220.4056	5709.6455	15.4029	85.6445827	$0.19	$0.49	F	F
MPS	Single Family	Freezer	Electric	Stock	Existing	843.037	Removal of Secondary Freezer (or rep of ineff unit)	110.0%	$ 200.00	7	15.0%	100.0%	15.0%	707.3412	643.03741	106.101	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%	$ 812.70	30	67.0%	53.0%	35.5%	2484.123	10225.364	881.771	2484.12272	$0.03	$0.03	B	B
MPS	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	PTCS Duct Sealing &O&M	25.3%	$ 750.00	20	50.0%	72.0%	36.0%	2588.729	9343.593	851.578	2365.49323	$0.03	$0.03	B	B
MPS	Single Family	Heat Pump	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	8492.0154	192.762	509.520928	$0.03	$0.04	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%	10.8%	921.3053	8299.2535	80.9079	747.762738	$0.04	$0.05	B	C
MPS	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Wall 2x4 R-0 to Blow-In R-13 Insulation	17.8%	$ 745.00	30	50.0%	54.5%	27.2%	1802.732	8218.3455	394.816	1446.89432	$0.04	$0.05	B	C
MPS	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	7823.5291	151.557	312.941163	$0.05	$0.06	C	D
MPS	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Floor R-0 to R-11 Insulation-Batts	7.9%	$ 625.26	30	67.0%	54.5%	36.5%	808.8263	7871.9717	221.588	606.85296	$0.07	$0.10	D	E
MPS	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	33.0%	53.0%	17.5%	858.4745	7450.3834	109.356	625.499919	$0.09	$0.12	E	F
MPS	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%	1726.206	7341.0258	178.2	1240.71946	$0.15	$0.21	F	F
MPS	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	647.8172	7162.826	163.366	453.793338	$0.16	$0.23	F	F
MPS	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	33.0%	54.5%	18.0%	153.3806	6999.4604	18.8824	104.991906	$0.27	$0.40	F	F
MPS	Single Family	Lighting Bulbs	Electric	Stock	Existing	2004	CFL, 6.0 hr/day	21.3%	$ 4.50	5	100.0%	69.3%	69.3%	426.9766	2004	295.602	426.976638	$0.01	$0.01	A	A
MPS	Single Family	Lighting Bulbs	Electric	Stock	Existing	2004	CFL, 2.5 hr/day	39.3%	$ 4.50	7	100.0%	89.0%	89.0%	787.005	2004	700.733	787.004977	$0.02	$0.02	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%	88.58007	2004	83.0392	88.5600728	$0.12	$0.12	F	F
MPS	Single Family	Lighting Fixtures	Electric	Stock	Existing	2004	CFL Fixtures, 6.0 hr/day	21.3%	$ 23.33	8	100.0%	69.3%	69.3%	426.9766	2004	295.602	426.976638	$0.02	$0.02	A	A
MPS	Single Family	Lighting Fixtures	Electric	Stock	Existing	2004	CFL Fixtures, 2.5 hr/day	39.3%	$ 23.33	10	100.0%	89.0%	89.0%	787.005	2004	700.733	787.004977	$0.05	$0.05	C	C
MPS	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%	88.58007	2004	83.0392	88.5600728	$0.24	$0.24	F	F
MPS	Single Family	Plug Load	Electric	Stock	Existing	3500	Powerstrip with Occupancy Sensor	0.8%	$ 90.00	20	100.0%	100.0%	100.0%	27.94285	3500	27.9429	27.9428511	$0.34	$0.34	F	F
MPS	Single Family	Refrigerator	Electric	Stock	Existing	868.995	Removal of Secondary Refrigerator (or rep of ineff unit)	110.0%	$ 200.00	7	15.0%	100.0%	15.0%	953.6941	866.39463	143.054	953.694093	$0.04	$0.04	B	B
MPS	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%	3545.608	14594.748	1258.55	3545.60933	$0.02	$0.02	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%	1314.987	13335.189	130.012	1201.59064	$0.03	$0.03	A	A
MPS	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Floor R-0 to R-11 Insulation-Batts	7.9%	$ 625.26	30	67.0%	54.5%	36.5%	1164.445	13206.177	381.432	1044.60861	$0.05	$0.06	C	C
MPS	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	33.0%	53.0%	17.5%	1225.308	12824.745	188.243	1078.70662	$0.08	$0.07	D	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%	2466.684	12538.502	306.745	2135.71711	$0.10	$0.12	F	F
MPS	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	924.635	12329.757	281.21	781.138852	$0.11	$0.13	F	F
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	33.0%	54.5%	18.0%	218.8212	12048.547	32.5034	180.728208	$0.19	$0.23	F	F
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Water Heater Tank Blanket/Insulation	10.0%	$ 17.00	15	90.0%	31.3%	28.2%	344.7749	3447.749	97.1914	344.774902	$0.01	$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%	56.88786	3350.5577	36.5207	55.2842015	$0.01	$0.01	A	A
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Water Heater Thermostat Setback	4.3%	$ 15.00	15	50.0%	78.0%	39.0%	145.7127	3314.0369	55.0201	141.022848	$0.01	$0.01	A	A
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Hot Water Pipe Insulation	1.1%	$ 5.80	15	75.0%	31.5%	23.7%	36.31058	3259.0169	8.13719	34.3232889	$0.02	$0.02	A	A
MPS	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	3250.8797	134.038	162.628551	$0.05	$0.06	C	C
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Drain Water Heat Recovery (GFX)	24.8%	$ 550.00	15	35.0%	100.0%	35.0%	848.1463	3118.8412	268.38	766.742939	$0.08	$0.09	E	E
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Horizontal-Axis Clothes Washer; Energy Star CW (EF=2.5)	12.4%	$ 280.00	14	50.0%	97.0%	48.5%	426.654	2848.4812	170.98	352.495446	$0.08	$0.10	E	F
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Energy Star Vertical-Axis Clothes Washer; SEHA CW Tier 2 (EF=3.25)	15.0%	$ 350.00	14	50.0%	79.0%	39.5%	517.4314	2677.5209	158.671	401.837092	$0.09	$0.11	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%	1723.875	2518.8495	503.268	1259.42475	$0.13	$0.17	F	F
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Tankless Water Heater (EF=0.98)	13.1%	$ 1,200.00	15	10.0%	100.0%	10.0%	451.6551	2015.5834	26.4041	264.041421	$0.33	$0.56	F	F
MPS	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Low-Flow Showerheads	0.8%	$ 90.00	20	100.0%	100.0%	100.0%	27.5257	1989.1792	15.881	15.8809539	$0.35	$0.61	F	F
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%	1723.875	1973.2983	97.6783	988.649134	$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%	68.65094	1144.1824	49.0772	68.6509424	$0.21	$0.21	F	F
SJD	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Ceiling R-0 to R-19 Insulation	14.2%	$ 447.20	30	67.0%	59.8%	40.1%	187.4738	1095.1052	62.3348	155.504937	$0.25	$0.27	F	F
SJD	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Floor R-0 to R-11 Insulation-Batts	5.5%	$ 240.84	30	67.0%	59.9%	40.1%	62.70119	1032.7704	22.7189	56.595816	$0.35	$0.39	F	F
SJD	Multi Family	Central AC	Electric	Stock	Existing	1144.18	High Efficiency Windows, Low-e; U=0.35	28.8%	$ 1,370.00	30	75.0%	95.1%	71.3%	306.6409	1010.0515	193.011	270.693791	$0.41	$0.47	F	F
SJD	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Duct Insulation (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
SJD	Multi Family	Central AC	Electric	Stock	Existing	1144.18	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	164.7623	805.93105	20.8897	116.054071	$0.63	$0.89	F	F
SJD	Multi Family	Central AC	Electric	Stock	Existing	1144.18	PTCS Duct Sealing &O&M	6.0%	$ 630.00	20	50.0%	35.0%	18.0%	68.65094	785.04132	8.47845	47.1024791	$0.98	$1.43	F	F
SJD	Multi Family	Central Heat	Electric	Stock	Existing	1144.18	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	33.0%	59.8%	19.7%	25.17201	776.56287	3.37307	17.0643832	$1.64	$2.41	F	F
SJD	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Wall 2x4 R-0 to Blow-In R-13 Insulation	23.1%	$ 435.00	30	50.0%	59.9%	30.0%	1712.511	7413.4692	513.017	1712.51139	$0.02	$0.02	A	A
SJD	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 100.00	12	80.0%	89.4%	71.5%	444.8082	6900.4522	295.96	414.027132	$0.03	$0.03	B	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%	1062.713	6604.4725	375.935	937.835093	$0.04	$0.04	B	B
SJD	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Floor R-0 to R-11 Insulation-Batts	5.5%	$ 240.84	30	67.0%	59.9%	40.1%	406.2581	6228.5373	137.016	341.323842	$0.05	$0.07	C	D
SJD	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	High Efficiency Windows, Low-e; U=0.35	28.8%	$ 1,370.00	30	75.0%	95.1%	71.3%	1986.81	6091.5217	1164.03	1632.52783	$0.06	$0.08	D	E
SJD	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Duct Insulation (R-3 to R-8)	6.8%	$ 376.00	30	50.0%	40.0%	20.0%	504.1159	4927.4886	66.9971	335.069324	$0.07	$0.10	D	F
SJD	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	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%	4301.626	4850.4915	282.027	2820.2[illegible]	[illegible]	[illegible]	[illegible]	F

