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COMMISSION
CLERK

June 4, 2010

Ms. Ann Cole, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Docket 100160-EG
PEF's Petition for Approval of Demand-side Management Plan

Dear Ms. Cole:

Enclosed for filing are an original and 5 copies of PEF's Response to Staff's 1st Data Request in the above-referenced docket.

Six CDs are attached. One CD contains the attachments in PDF format. Five CDs contain the attachments in Excel (.xls) format as requested by Staff.

Thank you for your assistance in this matter and please let me know if you have any questions.

Sincerely,

John T. Burnett

JTB/at
Attachments

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RAD A + CDS
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PEF'S RESPONSE TO STAFF'S 1ST DATA REQUEST

1. Please provide, on an individual program basis, the following tables and forms included in the Company's petition. Please provide an electronic copy in Excel (.xls file format).
 - a. Program Participation Values
 - b. Program & Individual Measure Savings @ the Meter
 - c. Program & Individual Measure Savings @ the Generator
 - d. PSC Form CE 1.1 (Financial Assumptions)
 - e. PSC Form CE 2.3 (Total Resource Cost Test)
 - f. PSC Form CE 2.4 (Participant Costs and Benefits)
 - g. PSC Form CE 2.5 (Rate Impact Measure Test)

RESPONSE: Please see Excel tables provided on the attached CD labeled as follows:

- a. Exhibit_1a
- b. Exhibits 1b_1 and 1b_2
- c. Exhibits 1c_1 and 1c_2
- d. Exhibit_1d
- e. Exhibit_1e
- f. Exhibit_1f
- g. Exhibit_1g

For the following questions (2-5), please provide the name of each program, indicate the customer category of the program, and whether it represents an energy efficiency, demand response, or renewable program. Please include all programs on a single table, adding columns as necessary.

2. Please provide, on an individual program basis, the cumulative projected savings over the period 2010 through 2019. As part of this response, please also provide the percentage of the Commission's Authorized Goals and the Company's proposed demand and energy savings

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met by the program. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE: Please see Excel tables in the file labeled Exhibit_2, provided on the attached CD.

3. Please provide, on an individual program basis, the cumulative net present value of expenditures required over the period 2010 through 2019. Please indicate the type of expenditure, separating them into categories including administrative, marketing, equipment, operations & maintenance, and incentives/rebates to customers. As part of this response, please also provide the percentage that each category represents of the total program expenditures. Indicate the first year rate impact of these expenditures, percentage of the total Energy Conservation Cost Recovery Clause for the first year of these expenditures, and any lost revenues associated with the program.

RESPONSE:

Note:

- 1) Program Lost Revenues include fuel and non-fuel charges.
- 2) Program Administrative costs include Administrative, Education, Surveys, Marketing, Equipment, Installation and O&M costs.

Please see Excel tables in the file labeled Exhibit_3, provided on the attached CD.

4. Please provide, on an individual program basis, the results of the E-TRC, E-RIM, and Participants Tests. Include the cumulative net present values of all benefits and costs. As part of this response, please provide the payback period for each program. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE: Please see Excel tables in file labeled Exhibit_4, provided on the attached CD.

5. Please provide, for each program, a list of measures associated with that program. For programs with varying incentives by device or installation, please represent each as a separate 'measure' within the program. For Audit Programs, assume that any equipment provided or installed (such as Compact Fluorescent Light Bulbs) are a separate 'measure.'

RESPONSE: Please see Excel tables in file labeled Exhibit_5, provided on the attached CD.

For the following questions (6-9), only consider those programs which feature multiple measures. Please provide the name of each measure, and indicate with which program it is associated. Include all measures on a single table, adding columns as necessary.

6. Please provide, for each measure identified by the criteria above, the cumulative projected savings over the period 2010 through 2019. As part of this response, please also provide the percentage of the Commission's Authorized Goals and the Company's proposed demand and energy savings met by the measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE:

Progress Energy used the ITRON achievable study to determine incentive and program costs required to reach energy and demand targets. Unlike previous DSM plans developed to meet FEECA guidelines where the primary focus was on selecting the most cost-effective measures passing the RIM test, this 10 year Achievable Study was focused on achieving the maximum energy efficiency using primarily the TRC test at the program level.

ITRON prepared three cases with respect to incentive costs, (all cases with a maximum of 2 year payback).

- Low case: incentives at 33% of participant cost
- Medium case: incentives at 50% of participant cost
- High case: incentives at a maximum % of participant cost (up to 100%)

In Progress Energy's case, the DSM goals established by the Commission were representative of the high case scenario, plus the addition of technical potential impacts of residential measures with less than 2-year paybacks. Likewise, the DSM plan filed by Progress Energy on 3/30/10 reflects the same ITRON cost projections used in the high case. If the medium case had been used along with the continued inclusion of technical potential impacts from certain residential measures, Progress Energy estimates that its energy goal and resulting plan costs would have been lower by approximately 30% – relatively more in line with other utilities.

Viewing results of either the ITRON high case or the Progress Energy DSM plan as presented at the measure level suggests that many measures are not cost effective on a stand-alone basis but are required at the plan level and funded to achieve the required system and portfolio goal. The PSC established a goal of 3,205 GWH for PEF, more than 500% larger than the current 2005-2014 Goal. With an increase of this magnitude, current program development methods and trending would not suffice. The Commission used the study to set the goal, so a bundling approach is consistent with that policy and necessary to achieve established goals.

Please see Excel tables in the file labeled Exhibit_6, provided on the attached CD.

7. Please provide, for each measure identified by the criteria above, the cumulative net present value of expenditures required over the period 2010 through 2019. Please indicate the type of expenditure, separating them into categories including administrative, marketing, equipment, operations & maintenance, and incentives/rebates to customers. As part of this response, please also provide the percentage that each category represents of the total measure expenditures. Indicate the first year rate impact of these expenditures, percentage of the total Energy Conservation Cost Recovery Clause for the first year of these expenditures, and the lost revenues associated with the measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE:

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Note:

- 1) Program Lost Revenues include fuel and non-fuel charges.
- 2) Program Administrative costs include Administrative, Education, Surveys, Marketing, Equipment, Installation and O&M costs.

Please see Excel tables in the file labeled Exhibit_7, provided on the attached CD.

8. Please provide, for each measure identified by the criteria above, the results of the E-TRC, E-RIM, and Participants Tests. Include the cumulative net present values of all benefits and costs. As part of this response, please also provide the payback period for each measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE:

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Please see Excel tables in the file labeled Exhibit_8, provided on the attached CD.

9. Please provide, for each measure identified by the criteria above, the incentive rate provided and the estimated customer equipment cost. Indicate the amount of non-recurring expenses by category, including administrative, equipment, and incentives/rebates to customers. As part of this response, please also provide the rate for recurring expenses by category. Please complete

the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE:

Progress Energy used the ITRON achievable study to determine incentive and program costs required to reach energy and demand targets. Unlike previous DSM plans developed to meet FEECA guidelines where the primary focus was on selecting the most cost-effective measures passing the RIM test, this 10 year Achievable Study was focused on achieving the maximum energy efficiency using primarily the TRC test at the program level.

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Please see Excel tables in the file labeled Exhibit_9, provided on the attached CD.

10. Please complete the following table regarding the Company's Avoided Unit selected for purposes of program development and cost-effectiveness testing. Include the unit's seasonal capacity, technology type, primary fuel, and commercial in-service date. Please also provide financial data sufficient to calculate the avoided cost of the unit, including its capital and operations & maintenance cost. In addition, please indicate the avoided energy rate utilized for energy savings in programs. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

RESPONSE: Please see Excel tables in the file labeled Exhibit_10, provided on the attached CD.

11. Please complete the following table regarding the Company's projected customer rates for non-fuel energy rates and demand, that are utilized in the Company's cost-effectiveness tests. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

Projected Rate Information		
Residential		
Non-Fuel Energy Rate	(cents/kWh)	13.61
Escalation Rate	(%)	1.85%
Commercial		
Non-Fuel Energy Rate	(cents/kWh)	11.7
Escalation Rate	(%)	1.97%
Demand Rate	(\$/kW-mo)	N/A
Escalation Rate	(%)	N/A

RESPONSE:

Please see Excel table in the file labeled Exhibit_11, provided on the attached CD.

Note:

- Combined Fuel and Non-Fuel rate: PEF did not use Non-fuel rate in calculating cost-effectiveness tests
- PEF did not use demand rates in calculating cost-effectiveness tests

12. Please complete the following table regarding the Company's estimations of line loss utilized in the estimation of generator savings. As part of this response, please indicate the values used for residential and commercial customers separately. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

Line Loss Values	
Residential	
Energy Percentage (%)	6.53
Demand Percentage (%)	6.53
Commercial	
Energy Percentage (%)	5.47
Demand Percentage (%)	5.47

RESPONSE: Please see Excel tables in the file labeled Exhibit_12, provided on the attached CD.

13. Please describe how costs associated with CO₂ Emissions are included in the Company's cost-effectiveness tests. As part of this response, please provide the annual cost assumed per ton of carbon dioxide equivalent, and the projected emission rate per megawatt-hour. Please indicate if there is any difference between these values and the values provided in the Commission's review of numeric conservation goals dockets.

RESPONSE:

Costs associated with CO₂ emissions are captured in the "Total Fuel & O&M Savings" in the cost-effectiveness tests. The values provided are consistent with the numeric conservation goals docket.

Please see Excel tables in the file labeled Exhibit_13, provided on the attached CD.

14. Please describe how the savings from conducting energy audits are calculated. As part of this response, please provide the percentage difference between savings associated with any equipment provided or installed (such as Compact Fluorescent Light Bulbs), and other sources.

RESPONSE:

The Company does not make claims for energy savings in the 2010 DSM plan directly attributable to residential and commercial audits.

15. Please explain or describe any tax rebates that may be available to customers during the 2010 through 2019 period for installation of any measures discussed in response to questions 6-9 above, including energy efficiency and customer-owned renewable generation. As part of this response, please include the associated program name, specific measure, and expiration dates as appropriate for each tax rebate, and whether the rebate was included in cost-effectiveness tests.

RESPONSE:

Tax rebates sunset in 2010 for HVAC, Insulation, Windows and Water Heater. The thirty percent (30%) tax credits were not included in the cost-effectiveness test as the contribution to benefits from one year would be very small in context of the plan period. This applies to Home Energy Improvement and Residential New Construction programs.

There are federal commercial tax credits of 0.60 or \$1.80 per square foot available for commercial buildings able to meet the required percentage of energy savings. Building systems included are envelope, lighting, heating, cooling and hot water. They must also meet ASHRAE standard 90.1-2001 be certified and inspected for compliance. These credits apply

to buildings built from 2006 to 2013. Only buildings under the scope of ASHRAE 90.1-2001 are eligible. These tax credits were not included in the cost effectiveness test for Better Business or Business New Construction programs.

Thirty percent (30%) federal tax credits for solar photovoltaic (PV) and solar water heating technologies were used in the cost-effectiveness tests for the Residential Solar PV, Commercial Solar PV, PV Solar for Schools, and Solar Water Heating with Energy Management programs. The Solar federal tax credits are due to expire in 2016.

16. Regarding photovoltaic panels for schools, please explain or describe the difference in ownership of the solar facility between this program and other customer-side renewable energy installations. Please indicate when ownership would be transferred to the school. Also, please discuss anticipated maintenance costs over the life of the photovoltaic panels.

RESPONSE:

Progress Energy's SunSense Schools program, as proposed, will provide an additional funding mechanism to advance solar PV with energy storage implementation and education. The solar PV system equipment purchased would be owned and maintained by Progress Energy for the first 5-years of operation, after which the system's ownership would transfer to the school. Typical customer-side renewable energy installations are fully funded, owned and operated by the customer. Based upon direct input from the Florida Solar Energy Center, the primary anticipated maintenance costs over the life of the systems are as follows:

Component	Expected Life	Cost to Replace	Occurrences over System Life	Total maintenance cost
Batteries	10-15 years	\$15,000	2	\$30,000
Inverter	10 years	\$6,000	2	\$12,000
Modules	30 years	N/A	0	~\$300/yr

17. Please explain or describe the impact of other state or local programs that provide renewable generation to emergency shelters or other facilities that may offset, reduce the cost, or be an alternate source of funding for photovoltaic systems for schools designated as an emergency shelter.

RESPONSE:

The Florida Solar Energy Center (FSEC) was recently awarded a \$10 million grant from the state of Florida to install solar PV systems with battery backup at 90 schools that serve as emergency shelters. Progress Energy's SunSense School program would work in collaboration with this program to greatly extend funding beyond the 90 schools proposed.

18. For each program for which modifications have been proposed in 2010, please describe the specific modification(s) made to the program and the reason for each modification. As part of this response, please provide the savings estimates associated with the program prior to the proposed modifications.

RESPONSE:

Please see Excel tables in the file labeled Exhibit_18, provided on the attached CD.

Com - Better Business

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	167,233	2,016	1%
2011	170,886	170,886	2,115	2%
2012	175,147	175,147	2,184	4%
2013	178,542	178,542	1,771	5%
2014	182,030	182,030	1,882	5%
2015	185,461	185,461	2,367	7%
2016	188,717	188,717	2,893	8%
2017	191,817	191,817	3,617	10%
2018	194,809	194,809	4,677	12%
2019	197,848	197,848	6,178	15%

Com - Business Energy Check

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	167,233	3,000	2%
2011	170,886	170,886	3,060	4%
2012	175,147	175,147	3,152	5%
2013	178,542	178,542	3,278	7%
2014	182,030	182,030	3,442	9%
2015	185,461	185,461	3,683	11%
2016	188,717	188,717	3,867	12%
2017	191,817	191,817	3,983	14%
2018	194,809	194,809	4,102	16%
2019	197,848	197,848	4,143	18%

Com - Business Energy Saver

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	1,000	100	10%
2011	170,886	960	100	10%
2012	175,147	918	120	13%
2013	178,542	853	120	14%
2014	182,030	784	140	18%
2015	185,461	691	140	20%
2016	188,717	592	160	27%
2017	191,817	468	160	34%
2018	194,809	336	175	52%
2019	197,848	181	175	97%

Com - Ed

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	167,233	3,000	2%
2011	170,886	167,886	3,060	4%
2012	175,147	169,087	3,152	5%
2013	178,542	172,330	3,278	7%
2014	182,030	175,600	3,442	9%
2015	185,461	178,741	3,683	11%
2016	188,717	181,592	3,867	13%
2017	191,817	184,267	3,983	15%
2018	194,809	186,959	4,102	17%
2019	197,848	189,763	4,143	19%

Business Energy Response

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	167,233	24	0%
2011	170,886	170,886	7	0%
2012	175,147	175,147	5,904	3%
2013	178,542	178,542	5,904	7%
2014	182,030	182,030	10,904	12%
2015	185,461	185,461	15,904	21%
2016	188,717	188,717	18,404	30%
2017	191,817	191,817	18,404	39%
2018	194,809	194,809	16,904	47%
2019	197,848	197,848	814	47%

Com - Green Bldg

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	2,093	150	7%
2011	170,886	3,653	206	6%
2012	175,147	4,261	250	6%
2013	178,542	3,395	307	7%
2014	182,030	3,488	352	7%
2015	185,461	3,431	554	9%
2016	188,717	3,256	753	11%
2017	191,817	3,100	954	13%
2018	194,809	2,992	1,137	16%
2019	197,848	3,039	1,291	18%

Com - Innov Inc

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	167,233	2	0%
2011	170,886	170,886	2	0%
2012	175,147	175,147	2	0%
2013	178,542	178,542	2	0%
2014	182,030	182,030	2	0%
2015	185,461	185,461	2	0%
2016	188,717	188,717	2	0%
2017	191,817	191,817	2	0%
2018	194,809	194,809	2	0%
2019	197,848	197,848	2	0%

Com - Business New Construction

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	2,093	181	9%
2011	170,886	3,653	187	6%
2012	175,147	4,261	193	6%
2013	178,542	3,395	200	6%
2014	182,030	3,488	207	6%
2015	185,461	3,431	214	6%
2016	188,717	3,256	222	6%
2017	191,817	3,100	230	6%
2018	194,809	2,992	239	6%
2019	197,848	3,039	198	6%

Com-Standby Gen

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	535	10	2%
2011	170,886	547	10	4%
2012	175,147	560	10	5%
2013	178,542	571	10	7%
2014	182,030	582	10	9%
2015	185,461	593	10	10%
2016	188,717	604	10	12%
2017	191,817	614	10	13%
2018	194,809	623	10	14%
2019	197,848	633	10	16%

Com-Solar PV

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	7,487	6	0.1%
2011	170,886	7,524	23	0.4%
2012	175,147	7,562	23	0.7%
2013	178,542	7,600	23	1.0%
2014	182,030	7,638	23	1.3%