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJO	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	1087.54	4578.4641	118.674	859.298825	$0.10	$0.18	E	F
SJO	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5%	$ 3,220.00	18	90.0%	100.0%	90.0%	3591.826	4459.7903	1944.69	2160.76839	$0.10	$0.17	F	F
SJO	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%	444.6082	2515.0987	27.1631	150.905923	$0.15	$0.45	F	F
SJO	Multi Family	Central Heat	Electric	Stock	Existing	7413.47	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	33.0%	59.9%	19.7%	163.0983	2487.9357	10.8066	54.7345845	$0.25	$0.75	F	F
SJO	Multi Family	Freezer	Electric	Stock	Existing	631.158	Removal of Secondary Freezer (or rep of ineff unit)	110.0%	$ 200.00	7	15.0%	100.0%	15.0%	694.2742	631.15833	104.141	694.274156	$0.06	$0.06	C	C
SJO	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	4929.147	341.1	1138.63295	$0.04	$0.04	B	B
SJO	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Ceiling R-0 to R-19 Insulation	14.2%	$ 447.20	30	87.0%	59.8%	40.1%	699.9389	4586.0467	281.158	651.502631	$0.06	$0.06	C	D
SJO	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 150.00	12	80.0%	89.4%	71.5%	295.7488	4326.8891	185.592	259.613344	$0.07	$0.08	D	E
SJO	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	PTCS Duct Sealing &O&M	17.3%	$ 630.00	20	50.0%	36.0%	18.0%	851.2634	4141.2967	128.736	715.201712	$0.08	$0.09	E	E
SJO	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	219.886308	$0.08	$0.10	E	F
SJO	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	High Efficiency Windows, Low-e; U=0.35	28.8%	$ 1,370.00	30	75.0%	95.1%	71.3%	1321.011	3924.292	749.896	1051.71025	$0.10	$0.12	E	F
SJO	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Duct Insulation (R-3 to R-8)	6.8%	$ 378.00	30	50.0%	40.0%	20.0%	335.192	3174.3983	43.161	215.858947	$0.10	$0.16	F	F
SJO	Multi Family	Heat Pump	Electric	Stock	Existing	4929.15	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	709.7972	3131.2353	81.1616	450.69788	$0.15	$0.23	F	F
SJO	Multi Family	Ceiling R-19 to R-38 Insulation	Electric	Stock	Existing	4929.15	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	33.0%	59.8%	19.7%	108.4412	3050.0737	13.2483	67.1016205	$0.38	$0.61	F	F
SJO	Multi Family	Lighting Bulbs	Electric	Stock	Existing	1088	CFL, 6.0 hr/day	21.3%	$ 4.50	5	100.0%	72.7%	72.7%	231.6128	1088	168.479	231.812753	$0.01	$0.01	A	A
SJO	Multi Family	Lighting Bulbs	Electric	Stock	Existing	1088	CFL, 2.5 hr/day	39.3%	$ 4.50	7	100.0%	95.2%	95.2%	427.2762	1088	368.282	427.278155	$0.02	$0.02	A	A
SJO	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	1088	48.3967	48.0805186	$0.10	$0.10	F	F
SJO	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
SJO	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	368.282	427.278155	$0.04	$0.04	B	B
SJO	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	1088	48.3967	48.0805186	$0.21	$0.21	F	F
SJO	Multi Family	Plug Load	Electric	Stock	Existing	2000	Powerstrip with Occupancy Sensor	1.8%	$ 90.00	20	100.0%	100.0%	100.0%	35.67371	2000	35.6737	35.6737122	$0.27	$0.27	F	F
SJO	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%	898.8991	817.18103	134.835	898.899133	$0.05	$0.05	C	C
SJO	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Ceiling R-0 to R-19 Insulation	14.2%	$ 447.20	30	87.0%	59.8%	40.1%	1087.402	7657.7612	435.89	1087.40209	$0.04	$0.04	B	B
SJO	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Floor R-0 to R-11 Insulation-Batts	5.5%	$ 240.84	30	67.0%	59.9%	40.1%	419.6453	7221.8714	158.667	395.758554	$0.05	$0.06	C	C
SJO	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	High Efficiency Windows, Low-e; U=0.35	28.8%	$ 1,370.00	30	75.0%	95.1%	71.3%	2052.28	7083.0045	1349.67	1892.88521	$0.06	$0.07	D	D
SJO	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Duct Insulation (R-3 to R-8)	6.8%	$ 378.00	30	50.0%	40.0%	20.0%	520.7278	5713.33	77.6819	388.506443	$0.07	$0.09	D	E
SJO	Multi Family	Room Heat	Electric	Stock	Existing	7657.76	Comprehensive Shell Air Sealing - Inf. Reduction	14.4%	$ 650.00	10	90.0%	20.0%	18.0%	1102.718	5635.8482	146.076	811.533338	$0.09	$0.13	E	F
SJO	Multi Family	Ceiling R-19 to R-38 Insulation	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	5489.5722	23.8444	120.770588	$0.24	$0.34	F	F
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Water Heater Tank Blanket/Insulation	10.0%	$ 17.00	15	90.0%	53.1%	47.8%	316.6281	3166.281	151.322	316.628101	$0.01	$0.01	A	A
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Faucet Aerators	1.9%	$ 4.82	15	90.0%	73.4%	66.1%	61.42585	3014.9587	39.8386	58.4901995	$0.01	$0.01	A	A
SJO	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	2978.3201	53.0121	126.65192	$0.01	$0.01	A	A
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Hot Water Pipe Insulation	1.2%	$ 5.80	15	75.0%	62.6%	46.9%	38.21009	2823.3081	16.9868	38.2012044	$0.02	$0.02	A	A
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Low-Flow Showerheads	5.1%	$ 20.00	10	95.0%	27.2%	25.9%	181.797	2906.3195	38.4322	148.512924	$0.02	$0.02	A	A
SJO	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	2867.8873	111.314	115.423404	$0.07	$0.08	D	E
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Drain Water Heat Recovery (GFX)	24.7%	$ 550.00	15	25.0%	100.0%	25.0%	782.0714	2758.573	170.218	680.87352	$0.09	$0.10	E	F
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	9.9%	$ 280.00	14	50.0%	97.0%	48.5%	313.6808	2586.3546	124.271	256.227942	$0.12	$0.14	F	F
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	12.1%	$ 350.00	14	50.0%	91.8%	45.9%	382.2984	2462.084	138.393	297.273313	$0.12	$0.15	F	F
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Heat Pump Water Heater (EF=2.9)	50.0%	$ 1,750.00	15	40.0%	89.9%	40.0%	1583.141	2325.8906	464.673	1162.84528	$0.14	$0.19	F	F
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Tankless Water Heater (EF=0.98)	13.1%	$ 1,200.00	15	10.0%	100.0%	10.0%	414.7828	1881.0176	24.3763	243.793305	$0.38	$0.61	F	F
SJO	Multi Family	Water Heat	Electric	Stock	Existing	3166.28	Solar Water Heater	50.0%	$ 5,500.00	15	10.0%	99.0%	9.9%	1583.141	1836.6383	90.9136	818.319131	$0.43	$0.74	F	F
SJO	Single Family	Central AC	Electric	Stock	Existing	2370.5	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	8.0%	$ 100.00	12	80.0%	47.3%	37.8%	142.2299	2370.4983	53.8084	142.229897	$0.10	$0.10	E	E
SJO	Single Family	Central AC	Electric	Stock	Existing	2370.5	Ceiling R-0 to R-19 Insulation	24.3%	$ 812.70	30	67.0%	53.0%	35.5%	575.8826	2316.6899	189.777	562.810486	$0.13	$0.13	F	F
SJO	Single Family	Central AC	Electric	Stock	Existing	2370.5	Duct Insulation (R-3 to R-8)	9.0%	$ 378.00	30	50.0%	21.6%	10.8%	213.5819	2116.9132	20.6374	180.733877	$0.16	$0.18	F	F
SJO	Single Family	Central AC	Electric	Stock	Existing	2370.5	HVAC Diagnostic Testing, Repair and Maintenance	4.0%	$ 123.00	10	100.0%	48.4%	48.4%	94.81993	2096.2758	40.8091	83.8510306	$0.21	$0.23	F	F
SJO	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	2055.6667	59.3735	182.603237	$0.31	$0.35	F	F
SJO	Single Family	Central AC	Electric	Stock	Existing	2370.5	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	33.0%	53.0%	17.5%	199.0181	1998.2932	29.3018	187.599597	$0.38	$0.45	F	F
SJO	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%	189.6399	1988.9914	58.6494	157.359312	$0.42	$0.51	F	F
SJO	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	1910.342	46.3726	322.870219	$0.64	$0.80	F	F
SJO	Single Family	Central AC	Electric	Stock	Existing	2370.5	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	150.1804	1863.9684	42.5123	118.089831	$0.69	$0.88	F	F
SJO	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%	35.55747	1821.4571	4.91375	27.3218564	$1.16	$1.54	F	F
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	8.0%	$ 100.00	12	80.0%	47.3%	37.8%	881.6223	14693.705	333.535	881.622305	$0.02	$0.02	A	A
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Ceiling R-0 to R-19 Insulation	24.3%	$ 812.70	30	67.0%	53.0%	35.5%	3569.65	14360.17	1238.33	3488.6215	$0.02	$0.02	A	A
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Duct Insulation (R-3 to R-8)	9.0%	$ 378.00	30	50.0%	21.6%	10.8%	1323.903	13121.839	127.822	1182.27773	$0.03	$0.03	A	A
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Wall 2x4 R-0 to Blow-In R-13 Insulation	17.8%	$ 745.00	30	50.0%	54.5%	27.2%	2590.5	12993.917	824.239	2290.82756	$0.03	$0.03	A	A
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	HVAC Diagnostic Testing, Repair and Maintenance	4.0%	$ 123.00	10	100.0%	48.4%	48.4%	587.7482	12369.678	239.625	494.767116	$0.03	$0.04	B	B
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	$ 3,845.00	18	10.0%	100.0%	10.0%	8525.944	12130.052	703.84	7038.39844	$0.05	$0.06	C	C
SJO	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%	1162.272	11426.213	330.021	903.813421	$0.05	$0.06	C	D
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	ENERGY STAR or better Air Source Heat Pump, SEER=14; HSPF=8.5	48.5%	$ 3,220.00	18	90.0%	100.0%	90.0%	7119.1	11096.191	4838.49	5376.10465	$0.05	$0.07	D	F
SJO	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%	1233.618	6257.697	91.8512	525.36748	$0.08	$0.14	D	F
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	PTCS Duct Sealing &O&M	8.0%	$ 750.00	20	50.0%	72.0%	36.0%	1175.496	6165.8458	177.576	493.267668	$0.07	$0.16	D	F
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	High Efficiency Windows, Low-e; U=0.35	16.9%	$ 2,800.00	30	16.9%	85.0%	14.4%	2483.409	5988.2695	145.362	1012.08779	$0.10	$0.26	F	F
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	630.9043	5842.9072	133.262	370.171283	$0.11	$0.28	F	F
SJO	Single Family	Central Heat	Electric	Stock	Existing	14693.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	33.0%	54.5%	18.0%	220.4058	5709.5455	15.4029	85.6446823	$0.19	$0.49	F	F
SJO	Single Family	Freezer	Electric	Stock	Existing	843.037	Removal of Secondary Freezer (or rep of ineff unit)	110.0%	$ 200.00	7	15.0%	100.0%	15.0%	707.3412	843.03741	106.101	707.341156	$0.06	$0.06	C	C
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Ceiling R-0 to R-19 Insulation	24.3%	$ 812.70	30	67.0%	53.0%	35.5%	2484.123	10225.384	881.771	2484.12272	$0.03	$0.03	B	B
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	PTCS Duct Sealing &O&M	25.3%	$ 750.00	20	50.0%	72.0%	36.0%	2588.729	9343.593	851.578	2365.49323	$0.03	$0.03	B	B
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	8.0%	$ 150.00	12	80.0%	47.3%	37.8%	613.5218	8482.0154	192.762	509.520926	$0.03	$0.04	B	B
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Duct Insulation (R-3 to R-8)	8.0%	$ 378.00	30	50.0%	21.6%	10.8%	921.3053	8299.2535	80.9079	747.762738	$0.04	$0.05	B	C
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Wall 2x4 R-0 to Blow-In R-13 Insulation	17.6%	$ 745.00	30	50.0%	54.5%	27.2%	1802.732	8218.3455	384.816	1448.69432	$0.04	$0.05	B	C
SJO	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	7823.5291	151.557	312.941163	$0.05	$0.06	C	D
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Floor R-0 to R-11 Insulation-Batts	7.9%	$ 625.26	30	67.0%	54.5%	36.5%	808.8263	7671.9717	221.589	608.85296	$0.07	$0.10	D	E
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	33.0%	53.0%	17.5%	858.4745	7450.3634	109.358	825.499919	$0.09	$0.12	E	F
SJO	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	7341.0258	178.2	1240.71048	$0.15	$0.21	F	F
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	647.8172	7162.826	163.366	453.793336	$0.16	$0.23	F	F
SJO	Single Family	Heat Pump	Electric	Stock	Existing	10225.4	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	33.0%	54.5%	18.0%	153.3805	6999.4804	18.8824	104.991906	$0.27	$0.40	F	F
SJO	Single Family	Lighting Bulbs	Electric	Stock	Existing	2004	CFL, 6.0 hr/day	21.3%	$ 4.50	5	100.0%	69.3%	69.3%	426.9786	2004	295.602	426.978838	$0.01	$0.01	A	A
SJO	Single Family	Lighting Bulbs	Electric	Stock	Existing	2004	CFL, 2.5 hr/day	39.3%	$ 4.50	7	100.0%	88.0%	88.0%	787.005	2004	700.733	787.004977	$0.02	$0.02	A	A
SJO	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	2004	83.0392	88.5600728	$0.12	$0.12	F	F
SJO	Single Family	Lighting Fixtures	Electric	Stock	Existing	2004	CFL Fixtures, 6.0 hr/day	21.3%	$ 23.33	8	100.0%	69.3%	69.3%	426.9786	2004	295.602	426.978838	$0.02	$0.02	A	A
SJO	Single Family	Lighting Fixtures	Electric	Stock	Existing	2004	CFL Fixtures, 2.5 hr/day	39.3%	$ 23.33	10	100.0%	88.0%	88.0%	787.005	2004	700.733	787.004977	$0.05	$0.05	C	C
SJO	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	2004	83.0392	88.5600728	$0.24	$0.24	F	F
SJO	Single Family	Plug Load	Electric	Stock	Existing	3500	Powerstrip with Occupancy Sensor	0.8%	$ 90.00	20	100.0%	100.0%	100.0%	27.94285	3500	27.9429	27.9426511	$0.34	$0.34	F	F
SJO	Single Family	Refrigerator	Electric	Stock	Existing	868.995	Removal of Secondary Refrigerator (or rep of ineff unit)	110.0%	$ 200.00	7	15.0%	100.0%	15.0%	953.6941	868.99463	143.054	953.694092	$0.04	$0.04	B	B
SJO	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	14594.748	1258.58	3545.60933	$0.02	$0.02	A	A
SJO	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Duct Insulation (R-3 to R-8)	9.0%	$ 378.00	30	50.0%	21.6%	10.8%	1314.987	13338.189	130.012	1201.59064	$0.03	$0.03	A	A
SJO	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Floor R-0 to R-11 Insulation-Batts	7.9%	$ 625.26	30	67.0%	54.5%	36.5%	1154.445	13206.177	381.432	1044.60861	$0.05	$0.06	C	C
SJO	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	33.0%	53.0%	17.5%	1225.308	12824.745	188.243	1076.70982	$0.08	$0.07	D	D
SJO	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%	2466.684	12636.502	306.745	2135.71711	$0.10	$0.12	F	F
SJO	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Comprehensive Shell Air Sealing - Inf. Reduction	6.3%	$ 650.00	10	90.0%	40.0%	36.0%	924.635	12329.757	281.21	781.138852	$0.11	$0.13	F	F
SJO	Single Family	Room Heat	Electric	Stock	Existing	14594.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	33.0%	54.5%	18.0%	216.9212	12048.547	32.5034	180.729208	$0.19	$0.23	F	F
SJO	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Ceiling R-19 to R-38 Insulation	10.0%	$ 17.00	15	90.0%	31.3%	28.2%	344.7749	3447.749	97.1914	344.774902	$0.01	$0.01	A	A
SJO	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Faucet Aerators	1.7%	$ 4.82	15	90.0%	73.4%	66.1%	56.88786	3350.5577	36.5207	55.2842015	$0.01	$0.01	A	A
SJO	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Water Heater Thermostat Setback	4.3%	$ 15.00	15	50.0%	78.0%	39.0%	146.7127	3314.0369	55.0201	141.022848	$0.01	$0.01	A	A
SJO	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Hot Water Pipe Insulation	1.1%	$ 5.80	15	75.0%	31.8%	23.7%	36.31098	3259.0169	8.13719	34.3232889	$0.02	$0.02	A	A
SJO	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	3250.8797	134.038	162.628551	$0.05	$0.06	C	C
SJO	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Drain Water Heat Recovery (GFX)	24.8%	$ 550.00	15	35.0%	100.0%	35.0%	848.1483	3116.8412	268.36	766.74[illegible]	[illegible]	[illegible]	E	E