Com-Solar Schools Pilot

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	99	1	1.0%
2011	170,886	100	10	11.0%
2012	175,147	101	10	20.8%
2013	178,542	102	10	30.4%
2014	182,030	103	10	39.8%

Com-Solar Schools Pilot Post Se

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	11	0	0.0%
2011	170,886	11	1	9.0%
2012	175,147	11	1	17.8%
2013	178,542	11	1	26.5%
2014	182,030	11	1	34.9%

Res-Solar PV

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	1,457,415	25	0.0%
2011	1,473,688	1,473,688	100	0.0%
2012	1,495,098	1,495,098	100	0.0%
2013	1,521,451	1,521,451	100	0.0%
2014	1,548,531	1,548,531	100	0.0%

Res-Solar WH for Low Income

Program Participation

Year	Total Number of Customers ⁽¹⁾	Total Number of Measure Eligible Customers ⁽²⁾	Annual Number of Program Measure Participants ⁽³⁾	Cumulative Penetration Level (%) ⁽⁴⁾
2010	1,457,415	0	0	0.0%
2011	1,473,688	896	0	0.0%
2012	1,495,098	864	0	0.0%
2013	1,521,451	817	0	0.0%
2014	1,548,531	753	0	0.0%

Res-Solar WH with EM

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	1,209,654	1,125	0.1%
2011	1,473,688	1,223,161	2,250	0.3%
2012	1,495,098	1,240,931	2,250	0.5%
2013	1,521,451	1,262,804	2,250	0.6%
2014	1,548,531	1,285,281	2,250	0.8%

Ind-Curtailable

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	886	1	0%
2011	170,886	906	1	0%
2012	175,147	928	1	0%
2013	178,542	946	1	0%
2014	182,030	965	1	1%
2015	185,461	983	1	1%
2016	188,717	1,000	1	1%
2017	191,817	1,017	1	1%
2018	194,809	1,032	1	1%
2019	197,848	1,049	1	1%

Ind-Interruptible

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	167,233	449	1	0%
2011	170,886	459	1	0%
2012	175,147	470	1	1%
2013	178,542	479	1	1%
2014	182,030	489	1	1%
2015	185,461	498	1	1%
2016	188,717	507	1	1%
2017	191,817	515	1	2%
2018	194,809	523	1	2%
2019	197,848	531	1	2%

Res-Educational

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	1,457,415	47,141	3%
2011	1,473,688	1,426,547	50,079	7%
2012	1,495,098	1,397,878	51,979	11%
2013	1,521,451	1,419,393	52,354	14%
2014	1,548,531	1,444,198	52,760	18%
2015	1,575,167	1,470,053	53,199	21%
2016	1,600,448	1,494,489	53,672	24%
2017	1,624,503	1,517,632	52,760	27%
2018	1,647,724	1,541,292	54,176	30%
2019	1,671,277	1,564,341	54,714	33%

Res-Energy Mgt

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	931,134	7,700	1%
2011	1,473,688	941,530	7,700	2%
2012	1,495,098	955,209	7,700	2%
2013	1,521,451	972,046	7,700	3%
2014	1,548,531	989,347	7,700	4%
2015	1,575,167	1,006,365	7,700	5%
2016	1,600,448	1,022,517	13,950	6%
2017	1,624,503	1,037,885	13,950	7%
2018	1,647,724	1,052,721	13,950	8%
2019	1,671,277	1,067,769	9,750	9%

Res-Home Energy Check

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	1,457,415	52,200	4%
2011	1,473,688	1,473,688	53,960	7%
2012	1,495,098	1,495,098	55,659	11%
2013	1,521,451	1,521,451	55,881	14%
2014	1,548,531	1,548,531	56,137	18%
2015	1,575,167	1,575,167	56,429	21%
2016	1,600,448	1,600,448	56,756	24%
2017	1,624,503	1,624,503	57,117	27%
2018	1,647,724	1,647,724	57,515	30%
2019	1,671,277	1,671,277	57,947	33%

Res-Home Energy Improvement

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	1,457,415	48,968	3%
2011	1,473,688	1,473,688	57,242	7%
2012	1,495,098	1,495,098	60,460	11%
2013	1,521,451	1,521,451	62,266	15%
2014	1,548,531	1,548,531	66,956	19%
2015	1,575,167	1,575,167	73,037	23%
2016	1,600,448	1,600,448	80,048	28%
2017	1,624,503	1,624,503	87,849	33%
2018	1,647,724	1,647,724	96,508	38%
2019	1,671,277	1,671,277	106,108	44%

Res-Low Income Weatherization

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	3,000	950	32%
2011	1,473,688	6,033	1,150	35%
2012	1,495,098	8,111	1,450	44%
2013	1,521,451	12,243	1,850	44%
2014	1,548,531	15,430	2,250	50%
2015	1,575,167	18,673	2,650	55%
2016	1,600,448	21,967	3,050	61%
2017	1,624,503	25,311	3,450	66%
2018	1,647,724	28,703	3,850	72%
2019	1,671,277	32,143	4,250	77%

Res-Neighborhood Energy Saver

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	44,822	2,500	6%
2011	1,473,688	43,218	3,250	8%
2012	1,495,098	40,833	4,000	10%
2013	1,521,451	37,649	4,500	12%
2014	1,548,531	33,902	5,000	15%
2015	1,575,167	29,581	5,500	19%
2016	1,600,448	24,672	6,000	24%
2017	1,624,503	19,166	6,250	33%
2018	1,647,724	13,299	6,500	49%
2019	1,671,277	7,065	6,500	92%

Res-New Construction

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	16,273	6,215	38%
2011	1,473,688	16,273	7,560	42%
2012	1,495,098	21,410	7,997	40%
2013	1,521,451	26,353	8,465	38%
2014	1,548,531	27,080	13,014	40%
2015	1,575,167	26,636	13,364	42%
2016	1,600,448	25,281	13,907	44%
2017	1,624,503	24,055	14,877	47%
2018	1,647,724	23,221	15,789	49%
2019	1,671,277	23,553	17,082	51%

Res-Technical Potential

Program Participation

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2010	1,457,415	1,457,415	18,101	1%
2011	1,473,688	1,473,688	18,102	2%
2012	1,495,098	1,495,098	34,893	5%
2013	1,521,451	1,521,451	51,693	8%
2014	1,548,531	1,548,531	67,177	12%
2015	1,575,167	1,575,167	150,899	22%
2016	1,600,448	1,600,448	233,028	36%
2017	1,624,503	1,624,503	271,076	52%
2018	1,647,724	1,647,724	382,305	74%
2019	1,671,277	1,671,277	444,003	100%

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per
Premium T8, EB (with AC Savings)	fixture	0.056	0.109	329.185
Premium T8, EB 2010-2 (with reflector)	fixture	0.056	0.145	458.000
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	fixture	0.038	0.116	558.000
Occupancy Sensor 2010-2 (per KW connected Lighting w/AC	1 unit	0.000	0.382	1144.789
Vending Mizers (Cooled machines only)	per machine	0.151	0.106	748.000
CMH 39 Ceramic MH (RFL150) (with AC Savings)	fixture	0.000	0.152	458.940
High Bay T5	fixture	0.000	0.227	781.433
LED Display Lighting	fixture	0.000	0.360	1039.167
CFL 26w hardwire kit	fixture	0.070	0.104	258.542
Hotel AC control sensors	room	0.002	0.029	506.000
Compressor VSD retrofit (Refrigeration)	ton	0.048	0.058	657.000
Oversized air cooled condenser (Refrigeration)	ton	0.128	0.156	1259.120
EMS - Chiller Optimization	ton	0.003	0.041	183.000

Building Commissioning	per 1000 sq. ft.		0.273	1739.500
Centrifugal Chiller, 0.63 to .60 KW/ton	ton	0.000	0.032	67.650
Chiller--rotary/screw .72 to .67 kw/ton	ton	0.000	0.042	88.000
Chiller--Air cooled 1.26 to 1.17 kw/ton	ton	0.000	0.093	176.300
DX Packaged System, EER=10.6 (20 tons)	ton	0.000	0.103	199.300
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	ton	0.000	0.150	469.250
Geothermal Heat Pump EER/COP 14.1/3.3	ton	0.348	0.211	659.700
SEER 13 AC to SEER 14 HP to 2014	ton	0.309	0.084	495.900
SEER 13 AC to SEER 15 HP	ton	0.315	0.157	648.900
SEER 13 AC to SEER 17 HP	ton	0.331	0.273	906.100
SEER 13 HP to SEER 14 HP to 2014	ton	0.007	0.084	176.000
SEER 13 HP to SEER 15HP	ton	0.013	0.157	329.000
SEER 13 HP to SEER 17 HP	ton	0.029	0.273	586.200
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	ton	0.304	0.144	593.050
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	ton	0.010	0.134	277.400
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	ton	0.009	0.123	242.000

PTAC to PTAC	ton		0.129	450.000
13-14 SEER A/C	ton	0.000	0.056	87.647
15 SEER A/C	ton	0.000	0.106	163.820
16 SEER A/C	ton	0.000	0.147	230.000
19+ SEER A/C	ton	0.000	0.244	386.470
Demand Control Ventilation (DCV)	ton	0.182	0.057	133.143
Heat Pump water heater air source (Water heating)	kBTU/hr	0.011	0.015	95.000
Variable Speed Drive Control	HP	0.024	0.027	768.000
Exhaust Hood opt. (Ventilation)	HP	1.400	3.600	913.000
VSD for chiller and tower pumps (Cooling)	ton	0.001	0.039	173.000
Heat Pipe for AC package	1000 CFM		0.660	2810.400
Multiplex Compressor system	ton	0.163	0.199	1605.800
Energy Recovery Ventilation (ERV)	Per 100/CFM	0.008	0.003	275.333
Duct Repair	ton	0.039	0.088	291.850
PTAC-HP Coil Cleaning (20 tons) p/ton	ton	0.000	0.089	166.700
DX Tune Up	ton	0.000	0.096	181.000

DX RTU Re-commissioning	ton	0.072	0.158	232.650
Thermal Energy Storage (TES)	ton	0.000	0.741	1171.653
Window Film (Standard)	p/1000 sf	0.000	2.967	5784.000
Ceiling Insulation \leq R11 to R19 to 2014	p/1000 sf	0.434	0.181	363.900
Ceiling insulation \leq R11 to R30	p/1000 sf	0.652	0.272	543.600
Roof Insulation \leq R11 to R19 to 2014	p/1000 sf	0.434	0.181	363.900
Cool Roof with Roof Insulation \leq R11 to R19	p/1000 sf	0.417	0.808	1687.700
Cool Roof - Chiller	p/1000 sf	0.000	0.390	844.100
Cool Roof - DX	p/1000 sf	0.000	0.713	1485.500
Green Roof	p/1000 sf	0.715	1.034	2163.700
Compressed Air Tune Up	KW	1.000	1.000	3706.000
High Efficiency Motors > 200 HP (225HP) p/HP	hp	0.000	0.010	21.689
Electronically Commutated Motors (ECM) (750 x .067 HP)	hp	0.000	0.037	137.000
Ice Maker	per 137lbs / day usage	0.000	0.000	561.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Premium T8, EB 2010 (with AC Savings)	fixture	0.021	0.065	247.300
Induction Lighting /Cold Cathode	fixture	0.038	0.116	558.000
Vending Mizers	per machine	0.151	0.106	748.000
CMH 39 Ceramic MH (RFL150) 2010 (with AC Savings)	fixture	0.048	0.146	537.260
High Bay T5 2010 (with AC Savings)	fixture	0.072	0.217	759.600
LED Display Lighting 2010 (with AC Savings)	fixture	0.114	0.345	993.667
Oversized air cooled condenser (Refrigeration)	Ton	0.128	0.156	1259.000
Building Commisioning	per 1000 sq. ft.		0.195	1988.000
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	Ton	0.000	0.028	59.944
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	Ton	0.000	0.047	101.333
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	Ton	0.000	0.047	97.778
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	Ton	0.000	0.047	100.000
Chiller--Air cooled 1.17 kw/ton (50 tons) 2010	Ton	0.000	0.090	163.944
Chiller--Air cooled 1.05 kw/ton (50 tons) 2013	Ton	0.000	0.082	152.667

DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	Ton	0.000	0.096	182.556
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	Ton	0.000	0.066	128.500
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	Ton	0.000	0.151	485.500
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	Ton	0.000	0.159	460.556
Geothermal Heat Pump EER/COP 14.1/3.3 2010	Ton	0.739	0.320	967.278
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	Ton	0.751	0.291	937.500
SEER 13 HP to SEER 14 HP 2010	Ton	0.027	0.097	204.056
SEER 14.5 HP to SEER 16 HP 2013	Ton	0.033	0.106	230.333
SEER 13 HP to SEER 15 HP 2010	Ton	0.045	0.162	344.222
SEER 14.5 HP to SEER 17 HP 2013	Ton	0.033	0.155	331.056
SEER 13 HP to SEER 17 HP 2010	Ton	0.061	0.268	567.778
SEER 14.5 HP to SEER 18 HP 2013	Ton	0.031	0.199	420.389
PTAC-PTHP 11k EER/COP 10.8-2.95 2010	Ton	0.675	0.079	551.111
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	Ton	0.729	0.076	589.722
15 SEER A/C	Ton	0.000	0.106	284.916
16 SEER A/C	Ton	0.000	0.147	400.726
19+ SEER A/C	Ton	0.000	0.244	674.525

Demand Control Ventilation (DCV) 2010	Ton	0.191	0.059	129.444
Variable speed drive control	HP	0.024	0.027	768.000
VSD for chiller and tower pumps (Cooling)	Ton	0.001	0.039	173.000
Heat Pipe	1000 CFM		0.660	2810.400
Multiplex Compressor system	Ton	0.163	0.199	1605.800
Energy Recovery Ventilation (ERV) 2010	p/100 CFM	0.765	0.163	113.778
Thermal Energy Storage (TES)	Ton	0.000	0.741	1171.653
Window Film SHGC .40 (Standard) 2010	p/1000 sf	0.000	2.655	5054.444
Window Film SHGC .36 (Standard) 2013	p/1000 sf	0.000	1.989	3707.778
Roof Insulation R-11 to R-19 2010	p/1000 sf	0.382	0.149	352.700
Roof Insulation R-13 to R-19 2013	p/1000 sf	2.420	0.950	222.400
Cool Roof with Insulation R11 to R19 2010	p/1000 sf	0.382	0.629	1418.500
Cool Roof with Insulation R15 to R19 2013	p/1000 sf	0.140	0.414	927.200
Cool Roof - Chiller .60 kw/ton 2010	p/1000 sf	0.000	0.348	789.200
Cool Roof - Chiller .55 kw/ton 2013	p/1000 sf	0.000	0.363	821.100
Cool Roof - DX EER 9 2010	p/1000 sf	0.000	0.614	1328.600
Cool Roof - DX EER 10 2013	p/1000 sf	0.000	0.555	1214.400

Green Roof	p/1000 sf	0.382	0.696	1537.800
High Efficiency Motors > 200 HP (225HP) p/HP	hp	0.000	0.010	21.689
Electronically Commutated Motors (ECM) (750 x .067 HP)	hp	0.000	0.037	137.000
Ice Maker	per 137lbs / day usage		0.000	561.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Window film/sun screen	100 sf	0.000	0.340	636.000
HVAC tune-up /clean	per 1 unit	0.000	0.270	307.000
CF23	1 Lamp	0.015	0.077	193.000
CF18	1 Lamp	0.011	0.057	143.000
CF15	1 Lamp	0.009	0.045	113.000
CF11	1 Lamp	0.006	0.029	73.000
WH wrap	1 WH	0.009	0.047	286.903
WH temp	1 WH	0.001	0.007	64.166
Aerators	per areator	0.006	0.031	28.884
Ref brush	1 Brush	0.010	0.050	142.870
Ref therm	1 Thermo	0.010	0.048	43.815
Switch plate thermometer	1 Plate Thermo	0.015	0.073	169.039
AC weatherization kit	per Rm AC	0.020	0.098	52.467
Foam Insulation	1 Can	0.157	0.157	142.826
Caulk	1 Tube	0.006	0.029	45.997

Weather stripping	1 door	0.020	0.098	117.816
Door sweep	1 sweep	0.016	0.078	57.429
AC filter -- 12	12 filters	0.057	0.285	254.358
Glass tape	1 Roll @25ft	0.031	0.157	142.826
Insulation	1200 FtSq	0.750	0.420	536.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
CFL 60W to 13-15W (Guest Room)	Per CFL	0.031	0.098	107.000
Refrigerator Thermometer	1 Thermo	0.010	0.050	44.000
Switch plate thermometer	1 Plate Thermo	0.010	0.070	169.000
Smart Strip	Per Business	0.100	0.100	333.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
EMS Tie In	participant	0.000	28.880	0.000
A/C Cycling	participant	0.000	4.817	0.000
Awareness	participant	0.536	0.536	1774.105

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Solar PV	participant	0.000	7.830	41698.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Schools K-12	participant	0.000	3.200	16679.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Schools Post Secondary	participant	0.000	31.000	166792.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Standby	participant	400.000	400.000	0.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Interruptible	participant	326.000	311.000	0.000

Measure Information		At the Meter		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Curailable	participant	282.000	189.000	0.000

Measure Name	At the Meter		
	WKW per unit	SKW per unit	Annual kWh per unit
Early Replace. 15 SEER A/C	0.000	0.465	627.0
Early Replace. 15 SEER A/C	0.000	0.332	575.0
Early Replace. 15 SEER HP to HP	0.100	0.465	659.2
Early Replace. 15 SEER HP to HP	0.054	0.332	583.0
Early Replace. 15 SEER Strip to HP	1.102	0.465	1060.0
Early Replace. 15 SEER Strip to HP	0.598	0.332	678.3
Early Replace. 16 SEER A/C	0.000	0.536	723.7
Early Replace. 16 SEER A/C	0.000	0.382	664.0
Early Replace. 16 SEER HP to HP	0.130	0.536	726.0
Early Replace. 16 SEER HP to HP	0.070	0.382	674.4
Early Replace. 16 SEER Strip to HP	1.132	0.536	1166.4
Early Replace. 16 SEER Strip to HP	0.615	0.382	769.7
Early Replace. 19+ SEER A/C	0.000	0.697	952.2
Early Replace. 19+ SEER A/C	0.000	0.498	874.2
Early Replace. 19+ SEER HP to HP	0.150	0.697	999.9
Early Replace. 19+ SEER HP to HP	0.081	0.498	886.4
Early Replace. 19+ SEER Strip to HP	1.152	0.697	1400.7
Early Replace. 19+ SEER Strip to HP	0.625	0.498	981.6
14 SEER Strip to HP	0.980	0.090	504.0
14 SEER Strip to HP	0.549	0.064	205.0
15 SEER A/C	0.000	0.159	217.0
15 SEER A/C	0.000	0.119	214.0
15 SEER HP to HP	0.042	0.159	227.0
15 SEER HP to HP	0.023	0.119	217.0
15 SEER Strip to HP	1.000	0.159	611.0
15 SEER Strip to HP	0.560	0.119	286.0
16 SEER A/C	0.000	0.222	305.0
16 SEER A/C	0.000	0.166	301.0
16 SEER HP to HP	0.069	0.222	321.0
16 SEER HP to HP	0.038	0.166	306.0

16 SEER Strip to HP	1.030	0.222	708.0
16 SEER Strip to HP	0.575	0.166	374.0
19+ SEER A/C	0.000	0.370	513.0
19+ SEER A/C	0.000	0.277	507.0
19+ SEER HP to HP	0.087	0.370	530.0
19+ SEER HP to HP	0.048	0.277	512.0
19+ SEER Strip to HP	1.050	0.370	921.0
19+ SEER Strip to HP	0.586	0.277	581.0
Duct Repair	0.830	0.370	444.0
Duct Repair	0.190	0.160	191.0
Duct Test	0.000	0.000	0.0
Geothermal Heat Pumps	0.986	0.159	608.0
HVAC Commissioning	0.210	0.390	573.0
HVAC Commissioning	0.063	0.117	172.0
HVAC Tune-up	0.265	0.491	732.4
HVAC Tune-up	0.079	0.147	219.7
HVAC Plenum Seal	0.000	0.000	0.0
HVAC Plenum Seal	0.000	0.000	0.0
HVAC Proper Sizing	0.486	0.159	0.0
HVAC Proper Sizing	0.146	0.048	0.0
HVAC QI Bundle Commissioning Plem Sea	0.751	0.650	732.4
HVAC QI Bundle Commissioning Plem Sea	0.225	0.195	219.7
Insulation - Wall (R5 to R10)	0.434	0.087	140.0
Attic Insulation < R15 to R30	0.262	0.167	245.0
Attic Insulation <R15 to R30	0.141	0.072	115.0
Attic Insulation R19	0.352	0.225	335.0
Attic Insulation R19	0.189	0.096	155.0
Attic Insulation R30	0.468	0.299	442.0
Attic Insulation R30	0.251	0.128	205.0
Reflective Roof	0.000	0.320	451.0
Reflective Roof	0.000	0.320	451.0
Reflective Roof Coating	0.000	0.001	0.8
Window Film (west only)	0.000	0.007	4.6

Window Film (west only)	0.000	0.007	4.7
Window Film (all but north)	0.000	0.004	5.1
Window Film (all but north)	0.000	0.004	5.6
Windows .4/.3 (vinyl)	0.007	0.004	5.7
Windows .4/.3 (vinyl)	0.007	0.004	5.8
Windows .65/.4 (alum)	0.005	0.003	4.2
Windows .65/.4 (alum)	0.005	0.003	4.4
Heat Pump Water Heater	0.328	0.113	1490.0

Measure Name	At the Meter		
	WKW per unit	SKW per unit	Annual kWh per unit
15 SEER HP	0.026	0.113	213.0
15 SEER HP	0.025	0.109	204.5
16 SEER HP	0.043	0.159	303.0
16 SEER HP	0.041	0.152	290.9
19+ SEER HP	0.054	0.264	498.0
19+ SEER HP	0.052	0.253	478.1
Seal Ducts	0.340	0.080	166.0
Seal Ducts	0.146	0.034	71.4
Energy Star - 2 HA measures installed	1.050	0.999	1747.6
Energy Star - 2 HA measures installed	0.369	0.351	622.5
Geothermal Heat Pumps	0.125	0.163	353.0
HVAC Commissioning	0.196	0.364	542.5
HVAC Commissioning	0.059	0.109	162.8
HVAC ACCA Quality Installation	0.616	0.511	814.8
HVAC ACCA Quality Installation	0.185	0.153	244.4
Insulation - Advanced Wall	0.749	0.114	214.6
Multi-Family Heat Pump Installation - incentive covers incre	0.792	0.000	557.0
Code Plus 20 - > 20% of current FI Energy Code, aligns with	1.200	1.020	2450.0
Windows .4/3	0.002	0.001	2.6
Windows .4/3	0.002	0.001	2.6
Heat Pump Water Heater	0.328	0.113	1490.0

Measure Name	At the Meter		
	WKW per unit	SKW per unit	Annual kWh per unit
Insulation	0.750	0.420	536.0
Solar Screen/Window film	0.000	0.400	711.2
HVAC Tune-up	0.172	0.319	475.1
12 SEER Room A/C	0.000	0.180	253.0
CF23	-0.007	0.050	118.0
CF18	-0.005	0.037	87.0
CF15	-0.004	0.029	69.0
CF11	-0.003	0.019	44.0
Water Heater Wrap	0.050	0.030	287.0
Water Heater Temp set	0.010	0.010	64.0
Faucet Aerators	0.031	0.000	29.0
Low flow Showerhead	0.150	0.000	144.0
Refrigerator Coil Brush	0.000	0.022	147.0
Refrigerator Thermometer	0.000	0.007	44.0
Wall Switch Plate Thermometer	0.088	0.035	154.0
AC Window unit Winter Kit	0.100		20.0
Foam Insulation on Pipe Penetrations	0.048	0.030	55.0
HVAC Caulking	0.029	0.000	46.0
Weather Strip	0.098	0.070	125.0
Door Sweep	0.050	0.040	67.0
AC Filters - annual supply	0.026	0.070	100.0
Glass Tape - window repair	0.040	0.030	53.0

Measure Name	At the Meter		
	WKW per unit	SKW per unit	Annual kWh per unit
Window Film/ Screen Single Family	0.000	0.005	146.6
Roof Coating	0.000	0.000	1000.8
Weatherization Reduce Infiltration	0.240	0.100	208.0
Weatherization 2006 Insulation R-19	0.470	0.210	312.0
Weatherization 2006 Insulation R-30	0.620	0.290	480.0
Weatherization Duct Test	0.000	0.000	0.0
Weatherization 2006 Duct Repair - Ducted System	0.820	0.410	276.0
Weatherization Duct Repair-NonDucted System	0.000	0.410	142.0
Weatherization 2006 Heat Pump to Heat Pump SEER 14	0.720	0.540	654.0
Weatherization 2006 Heat Pump to Heat Pump SEER 15	0.780	0.710	828.0
Weatherization 2006 Resist Heat to Heat Pump SEER 14	3.100	0.620	1628.0
Weatherization 2006 Resist Heat to Heat Pump SEER 15	3.160	0.820	1877.0
Weatherization HVAC Tune Up	0.500	0.260	323.0
Weatherization Compact Fluorescent Light Bulb	0.000	0.060	115.0
Weatherization Refrigerator coil brush	0.000	0.020	146.0
Weatherization Wrap Water Heater	0.030	0.010	167.0
Weatherization Heat Pump Water Heater	0.270	0.220	1008.0
Weatherization Low Flow Showerhead	0.120	0.100	144.0
Weatherization Faucet Aerator	0.020	0.020	29.0
Energy Star window A/C	0.000	0.180	253.0
AC Window unit Winter Kit	0.100		20.0
Education Workshop & LIWAP Kit	0.068	0.148	384.3

Measure Name	At the meter		
	WKW per unit	SKW per unit	Annual kWh per unit
Free Walk-Through w/Kit	0.100	0.100	477.0
Paid Walk-Through HEC			
Mail-in HEC	0.025	0.025	83.0
Online HEC	0.025	0.025	83.0
Phone Assisted HEC	0.025	0.025	83.0
Kiosk HEC	0.025	0.025	83.0
Advertising			
Trade (events like home shows)	0.025	0.025	83.0
Credit for upgrade to a Free Walk-Through HEC from any other	0.075	0.075	394.0
Energy Efficiency Kit credit - Free Walk-Through	0.035	0.092	256.0
Energy Efficiency Kit credit - except Free Walk-Through	0.035	0.092	256.0

Measure Name	At the Meter		
	WKW per unit	SKW per unit	Annual kWh per unit
Water heater blanket on old water heaters	0.043	0.024	269.316
Annual maintenance	0.064	0.120	178.354
Install solar window screens	0.000	0.252	122.031
Replace current HVAC system with high efficiency model with ECM (16+SEER)	0.212	0.212	671.726
Pool Pump (2 speed)	0.032	0.164	769.736
Pool Pump (variable)	0.094	0.469	2213.461
CFL discounts thru retailers	0.000	0.004	38.956
Freezer Recycling	0.000	0.282	935.887
Refrigerator Recycling	0.000	0.282	1096.405
Air Filters	0.267	0.113	93.870

Measure Name	WKW per unit	@ Meter	Annual kWh per unit
		SKW per unit	
Solar Water Heating for Low Income	0.400	0.370	2314.000

Measure Name	WKW per unit	@ Meter	
		SKW per unit	Annual kWh per unit
Solar Water Heating with Energy Management	2.140	1.110	1718.000

Measure Name	WKW per unit	@ Meter	
		SKW per unit	Annual kWh per unit
Residential Solar Photovoltaics	0.000	1.560	8340.000

Measure Name	WKW per unit	@ Meter	Annual kWh per unit
		SKW per unit	
Residential Energy Management	2.440	1.080	0.000

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per
Premium T8, EB (with AC Savings)	fixture	0.059	0.115	347.191
Premium T8, EB 2010-2 (with reflector)	fixture	0.059	0.153	483.053
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	fixture	0.040	0.122	588.523
Occupancy Sensor 2010-2 (per KW connected Lighting w/AC	1 unit	0.000	0.403	1207.409
Vending Mizers (Cooled machines only)	per machine	0.160	0.112	788.916
CMH 39 Ceramic MH (RFL150) (with AC Savings)	fixture	0.000	0.161	484.044
High Bay T5	fixture	0.000	0.239	824.177
LED Display Lighting	fixture	0.000	0.380	1096.009
CFL 26w hardwire kit	fixture	0.073	0.109	272.684
Hotel AC control sensors	room	0.002	0.030	533.678
Compressor VSD retrofit (Refrigeration)	ton	0.050	0.061	692.938
Oversized air cooled condenser (Refrigeration)	ton	0.135	0.165	1327.994
EMS - Chiller Optimization	ton	0.003	0.044	193.010

Building Commissioning	per 1000 sq. ft.	0.000	0.288	1834.651
Centrifugal Chiller, 0.63 to .60 KW/ton	ton	0.000	0.033	71.350
Chiller--rotary/screw .72 to .67 kw/ton	ton	0.000	0.044	92.814
Chiller--Air cooled 1.26 to 1.17 kw/ton	ton	0.000	0.098	185.944
DX Packaged System, EER=10.6 (20 tons)	ton	0.000	0.108	210.202
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	ton	0.000	0.158	494.918
Geothermal Heat Pump EER/COP 14.1/3.3	ton	0.367	0.222	695.786
SEER 13 AC to SEER 14 HP to 2014	ton	0.326	0.089	523.026
SEER 13 AC to SEER 15 HP	ton	0.332	0.165	684.395
SEER 13 AC to SEER 17 HP	ton	0.349	0.288	955.664
SEER 13 HP to SEER 14 HP to 2014	ton	0.007	0.089	185.627
SEER 13 HP to SEER 15HP	ton	0.014	0.165	346.996
SEER 13 HP to SEER 17 HP	ton	0.031	0.288	618.265
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	ton	0.321	0.151	625.490
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	ton	0.010	0.141	292.574
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	ton	0.009	0.129	255.237

PTAC to PTAC	ton	0.000	0.136	474.615
13-14 SEER A/C	ton	0.000	0.059	92.441
15 SEER A/C	ton	0.000	0.112	172.781
16 SEER A/C	ton	0.000	0.155	242.581
19+ SEER A/C	ton	0.000	0.257	407.610
Demand Control Ventilation (DCV)	ton	0.192	0.060	140.426
Heat Pump water heater air source (Water heating)	kBTU/hr	0.012	0.015	100.197
Variable Speed Drive Control	HP	0.026	0.028	810.010
Exhaust Hood opt. (Ventilation)	HP	1.477	3.797	962.941
VSD for chiller and tower pumps (Cooling)	ton	0.001	0.041	182.463
Heat Pipe for AC package	1000 CFM	0.000	0.696	2964.129
Multiplex Compressor system	ton	0.172	0.210	1693.637
Energy Recovery Ventilation (ERV)	Per 100/CFM	0.008	0.003	290.394
Duct Repair	ton	0.041	0.092	307.814
PTAC-HP Coil Cleaning (20 tons) p/ton	ton	0.000	0.093	175.818
DX Tune Up	ton	0.000	0.101	190.901

DX RTU Re-commissioning	ton	0.075	0.167	245.376
Thermal Energy Storage (TES)	ton	0.000	0.782	1235.743
Window Film (Standard)	p/1000 sf	0.000	3.129	6100.385
Ceiling Insulation \leq R11 to R19 to 2014	p/1000 sf	0.458	0.191	383.805
Ceiling insulation \leq R11 to R30	p/1000 sf	0.688	0.287	573.335
Roof Insulation \leq R11 to R19 to 2014	p/1000 sf	0.458	0.191	383.805
Cool Roof with Roof Insulation \leq R11 to R19	p/1000 sf	0.440	0.852	1780.017
Cool Roof - Chiller	p/1000 sf	0.000	0.411	890.272
Cool Roof - DX	p/1000 sf	0.000	0.752	1566.757
Green Roof	p/1000 sf	0.754	1.091	2282.054
Compressed Air Tune Up	KW	1.055	1.055	3908.718
High Efficiency Motors > 200 HP (225HP) p/HP	hp	0.000	0.011	22.875
Electronically Commutated Motors (ECM) (750 x .067 HP)	hp	0.000	0.039	144.494
Ice Maker	per 137lbs / day usage	0.000	0.000	591.687

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Premium T8, EB 2010 (with AC Savings)	fixture	0.022	0.068	260.827
Induction Lighting /Cold Cathode	fixture	0.040	0.122	588.523
Vending Mizers	per machine	0.160	0.112	788.916
CMH 39 Ceramic MH (RFL150) 2010 (with AC Savings)	fixture	0.051	0.154	566.648
High Bay T5 2010 (with AC Savings)	fixture	0.076	0.229	801.150
LED Display Lighting 2010 (with AC Savings)	fixture	0.120	0.364	1048.020
Oversized air cooled condenser (Refrigeration)	Ton	0.135	0.165	1327.867
Building Commisioning	per 1000 sq. ft.	0.000	0.206	2096.744
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	Ton	0.000	0.030	63.223
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	Ton	0.000	0.050	106.876
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	Ton	0.000	0.049	103.126
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	Ton	0.000	0.050	105.470
Chiller--Air cooled 1.17 kw/ton (50 tons) 2010	Ton	0.000	0.094	172.912
Chiller--Air cooled 1.05 kw/ton (50 tons) 2013	Ton	0.000	0.086	161.018

DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	Ton	0.000	0.101	192.541
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	Ton	0.000	0.070	135.529
Hybrid Desiccant-DX EER 10.6 (Trane CDO) 2010	Ton	0.000	0.159	512.057
Hybrid Desiccant-DX EER 11.1 (Trane CDO) 2013	Ton	0.000	0.168	485.748
Geothermal Heat Pump EER/COP 14.1/3.3 2010	Ton	0.780	0.337	1020.188
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	Ton	0.792	0.307	988.781
SEER 13 HP to SEER 14 HP 2010	Ton	0.029	0.102	215.217
SEER 14.5 HP to SEER 16 HP 2013	Ton	0.035	0.112	242.933
SEER 13 HP to SEER 15 HP 2010	Ton	0.047	0.171	363.051
SEER 14.5 HP to SEER 17 HP 2013	Ton	0.035	0.164	349.164
SEER 13 HP to SEER 17 HP 2010	Ton	0.064	0.283	598.835
SEER 14.5 HP to SEER 18 HP 2013	Ton	0.033	0.210	443.384
PTAC-PTHP 11k EER/COP 10.8-2.95 2010	Ton	0.712	0.084	581.257
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	Ton	0.769	0.080	621.980
15 SEER A/C	Ton	0.000	0.112	300.501
16 SEER A/C	Ton	0.000	0.155	422.646
19+ SEER A/C	Ton	0.000	0.257	711.422

Demand Control Ventilation (DCV) 2010	Ton	0.201	0.062	136.525
Variable speed drive control	HP	0.026	0.028	810.010
VSD for chiller and tower pumps (Cooling)	Ton	0.001	0.041	182.463
Heat Pipe	1000 CFM	0.000	0.696	2964.129
Multiplex Compressor system	Ton	0.172	0.210	1693.637
Energy Recovery Ventilation (ERV) 2010	p/100 CFM	0.807	0.172	120.001
Thermal Energy Storage (TES)	Ton	0.000	0.782	1235.743
Window Film SHGC .40 (Standard) 2010	p/1000 sf	0.000	2.800	5330.923
Window Film SHGC .36 (Standard) 2013	p/1000 sf	0.000	2.097	3910.593
Roof Insulation R-11 to R-19 2010	p/1000 sf	0.403	0.157	371.993
Roof Insulation R-13 to R-19 2013	p/1000 sf	2.552	1.002	234.565
Cool Roof with Insulation R11 to R19 2010	p/1000 sf	0.403	0.663	1496.092
Cool Roof with Insulation R15 to R19 2013	p/1000 sf	0.148	0.437	977.918
Cool Roof - Chiller .60 kw/ton 2010	p/1000 sf	0.000	0.367	832.369
Cool Roof - Chiller .55 kw/ton 2013	p/1000 sf	0.000	0.382	866.014
Cool Roof - DX EER 9 2010	p/1000 sf	0.000	0.648	1401.274
Cool Roof - DX EER 10 2013	p/1000 sf	0.000	0.585	1280.828

Green Roof	p/1000 sf	0.403	0.734	1621.918
High Efficiency Motors > 200 HP (225HP) p/HP	hp	0.000	0.011	22.875
Electronically Commutated Motors (ECM) (750 x .067 HP)	hp	0.000	0.039	144.494
Ice Maker	per 137lbs / day usage	0.000	0.000	591.687

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Window film/sun screen	100 sf	0.000	0.359	670.789
HVAC tune-up /clean	per 1 unit	0.000	0.285	323.793
CF23	1 Lamp	0.016	0.081	203.557
CF18	1 Lamp	0.012	0.060	150.822
CF15	1 Lamp	0.009	0.047	119.181
CF11	1 Lamp	0.006	0.031	76.993
WH wrap	1 WH	0.010	0.050	302.597
WH temp	1 WH	0.001	0.007	67.676
Aerators	per areator	0.007	0.033	30.464
Ref brush	1 Brush	0.010	0.052	150.685
Ref therm	1 Thermo	0.010	0.051	46.212
Switch plate thermometer	1 Plate Thermo	0.015	0.077	178.285
AC weatherization kit	per Rm AC	0.021	0.103	55.337
Foam Insulation	1 Can	0.166	0.166	150.639
Caulk	1 Tube	0.006	0.031	48.513

Weather stripping	1 door	0.021	0.103	124.261
Door sweep	1 sweep	0.016	0.082	60.570
AC filter -- 12	12 filters	0.060	0.301	268.271
Glass tape	1 Roll @25ft	0.033	0.166	150.639
Insulation	1200 FtSq	0.791	0.443	565.319

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
CFL 60W to 13-15W (Guest Room)	Per CFL	0.033	0.104	112.853
Refrigerator Thermometer	1 Thermo	0.011	0.053	46.407
Switch plate thermometer	1 Plate Thermo	0.011	0.074	178.244
Smart Strip	Per Business	0.105	0.105	351.215

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
EMS Tie In	participant	0.000	30.460	0.000
A/C Cycling	participant	0.000	5.080	0.000
Awareness	participant	0.565	0.565	1871.148

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Solar PV	participant	0.000	8.330	44158.000

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Schools K-12	participant	0.000	3.390	17663.000

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Schools Post Secondary	participant	0.000	33.000	176633.000

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Standby	participant	425.080	425.080	0.000

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Interruptible	participant	336.790	321.300	0.000

Measure Information		At the Generator		
Measure Name	Unit	WKW per unit	SKW per unit	Annual kWh per unit
Curtable	participant	299.680	200.850	0.000

Measure Name	@ Generator		Annual kWh per unit
	WKW per unit	SKW per unit	
Early Replace. 15 SEER A/C	0	0.49568409	667.9102888
Early Replace. 15 SEER A/C	0	0.35389266	612.5506959
Early Replace. 15 SEER HP to HP	0.10663653	0.49568409	702.2507669
Early Replace. 15 SEER HP to HP	0.05781028	0.35389266	621.0784934
Early Replace. 15 SEER Strip to HP	1.17417366	0.49568409	1129.249213
Early Replace. 15 SEER Strip to HP	0.63747552	0.35389266	722.5660024
Early Replace. 16 SEER A/C	0	0.57068121	770.9926584
Early Replace. 16 SEER A/C	0	0.40701562	707.3939288
Early Replace. 16 SEER HP to HP	0.13827594	0.57068121	773.3632705
Early Replace. 16 SEER HP to HP	0.07499712	0.40701562	718.4591289
Early Replace. 16 SEER Strip to HP	1.20581307	0.57068121	1242.547597
Early Replace. 16 SEER Strip to HP	0.65466236	0.40701562	819.9466378
Early Replace. 19+ SEER A/C	0	0.74294022	1014.332533
Early Replace. 19+ SEER A/C	0	0.53044838	931.3337667
Early Replace. 19+ SEER HP to HP	0.15936888	0.74294022	1065.145425
Early Replace. 19+ SEER HP to HP	0.08671542	0.53044838	944.2582703
Early Replace. 19+ SEER Strip to HP	1.22690601	0.74294022	1492.143871
Early Replace. 19+ SEER Strip to HP	0.66559944	0.53044838	1045.746561
14 SEER Strip to HP	1.043994	0.095877	536.9112
14 SEER Strip to HP	0.5848497	0.0681792	218.3865
15 SEER A/C	0	0.1693827	231.1701
15 SEER A/C	0	0.1267707	227.9742
15 SEER HP to HP	0.0447426	0.1693827	241.8231
15 SEER HP to HP	0.0241468	0.1267707	231.1701
15 SEER Strip to HP	1.0653	0.1693827	650.8983
15 SEER Strip to HP	0.596568	0.1267707	304.6758
16 SEER A/C	0	0.2364966	324.9165
16 SEER A/C	0	0.1768398	320.6553
16 SEER HP to HP	0.0735057	0.2364966	341.9613
16 SEER HP to HP	0.0404814	0.1768398	325.9818
16 SEER Strip to HP	1.097259	0.2364966	754.2324

16 SEER Strip to HP	0.6125475	0.1768398	398.4222
19+ SEER A/C	0	0.394161	546.4989
19+ SEER A/C	0	0.2950881	540.1071
19+ SEER HP to HP	0.09225498	0.394161	564.609
19+ SEER HP to HP	0.0511344	0.2950881	545.4336
19+ SEER Strip to HP	1.118565	0.394161	981.1413
19+ SEER Strip to HP	0.6242658	0.2950881	618.9393
Duct Repair	0.884199	0.394161	472.9932
Duct Repair	0.202407	0.170448	203.4723
Duct Test	0	0	0
Geothermal Heat Pumps	1.0503858	0.1693827	647.7024
HVAC Commissioning	0.223713	0.415467	610.4169
HVAC Commissioning	0.0671139	0.1246401	183.2316
HVAC Tune-up	0.28187838	0.52348842	780.1990875
HVAC Tune-up	0.084563514	0.157046526	234.0597263
HVAC Plenum Seal	0	0	0
HVAC Plenum Seal	0	0	0
HVAC Proper Sizing	0.5177358	0.1693827	0
HVAC Proper Sizing	0.15532074	0.05081481	0
HVAC QI Bundle Commissioning Plem Seal and :	0.79961418	0.69287112	780.1990875
HVAC QI Bundle Commissioning Plem Seal and :	0.239884254	0.207861336	234.0597263
Insulation - Wall (R5 to R10)	0.4623402	0.0926811	149.142
Attic Insulation < R15 to R30	0.2791086	0.1779051	260.9985
Attic Insulation <R15 to R30	0.1502073	0.0767016	122.5095
Attic Insulation R19	0.3749856	0.2396925	356.8755
Attic Insulation R19	0.2013417	0.1022688	165.1215
Attic Insulation R30	0.4985604	0.3185247	470.8626
Attic Insulation R30	0.2673903	0.1363584	218.3865
Reflective Roof	0	0.340896	480.4503
Reflective Roof	0	0.340896	480.4503
Reflective Roof Coating	0	0.000628527	0.8884602
Window Film (west only)	0	0.007659507	4.8812046
Window Film (west only)	0	0.007787343	5.0378037
Window Film (all but north)	0	0.0042612	5.390418

Window Film (all but north)	0	0.004644708	5.9411781
Windows .4/.3 (vinyl)	0.0074571	0.0042612	6.0327939
Windows .4/.3 (vinyl)	0.00724404	0.00415467	6.2224173
Windows .65/.4 (alum)	0.0053265	0.003121329	4.506219
Windows .65/.4 (alum)	0.00511344	0.00298284	4.676667
Heat Pump Water Heater	0.3494184	0.1203789	1587.297

Measure Name	WKW per unit	SKW per unit	@ Generator
			Annual kWh per unit
15 SEER HP	0.0276978	0.12080502	226.9089
15 SEER HP	0.026589888	0.115972819	217.832544
16 SEER HP	0.04570137	0.16895658	322.7859
16 SEER HP	0.043873315	0.162198317	309.874464
19+ SEER HP	0.05773926	0.28113267	530.5194
19+ SEER HP	0.05542969	0.269887363	509.298624
Seal Ducts	0.362202	0.085224	176.8398
Seal Ducts	0.15574686	0.03664632	76.041114
Energy Star - 2 HA measures installed	1.118565	1.064064252	1861.691648
Energy Star - 2 HA measures installed	0.392626968	0.373788203	663.1838723
Geothermal Heat Pumps	0.1331625	0.1736439	376.0509
HVAC Commissioning	0.2087988	0.3877692	577.92525
HVAC Commissioning	0.06263964	0.11633076	173.377575
HVAC ACCA Quality Installation	0.65665092	0.54394218	867.9798075
HVAC ACCA Quality Installation	0.196995276	0.163182654	260.3939423
Insulation - Advanced Wall	0.797836656	0.121360348	228.663461
	0	0	0
Multi-Family Heat Pump Installation - incentive covers increment:	0.8437176	0	593.3721
Code Plus 20 - > 20% of current FI Energy Code, aligns with \$2,000	1.27836	1.086606	2609.985
Windows .4/.3	0.00255672	0.00149142	2.748474
Windows .4/.3	0.00255672	0.00149142	2.748474
Heat Pump Water Heater	0.3494184	0.1203789	1587.297

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Insulation	0.798975	0.447426	571.0008
Solar Screen/Window film	0	0.42612	757.6921095
HVAC Tune-up	0.18284003	0.339560056	506.0750838
12 SEER Room A/C	0	0.191754	269.5209
CF23	-0.00724404	0.05347806	125.7054
CF18	-0.0053265	0.03962916	92.6811
CF15	-0.0042612	0.03131982	73.5057
CF11	-0.00276978	0.02013417	46.8732
Water Heater Wrap	0.053265	0.031959	305.7411
Water Heater Temp set	0.010653	0.010653	68.1792
Faucet Aerators	0.0330243	0	30.8937
Low flow Showerhead	0.159795	0	153.4032
Refrigerator Coil Brush	0	0.0234366	156.5991
Refrigerator Thermometer	0	0.00692445	46.8732
Wall Switch Plate Thermometer	0.0937464	0.0372855	164.0562
AC Window unit Winter Kit	0.10653	0	21.306
Foam Insulation on Pipe Penetrations	0.0511344	0.031959	58.5915
HVAC Caulking	0.0308937	0	49.0038
Weather Strip	0.1043994	0.074571	133.1625
Door Sweep	0.053265	0.042612	71.3751
AC Filters - annual supply	0.027964125	0.074571	106.53
Glass Tape - window repair	0.042612	0.031959	56.4609

Measure Name	WKW per unit	@ Generator	
		SKW per unit	Annual kWh per unit
Window Film/ Screen Single Family	0	0.005106338	156.1985472
Roof Coating	0	0.000419018	1066.15224
Weatherization Reduce Infiltration	0.255672	0.10653	221.5824
Weatherization 2006 Insulation R-19	0.500691	0.223713	332.3736
Weatherization 2006 Insulation R-30	0.660486	0.308937	511.344
Weatherization Duct Test	0	0	0
Weatherization 2006 Duct Repair - Ducted System	0.873546	0.436773	294.0228
Weatherization Duct Repair-NonDucted System	0	0.436773	151.2726
Weatherization 2006 Heat Pump to Heat Pump SEER 14	0.767016	0.575262	696.7062
Weatherization 2006 Heat Pump to Heat Pump SEER 15	0.830934	0.756363	882.0684
Weatherization 2006 Resist Heat to Heat Pump SEER 14	3.30243	0.660486	1734.3084
Weatherization 2006 Resist Heat to Heat Pump SEER 15	3.366348	0.873546	1999.5681
Weatherization HVAC Tune Up	0.53265	0.276978	344.0919
Weatherization Compact Fluorescent Light Bulb	0	0.063918	122.5095
Weatherization Refrigerator coil brush	0	0.021306	155.5338
Weatherization Wrap Water Heater	0.031959	0.010653	177.9051
Weatherization Heat Pump Water Heater	0.287631	0.234366	1073.8224
Weatherization Low Flow Showerhead	0.127836	0.10653	153.4032
Weatherization Faucet Aerator	0.021306	0.021306	30.8937
Energy Star window A/C	0	0.191754	269.5209
AC Window unit Winter Kit	0.10653	0	21.306

Education Workshop & LIWAP Kit

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Free Walk-Through w/Kit	0.10653	0.10653	508.1481
Paid Walk-Through HEC			
Mail-in HEC	0.0266325	0.0266325	88.4199
Online HEC	0.0266325	0.0266325	88.4199
Phone Assisted HEC	0.0266325	0.0266325	88.4199
Kiosk HEC	0.0266325	0.0266325	88.4199
Advertising			
Trade (events like home shows)	0.0266325	0.0266325	88.4199
Credit for upgrade to a Free Walk-Through HEC from any other	0.0798975	0.0798975	419.7282
Energy Efficiency Kit credit - Free Walk-Through	0.0372855	0.0980076	272.7168
Energy Efficiency Kit credit - except Free Walk-Through	0.0372855	0.0980076	272.7168

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Water heater blanket on old water heaters	0.046081858	0.025373746	286.9028377
Annual maintenance	0.0686	0.1274	190
Install solar window screens	0	0.2686	130
Replace current HVAC system with high efficiency model with ECM (16+SEER)	0.22626972	0.226229829	715.5902195
Pool Pump (2 speed)	0.034	0.175	820
Pool Pump (variable)	0.1	0.5	2358
CFL discounts thru retailers	0	0.004	41.5
Freezer Recycling	0	0.3	997
Refrigerator Recycling	0	0.3	1168
Air Filters	0.284	0.12	100

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Solar Water Heating for Low Income	0.43	0.39	2466

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Solar Water Heating with Energy Management	2.28	1.18	1831

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Residential Solar Photovoltaics	0	1.66	8887

Measure Name	@ Generator		
	WKW per unit	SKW per unit	Annual kWh per unit
Residential Energy Management	2.6	1.15	0