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Horizontal-Axis Clothes Washer: Energy Star CW (EF=2.5)	12.4%	$ 280.00	14	50.0%	97.0%	48.5%	426.654	2848.4812	170.96	352.495446	$0.06	$0.10	E	F
SJD	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	15.0%	$ 350.00	14	50.0%	79.0%	39.5%	517.4314	2677.5209	158.671	401.837092	$0.09	$0.11	E	F
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	503.266	1259.42475	$0.13	$0.17	F	F
SJD	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Tankless Water Heater (EF=0.98)	13.1%	$ 1,200.00	15	10.0%	100.0%	10.0%	451.6551	2015.5834	26.4041	264.041421	$0.33	$0.56	F	F
SJD	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Low-Flow Showerheads	0.8%	$ 90.00	20	100.0%	100.0%	100.0%	27.5257	1989.1792	15.881	15.8809539	$0.35	$0.61	F	F
SJD	Single Family	Water Heat	Electric	Stock	Existing	3447.75	Solar Water Heater	50.0%	$ 5,500.00	15	10.0%	99.0%	9.9%	1723.875	1973.2983	97.6783	986.649134	$0.40	$0.69	F	F
MPS	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	48.0772	68.6509424	$0.14	$0.14	F	F
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	13.5245	14.2363674	$0.50	$0.52	F	F
MPS	Multi Family	Central AC	Electric	Stock	New	1144.18	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	50.0%	95.0%	47.5%	25.17201	1081.5808	11.3025	23.794774	$1.64	$1.73	F	F
MPS	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	317.984	444.808154	$0.02	$0.02	A	A
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	87.6292	92.2413022	$0.08	$0.08	E	E
MPS	Multi Family	Central Heat	Electric	Stock	New	7413.47	ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	$ 3,645.00	18	10.0%	50.0%	5.0%	4301.826	7007.8555	203.314	4066.27091	$0.10	$0.10	E	F
MPS	Multi Family	Central Heat	Electric	Stock	New	7413.47	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%	3591.826	6804.542	1483.56	3296.8008	$0.10	$0.11	F	F
MPS	Multi Family	Central Heat	Electric	Stock	New	7413.47	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.4%	$ 189.00	30	50.0%	95.0%	47.5%	107.2672	5320.9817	36.5705	76.9905126	$0.16	$0.23	F	F
MPS	Multi Family	Central Heat	Electric	Stock	New	7413.47	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	50.0%	95.0%	47.5%	163.0963	5284.4112	55.2221	116.257047	$0.25	$0.35	F	F
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	4929.147	211.425	295.748818	$0.03	$0.03	B	B
MPS	Multi Family	Heat Pump	Electric	Stock	New	4929.15	High Efficiency Windows, Low-e; U=0.35	1.3%	$ 80.00	30	100.0%	95.0%	95.0%	64.07891	4717.7221	58.2639	61.3303868	$0.12	$0.12	F	F
MPS	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	F
MPS	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	F
MPS	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	A
MPS	Multi Family	Lighting Bulbs	Electric	Stock	New	1088	CFL, 2.5 hr/day	39.3%	$ 4.50	7	100.0%	88.2%	88.2%	427.2762	1088	368.282	427.276155	$0.02	$0.02	A	A
MPS	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	F
MPS	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	A
MPS	Multi Family	Lighting Fixtures	Electric	Stock	New	1088	CFL Fixtures, 2.5 hr/day	39.3%	$ 23.33	10	100.0%	88.2%	88.2%	427.2762	1088	368.282	427.276155	$0.04	$0.04	B	B
MPS	Multi Family	Lighting Fixtures	Electric	Stock	New	1088	CFL Fixtures, 0.5 hr/day	4.4%	$ 23.33	10	100.0%	96.5%	96.5%	48.08052	1088	46.3967	48.0805186	$0.21	$0.21	F	F
MPS	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	39.6375	39.637458	$0.24	$0.24	F	F
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	7657.7812	94.5734	99.550896	$0.07	$0.07	D	D
MPS	Multi Family	Room Heat	Electric	Stock	New	7657.76	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	50.0%	95.0%	47.5%	168.4707	7583.1879	79.0353	166.390133	$0.24	$0.25	F	F
MPS	Multi Family	Water Heat	Electric	Stock	New	3166.28	Faucet 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	A
MPS	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%	906.7226	3125.7031	224.269	897.078786	$0.05	$0.06	C	C
MPS	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	D
MPS	Multi Family	Water Heat	Electric	Stock	New	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	298.695229	$0.11	$0.12	F	F
MPS	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	157.318	342.881271	$0.11	$0.13	F	F
MPS	Multi Family	Water Heat	Electric	Stock	New	3166.28	Heat Pump Water Heater (EF=2.9)	50.0%	$ 1,750.00	15	40.0%	99.9%	40.0%	1583.141	2478.9038	495.285	1239.45191	$0.14	$0.17	F	F
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	25.9854	259.854068	$0.27	$0.43	F	F
MPS	Multi Family	Water Heat	Electric	Stock	New	3166.28	Solar Water Heater	50.0%	$ 5,500.00	15	10.0%	99.0%	9.9%	1583.141	1957.6334	96.9028	978.816715	$0.43	$0.70	F	F
MPS	Single Family	Central AC	Electric	Stock	New	2370.5	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 66.00	12	80.0%	47.3%	37.8%	142.2299	2370.4983	53.8084	142.229897	$0.07	$0.07	D	D
MPS	Single Family	Central AC	Electric	Stock	New	2370.5	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	199.0161	2318.6899	92.3868	194.498626	$0.38	$0.39	F	F
MPS	Single Family	Central AC	Electric	Stock	New	2370.5	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	40.29847	2224.303	35.9225	37.8131515	$0.39	$0.41	F	F
MPS	Single Family	Central AC	Electric	Stock	New	2370.5	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	35.55747	2188.3805	15.5922	32.625708	$1.18	$1.28	F	F
MPS	Single Family	Central Heat	Electric	Stock	New	14693.7	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 66.00	12	80.0%	47.3%	37.8%	881.6223	14693.705	333.535	881.622305	$0.01	$0.01	A	A
MPS	Single Family	Central Heat	Electric	Stock	New	14693.7	ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	$ 3,645.00	18	10.0%	50.0%	5.0%	8525.944	14380.17	418.621	8332.4121	$0.05	$0.05	C	C
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%	7118.1	13943.549	3040.04	6755.64955	$0.05	$0.05	C	C
MPS	Single Family	Central Heat	Electric	Stock	New	14693.7	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	1233.618	10903.507	434.819	915.408279	$0.08	$0.08	D	E
MPS	Single Family	Central Heat	Electric	Stock	New	14693.7	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	249.793	10468.688	169.069	177.967694	$0.06	$0.09	D	E
MPS	Single Family	Central Heat	Electric	Stock	New	14693.7	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 318.00	30	50.0%	95.0%	47.5%	386.6705	10299.819	128.743	271.038424	$0.08	$0.11	E	F
MPS	Single Family	Central Heat	Electric	Stock	New	14693.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	220.4056	10170.975	72.4875	152.56313	$0.19	$0.27	F	F
MPS	Single Family	Heat Pump	Electric	Stock	New	10225.4	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 66.00	12	80.0%	47.3%	37.8%	613.5218	10225.384	232.108	613.521828	$0.02	$0.02	A	A
MPS	Single Family	Heat Pump	Electric	Stock	New	10225.4	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	656.4745	9993.2562	398.519	838.987823	$0.09	$0.09	E	E
MPS	Single Family	Heat Pump	Electric	Stock	New	10225.4	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	173.8312	9594.737	154.955	163.110529	$0.09	$0.10	E	E
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	9439.782	117.995	248.411493	$0.11	$0.12	F	F
MPS	Single Family	Heat Pump	Electric	Stock	New	10225.4	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	153.3805	9321.7865	66.4177	139.826788	$0.27	$0.30	F	F
MPS	Single Family	Heat Pump	Electric	Stock	New	10225.4	Geothermal Heat Pump (4 Ton, w/ water heating)	51.8%	$ 15,000.00	18	25.0%	99.0%	24.8%	5310.565	9255.3686	1189.68	4606.79587	$0.32	$0.35	F	F
MPS	Single Family	Lighting Bulbs	Electric	Stock	New	2004	CFL, 6.0 hr/day	21.3%	$ 4.50	5	100.0%	69.3%	69.3%	426.9786	2004	295.802	426.978638	$0.01	$0.01	A	A
MPS	Single Family	Lighting Bulbs	Electric	Stock	New	2004	CFL, 2.5 hr/day	39.3%	$ 4.50	7	100.0%	89.0%	89.0%	787.005	2004	700.733	787.004977	$0.02	$0.02	A	A
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	83.0392	88.5600728	$0.12	$0.12	F	F
MPS	Single Family	Lighting Fixtures	Electric	Stock	New	2004	CFL Fixtures, 6.0 hr/day	21.3%	$ 23.33	8	100.0%	69.3%	69.3%	426.9786	2004	295.802	426.978638	$0.02	$0.02	A	A
MPS	Single Family	Lighting Fixtures	Electric	Stock	New	2004	CFL Fixtures, 2.5 hr/day	39.3%	$ 23.33	10	100.0%	89.0%	89.0%	787.005	2004	700.733	787.004977	$0.05	$0.05	C	C
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	83.0392	88.5600728	$0.24	$0.24	F	F
MPS	Single Family	Plug Load	Electric	Stock	New	3500	Powerstrip with Occupancy Sensor	0.4%	$ 90.00	20	100.0%	100.0%	100.0%	13.57724	3500	13.5722	13.5722419	$0.71	$0.71	F	F
MPS	Single Family	Room Heat	Electric	Stock	New	14594.7	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	1225.308	14594.748	582.021	1225.30791	$0.06	$0.06	D	D
MPS	Single Family	Room Heat	Electric	Stock	New	14594.7	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	248.1107	14012.727	226.306	238.218355	$0.06	$0.07	D	D
MPS	Single Family	Room Heat	Electric	Stock	New	14594.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	218.9212	13786.421	95.2283	206.796319	$0.19	$0.20	F	F
MPS	Single Family	Water Heat	Electric	Stock	New	3447.75	Faucet Aerators	1.7%	$ 4.82	15	90.0%	73.4%	66.1%	56.88788	3447.749	37.5801	56.9875589	$0.01	$0.01	A	A
MPS	Single Family	Water Heat	Electric	Stock	New	3447.75	Energy Star Dish Washer (EF=0.58)	5.0%	$ 70.00	13	100.0%	82.4%	82.4%	172.4771	3410.1689	140.606	170.597157	$0.05	$0.08	C	C
MPS	Single Family	Water Heat	Electric	Stock	New	3447.75	Drain Water Heat Recovery (GFX)	25.0%	$ 400.00	15	35.0%	100.0%	35.0%	861.9373	3269.5627	286.087	817.390682	$0.06	$0.06	C	D
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	2983.478	168.872	397.62504	$0.08	$0.09	E	E
MPS	Single Family	Water Heat	Electric	Stock	New	3447.75	Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	18.2%	$ 350.00	14	50.0%	79.0%	39.5%	557.2678	2794.6041	178.38	451.698312	$0.08	$0.10	E	E
MPS	Single Family	Water Heat	Electric	Stock	New	3447.75	Heat Pump Water Heater (EF=2.9)	50.0%	$ 1,750.00	15	40.0%	99.9%	40.0%	1723.875	2616.2442	522.726	1308.12212	$0.13	$0.17	F	F
MPS	Single Family	Water Heat	Electric	Stock	New	3447.75	Tankless Water Heater (EF=0.98)	13.1%	$ 903.00	15	10.0%	100.0%	10.0%	451.6551	2093.5186	27.4251	274.250942	$0.25	$0.41	F	F
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	49.0772	68.6509424	$0.40	$0.66	F	F
SJD	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	13.5245	14.2363674	$0.14	$0.14	F	F
SJD	Multi Family	Central AC	Electric	Stock	New	1144.18	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	50.0%	95.0%	47.5%	25.17201	1081.5808	11.3025	23.794774	$0.50	$0.52	F	F
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	317.984	444.808154	$1.64	$1.73	F	F
SJD	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	87.6292	92.2413022	$0.02	$0.02	A	A
SJD	Multi Family	Central Heat	Electric	Stock	New	7413.47	ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	$ 3,645.00	18	10.0%	50.0%	5.0%	4301.826	7007.8555	203.314	4066.27091	$0.08	$0.08	E	E
SJD	Multi Family	Central Heat	Electric	Stock	New	7413.47	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%	3591.826	6804.542	1483.56	3296.8008	$0.10	$0.11	E	F
SJD	Multi Family	Central Heat	Electric	Stock	New	7413.47	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	1.4%	$ 189.00	30	50.0%	95.0%	47.5%	107.2672	5320.9817	36.5705	76.9905126	$0.10	$0.11	F	F
SJD	Multi Family	Central Heat	Electric	Stock	New	7413.47	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	50.0%	95.0%	47.5%	163.0963	5284.4112	55.2221	116.257047	$0.16	$0.23	F	F
SJD	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	4929.147	211.425	295.748818	$0.25	$0.35	F	F
SJD	Multi Family	Heat Pump	Electric	Stock	New	4929.15	High Efficiency Windows, Low-e; U=0.35	1.3%	$ 80.00	30	100.0%	95.0%	95.0%	64.07891	4717.7221	58.2639	61.3303868	$0.03	$0.03	B	B
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	$0.12	$0.12	F	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	$0.24	$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	$0.38	$0.41	F	F
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	$0.01	$0.01	A	A
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	$0.02	$0.02	A	A
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	$0.10	$0.10	F	F
SJD	Multi Family	Lighting Fixtures	Electric	Stock	New	1088	CFL Fixtures, 2.5 hr/day	39.3%	$ 23.33	10	100.0%	88.2%	88.2%	427.2762	1088	368.282	427.276155	$0.02	$0.02	A	A
SJD	Multi Family	Lighting Fixtures	Electric	Stock	New	1088	CFL Fixtures, 0.5 hr/day	4.4%	$ 23.33	10	100.0%	96.5%	96.5%	48.08052	1088	46.3967	48.0805186	$0.04	$0.04	B	B
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	39.6375	39.637458	$0.21	$0.21	F	F
SJD	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	7657.7812	94.5734	99.550896	$0.24	$0.24	F	F
SJD	Multi Family	Room Heat	Electric	Stock	New	7657.76	Ceiling R-19 to R-38 Insulation	2.2%	$ 447.20	30	50.0%	95.0%	47.5%	168.4707	7583.1879	79.0353	166.390133	$0.07	$0.07	D	D
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	3166.281	40.5779	61.4258515	$0.24	$0.25	F	F
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%	906.7226	3125.7031	224.269	897.078786	$0.01	$0.01	A	A
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	$0.05	$0.06	C	C
																				D	D

Area	Building Type	End-Use	Fuel	Efficiency	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	Stacked Cost Group
SJD	Multi Family	Water Heat	Electric	Stock	New	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	143.697	296.695229	$0.11	$0.12	F	F
SJD	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	2638.2229	157.319	342.881271	$0.11	$0.13	F	F
SJD	Multi Family	Water Heat	Electric	Stock	New	3166.28	Heat Pump Water Heater (EF=2.9)	50.0%	$ 1,750.00	15	40.0%	99.8%	40.0%	1583.141	2478.9038	495.285	1239.45191	$0.14	$0.17	F	F
SJD	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	259.854088	$0.27	$0.43	F	F
SJD	Single Family	Central AC	Electric	Stock	New	3166.28	Solar Water Heater	50.0%	$ 5,500.00	15	10.0%	99.0%	9.9%	1583.141	1957.6334	96.9029	978.616715	$0.07	$0.07	D	D
SJD	Single Family	Central AC	Electric	Stock	New	2370.5	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 66.00	12	80.0%	47.3%	37.8%	142.2299	2370.4963	53.8084	142.229897	$0.39	$0.39	F	F
SJD	Single Family	Central AC	Electric	Stock	New	2370.5	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	199.0161	2316.6899	92.3868	194.498626	$0.41	$0.41	F	F
SJD	Single Family	Central AC	Electric	Stock	New	2370.5	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	40.29847	2224.303	35.9225	37.8131515	$1.28	$1.28	F	F
SJD	Single Family	Central AC	Electric	Stock	New	2370.5	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	35.55747	2188.3805	15.5922	32.825708	$0.01	$0.01	A	A
SJD	Single Family	Central Heat	Electric	Stock	New	14693.7	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 66.00	12	80.0%	47.3%	37.8%	881.6223	14693.705	333.535	881.622305	$0.05	$0.05	C	C
SJD	Single Family	Central Heat	Electric	Stock	New	14693.7	ENERGY STAR or better Air Source Heat Pump, SEER=18; HSPF=9.4	58.0%	$ 3,645.00	18	10.0%	50.0%	5.0%	8525.944	14360.17	416.621	8332.4121	$0.05	$0.05	C	C
SJD	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	13943.549	3040.04	6755.54955	$0.06	$0.08	D	E
SJD	Single Family	Central Heat	Electric	Stock	New	14693.7	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	1233.816	10903.507	434.619	915.408279	$0.06	$0.09	D	E
SJD	Single Family	Central Heat	Electric	Stock	New	14693.7	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	249.793	10468.688	169.069	177.967694	$0.08	$0.11	E	F
SJD	Single Family	Central Heat	Electric	Stock	New	14693.7	Wall 2x4 R-13 to 2x6 R-19 Batt Insulation	2.6%	$ 318.00	30	50.0%	95.0%	47.5%	388.6705	10299.819	128.743	271.038424	$0.19	$0.27	F	F
SJD	Single Family	Central Heat	Electric	Stock	New	14693.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	220.4058	10170.875	72.4675	152.56313	$0.02	$0.02	A	A
SJD	Single Family	Heat Pump	Electric	Stock	New	10225.4	ENERGY STAR Programmable Thermostat (Electronic w/ Adaptive Recovery)	6.0%	$ 66.00	12	80.0%	47.3%	37.8%	613.5218	10225.364	232.108	613.521626	$0.09	$0.09	E	E
SJD	Single Family	Heat Pump	Electric	Stock	New	10225.4	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	858.4745	9993.2562	388.519	638.987623	$0.10	$0.10	E	E
SJD	Single Family	Heat Pump	Electric	Stock	New	10225.4	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	173.6312	9594.737	154.955	163.110529	$0.09	$0.10	E	E
SJD	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	9439.782	117.995	248.411493	$0.11	$0.12	F	F
SJD	Single Family	Heat Pump	Electric	Stock	New	10225.4	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	153.3605	9321.7865	66.4177	139.826798	$0.27	$0.30	F	F
SJD	Single Family	Heat Pump	Electric	Stock	New	10225.4	Geothermal Heat Pump (4 Ton, w/ water heating)	51.9%	$ 15,000.00	18	25.0%	99.0%	24.8%	5310.565	9255.3688	1189.68	4806.79587	$0.32	$0.35	F	F
SJD	Single Family	Lighting Bulbs	Electric	Stock	New	2004	CFL, 6.0 hr/day	21.3%	$ 4.50	5	100.0%	69.3%	69.3%	426.9786	2004	265.802	429.978638	$0.01	$0.01	A	A
SJD	Single Family	Lighting Bulbs	Electric	Stock	New	2004	CFL, 2.5 hr/day	39.3%	$ 4.50	7	100.0%	89.0%	89.0%	787.005	2004	700.733	787.004977	$0.02	$0.02	A	A
SJD	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	83.0392	88.5600728	$0.12	$0.12	F	F
SJD	Single Family	Lighting Fixtures	Electric	Stock	New	2004	CFL Fixtures, 6.0 hr/day	21.3%	$ 23.33	8	100.0%	69.3%	69.3%	426.9786	2004	295.802	426.978638	$0.02	$0.02	A	A
SJD	Single Family	Lighting Fixtures	Electric	Stock	New	2004	CFL Fixtures, 2.5 hr/day	39.3%	$ 23.33	10	100.0%	89.0%	89.0%	787.005	2004	700.733	787.004977	$0.05	$0.05	C	C
SJD	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	83.0392	88.5600728	$0.24	$0.24	F	F
SJD	Single Family	Plug Load	Electric	Stock	New	3500	Powerstrip with Occupancy Sensor	0.4%	$ 90.00	20	100.0%	100.0%	100.0%	13.57224	3500	13.5722	13.5722419	$0.71	$0.71	F	F
SJD	Single Family	Room Heat	Electric	Stock	New	14594.7	Ceiling R-19 to R-38 Insulation	8.4%	$ 812.70	30	50.0%	95.0%	47.5%	1225.308	14594.748	582.021	1225.30791	$0.06	$0.06	D	D
SJD	Single Family	Room Heat	Electric	Stock	New	14594.7	High Efficiency Windows, Low-e; U=0.35	1.7%	$ 170.00	30	100.0%	95.0%	95.0%	248.1107	14012.727	228.306	238.216355	$0.06	$0.07	D	D
SJD	Single Family	Room Heat	Electric	Stock	New	14594.7	Floor R-11 to R-19 Insulation-Batts	1.5%	$ 454.74	30	50.0%	95.0%	47.5%	218.9212	13786.421	98.2283	206.798319	$0.19	$0.20	F	F
SJD	Single Family	Water Heat	Electric	Stock	New	3447.75	Faucet Aerators	1.7%	$ 4.82	15	90.0%	73.4%	66.1%	56.88786	3447.749	37.5801	56.8878586	$0.01	$0.01	A	A
SJD	Single Family	Water Heat	Electric	Stock	New	3447.75	Energy Star Dish Washer (EF=0.58)	5.0%	$ 70.00	13	100.0%	82.4%	82.4%	172.4771	3410.1889	140.608	170.597157	$0.05	$0.06	C	C
SJD	Single Family	Water Heat	Electric	Stock	New	3447.75	Drain Water Heat Recovery (GFX)	25.0%	$ 400.00	15	35.0%	100.0%	35.0%	861.9373	3269.5627	288.087	817.390682	$0.06	$0.06	C	C
SJD	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	2983.478	168.872	397.62504	$0.09	$0.09	E	E
SJD	Single Family	Water Heat	Electric	Stock	New	3447.75	Energy Star Vertical-Axis Clothes Washer: SEHA CW Tier 2 (EF=3.25)	16.2%	$ 350.00	14	50.0%	79.0%	39.5%	557.2676	2794.8041	178.36	451.698312	$0.06	$0.10	E	E
SJD	Single Family	Water Heat	Electric	Stock	New	3447.75	Heat Pump Water Heater (EF=2.9)	50.0%	$ 1,750.00	15	40.0%	99.9%	40.0%	1723.875	2816.2442	522.726	1308.12212	$0.13	$0.17	F	F
SJD	Single Family	Water Heat	Electric	Stock	New	3447.75	Tankless Water Heater (EF=0.98)	13.1%	$ 903.00	15	10.0%	100.0%	10.0%	451.6551	2093.5186	27.4251	274.250942	$0.25	$0.41	F	F
SJD	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	$0.68	F	F

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 @ $0.05/kWh	Cumm. Savings (MWh)	Levelized CCE ($/kWh)
	Total Load	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
	Uncoded/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	5.8%	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

	Electric Market Segments	2003 Firm Consumption Total (MWh)	Savings as % of Sector Loads	Savings (MWh)	First Year MWa	Measure Cost $/kWh Saved	Total Cost ($)	Measure Life (Years)	Simple Payback @ $0.05/kWh	Cummulative Savings (MWh)	Levelized CCE ($/kWh)
	Total Load	1,334,332	10.1%	134,884	15.4	$0.216	$29,137,550	15.8	4.3	2,130,583	0.024
	Uncoded/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

	End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Technical Potential: Savings Potential MWh	First-Year CCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
Actual Forecast & Consumption		1,334,334	1,334,334	15.77			10.2%		135,839	$0.197	26,751,938	4.7	2,142,701	$0.012
kWh Forecast Ratio (Year/2003)														
Sum Total of Predicted Forecast & Consumption		1,334,334	1,334,334											
Retail Average Cost per kWh	$ 0.0418		2											
20 Food/Kindred Products														
1 HVAC	8.1%		5,556											
2 Indirect Boiler	1.7%		1,170											
3 Lighting	7.4%		5,081											
4 Other - Not Reported	8.5%		5,819											
5 Process Electro Chemical	0.2%		136											
6 Process Heat	4.9%		3,345											
7 Process Other	0.3%		176											
9 Process Cool	25.0%		17,145											
8 Process Motors	43.9%		30,081											
(Process Motors & Cooling Breakout)	*69.0%*		*47,226*											
Fan System	*5.2%*		*3,559*											
Pump System	*11.3%*		*7,749*											
Air Comp. Sys.	*5.3%*		*3,621*											
Other Systems (Mostly Refer)	*47.1%*		*32,278*											
Total Consumption (MWh)	*100.0%*	*68,490*	*68,490*											
Conservation 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%	24.4%	1,232.8	$0.25	$308,205	6.0	12,328	$0.025
Motors Technical Potential w/o Compr. Air O&M				20			13.7%	19.9%	9,379.8	$0.15	$1,395,609	3.8	187,596	$0.007
Motor Efficiency Upgrade				20			6.2%	9.1%	4,311.5	$0.15	$646,718	3.8	86,229	$0.008
Rewind Improvements				20			0.8%	1.2%	548.6	$0.15	$82,291	3.8	10,972	$0.008
Motor Downsizing				20			1.6%	2.3%	1,102.7	$0.15	$165,404	3.6	22,054	$0.008
Pump System Improvements				20			3.5%	30.5%	2,367.7	$0.15	$355,155	3.6	47,354	$0.008
Fan System Improvements				20			0.4%	6.1%	298.3	$0.15	$44,895	2.6	5,965	$0.008
Air Compressor Improvements			1.3%	20			0.8%	10.5%	378.7	$0.12	$45,450	2.9	7,575	$0.006
Other System Improvements			4.6%	20			0.5%	1.2%	371.3	$0.15	$55,697	3.8	7,426	$0.008
Refrigeration/Process Cooling Technical Potential				15	30.0%	20.0%	6.0%	24.0%	4,114.8	$0.15	$617,218	3.8	61,722	$0.010
Compressed Air O&M Technical Potential	Use 15% of the total and use as savable			2			0.8%	15.0%	543.1	$0.03	$16,294	0.7	1,086	$0.015
Total Conservation Technical Potential				*17.1*			*23.2%*	*N/A*	*15,896*		*2,618,606*		*272,108*	$0.010
24 Lumber/Wood Products														
1 HVAC	6.6%		1,777											
2 Indirect Boiler	1.4%		367											
3 Lighting	9.0%		2,429											
4 Other - Not Reported	13.5%		3,637											
5 Process Electro Chemical	0.0%		12											
6 Process Heat	3.8%		1,036											
7 Process Other	0.1%		39											
9 Process Cool	0.9%		238											
8 Process Motors	64.7%		17,467											
(Process Motors & Cooling Breakout)	*65.6%*		*17,704*											
Fan System	*8.0%*		*2,150*											
Pump System	*3.5%*		*933*											
Air Comp. Sys.	*5.4%*		*1,457*											
Other Systems	*48.7%*		*13,154*											
Total Consumption (MWh)	*100.0%*	*27,001*	*27,001*											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	0.7%	11.3%	199.8	$0.45	$89,973		2,999	$0.030
Lighting				10			0.4%	4.2%	101.3	$0.25	$25,314		1,013	$0.025
Motors Technical Potential w/o Compr. Air O&M				20			11.3%	17.2%	3,047.9	$0.15	$447,961		60,957	$0.007
Motor Efficiency Upgrade				20			2.8%	4.0%	708.4	$0.15	$105,653		14,127	$0.008
Rewind Improvements				20			1.1%	1.7%	301.3	$0.15	$45,200		6,027	$0.008
Motor Downsizing				20			2.0%	3.1%	546.2	$0.15	$81,936		10,925	$0.008
Pump System Improvements				20			1.5%	42.4%	395.8	$0.15	$59,335		7,911	$0.008
Fan System Improvements				20			0.9%	11.4%	244.9	$0.15	$36,735		4,898	$0.008
Air Compressor Improvements			2.0%	20			1.1%	20.9%	307.3	$0.12	$36,873		6,146	$0.006
Other System Improvements			2.1%	20			2.0%	4.2%	546.2	$0.15	$81,928		10,924	$0.008
Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.0%	4.0%	9.5	$0.15	$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
Total Conservation Technical Potential				*18.3*			*27.2%*	*N/A*	*3,578.8*		*571,275*		*65,552*	$0.009