Better Business

A	B	C	D	E	F	G	H	I
1	INPUT DATA - PART 1					PSC FORM CE 1.1		PAGE 1 OF 1
2	PROGRAM TITLE: Better Business							
3								
4							RUN DATE:	March 21, 2010
5	PROGRAM DEMAND SAVINGS & LINE LOSSES				AVOIDED GENERATOR, TRANS. & DIST COSTS			
6	I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST	IV. (1) BASE YEAR			2008	
7	I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST	IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT			2013	
8	I. (3) KW LINE LOSS PERCENTAGE	5.47	%	IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D			2010	
9	I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR	IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST			753.71	\$/KW
10	I. (5) KWH LINE LOSS PERCENTAGE	5.47	%	IV. (5) BASE YEAR AVOIDED TRANSMISSION COST			212.59	\$/KW
11	I. (6) GROUP LINE LOSS MULTIPLIER	1		IV. (6) BASE YEAR DISTRIBUTION COST			5.67	\$/KW
12	I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER		KWH/CUST/YR	IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE			2.5	%
13	I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR	IV. (8) GENERATOR FIXED O & M COST			69.65	\$/KW/YR
14				IV. (9) GENERATOR FIXED O&M ESCALATION RATE			2.25	%
15	ECONOMIC LIFE & K FACTORS				IV. (10) TRANSMISSION FIXED O & M COST		1.43	\$/KW/YR
16	II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS	IV. (11) DISTRIBUTION FIXED O & M COST			1.93	\$/KW/YR
17	II. (2) GENERATOR ECONOMIC LIFE	25	YEARS	IV. (12) T&D FIXED O&M ESCALATION RATE			2.5	%
18	II. (3) T & D ECONOMIC LIFE	25	YEARS	IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS			0.364	CENTS/KWH
19	II. (4) K FACTOR FOR GENERATION	1.429		IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE			2.25	%
20	II. (5) K FACTOR FOR T & D	1.429		IV. (15) GENERATOR CAPACITY FACTOR			13.53	%
21	(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)			IV. (16) AVOIDED GENERATING UNIT FUEL COST			10.29	CENTS/KWH
22				IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE			2.25	%
23				IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW			95.67	\$/KW/YR
24	UTILITY & CUSTOMER COSTS				IV. (19)* CAPACITY COST ESCALATION RATE		4	%
25	III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST					
26	III. (2) UTILITY RECURRING COST PER CUSTOMER		\$/CUST/YR					
27	III. (3) UTILITY COST ESCALATION RATE	2.25	%	NON-FUEL ENERGY AND DEMAND CHARGES				
28	III. (4) CUSTOMER EQUIPMENT COST		\$/CUST					
29	III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%	V. (1) NON-FUEL COST IN CUSTOMER BILL			4.625	CENTS/KWH
30	III. (6) CUSTOMER O & M COST		\$/CUST/YR	V. (2) NON-FUEL ESCALATION RATE			1.00	%
31	III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%	V. (3) CUSTOMER DEMAND CHARGE PER KW				\$/KW/MO
32	III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION		\$/CUST	V. (4) DEMAND CHARGE ESCALATION RATE			1.0	%
33	III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE		%	V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT			1	
34	III. (10)* INCREASED SUPPLY COSTS		\$/CUST/YR	FACTOR FOR CUSTOMER BILL			1	
35	III. (11)* SUPPLY COSTS ESCALATION RATE		%	V. (6) Fuel Cost in Customer Bill			6.620	11.25 cents/kWh
36	III. (12)* UTILITY DISCOUNT RATE	8.48	%					
37	III. (13)* UTILITY AFUDC RATE	8.48	%					
38	III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST					
39	III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR					
40	III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE		%					
41								
42	* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK							
43					EPA Carbon 1 = yes, 0 = No		1.00	

INPUT DATA - PART 1

PROGRAM TITLE: Business Energy Saver

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Business Energy Response

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: **Commercial Education**

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES		
I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS		
II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS		
III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS		
IV. (1) BASE YEAR		2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT		2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D		2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71	\$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59	\$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67	\$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5	%
IV. (8) GENERATOR FIXED O & M COST	69.65	\$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25	%
IV. (10) TRANSMISSION FIXED O & M COST	1.43	\$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93	\$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5	%
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364	CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25	%
IV. (15) GENERATOR CAPACITY FACTOR	13.53	%
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29	CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25	%
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67	\$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4	%

NON-FUEL ENERGY AND DEMAND CHARGES		
V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625	CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00	%
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00	\$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0	%
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1	
V. (6) Fuel Cost in Customer Bill	6.620	11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Commercial Green Building

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Innovation Incentive

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	5.47 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Commercial/Industrial New Construction

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: **Photovoltaics for Schools**

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	5.47 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48 %
III. (13)* UTILITY AFUDC RATE	8.48 %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Commercial Research & Development

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR		2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT		2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D		2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST		753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST		212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST		5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE		2.5 %
IV. (8) GENERATOR FIXED O & M COST		69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE		2.25 %
IV. (10) TRANSMISSION FIXED O & M COST		1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST		1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE		2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS		0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE		2.25 %
IV. (15) GENERATOR CAPACITY FACTOR		13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST		10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE		2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW		95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE		4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625	CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00	%
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00	\$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0	%
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1	
V. (6) Fuel Cost in Customer Bill	6.620	11.25 cents/kWh

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Commercial Solar Photovoltaic

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %	
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %	
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %	
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %	
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %	
III. (12)* UTILITY DISCOUNT RATE	8.48 %	
III. (13)* UTILITY AFUDC RATE	8.48 %	
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %	

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Standby Generation

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR		2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT		2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D		2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST		753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST		212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST		5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE		2.5 %
IV. (8) GENERATOR FIXED O & M COST		69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE		2.25 %
IV. (10) TRANSMISSION FIXED O & M COST		1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST		1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE		2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS		0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE		2.25 %
IV. (15) GENERATOR CAPACITY FACTOR		13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST		10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE		2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW		95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE		4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL		4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE		1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW		0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE		1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL		1
V. (6) Fuel Cost in Customer Bill		6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Curtailable

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	5.47 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.47 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Interruptible

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	3.21 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	3.21 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	4.625 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1
V. (6) Fuel Cost in Customer Bill	6.620 11.25 cents/kWh

EPA Carbon 1 = yes, 0 = No

1.00

INPUT DATA - PART 1

PROGRAM TITLE: Residential Education

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.53	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	6.53	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER		KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER		\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Residential Energy Management

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.53	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	6.53	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER		KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER		\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Home Energy Improvement

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	6.53 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Low Income Weatherization

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER		KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER		KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.53	%
I. (4) GENERATION KWH REDUCTION PER CUSTOMER		KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	6.53	%
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER		KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER		KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30	YEARS
II. (2) GENERATOR ECONOMIC LIFE	25	YEARS
II. (3) T & D ECONOMIC LIFE	25	YEARS
II. (4) K FACTOR FOR GENERATION	1.429	
II. (5) K FACTOR FOR T & D	1.429	
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0	

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER		\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER		\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25	%
III. (4) CUSTOMER EQUIPMENT COST		\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5	%
III. (6) CUSTOMER O & M COST		\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5	%
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0	\$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0	%
III. (10)* INCREASED SUPPLY COSTS	0	\$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0	%
III. (12)* UTILITY DISCOUNT RATE	8.48	%
III. (13)* UTILITY AFUDC RATE	8.48	%
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE		\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE		\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0	%

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: **Neighborhood Energy Saver**

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.53 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Residential New Construction

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	6.53 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Residential Solar Photovoltaic

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.53 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Solar Water Heating for Low Income Residential

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	6.53 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

INPUT DATA - PART 1

PROGRAM TITLE: Solar Water Heating with Energy Management

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	6.53 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

INPUT DATA - PART 1

PROGRAM TITLE: Technical Potential

RUN DATE: March 21, 2010

PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	KW /CUST	
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	KW GEN/CUST	
I. (3) KW LINE LOSS PERCENTAGE	6.53 %	
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	KWH/CUST/YR	
I. (5) KWH LINE LOSS PERCENTAGE	6.53 %	
I. (6) GROUP LINE LOSS MULTIPLIER	1	
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	KWH/CUST/YR	
I. (8)* CUSTOMER KWH REDUCTION AT METER	KWH/CUST/YR	

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.429
II. (5) K FACTOR FOR T & D	1.429
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	\$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	\$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.25 %
III. (4) CUSTOMER EQUIPMENT COST	\$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
III. (6) CUSTOMER O & M COST	\$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.5 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	8.48% %
III. (13)* UTILITY AFUDC RATE	8.48% %
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	\$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	\$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2008
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2013
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2010
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	753.71 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	212.59 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	5.67 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.5 %
IV. (8) GENERATOR FIXED O & M COST	69.65 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.25 %
IV. (10) TRANSMISSION FIXED O & M COST	1.43 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	1.93 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.5 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.364 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.25 %
IV. (15) GENERATOR CAPACITY FACTOR	13.53 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	10.29 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.25 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	95.67 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	4 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	13.000 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	0.00 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.0 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Better Business - TRC

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)	
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANTS COST \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)		
2010	1,288	68	0		1,356	10,471	0	0	0	1,346	11,817	-10,461	
2011	2,776	139	0		2,915	11,273	0	0	0	1,478	12,751	-9,836	
2012	3,726	211	0		3,936	11,473	0	0	0	1,533	13,006	-9,069	
2013	6,048	272	1,775		8,095	11,476	0	0	0	1,675	13,152	-5,057	
2014	5,562	336	3,446		9,343	11,790	0	0	0	1,742	13,532	-4,189	
2015	7,575	413	4,296		12,284	18,054	0	0	0	2,840	20,894	-8,610	
2016	9,880	507	5,473		15,860	24,536	0	0	0	4,026	28,562	-12,703	
2017	14,518	620	4,766		19,904	31,567	0	0	0	5,456	37,023	-17,119	
2018	16,166	765	9,208		26,139	44,002	0	0	0	7,843	51,846	-25,706	
2019	20,517	954	11,639		33,110	61,219	0	0	0	11,202	72,421	-39,311	
2020	20,157	926	11,519		32,601					0	0	32,601	
2021	19,870	891	11,305		32,066					0	0	32,066	
2022	22,979	871	6,042		29,892					0	0	29,892	
2023	23,871	847	9,829		34,546					0	0	34,546	
2024	20,263	819	9,944		31,027					0	0	31,027	
2025	18,857	746	9,190		28,793					0	0	28,793	
2026	20,016	663	5,372		26,051					0	0	26,051	
2027	15,687	570	8,335		24,592					0	0	24,592	
2028	13,493	473	7,108		21,074					0	0	21,074	
2029	11,672	352	3,239		15,263					0	0	15,263	
2030	10,614	302	4,647		15,562					0	0	15,562	
2031	9,099	251	4,013		13,362					0	0	13,362	
2032	7,138	194	3,226		10,557					0	0	10,557	
2033	4,657	130	2,260		7,046					0	0	7,046	
2034	1,660	59	1,102		2,821					0	0	2,821	
2035	1,557	54	1,042		2,653					0	0	2,653	
2036	1,394	46	935		2,376					0	0	2,376	
2037	1,119	36	759		1,914					0	0	1,914	
2038	711	22	483		1,216					0	0	1,216	
NOMINAL	312,863	12,539	140,951	0	466,353	235,861	0	0	0	39,142	275,003	191,350	
NPV	102,672	4,415	45,407	0	152,494	0	123,570	0	0	19,973	143,542	0	8,952

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.062

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.062

PROGRAM: Business Energy Saver Program - TRC

YEAR	BENEFITS						COSTS						NET BENEFITS \$(000)	Pgm Escalation Rate	UTILITY PROGRAM COSTS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)		(6) PARTICIPANTS COST \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)			
0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2010	26	2	0	0	29	294	0	0	0	23	317	-289		3.12	104
2011	54	5	0	0	59	268	0	0	0	23	292	-233		2.80	125
2012	74	7	0	0	81	311	0	0	0	28	339	-258		2.71	125
2013	137	10	60	0	208	266	0	0	0	28	294	-87		2.35	146
2014	120	13	122	0	255	319	0	0	0	33	352	-97		2.41	146
2015	150	15	144	0	309	244	0	0	0	33	276	32		1.89	167
2016	195	18	175	0	387	253	0	0	0	37	291	96		1.74	167
2017	298	20	141	0	459	228	0	0	0	37	265	194		1.59	182
2018	283	22	243	0	547	236	0	0	0	41	277	271		1.52	182
2019	302	23	265	0	590	239	0	0	0	41	280	311		1.53	
2020	266	20	232	0	518						0	518			
2021	223	17	195	0	434						0	434			
2022	238	14	88	0	340						0	340		324	1,344
2023	202	11	116	0	329						0	329			
2024	122	8	87	0	216						0	216			
2025	97	6	70	0	173						0	173			
2026	88	4	32	0	125						0	125			
2027	46	2	34	0	83						0	83			
2028	37	2	29	0	68						0	68			
2029	32	1	14	0	47						0	47			
2030	31	1	20	0	52						0	52			
2031	26	1	18	0	45						0	45			
2032	22	1	16	0	39						0	39			
2033	17	1	14	0	31						0	31			
2034	14	1	11	0	25						0	25			
2035	7	0	8	0	15						0	15			
2036	6	0	4	0	10						0	10			
2037				0	0						0	0			
2038				0	0						0	0			
NOMINAL	3,109	225	2,139	0	5,473	2,659	0	0	0	324	2,983	2,490			
NPV	1,292	100	866	0	2,257	1,640	0	0	0	187	1,827	430			

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.236

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.236

PROGRAM: Commercial Educational Tools - TRC

YEAR	BENEFITS					COSTS						(12) NET BENEFITS \$(000)	Pgm Escalation Rate	UTILITY PROGRAM COSTS \$(000)		
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COST \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)					
2010	281	15	0	0	296	177	0	0	0	1,843	2,020	-1,723				
2011	588	31	0	0	618	180	0	0	0	1,717	1,897	-1,279	2.0089038	2.23	850	2.67
2012	792	47	0	0	839	186	0	0	0	1,694	1,879	-1,041	1.9466123	2.16	869	2.36
2013	1,345	63	405	0	1,812	193	0	0	0	1,502	1,695	118	1.716912	1.91	888	2.41
2014	1,206	74	749	0	2,029	203	0	0	0	1,128	1,331	698	1.7581802	1.95	681	1.90
2015	1,415	80	815	0	2,310	120	0	0	0	610	729	1,581	1.3820947	1.54	475	1.76
2016	1,472	77	799	0	2,348	126	0	0	0	568	693	1,655	1.2847641	1.43	486	1.61
2017	1,704	74	535	0	2,312	129	0	0	0	517	646	1,665	1.1718606	1.30	496	1.55
2018	1,416	65	727	0	2,208	133	0	0	0	503	636	1,572	1.1282565	1.25	508	1.56
2019	1,318	56	622	0	1,996	134	0	0	0	520	654	1,342	1.1344856	1.26	519	
2020	1,077	45	498	0	1,620	0	0	0	0	0	0	1,620				
2021	912	39	437	0	1,388	0	0	0	0	0	0	1,388		10,601	6,603	
2022	816	32	198	0	1,047	0	0	0	0	0	0	1,047				
2023	618	25	263	0	906	0	0	0	0	0	0	906				
2024	306	19	201	0	526	0	0	0	0	0	0	526				
2025	207	13	138	0	358	0	0	0	0	0	0	358				
2026	132	6	46	0	184	0	0	0	0	0	0	184				
2027	0	0	0	0	0	0	0	0	0	0	0	0				
2028	0	0	0	0	0	0	0	0	0	0	0	0				
2029	0	0	0	0	0	0	0	0	0	0	0	0				
2030	0	0	0	0	0	0	0	0	0	0	0	0				
2031	0	0	0	0	0	0	0	0	0	0	0	0				
2032	0	0	0	0	0	0	0	0	0	0	0	0				
2033	0	0	0	0	0	0	0	0	0	0	0	0				
2034	0	0	0	0	0	0	0	0	0	0	0	0				
2035	0	0	0	0	0	0	0	0	0	0	0	0				
2036	0	0	0	0	0	0	0	0	0	0	0	0				
2037	0	0	0	0	0	0	0	0	0	0	0	0				
2038	0	0	0	0	0	0	0	0	0	0	0	0				
NOMINAL	15,602	761	6,433	0	22,796	1,581	0	0	0	10,601	12,181	10,615				
NPV	7,789	389	3,020	0	11,198	988	0	0	0	7,150	8,138	3,060				