From Opportunities for Industrial Motor Systems in the Pacific

From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Easton Consultants

	End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Technical Potential Savings Potential MWh	First-Year CCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
26 Paper/Allied Products														
1 HVAC	9.4%		8,482											
2 Indirect Boiler	1.4%		1,289											
3 Lighting	8.8%		7,993											
4 Other - Not Reported	5.9%		5,373											
5 Process Electro Chemical	0.4%		336											
6 Process Heat	6.4%		5,765											
7 Process Other	0.3%		273											
9 Process Cool	3.2%		2,900											
8 Process Motors	64.2%		58,233											
(Process Motors & Cooling Breakout)	*67.4%*		*61,132*											
Fan System	*13.3%*		*12,081*											
Pump System	*21.2%*		*19,218*											
Air Comp. Sys.	*3.1%*		*2,783*											
Other Systems (Mostly Refer)	*29.9%*		*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%	878.3	$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	$0.15	$2,098,973		281,000	$0.007
Motor Efficiency Upgrade				20			5.3%	7.9%	4,801.0	$0.15	$720,151		96,020	$0.008
Rewind Improvements				20			0.9%	1.3%	791.4	$0.15	$118,711		15,828	$0.008
Motor Downsizing				20			0.9%	1.3%	773.1	$0.15	$115,961		15,465	$0.008
Pump System Improvements				20			8.3%	29.8%	5,725.6	$0.15	$858,868		114,532	$0.008
Fan 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
Other System Improvements				20			0.3%	2.5%	684.5	$0.15	$102,689		13,689	$0.008
Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.1%	4.0%	116.0	$0.15	$17,402		1,740	$0.010
Compressed Air O&M Technical Potential				2			0.5%	15.0%	417.4	$0.03	$12,522		835	$0.015
Total Conservation Technical Potential				***18.8***			***17.9%***	***N/A***	***16,213.8***		***2,727,362***		***304,651***	***$0.009***
27 Printing/Publishing														
1 HVAC	19.9%		27,236											
2 Indirect Boiler	0.4%		544											
3 Lighting	12.8%		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	0.2%		221											
9 Process Cool	4.1%		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.	*3.5%*		*4,851*											
Other Systems (Mostly Refer)	*37.0%*		*50,857*											
Total Consumption (MWh)	***100.0%***	***137,355***	***137,355***											
Conservation Technical Potential														
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	$0.15	$101,030		10,103	$0.010
Compressed Air O&M Technical Potential				2			0.5%	15.0%	742.7	$0.03	$22,281		1,485	$0.015
Total Conservation Technical Potential				***14.2***			***5.2%***	***N/A***	***7,184.7***		***2,003,736***		***101,872***	***$0.020***
28 Chemical/Allied Products														
1 HVAC	6.0%		1,925											
2 Indirect Boiler	2.6%		842											
3 Lighting	4.0%		1,302											
4 Other - Not Reported	3.8%		1,211											

From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Easton Consultants

		End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-YearCCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
						Technical Potential									
	5 Process Electro Chemical	4.4%		1,402											
	6 Process Heat	6.3%		2,039											
	7 Process Other	1.1%		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	*8.9%*		*2,744*											
	Pump System	*16.7%*		*4,920*											
	Air Comp. Sys.	*19.9%*		*6,398*											
	Other Systems (Mostly Refer)	*34.7%*		*7,955*											
	Total Consumption (MWh)	*100.0%*	*32,204*	*32,204*											
	Conservation Technical Potential														
	HVAC				15	15.0%	25.0%	0.7%	11.3%	218.6	$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				20			5.1%	7.1%	1,648.5	$0.15	$247,282		32,971	$0.008
	Rewind Improvements				20			0.9%	1.3%	295.0	$0.15	$44,248		5,900	$0.008
	Motor Downsizing				20			1.0%	1.4%	332.7	$0.15	$49,901		6,653	$0.008
	Pump System Improvements				20			5.6%	29.8%	1,782.2	$0.15	$268,836		35,644	$0.008
	Fan System Improvements				20			0.7%	9.3%	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
	Other System Improvements				20			0.5%	1.9%	145.0	$0.15	$21,743		2,899	$0.008
	Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.3%	4.0%	89.5	$0.15	$13,424		1,342	$0.010
	Compressed Air O&M Technical Potential				2			3.0%	15.0%	959.8	$0.03	$28,795		1,920	$0.015
	Total Conservation Technical Potential				*15.8*			*20.5%*	*N/A*	*6,616.9*		*947,836*		*111,006*	$0.009

From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Easton Consultants

29 Petroleum Related

		End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-YearCCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
	1 HVAC	2.7%		39											
	2 Indirect Boiler	1.6%		24											
	3 Lighting	2.7%		40											
	4 Other - Not Reported	4.4%		65											
	5 Process Electro Chemical	0.1%		1											
	6 Process Heat	2.2%		32											
	7 Process Other	0.2%		3											
	9 Process Cool	5.4%		78											
	8 Process Motors	80.7%		1,178											
	(Process Motors & Cooling Breakout)	*86.1%*		*1,256*											
	Fan System	*6.2%*		*179*											
	Pump System	*50.8%*		*741*											
	Air Comp. Sys.	*13.1%*		*192*											
	Other Systems (Mostly Refer)	*14.0%*		*204*											
	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	$1,286		51	$0.025
	Motors Technical Potential w/o Compr. Air O&M				20			20.5%	23.8%	299.4	$0.15	$44,821		5,988	$0.007
	Motor Efficiency Upgrade				20			5.5%	6.4%	80.9	$0.15	$12,130		1,617	$0.008
	Rewind Improvements				20			0.9%	1.0%	12.8	$0.15	$1,922		256	$0.008
	Motor Downsizing				20			0.8%	1.0%	12.8	$0.15	$1,922		256	$0.008
	Pump System Improvements				20			11.8%	23.4%	173.6	$0.15	$26,033		3,471	$0.006
	Fan System Improvements				20			0.5%	6.8%	7.9	$0.15	$1,184		158	$0.008
	Air Compressor Improvements				20			0.7%	8.0%	9.7	$0.12	$1,162		194	$0.006
	Other System Improvements				20			0.1%	0.3%	1.8	$0.15	$259		36	$0.008
	Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.2%	4.0%	3.1	$0.15	$471		47	$0.010
	Compressed Air O&M Technical Potential				2			2.0%	15.0%	28.8	$0.03	$863		58	$0.015
	Total Conservation Technical Potential				*18.3*			*23.4%*	*N/A*	*340.8*		*49,204*		*6,210*	$0.008

From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Easton Consultants

30 Rubber/Misc. Plastics Products

		End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-YearCCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
	1 HVAC	8.2%		7,938											
	2 Indirect Boiler	0.5%		477											
	3 Lighting	7.3%		7,055											
	4 Other - Not Reported	7.3%		7,037											
	5 Process Electro Chemical	0.3%		243											
	6 Process Heat	18.1%		17,451											
	7 Process Other	0.5%		515											
	9 Process Cool	7.3%		7,052											
	8 Process Motors	50.5%		48,705											

	End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-Year CCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
(Process Motors & Cooling Breakout)	*57.1%*		*53,757*											
Fan System	*3.3%*		*3,140*											
Pump System	*14.5%*		*14,028*											
Air Compr. Sys.	*7.5%*		*7,260*											
Other Systems (Mostly Refer)	*32.5%*		*31,330*											
Total Consumption (MWh)	***100.0%***	***96,474***	***96,474***											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%		11.3%	893.1	$0.45	$401,883		13,396	$0.030
Lighting				10			1.0%	13.8%	959.9	$0.25	$239,980		9,599	$0.025
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%	564.3	$0.15	$84,627		8,463	$0.010
Compressed Air O&M Technical Potential				2			1.1%	15.0%	1,069.0	$0.03	$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	0.4%		264											
3 Lighting	3.9%		2,710											
4 Other - Not Reported	5.3%		3,732											
5 Process Electro Chemical	0.1%		78											
6 Process Heat	13.5%		9,479											
7 Process Other	0.0%		12											
9 Process Cool	1.1%		789											
8 Process Motors	72.5%		50,891											
(Process Motors & Cooling Breakout)	*73.6%*		*51,669*											
Fan System	*18.8%*		*13,249*											
Pump System	*3.0%*		*2,074*											
Air Comp. Sys.	*18.7%*		*13,104*											
Other Systems (Mostly Refer)	*33.1%*		*23,243*											
Total Consumption (MWh)	***100.0%***	***70,215***	***70,215***											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	0.4%	11.3%	255.4	$0.45	$114,924		3,831	$0.030
Lighting				10			1.2%	30.9%	838.4	$0.25	$209,593		8,384	$0.025
Motors Technical Potential w/o Compr. Air O&M			9.8%	20			7.0%	9.5%	4,884.0	$0.15	$727,717		97,680	$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	5.0%	20.0%	0.0%	4.0%	31.5	$0.15	$4,732		473	$0.010
Compressed Air O&M Technical Potential				2			2.8%	15.0%	1,965.5	$0.03	$58,966		3,931	$0.015
Total Conservation Technical Potential				***14.3***			***11.4%***	***N/A***	***7,974.9***		***1,115,933***		***114,299***	$0.010
33 Primary Metal Industries														
1 HVAC	4.2%		6,246											
2 Indirect Boiler	0.5%		730											
3 Lighting	5.2%		7,783											
4 Other - Not Reported	3.9%		5,739											
5 Process Electro Chemical	2.7%		4,039											
6 Process Heat	35.1%		52,017											
7 Process Other	0.9%		1,344											
9 Process Cool	1.5%		2,285											
8 Process Motors	46.0%		68,182											
(Process Motors & Cooling Breakout)	*47.5%*		*70,467*											
Fan System	*7.5%*		*10,757*											
Pump System	*4.1%*		*6,127*											
Air Comp. Sys.	*6.9%*		*10,104*											

	End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-Year CCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
						Technical Potential								
Other Systems (Mostly Refer)	29.3%		43,478											
Total Consumption (MWh)	100.0%	148,364	148,364											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	0.5%	11.3%	702.7	$0.45	$316,210		10,540	$0.030
Lighting				10			0.6%	12.0%	937.7	$0.25	$234,416		9,377	$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
Motor Efficiency Upgrade				20			6.0%	12.7%	8,934.5	$0.15	$1,340,176		178,690	$0.008
Rewind Improvements				20			0.9%	1.8%	1,292.7	$0.15	$194,081		25,875	$0.008
Motor Downsizing				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	$387,888		51,720	$0.008
Fan System Improvements				20			0.9%	13.0%	1,293.7	$0.15	$194,081		25,875	$0.008
Air Compressor Improvements				20			1.4%	21.1%	2,128.2	$0.12	$255,379		42,563	$0.006
Other System Improvements				20			1.2%	4.1%	1,789.9	$0.15	$268,478		35,797	$0.008
Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.1%	4.0%	91.4	$0.15	$13,710		1,371	$0.010
Compressed Air O&M Technical Potential				2			1.0%	15.0%	1,515.7	$0.03	$45,470		3,031	$0.015
Total Conservation Technical Potential				*18.2*			*15.4%*	*N/A*	*22,918.8*		3,496,665		*417,747*	$0.008
34 Fabricated Metal Products														
1 HVAC	10.1%		4,915											
2 Indirect Boiler	1.1%		538											
3 Lighting	11.0%		5,340											
4 Other - Not Reported	8.5%		4,115											
5 Process Electro Chemical	4.5%		2,192											
6 Process Heat	12.5%		6,102											
7 Process Other	0.8%		393											
9 Process Cool	2.2%		1,067											
8 Process Motors	49.3%		23,979											
(Process Motors & Cooling Breakout)	51.5%		25,045											
Fan System	4.3%		2,086											
Pump System	6.4%		3,089											
Air Compr. Sys.	12.5%		6,093											
Other Systems (Mostly Refer)	28.3%		13,749											
Total Consumption (MWh)	*100.0%*	*48,639*	*48,639*											
Conservation Technical Potential														
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				20			1.9%	3.8%	944.2	$0.15	$140,688		18,884	$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	5.0%	20.0%	0.1%	4.0%	42.7	$0.15	$8,398		640	$0.010
Compressed Air O&M Technical Potential				2			1.9%	15.0%	914.9	$0.03	$27,447		1,830	$0.015
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	19.4%		5,312											
2 Indirect Boiler	0.6%		156											
3 Lighting	14.9%		4,076											
4 Other - Not Reported	11.4%		3,127											
5 Process Electro Chemical	0.3%		92											
6 Process Heat	8.3%		2,277											
7 Process Other	0.8%		215											
9 Process Cool	3.3%		901											
8 Process Motors	40.8%		11,158											
(Process Motors & Cooling Breakout)	44.1%		12,059											
Fan System	3.1%		840											
Pump System	5.8%		1,583											
Air Comp. Sys.	7.8%		1,916											
Other Systems (Mostly Refer)	28.3%		7,719											
Total Consumption (MWh)	*100.0%*	*27,315*	*27,315*											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	2.2%	11.3%	597.6	$0.45	$268,907		8,964	$0.030

From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Easton Consultants

	End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-Year CCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
							Technical Potential							
Lighting				10			2.8%	19.1%	777.1	$0.25	$194,278		7,771	$0.025
Motors Technical Potential w/o Compr. Air O&M				20			4.0%	9.0%	1,084.8	$0.15	$161,605		21,692	$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	5.0%	20.0%	0.1%	4.0%	36.0	$0.15	$5,407		541	$0.010
Compressed Air O&M Technical Potential				2			1.1%	15.0%	287.4	$0.03	$8,623		575	$0.015
Total Conservation Technical Potential				***14.2***			***10.2%***	***N/A***	***2,782.8***		***638,819***		***39,542***	***$0.016***
36 Electric/Electronic Equip.														
1 HVAC	21.9%		$3,551											
2 Indirect Boiler	0.6%		1,575											
3 Lighting	13.3%		32,535											
4 Other - Not Reported	7.9%		19,212											
5 Process Electro Chemical	4.0%		9,893											
6 Process Heat	16.5%		40,448											
7 Process Other	0.8%		1,877											
9 Process Cool	5.8%		14,089											
8 Process Motors	29.2%		71,335											
(Process Motors & Cooling Breakout)	*34.9%*		*86,424*											
Fan System	*5.9%*		*2,180*											
Pump System	*20.4%*		*49,975*											
Air Comp. Sys.	*7.9%*		*19,402*											
Other Systems (Mostly Refer)	*5.7%*		*13,867*											
Total Consumption (MWh)	***100.0%***	***244,515***	***244,515***											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	2.5%	11.3%	6,024.5	$0.45	$2,711,005		90,367	$0.030
Lighting				10			2.8%	21.3%	6,941.8	$0.25	$1,735,445		69,418	$0.025
Motors Technical Potential w/o Compr. Air O&M				20			3.5%	10.0%	8,562.0	$0.15	$1,278,713		171,639	$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%	0.5%	8.0%	1,127.1	$0.15	$169,066		16,907	$0.010
Compressed Air O&M Technical Potential				2			1.2%	15.0%	2,910.4	$0.03	$87,311		5,821	$0.015
Total Conservation Technical Potential				***13.8***			***10.5%***	***N/A***	***25,585.7***		***5,981,540***		***354,151***	***$0.017***
37 Transporation Equipment														
1 HVAC	20.6%		24,299											
2 Indirect Boiler	0.4%		495											
3 Lighting	20.6%		24,377											
4 Other - Not Reported	9.2%		10,894											
5 Process Electro Chemical	1.6%		1,886											
6 Process Heat	8.8%		10,451											
7 Process Other	1.8%		2,169											
9 Process Cool	3.8%		4,518											
8 Process Motors	33.1%		39,148											
(Process Motors & Cooling Breakout)	*38.9%*		*46,664*											
Fan System	*9.0%*		*9,475*											
Pump System	*6.9%*		*8,152*											
Air Comp. Sys.	*6.9%*		*8,156*											
Other Systems (Mostly Refer)	*15.1%*		*17,892*											
Total Consumption (MWh)	***100.0%***	***118,237***	***118,237***											
Conservation Technical Potential														
HVAC				15	15.0%	25.0%	2.3%	11.3%	2,733.7	$0.45	$1,230,159		41,005	$0.030
Lighting				10			2.2%	10.5%	2,555.1	$0.25	$638,774		25,551	$0.025
Motors Technical Potential w/o Compr. Air O&M				20			1.7%	4.5%	1,952.7	$0.15	$290,955		39,054	$0.007
Motor Efficiency Upgrade														
Rewind Improvements														

		End-Use Shares	Firm MWh	Load Breakdown	Measure Life	% Savings Potential	Market Saturation	Technical Potential % Industrial Load	Technical Potential % End Use	Savings Potential MWh	First-Year CCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
From Opportun. Industrial Motor Systems in the Northwest - 19 Xenergy & Eas. Consultants	*Motor Downsizing*														
	Pump System Improvements														
	Fan System Improvements														
	Air Compressor Improvements														
	Other System Improvements														
	Refrigeration/Process Cooling Technical Potential				15	5.0%	20.0%	0.2%	4.0%	180.6	$0.15	$27,097		2,710	$0.010
	Compressed Air O&M Technical Potential				2			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%		290											
	3 Lighting	19.1%		2,473											
	4 Other - Not Reported	7.4%		961											
	5 Process Electro Chemical	0.8%		104											
	6 Process Heat	6.8%		882											
	7 Process Other	1.6%		202											
	9 Process Cool	7.6%		986											
	8 Process Motors	27.8%		3,604											
	(Process Motors & Cooling Breakout)	*35.4%*		*4,589*											
	Fan System	*7.0%*		*913*											
	Pump System	*3.2%*		*420*											
	Air Comp. Sys.	*3.9%*		*510*											
	Other Systems (Mostly Refer)	*21.2%*		*2,746*											
	Total Consumption (MWh)	***100.0%***	***12,973***	***12,973***											
	Conservation Technical Potential														
	HVAC				15	15.0%	25.0%	0.03	11.3%	392.9	$0.45	$176,788		5,893	$0.030
	Lighting				10			1.7%	8.8%	217.2	$0.25	$54,294		2,172	$0.025
	Motors Technical Potential w/o Compr. Air O&M				20			1.1%	3.2%	146.4	$0.15	$21,817		2,928	$0.007
From Opportunities for Industrial Motor Systems in the Pacific Northwest - 1999 - Xenergy & Eastor Consultants	*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%	78.4	$0.15	$11,827		1,183	$0.010
	Compressed Air O&M Technical Potential				2			0.6%	15.0%	76.5	$0.03	$2,295		153	$0.015
	Total Conservation Technical Potential				*13.5*			7.0%	*N/A*	*911.8*		*267,020*		*12,329*	$0.022
39 Miscellaneous															
	1 HVAC	16.8%		32,940											
	2 Indirect Boiler	0.6%		1,195											
	3 Lighting	16.1%		31,498											
	4 Other - Not Reported	12.2%		24,011											
	5 Process Electro Chemical	0.8%		1,652											
	6 Process Heat	11.2%		22,007											
	7 Process Other	0.3%		562											
	9 Process Cool	5.0%		9,808											
	8 Process Motors	36.9%		72,348											
	(Process Motors & Cooling Breakout)	*41.9%*		*82,156*											
	Fan System	*5.7%*		*11,240*											
	Pump System	*10.4%*		*20,372*											
	Air Comp. Sys.	*6.6%*		*12,959*											
	Other Systems (Mostly Refer)	*19.2%*		*37,644*											
	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				10			0.4%	2.2%	705.7	$0.25	$176,419		7,057	$0.025
	Motors Technical Potential w/o Compr. Air O&M			0.6%	20			0.0%	0.1%	70.0	$0.15	$10,430		1,400	$0.007
on Opportunities for ustrial Motor ystems in the Pacific orthwest - 1999 - nergy & Eastor nsultants	*Motor Efficiency Upgrade*														
	Rewind Improvements														
	Motor Downsizing														
	Pump System Improvements														
	Fan System Improvements														
	Air Compressor Improvements														

Fn Inx Sy Nc Xp Co	End-Use Shares	Firm MWh	Load Breakdown	Technical Potential: Measure Life	% Savings Potential	Market Saturation	% Industrial Load	% End Use	Savings Potential MWh	First-YearCCE $/kWh	Total Cost ($)	Simple Payback @$0.05/kWh	Cumm. Savings (MWh)	CCE ($/kWh)
Other System Improvements														
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%		3,358											
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 Breakdown)	*41.9%*		*6,041*											
Fan System	*5.7%*		*827*											
Pump System	*10.4%*		*1,498*											
Air Compr. 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 85% 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" Potential					
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
Sum of End-Uses		520,212	1,106,655	469,927	798,372
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

	MAX	Total			
		Summer Off	Summer On	Winter Off	Winter 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

Sector/Segment	Gross Potential by Sector, End-Use, and Period (kW)												
	Heating				Cooling				Water Heating				
	Summer Off	Summer On	Winter Off	Winter On	Summer 08-10	Summer 17-21	Winter 08-10	Winter 17-21	Summer 08-10	Summer 17-21	Winter 08-10	Winter 17-21	Summer 08-10
Industrial 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

Lighting			Other				Plug Load				Ventilation			
Summer 17-21	Winter 08-10	Winter 17-21	Summer 08-10	Summer 17-21	Winter 08-10	Winter 17-21	Summer 08-10	Summer 17-21	Winter 08-10	Winter 17-21	Summer 08-10	Summer 17-21	Winter 08-10	Winter 17-21
-	-	-	160,402	173,501	145,383	159,313	-	-	-	-	-	-	-	-
15,854	3,416	14,669	1,099	3,208	410	2,311	1,513	4,332	778	3,937	1,544	4,626	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
14,086	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	2,658	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	886
49,705	26,252	48,866	12,916	45,047	12,121	12,533	96,293	148,894	83,709	145,925	-	-	-	-

Technical Load Impact		Class 1: Firm: Direct Load Control							Participation	LOAD	EVENT
		0%	50%	25%	0%	0%	0%			25%	100%
		% Achievable									
Sector/Segment	% Eligible Load	Heat	Cool	HW	Light	Other	Plug Load	Ventilation		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: Firm: Curtailment Contracts							Participation	LOAD	EVENT
		25%	5%	25%	25%	0%	0%		25%	90%
		% Achievable								
	% Eligible Load: kW>250	Heat	Cool	HW	Light	Other	Plug Load	Ventilation	Technical Potential kW	Achievable Potential kW
Industrial	80%	20%	4%	20%	20%	0%	0%	0%	-	-
Commercial: Education	50%	13%	3%	13%	13%	0%	0%	0%	2,588	582
Commercial: Food Stores	70%	18%	4%	18%	18%	0%	0%	0%	3,264	734
Commercial: Hospitals	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Hotels/Motels	12%	3%	1%	3%	3%	0%	0%	0%	231	52
Commercial: Misc	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Offices	50%	13%	3%	13%	13%	0%	0%	0%	6,104	1,373
Commercial: Restaurants	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Retail	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Warehouses	40%	10%	2%	10%	10%	0%	0%	0%	741	167
Residential	0%	0%	0%	0%	0%	0%	0%	0%	-	-

*** 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: 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
Industrial	100%		3.00%	5,205	1,822
Commercial: Education	100%		3.00%	1,195	418
Commercial: Food Stores	0%		0.00%	-	-
Commercial: Hospitals	0%		0.00%	-	-
Commercial: Hotels/Motels	0%		0.00%	-	-
Commercial: Misc	0%		0.00%	-	-
Commercial: Offices	100%		3.00%	3,059	1,071
Commercial: Restaurants	0%		0.00%	-	-
Commercial: Retail	0%		0.00%	-	-
Commercial: Warehouses	0%		0.00%	-	-
Residential	100%		6.00%	33,067	11,574

* 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: Non-Firm: DBB

								Participation	LOAD	EVENT
		25%	25%	25%	25%	0%	0%		100%	30%
		% Achievable								
	% Eligible Load: kW>250	Heat	Cool	HW	Light	Other	Plug Load	Ventilation	Technical Potential kW	Achievable Potential kW
Industrial	80%	20%	20%	20%	20%	0%	0%	0%	-	-
Commercial: Education	50%	13%	13%	13%	13%	0%	0%	0%	3,470	1,041
Commercial: Food Stores	70%	18%	18%	18%	18%	0%	0%	0%	4,347	1,304
Commercial: Hospitals	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Hotels/Motels	12%	3%	3%	3%	3%	0%	0%	0%	374	112
Commercial: Misc	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Offices	50%	13%	13%	13%	13%	0%	0%	0%	10,225	3,067
Commercial: Restaurants	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Retail	0%	0%	0%	0%	0%	0%	0%	0%	-	-
Commercial: Warehouses	40%	10%	10%	10%	10%	0%	0%	0%	845	253
Residential	0%	0%	0%	0%	0%	0%	0%	0%	-	-

** 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: Non-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
Industrial	100%		12%	20,820	7,808
Commercial: Education	100%		12%	4,782	1,793
Commercial: Food Stores	100%		12%	7,619	2,857
Commercial: Hospitals	100%		12%	11,145	4,179
Commercial: Hotels/Motels	100%		12%	2,088	783
Commercial: Misc	100%		12%	5,221	1,958
Commercial: Offices	100%		12%	12,237	4,589
Commercial: Restaurants	100%		12%	3,686	1,382
Commercial: Retail	100%		12%	8,189	3,071
Commercial: Warehouses	100%		12%	2,180	817
Residential	0%		0%	-	-

Technical Potential, By EndUse

Sector/Segment	Combined Technical Potential								
	Heat	Cool	HW	Light	Other	Plug Load	Ventilation	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 of System Peak							12.0%	13.3%

Achievable Potential, By EndUse

Combined Achievable Potential								
Heat	Cool	HW	Light	Refrig	Plug Load	Process	Achievable Potential by Strategy	Achievable Potential by 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 System Peak							3.7%	4.0%

Technical Potential Summary (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 Potential Summary (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

Program Name:	Residential Lighting							
Key Program Inputs								
Program Year	Participants	Utility Costs	Participant Costs	Energy Impacts	Impacts (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	-	$ -	$ -	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	-	$ -	$ -	-	-			
2021	-	$ -	$ -	-	-			
2022	-	$ -	$ -	-	-			
2023	-	$ -	$ -	-	-			
2024	-	$ -	$ -	-	-			
2025	-	$ -	$ -	-	-			