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.376

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.376

PROGRAM: Business Energy Response - TRC

YEAR	BENEFITS					COSTS						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	5	0	0	0	5	0	0	0	0	10,940	10,940	-10,936
2011	7	0	0	0	7	0	0	0	0	13,780	13,780	-13,772
2012	9,439	585	0	0	10,024	0	0	0	0	20,734	20,734	-10,709
2013	20,588	995	6,833	0	28,416	0	0	0	0	24,301	24,301	4,115
2014	14,629	995	14,287	0	29,911	0	0	0	0	21,551	21,551	8,360
2015	15,044	995	17,343	0	33,382	0	0	0	0	21,108	21,108	12,275
2016	21,330	995	5,590	0	27,916	0	0	0	0	19,847	19,847	8,068
2017	18,064	995	11,468	0	30,527	0	0	0	0	16,634	16,634	13,893
2018	21,707	995	24,557	0	47,259	0	0	0	0	12,966	12,966	34,293
2019	21,301	995	26,546	0	48,843	0	0	0	0	10,218	10,218	38,625
2020	21,328	995	26,239	0	48,562	0	0	0	0	8,343	8,343	40,219
2021	20,062	995	27,736	0	48,793	0	0	0	0	7,446	7,446	41,348
2022	26,688	995	12,328	0	40,011	0	0	0	0	6,934	6,934	33,077
2023	28,736	995	20,599	0	50,330	0	0	0	0	5,241	5,241	45,089
2024	22,729	995	28,753	0	52,477	0	0	0	0	3,294	3,294	49,184
2025	22,101	995	29,640	0	52,736	0	0	0	0	2,709	2,709	50,027
2026	29,665	995	14,489	0	45,149	0	0	0	0	2,574	2,574	42,576
2027	24,986	995	35,271	0	61,252	0	0	0	0	2,371	2,371	58,881
2028	24,502	995	28,191	0	53,688	0	0	0	0	2,092	2,092	51,596
2029	26,767	995	7,254	0	35,016	0	0	0	0	1,687	1,687	33,329
2030	28,311	995	12,393	0	41,699	0	0	0	0	1,930	1,930	39,769
2031	29,254	995	12,787	0	43,036	0	0	0	0	2,175	2,175	40,861
2032	30,279	995	13,227	0	44,501	0	0	0	0	2,686	2,686	41,815
2033	31,193	995	13,940	0	46,128	0	0	0	0	2,643	2,643	43,485
2034	31,757	995	14,097	0	46,849	0	0	0	0	2,770	2,770	44,078
2035	33,317	995	14,967	0	49,279	0	0	0	0	2,912	2,912	46,367
2036	34,539	995	15,674	0	51,207	0	0	0	0	2,818	2,818	48,389
2037	35,549	995	16,113	0	52,657	0	0	0	0	8,298	8,298	44,358
NOMINAL	643,871	25,464	450,324	0	1,119,659	0	0	0	0	241,001	241,001	878,658
NPV	188,439	8,450	141,000	0	337,889	0	0	0	0	130,891	130,891	206,998

Utility Discount Rate = 8.48

Benefit Cost Ratio = 2.581

Utility Discount Rate: 8.48
Benefit Cost Ratio: 2.581

PROGRAM: Commercial Green Building - TRC

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)	Pgm Escalation Rate	UTILITY PROGRAM COSTS \$(000)	
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COST \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)				
0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2010	42	1	0	0	43	426	0	0	0	236	663	-620	34.51	5	
2011	107	4	0	0	110	606	0	0	0	84	690	-580	31.60	8	
2012	171	6	0	0	177	847	0	0	0	69	916	-738	28.76	10	
2013	382	12	73	0	468	1,754	0	0	0	92	1,846	-1,378	17.96	20	
2014	450	18	170	0	637	1,724	0	0	0	72	1,795	-1,158	20.59	20	
2015	692	24	235	0	951	2,188	0	0	0	359	2,547	-1,596	28.81	23	
2016	899	31	309	0	1,239	2,323	0	0	0	373	2,696	-1,457	39.53	23	
2017	1,132	35	252	0	1,419	1,549	0	0	0	377	1,925	-507	75.13	15	
2018	1,136	38	438	0	1,612	1,347	0	0	0	357	1,703	-91	108.47	13	
2019	1,252	41	480	0	1,773	1,107	0	0	0	308	1,415	358	153.95	10	
2020	1,272	41	490	0	1,803							1,803			
2021	1,319	41	501	0	1,861							0			
2022	1,482	41	274	0	1,796							1,861		145	
2023	1,573	41	457	0	2,071							0			
2024	1,458	41	477	0	1,976							1,796			
2025	1,445	40	468	0	1,953							2,071		2,326	
2026	1,564	38	292	0	1,893							0			
2027	1,369	35	488	0	1,891							0			
2028	1,182	29	418	0	1,629							1,893			
2029	1,063	23	204	0	1,291							0			
2030	814	17	249	0	1,079							1,629			
2031	527	11	162	0	699							0			
2032	327	6	101	0	434							0			
2033	150	3	47	0	200							0			
2034				0	0							0			
2035				0	0							0			
2036				0	0							0			
NOMINAL	21,803	618	6,583	0	29,005	13,870	0	0	0	2,326	16,196	0	12,808		
NPV	7,184	216	2,163	0	9,563	7,916	0	0	0	1,284	9,200	0	363		

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.039

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.039

PROGRAM: Business New Construction - TRC

YEAR	BENEFITS						COSTS					(12) NET BENEFITS \$(000)	Pgm Escalation Rate	UTILITY PROGRAM COSTS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)		(6) PARTICIPANTS COST \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)			
0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0		
2010	328	20	0	348	348	3,245	0	0	0	615	3,860	-3,512	2.76	362
2011	721	43	0	763	763	3,776	0	0	0	777	4,553	-3,790	2.67	457
2012	987	67	0	1,054	1,054	4,213	0	0	0	906	5,119	-4,065	2.36	533
2013	1,761	93	581	2,435	2,435	4,923	0	0	0	1,162	6,085	-3,650	2.41	683
2014	1,638	121	1,188	2,947	2,947	5,285	0	0	0	1,283	6,568	-3,621	1.90	754
2015	2,229	153	1,539	3,921	3,921	7,015	0	0	0	1,853	8,868	-4,948	1.76	1,090
2016	2,822	184	1,938	4,944	4,944	7,525	0	0	0	2,254	9,778	-4,834	1.61	1,326
2017	4,153	218	1,653	6,023	6,023	9,086	0	0	0	2,793	11,879	-5,855	1.55	1,643
2018	4,278	256	3,081	7,616	7,616	10,500	0	0	0	3,281	13,781	-6,165	1.56	1,930
2019	4,946	298	3,675	8,918	8,918	11,630	0	0	0	3,688	15,318	-6,400		2,169
2020	4,839	291	3,676	8,806	8,806						0	8,806		
2021	4,656	284	3,673	8,613	8,613						0	8,613		10,948
2022	5,653	278	1,967	7,898	7,898						0	7,898		
2023	5,903	271	3,220	9,394	9,394						0	9,394		18,611
2024	4,598	264	3,292	8,155	8,155						0	8,155		
2025	4,366	252	3,210	7,828	7,828						0	7,828		
2026	5,178	242	2,037	7,456	7,456						0	7,456		
2027	3,992	231	3,539	7,762	7,762						0	7,762		
2028	3,794	222	3,494	7,510	7,510						0	7,510		
2029	4,357	213	2,052	6,623	6,623						0	6,623		
2030	4,300	201	3,244	7,745	7,745						0	7,745		
2031	4,075	189	3,197	7,461	7,461						0	7,461		
2032	3,804	177	3,131	7,112	7,112						0	7,112		
2033	3,414	164	3,029	6,607	6,607						0	6,607		
2034	3,025	151	2,910	6,086	6,086						0	6,086		
2035	3,040	137	2,752	5,929	5,929						0	5,929		
2036	3,104	121	2,540	5,766	5,766						0	5,766		
2037	3,139	102	2,223	5,464	5,464						0	5,464		
2038	3,156	79	1,793	5,027	5,027						0	5,027		
NOMINAL	102,251	5,325	68,634	0	176,210	67,198	0	0	0	18,611	85,809	90,401		
NPV	29,209	1,629	18,032	0	48,870	36,940	0	0	0	9,872	46,812	2,058		

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.044

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.044

PROGRAM: Commercial Solar PV

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	26	1	0	191	218	0	193	938	1,130	-912
2011	132	4	0	733	869	0	92	3,594	3,686	-2,817
2012	212	7	0	733	953	0	93	3,594	3,687	-2,734
2013	363	10	72	733	1,178	0	94	3,594	3,687	-2,509
2014	373	14	148	733	1,268	0	95	3,594	3,688	-2,420
2015	419	14	151	0	583	0	0	0	0	583
2016	433	14	0	0	447	0	0	0	0	447
2017	398	14	0	0	412	0	0	0	0	412
2018	440	14	177	0	631	0	0	0	0	631
2019	450	14	181	0	644	0	0	0	0	644
2020	459	14	185	0	657	0	0	0	0	657
2021	469	14	189	0	671	0	0	0	0	671
2022	533	14	103	0	650	0	0	0	0	650
2023	569	14	172	0	754	0	0	0	0	754
2024	515	14	180	0	709	0	0	0	0	709
2025	532	14	183	0	728	0	0	0	0	728
2026	610	14	120	0	743	0	0	0	0	743
2027	564	14	218	0	795	0	0	0	0	795
2028	586	14	223	0	822	0	0	0	0	822
2029	590	14	0	0	603	0	0	0	0	603
2030	578	13	0	0	590	0	0	0	0	590
2031	451	10	0	0	461	0	0	0	0	461
2032	314	6	0	0	320	0	0	0	0	320
2033	162	3	0	0	165	0	0	0	0	165
2034	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0
NOMINAL	10,175	271	2,302	3,124	15,872	0	566	15,313	15,879	-7
NPV	4,052	116	951	2,594	7,713	0	498	12,714	13,213	-5,500

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.584

PROGRAM: Standby Generation - TRC

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2010	15	0	0	0	15	0	63	0	63	-48
2011	37	0	0	0	37	0	68	0	68	-31
2012	42	0	0	0	42	0	73	0	73	-31
2013	975	0	1,949	0	2,924	0	78	0	78	2,846
2014	0	0	3,839	0	3,839	87	83	0	170	3,669
2015	0	0	4,682	0	4,682	716	88	0	804	3,878
2016	140	0	5,203	0	5,343	0	93	0	93	5,250
2017	1,498	0	6,233	0	7,731	0	98	0	98	7,633
2018	2,040	0	8,261	0	10,301	0	103	0	103	10,198
2019	1,708	0	9,368	0	11,076	0	108	0	108	10,968
2020	1,557	0	9,565	0	11,122	0	50	0	50	11,072
2021	632	0	9,767	0	10,398	0	50	0	50	10,348
2022	3,629	0	5,337	0	8,965	0	50	0	50	8,915
2023	3,999	0	8,911	0	12,910	0	50	0	50	12,860
2024	1,139	0	9,305	0	10,444	0	50	0	50	10,394
2025	584	0	9,464	0	10,048	0	50	0	50	9,998
2026	3,639	0	6,234	0	9,872	0	50	0	50	9,822
2027	1,315	0	11,267	0	12,582	0	50	0	50	12,532
2028	1,169	0	11,535	0	12,704	0	50	0	50	12,654
2029	3,138	0	6,061	0	9,199	0	50	0	50	9,149
2030	3,434	0	10,141	0	13,574	0	50	0	50	13,524
2031	3,517	0	10,546	0	14,063	0	50	0	50	14,013
2032	3,532	0	10,968	0	14,500	0	50	0	50	14,450
2033	3,460	0	11,407	0	14,867	0	50	0	50	14,817
2034	3,634	0	11,863	0	15,497	0	50	0	50	15,447
2035	3,528	0	12,338	0	15,866	0	50	0	50	15,816
2036	3,469	0	12,831	0	16,300	0	50	0	50	16,250
NOMINAL	59,093	0	234,299	0	293,391	803	1,807	0	2,609	290,782
NPV	14,764	0	65,746	0	80,510	539	810	0	1,349	79,161

Utility Discount Rate = 8.48

Benefit Cost Ratio = 59.683

PROGRAM: SunSense for Schools

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT'S BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) TOTAL FUEL & O&M INCREASE \$(000)	(7) UTILITY PROGRAM COSTS \$(000)	(8) PARTICIPANT'S COST \$(000)	(9) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	2	0	0	0	2	0	256	0	256	-254
2011	38	1	0	0	39	0	522	0	522	-483
2012	67	2	0	0	69	0	988	0	988	-918
2013	119	3	24	0	146	0	1,408	0	1,408	-1,262
2014	124	4	49	0	177	0	1,784	0	1,784	-1,606
2015	138	4	50	98	290	0	1,613	0	1,613	-1,323
2016	144	4	0	1,538	1,686	0	1,348	0	1,348	338
2017	132	4	0	1,538	1,674	0	926	0	926	749
2018	146	4	59	1,538	1,746	0	548	0	548	1,198
2019	149	4	60	1,538	1,750	0	216	0	216	1,534
2020	151	4	61	0	217	0	0	58	58	159
2021	156	4	62	0	222	0	0	700	700	-478
2022	175	4	34	0	214	0	0	700	700	-486
2023	189	4	57	0	250	0	0	700	700	-450
2024	170	4	59	0	234	0	0	700	700	-466
2025	176	4	60	0	240	0	0	0	0	240
2026	201	4	40	0	246	0	0	0	0	246
2027	187	4	72	0	263	0	0	0	0	263
2028	194	4	74	0	272	0	0	0	0	272
2029	194	4	0	0	198	0	0	0	0	198
2030	200	4	0	0	204	0	0	0	0	204
2031	157	3	0	0	160	0	0	0	0	160
2032	110	2	0	0	112	0	0	0	0	112
2033	57	1	0	0	58	0	0	0	0	58
2034	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0
NOMINAL	3,372	90	761	6,248	10,470	0	9,609	2,858	12,466	-1,996
NPV	1,329	38	314	3,419	5,100	0	6,782	1,042	7,824	-2,724

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.652

8.48

PROGRAM: Residential Solar PV - 5 kW @ \$2.00/Watt

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)	NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)		
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	22	1	0	216	239	0	110	906	1,017	-778	1,017
2011	114	3	0	863	980	0	97	3,625	3,722	-2,741	3,722
2012	185	6	0	863	1,053	0	100	3,625	3,725	-2,672	3,725
2013	317	9	63	863	1,251	0	103	3,625	3,728	-2,477	3,728
2014	326	12	130	863	1,330	0	107	3,625	3,732	-2,402	3,732
2015	366	12	132	0	509	0	0	0	0	509	0
2016	378	12	0	0	390	0	0	0	0	390	0
2017	348	12	0	0	360	0	0	0	0	360	0
2018	385	12	155	0	552	0	0	0	0	552	0
2019	393	12	158	0	563	0	0	0	0	563	0
2020	400	12	161	0	574	0	0	188	188	386	188
2021	409	12	165	0	586	0	0	750	750	-164	750
2022	466	12	90	0	568	0	0	750	750	-182	750
2023	497	12	150	0	659	0	0	750	750	-91	750
2024	450	12	157	0	619	0	0	750	750	-131	750
2025	464	12	160	0	636	0	0	0	0	636	0
2026	532	12	105	0	649	0	0	0	0	649	0
2027	493	12	190	0	695	0	0	0	0	695	0
2028	512	12	195	0	718	0	0	0	0	718	0
2029	515	12	0	0	526	0	0	0	0	526	0
2030	505	11	0	0	516	0	0	0	0	516	0
2031	395	8	0	0	403	0	0	0	0	403	0
2032	275	6	0	0	280	0	0	0	0	280	0
2033	141	3	0	0	143	0	0	0	0	143	0
2034	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	8,885	237	2,012	3,666	14,800	0	517	18,594	19,111	-4,311	19,111
NPV	3,537	101	831	3,042	7,511	0	442	13,958	14,400	-6,889	19,111

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.522

PROGRAM: Low-Income Solar WH

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)	NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)		
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	44	0	44	-44	44
2011	7	0	0	0	7	0	35	114	149	-142	149
2012	13	0	0	0	14	0	36	115	150	-137	150
2013	24	1	4	0	29	0	36	115	151	-122	151
2014	26	1	9	0	35	0	36	116	152	-117	152
2015	29	1	9	0	39	0	0	2	2	36	2
2016	31	1	9	0	41	0	0	2	2	38	2
2017	31	1	9	0	41	0	0	2	2	39	2
2018	30	1	10	0	41	0	0	2	2	39	2
2019	31	1	11	0	42	0	0	2	2	40	2
2020	31	1	11	0	43	0	0	2	2	40	2
2021	32	1	11	0	44	0	0	2	2	41	2
2022	36	1	6	0	43	0	0	2	2	41	2
2023	38	1	10	0	49	0	0	2	2	47	2
2024	36	1	11	0	47	0	0	2	2	45	2
2025	37	1	11	0	48	0	0	2	2	46	2
2026	42	1	7	0	50	0	0	2	2	48	2
2027	39	1	13	0	52	0	0	2	2	50	2
2028	41	1	13	0	54	0	0	2	2	52	2
2029	44	1	7	0	51	0	0	2	2	49	2
2030	47	1	11	0	59	0	0	2	2	57	2
2031	36	1	9	0	45	0	0	2	2	43	2
2032	25	1	6	0	31	0	0	2	2	29	2
2033	12	0	3	0	15	0	0	1	1	14	1
2034	0	0	0	0	0	0	0	1	1	-1	1
2035	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	714	20	188	0	922	0	187	504	691	231	691
NPV	278	8	73	0	359	0	161	392	553	-194	470