Cost-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 246,445	$ 89,478	$ 164,063	$ 89,478	$ 82,383	$ 190,407	$ 354,470	$ 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	$ -	$ 1,083,354	$ -	$ 1,083,354	$ -	$ 1,923,305	$ 1,923,305	$ 1,083,354
2013	$ -	$ 964,141	$ -	$ 964,141	$ -	$ 1,711,664	$ 1,711,664	$ 964,141
2014	$ -	$ 759,082	$ -	$ 759,082	$ -	$ 1,347,616	$ 1,347,616	$ 759,082
2015	$ -	$ 483,443	$ -	$ 483,443	$ -	$ 858,268	$ 858,268	$ 483,443
2016	$ -	$ 350,090	$ -	$ 350,090	$ -	$ 621,523	$ 621,523	$ 350,090
2017	$ -	$ 184,082	$ -	$ 184,082	$ -	$ 326,805	$ 326,805	$ 184,082
2018	$ -	$ 27,691	$ -	$ 27,691	$ -	$ 49,160	$ 49,160	$ 27,691
2019	$ -	$ 15,178	$ -	$ 15,178	$ -	$ 26,947	$ 26,947	$ 15,178
2020	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2021	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2024	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2025	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2026	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2027	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2028	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2029	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2030	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2031	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2032	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2033	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2034	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2035	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NPV	$1,692,372	$4,686,281	$1,062,611	$4,686,281	$629,761	$8,956,227	$10,018,838	$4,686,281
0	Net Benefits	$2,993,909	Net Benefits	$3,623,670	Net Benefits	$8,326,466	Net Benefits	($5,332,557)
0	B/C Ratio	2.77	B/C Ratio	4.41	B/C Ratio	14.22	B/C Ratio	0.47

Program Name:	Residential Thermal Envelope Improvements							
Key Program Inputs								
Program Year	Participants	Utility Costs	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			
2020	-	$ -	$ -	8,147,790	1,731			
2021	-	$ -	$ -	8,147,790	1,731			
2022	-	$ -	$ -	8,147,790	1,731			
2023	-	$ -	$ -	8,147,790	1,731			
2024	-	$ -	$ -	8,147,790	1,731			
2025	-	$ -	$ -	8,147,790	1,731			

Cost-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 669,175	$ 56,381	$ 376,992	$ 56,381	$ 292,183	$ 113,327	$ 490,319	$ 56,381
2007	$ 912,239	$ 122,139	$ 501,161	$ 122,139	$ 411,078	$ 280,829	$ 781,990	$ 122,139
2008	$ 1,159,687	$ 239,814	$ 627,643	$ 239,814	$ 532,044	$ 508,689	$ 1,136,332	$ 239,814
2009	$ 1,186,190	$ 474,809	$ 642,920	$ 474,809	$ 543,270	$ 762,032	$ 1,404,952	$ 474,809
2010	$ 1,216,779	$ 563,151	$ 660,535	$ 563,151	$ 556,244	$ 1,046,067	$ 1,706,602	$ 563,151
2011	$ -	$ 658,146	$ -	$ 658,146	$ -	$ 1,060,255	$ 1,060,255	$ 658,146
2012	$ -	$ 662,928	$ -	$ 662,928	$ -	$ 1,065,499	$ 1,065,499	$ 662,928
2013	$ -	$ 659,954	$ -	$ 659,954	$ -	$ 1,056,878	$ 1,056,878	$ 659,954
2014	$ -	$ 641,786	$ -	$ 641,786	$ -	$ 1,021,181	$ 1,021,181	$ 641,786
2015	$ -	$ 611,508	$ -	$ 611,508	$ -	$ 963,881	$ 963,881	$ 611,508
2016	$ -	$ 597,036	$ -	$ 597,036	$ -	$ 935,336	$ 935,336	$ 597,036
2017	$ -	$ 575,138	$ -	$ 575,138	$ -	$ 894,032	$ 894,032	$ 575,138
2018	$ -	$ 551,083	$ -	$ 551,083	$ -	$ 849,367	$ 849,367	$ 551,083
2019	$ -	$ 557,114	$ -	$ 557,114	$ -	$ 858,135	$ 858,135	$ 557,114
2020	$ -	$ 562,455	$ -	$ 562,455	$ -	$ 865,702	$ 865,702	$ 562,455
2021	$ -	$ 579,329	$ -	$ 579,329	$ -	$ 891,674	$ 891,674	$ 579,329
2022	$ -	$ 596,709	$ -	$ 596,709	$ -	$ 918,424	$ 918,424	$ 596,709
2023	$ -	$ 614,610	$ -	$ 614,610	$ -	$ 945,976	$ 945,976	$ 614,610
2024	$ -	$ 633,048	$ -	$ 633,048	$ -	$ 974,356	$ 974,356	$ 633,048
2025	$ -	$ 652,040	$ -	$ 652,040	$ -	$ 1,003,586	$ 1,003,586	$ 652,040
2026	$ -	$ 657,855	$ -	$ 657,855	$ -	$ 1,012,050	$ 1,012,050	$ 657,855
2027	$ -	$ 657,918	$ -	$ 657,918	$ -	$ 1,011,987	$ 1,011,987	$ 657,918
2028	$ -	$ 651,625	$ -	$ 651,625	$ -	$ 1,002,484	$ 1,002,484	$ 651,625
2029	$ -	$ 643,972	$ -	$ 643,972	$ -	$ 990,892	$ 990,892	$ 643,972
2030	$ -	$ 634,851	$ -	$ 634,851	$ -	$ 977,038	$ 977,038	$ 634,851
2031	$ -	$ 653,896	$ -	$ 653,896	$ -	$ 1,006,349	$ 1,006,349	$ 653,896
2032	$ -	$ 673,513	$ -	$ 673,513	$ -	$ 1,036,539	$ 1,036,539	$ 673,513
2033	$ -	$ 693,719	$ -	$ 693,719	$ -	$ 1,067,635	$ 1,067,635	$ 693,719
2034	$ -	$ 714,530	$ -	$ 714,530	$ -	$ 1,099,664	$ 1,099,664	$ 714,530
2035	$ -	$ 735,966	$ -	$ 735,966	$ -	$ 1,132,654	$ 1,132,654	$ 735,966
NPV	$4,093,084	$6,030,779	$2,237,597	$6,030,779	$1,855,487	$9,770,625	$12,008,222	$6,030,779
0	Net Benefits	$1,937,694	Net Benefits	$3,793,182	Net Benefits	$7,915,137	Net Benefits	($5,977,443)
0	B/C Ratio	1.47	B/C Ratio	2.70	B/C Ratio	5.27	B/C Ratio	0.50

Program Name:	Residential Space Heating & Cooling							
Key Program Inputs:								
Program Year	Participants	Utility Costs	Participant Costs	Energy Impacts	Impacts (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	-	$ -	$ -	4,260,006	1,406			
2012	-	$ -	$ -	4,260,006	1,406			
2013	-	$ -	$ -	4,260,006	1,406			
2014	-	$ -	$ -	4,260,006	1,406			
2015	-	$ -	$ -	4,260,006	1,406			
2016	-	$ -	$ -	4,260,006	1,406			
2017	-	$ -	$ -	4,260,006	1,406			
2018	-	$ -	$ -	4,260,006	1,406			
2019	-	$ -	$ -	4,260,006	1,406			
2020	-	$ -	$ -	4,260,006	1,406			
2021	-	$ -	$ -	4,260,006	1,406			
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-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 208,300	$ 15,055	$ 29,200	$ 15,055	$ 179,100	$ 33,685	$ 62,885	$ 15,055
2007	$ 314,360	$ 25,729	$ 39,740	$ 25,729	$ 274,620	$ 87,896	$ 127,636	$ 25,729
2008	$ 423,734	$ 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	$ -	$ 194,672	$ -	$ 194,672	$ -	$ 390,439	$ 390,439	$ 194,672
2016	$ -	$ 200,512	$ -	$ 200,512	$ -	$ 402,152	$ 402,152	$ 200,512
2017	$ -	$ 206,527	$ -	$ 206,527	$ -	$ 414,216	$ 414,216	$ 206,527
2018	$ -	$ 212,723	$ -	$ 212,723	$ -	$ 426,643	$ 426,643	$ 212,723
2019	$ -	$ 219,105	$ -	$ 219,105	$ -	$ 439,442	$ 439,442	$ 219,105
2020	$ -	$ 225,678	$ -	$ 225,678	$ -	$ 452,626	$ 452,626	$ 225,678
2021	$ -	$ 232,448	$ -	$ 232,448	$ -	$ 466,204	$ 466,204	$ 232,448
2022	$ -	$ 239,422	$ -	$ 239,422	$ -	$ 480,190	$ 480,190	$ 239,422
2023	$ -	$ 246,605	$ -	$ 246,605	$ -	$ 494,596	$ 494,596	$ 246,605
2024	$ -	$ 225,409	$ -	$ 225,409	$ -	$ 452,087	$ 452,087	$ 225,409
2025	$ -	$ 187,014	$ -	$ 187,014	$ -	$ 375,079	$ 375,079	$ 187,014
2026	$ -	$ 129,427	$ -	$ 129,427	$ -	$ 259,582	$ 259,582	$ 129,427
2027	$ -	$ 67,176	$ -	$ 67,176	$ -	$ 134,729	$ 134,729	$ 67,176
2028	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2029	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2030	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2031	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2032	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2033	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2034	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2035	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NPV	$1,438,442	$1,579,758	$178,015	$1,579,758	$1,260,427	$3,269,438	$3,447,453	$1,579,758
0	Net Benefits	$141,316	Net Benefits	$1,401,744	Net Benefits	$2,009,011	Net Benefits	($1,867,694)
0	B/C Ratio	1.10	B/C Ratio	8.87	B/C Ratio	2.59	B/C Ratio	0.46

Program Name:	Residential Programmable Thermostat & HVAC Maintenance							
Key Program Inputs:								
Program Year	Participants	Utility Costs	Participant Costs	Energy Impacts	Impacts (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	-	$ -	$ -	3,724,401	1,003			
2014	-	$ -	$ -	3,724,401	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	-	$ -	$ -	544,052	139			
2022	-	$ -	$ -	-	-			
2023	-	$ -	$ -	-	-			
2024	-	$ -	$ -	-	-			
2025	-	$ -	$ -	-	-			

Cost-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 135,272	$ 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	$ 236,836	$ 57,973	$ 133,555	$ 57,973	$ 103,281	$ 144,548	$ 278,103	$ 57,973
2009	$ 240,985	$ 128,543	$ 136,195	$ 128,543	$ 104,790	$ 216,826	$ 353,021	$ 128,543
2010	$ 245,545	$ 151,449	$ 139,046	$ 151,449	$ 106,499	$ 294,451	$ 433,497	$ 151,449
2011	$ -	$ 173,498	$ -	$ 173,498	$ -	$ 303,284	$ 303,284	$ 173,498
2012	$ -	$ 178,703	$ -	$ 178,703	$ -	$ 312,383	$ 312,383	$ 178,703
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	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2024	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2025	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2026	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2027	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2028	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2029	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2030	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
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
0	Net Benefits	$283,750	Net Benefits	$633,157	Net Benefits	$1,670,535	Net Benefits	($1,386,785)
0	B/C Ratio	1.34	B/C Ratio	2.32	B/C Ratio	5.78	B/C Ratio	0.45

Program Name:	Residential New Construction							
Key Program Inputs								
Program Year	Participants	Utility Costs	Participant Costs	Energy Impacts	Impacts (Avg. Max)			
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			
2011	-	$ -	$ -	5,311,487	997			
2012	-	$ -	$ -	5,162,447	975			
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-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 259,238	$ 24,956	$ 134,680	$ 24,956	$ 124,558	$ 51,948	$ 186,628	$ 24,956
2007	$ 338,977	$ 48,394	$ 172,900	$ 48,394	$ 166,077	$ 124,848	$ 297,748	$ 48,394
2008	$ 418,736	$ 91,589	$ 211,140	$ 91,589	$ 207,596	$ 220,446	$ 431,586	$ 91,589
2009	$ 419,436	$ 183,502	$ 211,840	$ 183,502	$ 207,596	$ 321,667	$ 533,507	$ 183,502
2010	$ 420,157	$ 212,500	$ 212,561	$ 212,500	$ 207,596	$ 428,763	$ 641,324	$ 212,500
2011	$ -	$ 247,953	$ -	$ 247,953	$ -	$ 432,524	$ 432,524	$ 247,953
2012	$ -	$ 248,350	$ -	$ 248,350	$ -	$ 432,999	$ 432,999	$ 248,350
2013	$ -	$ 246,309	$ -	$ 246,309	$ -	$ 429,138	$ 429,138	$ 246,309
2014	$ -	$ 230,330	$ -	$ 230,330	$ -	$ 400,526	$ 400,526	$ 230,330
2015	$ -	$ 208,403	$ -	$ 208,403	$ -	$ 361,347	$ 361,347	$ 208,403
2016	$ -	$ 189,174	$ -	$ 189,174	$ -	$ 326,950	$ 326,950	$ 189,174
2017	$ -	$ 168,284	$ -	$ 168,284	$ -	$ 289,597	$ 289,597	$ 168,284
2018	$ -	$ 146,465	$ -	$ 146,465	$ -	$ 250,586	$ 250,586	$ 146,465
2019	$ -	$ 146,465	$ -	$ 146,465	$ -	$ 250,253	$ 250,253	$ 146,465
2020	$ -	$ 145,407	$ -	$ 145,407	$ -	$ 248,012	$ 248,012	$ 145,407
2021	$ -	$ 144,610	$ -	$ 144,610	$ -	$ 246,203	$ 246,203	$ 144,610
2022	$ -	$ 143,503	$ -	$ 143,503	$ -	$ 243,827	$ 243,827	$ 143,503
2023	$ -	$ 142,062	$ -	$ 142,062	$ -	$ 240,843	$ 240,843	$ 142,062
2024	$ -	$ 141,617	$ -	$ 141,617	$ -	$ 240,031	$ 240,031	$ 141,617
2025	$ -	$ 139,642	$ -	$ 139,642	$ -	$ 236,623	$ 236,623	$ 139,642
2026	$ -	$ 131,098	$ -	$ 131,098	$ -	$ 222,146	$ 222,146	$ 131,098
2027	$ -	$ 119,976	$ -	$ 119,976	$ -	$ 203,299	$ 203,299	$ 119,976
2028	$ -	$ 106,069	$ -	$ 106,069	$ -	$ 179,734	$ 179,734	$ 106,069
2029	$ -	$ 98,958	$ -	$ 98,958	$ -	$ 167,684	$ 167,684	$ 98,958
2030	$ -	$ 91,325	$ -	$ 91,325	$ -	$ 154,750	$ 154,750	$ 91,325
2031	$ -	$ 94,065	$ -	$ 94,065	$ -	$ 159,393	$ 159,393	$ 94,065
2032	$ -	$ 96,887	$ -	$ 96,887	$ -	$ 164,174	$ 164,174	$ 96,887
2033	$ -	$ 99,793	$ -	$ 99,793	$ -	$ 169,100	$ 169,100	$ 99,793
2034	$ -	$ 102,787	$ -	$ 102,787	$ -	$ 174,172	$ 174,172	$ 102,787
2035	$ -	$ 105,871	$ -	$ 105,871	$ -	$ 179,398	$ 179,398	$ 105,871
NPV	$1,482,533	$1,793,380	$753,699	$1,793,380	$728,834	$3,232,987	$3,986,686	$1,793,380
0	Net Benefits	$310,847	Net Benefits	$1,039,681	Net Benefits	$2,504,153	Net Benefits	($2,193,306)
0	B/C Ratio	1.21	B/C Ratio	2.38	B/C Ratio	4.435835422	B/C Ratio	0.45