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.650

PROGRAM: Residential Solar WH with LM of HVAC & WH

YEAR	BENEFITS					COSTS				NET BENEFITS	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		(10)
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)		NET BENEFITS \$(000)
2008	0	0	0	0	0	0	0	0	0	0	
2009	0	0	0	0	0	0	0	0	0	0	
2010	207	7	0	1,097	1,310	0	338	4,275	4,613	-3,302	
2011	644	21	0	2,194	2,858	0	626	8,573	9,198	-6,340	
2012	966	35	0	2,194	3,195	0	638	8,618	9,255	-6,060	
2013	1,579	49	1,070	2,194	4,892	0	650	8,663	9,313	-4,421	
2014	1,623	64	2,167	2,194	6,047	0	662	8,708	9,370	-3,323	
2015	1,835	64	2,202	0	4,101	0	51	203	253	3,848	
2016	1,872	64	4,055	0	5,991	0	51	203	253	5,737	
2017	1,855	64	4,250	0	6,169	0	51	203	253	5,915	
2018	1,879	64	2,591	0	4,533	0	51	203	253	4,280	
2019	1,927	64	2,644	0	4,634	0	51	203	253	4,381	
2020	1,959	64	2,699	0	4,722	0	51	203	253	4,469	
2021	2,038	64	2,756	0	4,857	0	51	203	253	4,604	
2022	2,263	64	1,506	0	3,832	0	51	203	253	3,579	
2023	2,414	64	2,515	0	4,992	0	51	203	253	4,739	
2024	2,216	64	2,626	0	4,906	0	51	203	253	4,653	
2025	2,293	64	2,671	0	5,028	0	51	203	253	4,774	
2026	2,597	64	1,759	0	4,419	0	51	203	253	4,166	
2027	2,433	64	3,180	0	5,676	0	51	203	253	5,423	
2028	2,511	64	3,255	0	5,829	0	51	203	253	5,576	
2029	2,777	64	2,929	0	5,770	0	51	203	253	5,516	
2030	2,597	57	4,917	0	7,570	0	51	203	253	7,317	
2031	2,019	42	3,835	0	5,896	0	45	180	225	5,671	
2032	1,396	28	2,659	0	4,083	0	34	135	169	3,914	
2033	720	14	1,382	0	2,116	0	23	90	113	2,003	
2034	0	0	0	0	0	0	11	45	56	-56	
2035	0	0	0	0	0	0	0	0	0	0	
2036	0	0	0	0	0	0	0	0	0	0	
2037	0	0	0	0	0	0	0	0	0	0	
2038	0	0	0	0	0	0	0	0	0	0	
NOMINAL	44,615	1,273	57,668	9,872	113,427	0	3,837	42,525	46,362	67,066	
NPV	15,157	467	18,473	7,041	41,138	0	2,360	28,811	31,171	9,967	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.320

PROGRAM: Curtailable Service - TRC

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2010	1	0	0	0	1	0	0	0	0	1
2011	3	0	0	0	3	0	1	0	1	2
2012	3	0	0	0	3	0	1	0	1	2
2013	48	0	92	0	140	0	2	0	2	139
2014	0	0	182	0	182	2	2	0	4	178
2015	0	0	222	0	222	30	3	0	33	189
2016	10	0	367	0	377	0	3	0	3	374
2017	106	0	440	0	546	0	4	0	4	542
2018	99	0	391	0	491	0	4	0	4	487
2019	83	0	444	0	527	0	5	0	5	522
2020	77	0	453	0	530	0	5	0	5	525
2021	35	0	463	0	497	0	5	0	5	492
2022	174	0	253	0	427	0	5	0	5	422
2023	192	0	422	0	614	0	5	0	5	609
2024	58	0	441	0	499	0	5	0	5	494
2025	31	0	448	0	479	0	5	0	5	474
2026	174	0	295	0	469	0	5	0	5	464
2027	66	0	534	0	600	0	5	0	5	595
2028	59	0	547	0	606	0	5	0	5	601
2029	220	0	428	0	647	0	5	0	5	642
2030	242	0	715	0	956	0	5	0	5	951
2031	247	0	744	0	990	0	5	0	5	985
2032	249	0	773	0	1,022	0	5	0	5	1,017
2033	243	0	804	0	1,047	0	5	0	5	1,042
2034	255	0	836	0	1,091	0	5	0	5	1,086
2035	247	0	870	0	1,117	0	5	0	5	1,112
2036	242	0	905	0	1,147	0	5	0	5	1,142
2037	250	0	941	0	1,191	0	5	0	5	1,186
2038	258	0	978	0	1,236	0	5	0	5	1,231
NOMINAL	3,668	0	13,987	0	17,654	32	118	0	149	17,505
NPV	855	0	3,652	0	4,508	21	36	0	57	4,450

Utility Discount Rate = 8.48
Benefit Cost Ratio = 78.800

8.48

PROGRAM: Interruptible Service - TRC

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2010	1	0	0	0	1	0	16	0	16	-15
2011	3	0	0	0	3	0	17	0	17	-14
2012	3	0	0	0	3	0	17	0	17	-14
2013	76	0	147	0	223	0	18	0	18	205
2014	0	0	290	0	290	4	18	0	22	267
2015	0	0	353	0	353	51	19	0	70	284
2016	12	0	412	0	424	0	19	0	19	405
2017	119	0	493	0	612	0	20	0	20	592
2018	155	0	623	0	779	0	20	0	20	759
2019	130	0	707	0	837	0	21	0	21	816
2020	120	0	722	0	841	0	5	0	5	836
2021	50	0	737	0	787	0	5	0	5	782
2022	274	0	403	0	677	0	5	0	5	672
2023	301	0	672	0	974	0	5	0	5	969
2024	88	0	702	0	790	0	5	0	5	785
2025	45	0	714	0	759	0	5	0	5	754
2026	273	0	470	0	743	0	5	0	5	738
2027	103	0	850	0	953	0	5	0	5	948
2028	91	0	871	0	962	0	5	0	5	957
2029	247	0	479	0	726	0	5	0	5	721
2030	270	0	802	0	1,071	0	5	0	5	1,066
2031	277	0	834	0	1,110	0	5	0	5	1,105
2032	280	0	867	0	1,147	0	5	0	5	1,142
2033	272	0	902	0	1,174	0	5	0	5	1,169
2034	286	0	938	0	1,224	0	5	0	5	1,219
2035	277	0	976	0	1,253	0	5	0	5	1,248
2036	273	0	1,015	0	1,287	0	5	0	5	1,282
2037	280	0	1,055	0	1,335	0	5	0	5	1,330
2038	289	0	1,098	0	1,386	0	5	0	5	1,381
NOMINAL	4,590	0	18,133	0	22,724	56	278	0	333	22,391
NPV	1,141	0	5,046	0	6,187	37	150	0	187	6,000

Utility Discount Rate = 8.48

Benefit Cost Ratio = 33.061

PROGRAM: Res Education - TRC

YEAR	BENEFITS						COSTS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	5,245	384	0	0	5,629	1,071	0	0	0	13,744	14,815	-9,186
2011	10,752	772	0	0	11,523	1,356	0	0	0	12,380	13,736	-2,213
2012	14,375	1,169	0	0	15,543	1,693	0	0	0	14,708	16,401	-858
2013	23,620	1,567	6,218	0	31,405	2,046	0	0	0	17,354	19,400	12,005
2014	22,647	1,966	12,291	0	36,904	2,220	0	0	0	17,204	19,424	17,480
2015	25,758	1,982	12,595	0	40,335	2,698	0	0	0	20,674	23,373	16,962
2016	26,954	1,996	18,442	0	47,392	3,299	0	0	0	25,032	28,332	19,060
2017	32,886	2,001	38,107	0	72,994	4,041	0	0	0	30,378	34,419	38,575
2018	28,888	2,007	14,997	0	45,892	4,560	0	0	0	33,978	38,538	7,354
2019	29,419	2,014	15,361	0	46,794	5,192	0	0	0	38,349	43,541	3,253
2020	23,813	1,614	12,569	0	37,996	0	0	0	0	0	0	37,996
2021	18,299	1,213	9,646	0	29,157	0	0	0	0	0	0	29,157
2022	14,244	810	3,521	0	18,576	0	0	0	0	0	0	18,576
2023	7,605	406	2,947	0	10,959	0	0	0	0	0	0	10,959
2024	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	284,505	19,900	146,694	0	451,099	28,176	0	0	0	223,802	251,978	199,121
NPV	144,247	10,267	69,735	0	224,249	15,249	0	0	0	124,176	139,425	84,825

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.608

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.608

PROGRAM: Residential Energy Management - TRC

YEAR	BENEFITS					COSTS								NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)		
2008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	
2009	\$ 11,715	\$ -	\$ 22,992	\$ -	\$ 34,707	\$ -	\$ -	\$ -	\$ 11,040	\$ -	\$ -	\$ 11,040	\$ 23,667	
2010	\$ 18,068	\$ -	\$ 24,095	\$ -	\$ 42,163	\$ -	\$ -	\$ -	\$ 14,663	\$ -	\$ -	\$ 14,663	\$ 27,500	
2011	\$ 16,995	\$ -	\$ 24,864	\$ -	\$ 41,859	\$ -	\$ -	\$ -	\$ 15,594	\$ -	\$ -	\$ 15,594	\$ 26,265	
2012	\$ 20,049	\$ -	\$ 25,849	\$ -	\$ 45,898	\$ -	\$ -	\$ -	\$ 20,678	\$ -	\$ -	\$ 20,678	\$ 25,220	
2013	\$ 20,247	\$ -	\$ 37,713	\$ -	\$ 57,961	\$ -	\$ -	\$ -	\$ 51,400	\$ -	\$ -	\$ 51,400	\$ 6,561	
2014	\$ 10,580	\$ -	\$ 38,662	\$ -	\$ 49,242	\$ 748	\$ -	\$ -	\$ 86,236	\$ -	\$ -	\$ 86,984	\$ (37,742)	
2015	\$ -	\$ -	\$ 64,114	\$ -	\$ 64,114	\$ 14,256	\$ -	\$ -	\$ 116,400	\$ -	\$ -	\$ 130,656	\$ (66,542)	
2016	\$ -	\$ -	\$ 74,989	\$ -	\$ 74,989	\$ 3,262	\$ -	\$ -	\$ 109,266	\$ -	\$ -	\$ 112,528	\$ (37,539)	
2017	\$ 41,029	\$ -	\$ 138,858	\$ -	\$ 179,887	\$ -	\$ -	\$ -	\$ 103,536	\$ -	\$ -	\$ 103,536	\$ 76,351	
2018	\$ 18,217	\$ -	\$ 83,569	\$ -	\$ 101,786	\$ -	\$ -	\$ -	\$ 87,234	\$ -	\$ -	\$ 87,234	\$ 14,553	
2019	\$ 12,907	\$ -	\$ 87,782	\$ -	\$ 100,689	\$ -	\$ -	\$ -	\$ 71,723	\$ -	\$ -	\$ 71,723	\$ 28,966	
2020	\$ 11,535	\$ -	\$ 90,312	\$ -	\$ 101,848	\$ -	\$ -	\$ -	\$ 44,303	\$ -	\$ -	\$ 44,303	\$ 57,545	
2021	\$ 1,999	\$ -	\$ 92,926	\$ -	\$ 94,925	\$ -	\$ -	\$ -	\$ 41,690	\$ -	\$ -	\$ 41,690	\$ 53,235	
2022	\$ 27,501	\$ -	\$ 64,346	\$ -	\$ 91,847	\$ -	\$ -	\$ -	\$ 40,952	\$ -	\$ -	\$ 40,952	\$ 50,895	
2023	\$ 36,212	\$ -	\$ 65,153	\$ -	\$ 101,365	\$ -	\$ -	\$ -	\$ 37,514	\$ -	\$ -	\$ 37,514	\$ 63,851	
2024	\$ 7,724	\$ -	\$ 90,921	\$ -	\$ 98,644	\$ -	\$ -	\$ -	\$ 32,173	\$ -	\$ -	\$ 32,173	\$ 66,471	
2025	\$ 1,994	\$ -	\$ 93,165	\$ -	\$ 95,159	\$ -	\$ -	\$ -	\$ 25,873	\$ -	\$ -	\$ 25,873	\$ 69,285	
2026	\$ 26,493	\$ -	\$ 73,667	\$ -	\$ 100,160	\$ -	\$ -	\$ -	\$ 18,648	\$ -	\$ -	\$ 18,648	\$ 81,512	
2027	\$ 10,415	\$ -	\$ 112,704	\$ -	\$ 123,119	\$ -	\$ -	\$ -	\$ 15,418	\$ -	\$ -	\$ 15,418	\$ 107,702	
2028	\$ 8,654	\$ -	\$ 116,169	\$ -	\$ 124,822	\$ -	\$ -	\$ -	\$ 13,784	\$ -	\$ -	\$ 13,784	\$ 111,038	
2029	\$ 16,099	\$ -	\$ 104,848	\$ -	\$ 120,947	\$ -	\$ -	\$ -	\$ 11,632	\$ -	\$ -	\$ 11,632	\$ 109,315	
2030	\$ 25,618	\$ -	\$ 107,591	\$ -	\$ 133,209	\$ -	\$ -	\$ -	\$ 12,569	\$ -	\$ -	\$ 12,569	\$ 120,639	
2031	\$ 25,406	\$ -	\$ 111,895	\$ -	\$ 137,300	\$ -	\$ -	\$ -	\$ 14,355	\$ -	\$ -	\$ 14,355	\$ 122,945	
2032	\$ 24,979	\$ -	\$ 116,370	\$ -	\$ 141,349	\$ -	\$ -	\$ -	\$ 18,485	\$ -	\$ -	\$ 18,485	\$ 122,864	
2033	\$ 23,109	\$ -	\$ 121,026	\$ -	\$ 144,135	\$ -	\$ -	\$ -	\$ 17,853	\$ -	\$ -	\$ 17,853	\$ 126,281	
2034	\$ 25,401	\$ -	\$ 125,866	\$ -	\$ 151,267	\$ -	\$ -	\$ -	\$ 18,327	\$ -	\$ -	\$ 18,327	\$ 132,940	
2035	\$ 21,525	\$ -	\$ 130,901	\$ -	\$ 152,425	\$ -	\$ -	\$ -	\$ 18,906	\$ -	\$ -	\$ 18,906	\$ 133,519	
2036	\$ 19,424	\$ -	\$ 136,137	\$ -	\$ 155,560	\$ -	\$ -	\$ -	\$ 18,082	\$ -	\$ -	\$ 18,082	\$ 137,478	
2037	\$ 20,426	\$ -	\$ 141,582	\$ -	\$ 162,008	\$ -	\$ -	\$ -	\$ 40,207	\$ -	\$ -	\$ 40,207	\$ 121,801	
NOMINAL	504,317	0	2,519,066	0	3,023,383	18,265	0	0	1,128,540	0	0	1,146,805	0	1,876,578
NPV	185,672	0	764,857	0	950,529	11,090	0	0	520,291	0	0	531,381	0	419,148

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.789

Utility Discount Rate: 8.48
Benefit Cost Ratio: #REF!