Program Name:	Residential Audit Program						
Key Program Inputs							
Program Year	Participants	Utility Costs	Participant Costs	Energy Impacts	Impacts (Avg. Max)		
2006	1,150	$ 177,751	$ -	711,526	96	-	-	-
2007	1,500	$ 222,395	$ -	1,644,876	222	-	-	-
2008	1,850	$ 267,073	$ -	2,800,047	378	-	-	-
2009	2,075	$ 295,341	$ -	4,089,160	552	-	-	-
2010	2,300	$ 323,145	$ -	5,512,212	745	-	-	-
2011	-	$ -	$ -	5,040,252	674	-	-	-
2012	-	$ -	$ -	4,419,252	581	-	-	-
2013	-	$ -	$ -	3,649,212	465	-	-	-
2014	-	$ -	$ -	2,792,232	337	-	-	-
2015	-	$ -	$ -	1,848,312	211	-	-	-
2016	-	$ -	$ -	1,827,344	209	-	-	-
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	-	-	-

Cost-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 177,751	$ 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
2008	$ 267,073	$ 85,375	$ 267,073	$ 85,375	$ -	$ 208,664	$ 475,737	$ 85,375
2009	$ 295,341	$ 171,971	$ 295,341	$ 171,971	$ -	$ 313,873	$ 609,214	$ 171,971
2010	$ 323,145	$ 206,809	$ 323,145	$ 206,809	$ -	$ 435,795	$ 758,940	$ 206,809
2011	$ -	$ 230,315	$ -	$ 230,315	$ -	$ 410,437	$ 410,437	$ 230,315
2012	$ -	$ 207,885	$ -	$ 207,885	$ -	$ 370,664	$ 370,664	$ 207,885
2013	$ -	$ 176,650	$ -	$ 176,650	$ -	$ 315,259	$ 315,259	$ 176,650
2014	$ -	$ 138,996	$ -	$ 138,996	$ -	$ 248,460	$ 248,460	$ 138,996
2015	$ -	$ 94,435	$ -	$ 94,435	$ -	$ 169,402	$ 169,402	$ 94,435
2016	$ -	$ 96,165	$ -	$ 96,165	$ -	$ 172,504	$ 172,504	$ 96,165
2017	$ -	$ 97,629	$ -	$ 97,629	$ -	$ 175,131	$ 175,131	$ 97,629
2018	$ -	$ 98,802	$ -	$ 98,802	$ -	$ 177,235	$ 177,235	$ 98,802
2019	$ -	$ 99,656	$ -	$ 99,656	$ -	$ 178,766	$ 178,766	$ 99,656
2020	$ -	$ 100,161	$ -	$ 100,161	$ -	$ 179,674	$ 179,674	$ 100,161
2021	$ -	$ 91,016	$ -	$ 91,016	$ -	$ 163,268	$ 163,268	$ 91,016
2022	$ -	$ 77,395	$ -	$ 77,395	$ -	$ 138,835	$ 138,835	$ 77,395
2023	$ -	$ 58,923	$ -	$ 58,923	$ -	$ 105,699	$ 105,699	$ 58,923
2024	$ -	$ 36,705	$ -	$ 36,705	$ -	$ 65,843	$ 65,843	$ 36,705
2025	$ -	$ 10,456	$ -	$ 10,456	$ -	$ 18,757	$ 18,757	$ 10,456
2026	$ -	$ 9,395	$ -	$ 9,395	$ -	$ 16,853	$ 16,853	$ 9,395
2027	$ -	$ 7,789	$ -	$ 7,789	$ -	$ 13,972	$ 13,972	$ 7,789
2028	$ -	$ 5,591	$ -	$ 5,591	$ -	$ 10,030	$ 10,030	$ 5,591
2029	$ -	$ 3,005	$ -	$ 3,005	$ -	$ 5,390	$ 5,390	$ 3,005
2030	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2031	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2032	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2033	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2034	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2035	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NPV	$1,022,007	$1,181,163	$1,022,007	$1,181,163	$0	$2,247,158	$3,269,165	$1,181,163
0	Net Benefits	$159,156	Net Benefits	$159,156	Net Benefits	$2,247,158	Net Benefits	($2,088,002)
0	B/C Ratio	1.16	B/C Ratio	1.16	B/C Ratio	#DIV/0!	B/C Ratio	0.36

Program Name:	Comprehensive Commercial and Industrial							
Key Program Inputs								
Program Year	Participants	Utility Costs	Participant Costs	Energy Impacts	Impacts (Avg. Max)			
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	-	$ -	$ -	39,702,276	5,297			
2021	-	$ -	$ -	39,544,399	5,271			
2022	-	$ -	$ -	39,184,511	5,215			
2023	-	$ -	$ -	37,436,997	4,974			
2024	-	$ -	$ -	34,864,783	4,625			
2025	-	$ -	$ -	31,916,346	4,225			

Cost-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	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	$ -	$ 3,499,443	$ 3,499,443	$ 2,493,338
2013	$ -	$ 2,562,115	$ -	$ 2,562,115	$ -	$ 3,597,553	$ 3,597,553	$ 2,562,115
2014	$ -	$ 2,634,810	$ -	$ 2,634,810	$ -	$ 3,700,843	$ 3,700,843	$ 2,634,810
2015	$ -	$ 2,704,893	$ -	$ 2,704,893	$ -	$ 3,800,877	$ 3,800,877	$ 2,704,893
2016	$ -	$ 2,733,906	$ -	$ 2,733,906	$ -	$ 3,831,662	$ 3,831,662	$ 2,733,906
2017	$ -	$ 2,731,932	$ -	$ 2,731,932	$ -	$ 3,812,176	$ 3,812,176	$ 2,731,932
2018	$ -	$ 2,665,818	$ -	$ 2,665,818	$ -	$ 3,709,586	$ 3,709,586	$ 2,665,818
2019	$ -	$ 2,571,748	$ -	$ 2,571,748	$ -	$ 3,573,430	$ 3,573,430	$ 2,571,748
2020	$ -	$ 2,450,677	$ -	$ 2,450,677	$ -	$ 3,405,928	$ 3,405,928	$ 2,450,677
2021	$ -	$ 2,513,583	$ -	$ 2,513,583	$ -	$ 3,494,155	$ 3,494,155	$ 2,513,583
2022	$ -	$ 2,564,768	$ -	$ 2,564,768	$ -	$ 3,566,226	$ 3,566,226	$ 2,564,768
2023	$ -	$ 2,525,503	$ -	$ 2,525,503	$ -	$ 3,509,399	$ 3,509,399	$ 2,525,503
2024	$ -	$ 2,425,843	$ -	$ 2,425,843	$ -	$ 3,366,324	$ 3,366,324	$ 2,425,843
2025	$ -	$ 2,292,189	$ -	$ 2,292,189	$ -	$ 3,174,090	$ 3,174,090	$ 2,292,189
2026	$ -	$ 2,122,933	$ -	$ 2,122,933	$ -	$ 2,930,538	$ 2,930,538	$ 2,122,933
2027	$ -	$ 1,940,397	$ -	$ 1,940,397	$ -	$ 2,668,642	$ 2,668,642	$ 1,940,397
2028	$ -	$ 1,920,757	$ -	$ 1,920,757	$ -	$ 2,639,767	$ 2,639,767	$ 1,920,757
2029	$ -	$ 1,898,140	$ -	$ 1,898,140	$ -	$ 2,606,683	$ 2,606,683	$ 1,898,140
2030	$ -	$ 1,712,011	$ -	$ 1,712,011	$ -	$ 2,349,597	$ 2,349,597	$ 1,712,011
2031	$ -	$ 1,391,361	$ -	$ 1,391,361	$ -	$ 1,910,859	$ 1,910,859	$ 1,391,361
2032	$ -	$ 888,107	$ -	$ 888,107	$ -	$ 1,222,187	$ 1,222,187	$ 888,107
2033	$ -	$ 651,327	$ -	$ 651,327	$ -	$ 898,402	$ 898,402	$ 651,327
2034	$ -	$ 399,407	$ -	$ 399,407	$ -	$ 553,907	$ 553,907	$ 399,407
2035	$ -	$ 131,785	$ -	$ 131,785	$ -	$ 187,933	$ 187,933	$ 131,785
NPV	$9,939,131	$21,973,926	$5,992,137	$21,973,926	$3,946,994	$31,634,458	$37,626,595	$21,973,926
0	Net Benefits	$12,034,795	Net Benefits	$15,981,789	Net Benefits	$27,687,464	Net Benefits	($15,652,669)
0	B/C Ratio	2.21	B/C Ratio	3.67	B/C Ratio	8.014823117	B/C Ratio	0.58

Program Name:	School Based Energy Education							
Key Program Inputs								
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	$ -	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	-	$ -	$ -	3,179,369	355			
2016	-	$ -	$ -	3,062,729	346			
2017	-	$ -	$ -	2,946,089	336			
2018	-	$ -	$ -	2,946,089	336			
2019	-	$ -	$ -	2,946,089	336			
2020	-	$ -	$ -	2,946,089	336			
2021	-	$ -	$ -	2,635,163	301			
2022	-	$ -	$ -	2,168,775	248			
2023	-	$ -	$ -	1,546,925	177			
2024	-	$ -	$ -	925,074	106			
2025	-	$ -	$ -	303,223	35			

Cost-Effectiveness Test Results								
Program	Total Resource Cost Test		Utility Cost Test (UCT)		Participant (PCT)		Rate Impact Measure (RIM)	
	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits
2006	$ 61,200	$ 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	$ 318,658	$ 177,969
2015	$ -	$ 162,567	$ -	$ 162,567	$ -	$ 291,396	$ 291,396	$ 162,567
2016	$ -	$ 161,242	$ -	$ 161,242	$ -	$ 289,127	$ 289,127	$ 161,242
2017	$ -	$ 159,691	$ -	$ 159,691	$ -	$ 286,459	$ 286,459	$ 159,691
2018	$ -	$ 164,481	$ -	$ 164,481	$ -	$ 295,053	$ 295,053	$ 164,481
2019	$ -	$ 169,416	$ -	$ 169,416	$ -	$ 303,905	$ 303,905	$ 169,416
2020	$ -	$ 174,498	$ -	$ 174,498	$ -	$ 313,022	$ 313,022	$ 174,498
2021	$ -	$ 160,764	$ -	$ 160,764	$ -	$ 288,386	$ 288,386	$ 160,764
2022	$ -	$ 136,281	$ -	$ 136,281	$ -	$ 244,466	$ 244,466	$ 136,281
2023	$ -	$ 100,121	$ -	$ 100,121	$ -	$ 179,601	$ 179,601	$ 100,121
2024	$ -	$ 61,669	$ -	$ 61,669	$ -	$ 110,625	$ 110,625	$ 61,669
2025	$ -	$ 20,821	$ -	$ 20,821	$ -	$ 37,349	$ 37,349	$ 20,821
2026	$ -	$ 18,922	$ -	$ 18,922	$ -	$ 33,944	$ 33,944	$ 18,922
2027	$ -	$ 15,592	$ -	$ 15,592	$ -	$ 27,969	$ 27,969	$ 15,592
2028	$ -	$ 10,706	$ -	$ 10,706	$ -	$ 19,206	$ 19,206	$ 10,706
2029	$ -	$ 5,514	$ -	$ 5,514	$ -	$ 9,891	$ 9,891	$ 5,514
2030	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2031	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2032	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2033	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2034	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2035	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NPV	$413,023	$1,362,819	$413,023	$1,362,819	$0	$2,553,835	$2,966,858	$1,362,819
0	Net Benefits	$949,797	Net Benefits	$949,797	Net Benefits	$2,553,835	Net Benefits	($1,604,039)
0	B/C Ratio	3.30	B/C Ratio	3.30	B/C Ratio	#DIV/0!	B/C Ratio	0.46

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

County of Jackson)
) ss
State of Missouri)

AFFIDAVIT OF MATTHEW E. DAUNIS

Matthew E. Daunis, being first duly sworn, deposes and says that he is the witness who sponsors the accompanying testimony entitled "Surrebuttal Testimony of Matthew E. Daunis;" that said testimony was prepared by him and under his direction and supervision; that if inquiries were made as to the facts in said testimony and schedules, he would respond as therein set forth; and that the aforesaid testimony and schedules are true and correct to the best of his knowledge, information, and belief.

Matthew E. Daunis
Matthew E. Daunis

Subscribed and sworn to before me this 13th day of December 2005.

Terry D. Lutes
Notary Public
Terry D. Lutes

My Commission expires:
8-20-2008

Notary Public Notary Seal State of Missouri

TERRY D. LUTES
Jackson County
My Commission Expires
August 20, 2008