PROGRAM: Res HEI - TRC

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANTS COST \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	3,650	375	0	0	4,025	20,483	0	0	0	7,140	27,623	-23,598
2011	8,164	766	0	0	8,929	25,450	0	0	0	9,722	35,172	-26,243
2012	11,273	1,177	0	0	12,450	32,441	0	0	0	12,281	44,722	-32,272
2013	20,481	1,599	8,068	0	30,148	41,057	0	0	0	15,126	56,183	-26,035
2014	18,477	2,053	16,312	0	36,841	47,242	0	0	0	17,471	64,713	-27,872
2015	25,017	2,549	20,589	0	48,155	62,146	0	0	0	22,914	85,060	-36,905
2016	33,359	3,096	31,293	0	67,748	82,279	0	0	0	30,357	112,635	-44,888
2017	46,115	3,698	44,978	0	94,790	109,103	0	0	0	40,318	149,422	-54,631
2018	52,961	4,362	41,456	0	98,779	133,256	0	0	0	49,365	182,620	-83,842
2019	61,306	5,094	49,435	0	115,835	164,221	0	0	0	61,004	225,225	-109,390
2020	61,725	5,094	50,470	0	117,289	0	0	0	0	0	0	117,289
2021	61,233	5,094	51,536	0	117,863	0	0	0	0	0	0	117,863
2022	76,810	5,084	28,096	0	109,989	0	0	0	0	0	0	109,989
2023	79,618	5,040	40,524	0	125,181	0	0	0	0	0	0	125,181
2024	64,017	4,993	48,036	0	117,045	0	0	0	0	0	0	117,045
2025	59,581	4,676	45,826	0	110,083	0	0	0	0	0	0	110,083
2026	70,414	4,354	28,100	0	102,868	0	0	0	0	0	0	102,868
2027	54,372	4,011	46,783	0	105,166	0	0	0	0	0	0	105,166
2028	49,389	3,645	43,505	0	96,539	0	0	0	0	0	0	96,539
2029	53,065	3,254	24,784	0	81,102	0	0	0	0	0	0	81,102
2030	47,236	2,761	37,024	0	87,021	0	0	0	0	0	0	87,021
2031	37,661	2,244	31,956	0	71,860	0	0	0	0	0	0	71,860
2032	30,492	1,761	26,954	0	59,207	0	0	0	0	0	0	59,207
2033	22,140	1,227	20,818	0	44,185	0	0	0	0	0	0	44,185
2034	11,720	637	11,423	0	23,780	0	0	0	0	0	0	23,780
2035	10,649	559	10,374	0	21,583	0	0	0	0	0	0	21,583
2036	9,416	474	9,062	0	18,952	0	0	0	0	0	0	18,952
2037	7,898	380	7,442	0	15,720	0	0	0	0	0	0	15,720
2038	6,109	278	5,465	0	11,852	0	0	0	0	0	0	11,852
NOMINAL	1,094,341	80,336	780,308	0	1,954,985	717,678	0	0	0	265,698	983,376	971,609
NPV	342,598	26,897	237,658	0	607,154	373,711	0	0	0	138,303	512,013	95,141

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.186

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.186

PROGRAM: Low-Income Weatherization Assistance - TRC

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	78	8	0	0	86	0	417	330	748	-662
2011	139	15	0	0	154	0	211	383	594	-440
2012	197	25	0	0	222	0	308	530	837	-615
2013	408	38	187	0	632	0	456	737	1,193	-561
2014	374	53	402	0	828	0	563	858	1,421	-592
2015	525	69	534	0	1,128	0	816	1,075	1,892	-763
2016	755	88	1,160	0	2,002	0	1,160	1,227	2,387	-385
2017	1,113	102	1,467	0	2,681	0	1,619	1,433	3,053	-371
2018	1,191	119	1,050	0	2,360	0	2,046	1,659	3,705	-1,345
2019	1,355	136	1,222	0	2,713	0	2,577	1,951	4,528	-1,816
2020	1,275	126	1,157	0	2,558	0	0	0	0	2,558
2021	1,156	116	1,086	0	2,358	0	0	0	0	2,358
2022	1,357	106	540	0	2,003	0	0	0	0	2,003
2023	1,306	96	805	0	2,206	0	0	0	0	2,206
2024	931	85	738	0	1,754	0	0	0	0	1,754
2025	802	73	639	0	1,514	0	0	0	0	1,514
2026	862	61	345	0	1,268	0	0	0	0	1,268
2027	707	60	611	0	1,378	0	0	0	0	1,378
2028	679	57	592	0	1,327	0	0	0	0	1,327
2029	924	52	662	0	1,639	0	0	0	0	1,639
2030	889	47	997	0	1,933	0	0	0	0	1,933
2031	788	41	897	0	1,725	0	0	0	0	1,725
2032	659	34	764	0	1,456	0	0	0	0	1,456
2033	456	23	548	0	1,028	0	0	0	0	1,028
2034	218	12	286	0	515	0	0	0	0	515
2035	158	9	212	0	379	0	0	0	0	379
2036	97	5	131	0	233	0	0	0	0	233
2037	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0
NOMINAL	19,395	1,656	17,030	0	38,081	0	10,174	10,183	20,357	17,724
NPV	7,538	707	6,510	0	14,755	0	6,114	6,413	12,527	2,228

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.178

8.48

PROGRAM: Neighborhood Energy Saver - TRC

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	330	23	0	0	353	0	567	1,810	2,377	-2,024
2011	973	73	0	0	1,046	0	1,366	4,774	6,140	-5,094
2012	1,543	135	0	0	1,678	0	1,987	5,977	7,963	-6,286
2013	3,005	205	1,078	0	4,287	0	2,672	6,863	9,535	-5,248
2014	2,947	282	2,341	0	5,571	0	2,954	7,773	10,727	-5,156
2015	4,178	367	3,099	0	7,644	0	3,724	8,224	11,948	-4,304
2016	5,677	460	4,698	0	10,835	0	4,923	9,067	13,990	-3,155
2017	7,382	543	5,837	0	13,762	0	6,214	9,533	15,747	-1,985
2018	8,412	617	6,125	0	15,154	0	7,179	9,983	17,162	-2,008
2019	9,327	685	6,945	0	16,956	0	8,002	9,999	18,001	-1,045
2020	8,757	639	6,636	0	16,033	0	0	0	0	16,033
2021	7,948	584	6,172	0	14,704	0	0	0	0	14,704
2022	8,700	521	2,996	0	12,217	0	0	0	0	12,217
2023	7,979	451	4,310	0	12,740	0	0	0	0	12,740
2024	5,455	377	3,730	0	9,562	0	0	0	0	9,562
2025	4,205	298	2,961	0	7,464	0	0	0	0	7,464
2026	3,657	217	1,383	0	5,257	0	0	0	0	5,257
2027	2,525	185	2,083	0	4,794	0	0	0	0	4,794
2028	1,932	152	1,681	0	3,765	0	0	0	0	3,765
2029	1,879	112	1,447	0	3,438	0	0	0	0	3,438
2030	1,812	102	2,177	0	4,090	0	0	0	0	4,090
2031	1,622	90	1,979	0	3,691	0	0	0	0	3,691
2032	1,395	76	1,734	0	3,205	0	0	0	0	3,205
2033	1,127	62	1,436	0	2,625	0	0	0	0	2,625
2034	834	46	1,084	0	1,964	0	0	0	0	1,964
2035	574	31	761	0	1,365	0	0	0	0	1,365
2036	293	15	395	0	704	0	0	0	0	704
2037	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0
NOMINAL	104,465	7,348	73,088	0	184,900	0	39,587	74,003	113,590	71,310
NPV	46,244	3,372	30,658	0	80,274	0	24,345	48,721	73,066	7,208

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.099

PROGRAM: Res HA - TRC

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	343	36	0	0	379	2,839	0	0	0	764	3,604	-3,225
2011	848	80	0	0	928	3,247	0	0	0	891	4,138	-3,210
2012	1,216	128	0	0	1,343	4,119	0	0	0	1,120	5,239	-3,896
2013	2,223	178	785	0	3,186	5,263	0	0	0	1,419	6,682	-3,497
2014	2,276	256	1,782	0	4,314	7,209	0	0	0	2,144	9,353	-5,039
2015	3,256	337	2,383	0	5,976	9,188	0	0	0	2,677	11,864	-5,888
2016	4,419	422	6,522	0	11,362	11,920	0	0	0	3,408	15,328	-3,966
2017	6,759	513	8,306	0	15,577	15,830	0	0	0	4,464	20,295	-4,717
2018	7,147	609	5,065	0	12,821	19,224	0	0	0	5,331	24,554	-11,734
2019	8,418	714	6,060	0	15,191	23,883	0	0	0	6,546	30,429	-15,238
2020	8,493	714	6,186	0	15,394	0	0	0	0	0	0	15,394
2021	8,492	714	6,317	0	15,523	0	0	0	0	0	0	15,523
2022	10,387	713	3,443	0	14,543	0	0	0	0	0	0	14,543
2023	10,913	708	5,703	0	17,324	0	0	0	0	0	0	17,324
2024	8,954	703	5,901	0	15,558	0	0	0	0	0	0	15,558
2025	8,551	671	5,724	0	14,946	0	0	0	0	0	0	14,946
2026	9,993	634	3,553	0	14,179	0	0	0	0	0	0	14,179
2027	7,970	593	5,990	0	14,553	0	0	0	0	0	0	14,553
2028	7,418	550	5,654	0	13,621	0	0	0	0	0	0	13,621
2029	8,094	480	3,935	0	12,509	0	0	0	0	0	0	12,509
2030	7,778	405	7,753	0	15,936	0	0	0	0	0	0	15,936
2031	6,386	326	7,175	0	13,887	0	0	0	0	0	0	13,887
2032	5,270	256	6,283	0	11,808	0	0	0	0	0	0	11,808
2033	3,851	181	4,671	0	8,703	0	0	0	0	0	0	8,703
2034	2,242	100	2,708	0	5,050	0	0	0	0	0	0	5,050
2035	2,157	93	2,603	0	4,852	0	0	0	0	0	0	4,852
2036	2,081	86	2,481	0	4,648	0	0	0	0	0	0	4,648
2037	2,001	79	2,333	0	4,413	0	0	0	0	0	0	4,413
NOMINAL	157,929	11,282	119,314	0	288,525	102,722	0	0	0	28,765	131,487	157,039
NPV	47,343	3,678	34,328	0	85,349	53,153	0	0	0	14,890	68,043	17,306

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.254

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.254

PROGRAM: Technical Potential

YEAR	BENEFITS					COSTS				NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	2,620	133	0	0	2,753	0	17,838	5,321	23,158	-20,405
2011	5,054	221	0	0	5,274	0	17,840	5,321	23,161	-17,887
2012	8,152	384	0	0	8,535	0	27,185	8,159	35,344	-26,808
2013	15,914	599	3,494	0	20,006	0	36,551	10,995	47,546	-27,540
2014	17,844	809	7,489	0	26,142	0	37,406	11,350	48,757	-22,614
2015	34,169	1,386	12,889	0	48,443	0	83,514	25,541	109,055	-60,611
2016	55,940	2,148	14,840	0	72,928	0	120,382	37,247	157,629	-84,702
2017	78,892	3,102	22,122	0	104,116	0	162,714	50,400	213,114	-108,998
2018	112,877	4,253	46,890	0	164,019	0	199,636	62,788	262,424	-98,405
2019	149,632	5,410	61,190	0	216,232	0	210,743	66,662	277,405	-61,173
2020	143,327	4,806	56,949	0	205,082	0	0	0	0	205,082
2021	143,921	4,709	55,933	0	204,563	0	0	0	0	204,563
2022	149,715	4,511	26,460	0	180,686	0	0	0	0	180,686
2023	140,604	4,213	35,211	0	180,027	0	0	0	0	180,027
2024	113,095	3,875	45,450	0	162,421	0	0	0	0	162,421
2025	86,829	3,316	27,925	0	118,070	0	0	0	0	118,070
2026	60,155	2,651	13,380	0	76,186	0	0	0	0	76,186
2027	46,819	2,382	35,067	0	84,267	0	0	0	0	84,267
2028	34,877	2,072	13,893	0	50,843	0	0	0	0	50,843
2029	25,708	1,756	4,708	0	32,172	0	0	0	0	32,172
2030	24,469	1,570	7,043	0	33,082	0	0	0	0	33,082
2031	20,917	1,302	6,071	0	28,290	0	0	0	0	28,290
2032	15,418	930	4,510	0	20,857	0	0	0	0	20,857
2033	8,204	475	2,397	0	11,075	0	0	0	0	11,075
2034	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0
NOMINAL	1,495,145	57,015	503,912	0	2,056,072	0	913,810	283,783	1,197,593	858,479
NPV	615,352	22,905	205,495	0	843,751	0	539,926	167,116	707,042	136,709

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.193

Utility Discount Rate: 8.48

PROGRAM: **Better Business - Participant**

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)	Incentive Escalation Rate	INCENTIVE PAYMENTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)			
2010	1,403	7,539		8,942	10,471		10,471	-1,529	1.17	9,527
2011	3,067	8,116		11,183	11,273		11,273	-90	1.17	10,522
2012	4,546	8,260		12,806	11,473		11,473	1,333	1.17	11,303
2013	6,226	8,263		14,489	11,476		11,476	3,013	1.28	12,793
2014	8,067	8,489		16,555	11,790		11,790	4,765	1.30	14,199
2015	10,955	12,999		23,953	18,054		18,054	5,900	1.23	20,112
2016	13,309	17,666		30,975	24,536		24,536	6,439	1.16	26,415
2017	14,210	22,729		36,938	31,567		31,567	5,371	1.16	34,658
2018	16,880	31,682		48,562	44,002		44,002	4,559	1.19	45,956
2019	22,217	44,077		66,294	61,219		61,219	5,075	1.19	61,275
2020	22,289	0		22,289				22,289		
2021	23,424	0		23,424				23,424		
2022	23,107	0		23,107				23,107		
2023	23,085	0		23,085				23,085		
2024	22,864	0		22,864				22,864		
2025	21,419	0		21,419				21,419		
2026	19,565	0		19,565				19,565		
2027	17,314	0		17,314				17,314		
2028	14,779	0		14,779				14,779		
2029	11,387	0		11,387				11,387		
2030	10,019	0		10,019				10,019		
2031	8,459	0		8,459				8,459		
2032	6,506	0		6,506				6,506		
2033	4,121	0		4,121				4,121		
2034	1,267	0		1,267				1,267		
2035	1,174	0		1,174				1,174		
2036	1,037	0		1,037				1,037		
2037	828	0		828				828		
2038	524	0		524				524		
NOMINAL	334,047	169,820	0	503,867	235,861	0	235,861	268,006	169,820	246,759
NPV	112,920	88,970	0	201,890	123,570	0	123,570	78,321		

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.634

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.634

PROGRAM: Business Energy Saver Program - Participant

YEAR	BENEFITS					COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)		(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2010	27	294		321		294	294	27	
2011	57	268		326		268	268	57	
2012	87	311		399		311	311	87	
2013	125	266		391		266	266	125	
2014	170	319		489		319	319	170	
2015	218	244		461		244	244	218	
2016	251	253		505		253	253	251	
2017	248	228		476		228	228	248	
2018	260	236		496		236	236	260	
2019	294	239		533		239	239	294	
2020	266			266			0	266	
2021	248			248			0	248	
2022	210			210			0	210	
2023	173			173			0	173	
2024	130			130			0	130	
2025	106			106			0	106	
2026	78			78			0	78	
2027	49			49			0	49	
2028	39			39			0	39	
2029	28			28			0	28	
2030	23			23			0	23	
2031	18			18			0	18	
2032	15			15			0	15	
2033	13			13			0	13	
2034	10			10			0	10	
2035	7			7			0	7	
2036	4			4			0	4	
2037				0			0	0	
2038				0			0	0	
NOMINAL	3,154	2,659	0	5,813	0	2,659	2,659	3,154	
NPV	1,347	1,640	0	2,987	0	1,640	1,640	1,347	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.822

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.822

PROGRAM: Commercial Educational Tools - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2010	314	177	0	491	177	0	177	314
2011	679	180	0	859	180	0	180	679
2012	1,003	186	0	1,189	186	0	186	1,003
2013	1,429	193	0	1,622	193	0	193	1,429
2014	1,809	203	0	2,012	203	0	203	1,809
2015	2,108	120	0	2,227	120	0	120	2,108
2016	2,056	126	0	2,182	126	0	126	2,056
2017	1,767	129	0	1,896	129	0	129	1,767
2018	1,595	133	0	1,729	133	0	133	1,595
2019	1,571	134	0	1,706	134	0	134	1,571
2020	1,309	0	0	1,309	0	0	0	1,309
2021	1,155	0	0	1,155	0	0	0	1,155
2022	893	0	0	893	0	0	0	893
2023	631	0	0	631	0	0	0	631
2024	348	0	0	348	0	0	0	348
2025	241	0	0	241	0	0	0	241
2026	124	0	0	124	0	0	0	124
2027	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0
NOMINAL	19,034	1,581	0	20,614	1,581	0	1,581	19,034
NPV	9,596	988	0	10,584	988	0	988	9,596

Utility Discount Rate = 8.48
Benefit Cost Ratio = 10.716

Utility Discount Rate: 8.48
Benefit Cost Ratio: 10.716

PROGRAM: Business Energy Response - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	SAVINGS IN PARTICIPANT BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT COST \$(000)	BILL INCREASE \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	36	0	36	0	0	0	36
2011	0	61	0	61	0	0	0	61
2012	0	181	0	181	0	0	0	181
2013	0	301	0	301	0	0	0	301
2014	0	421	0	421	0	0	0	421
2015	0	541	0	541	0	0	0	541
2016	0	661	0	661	0	0	0	661
2017	0	781	0	781	0	0	0	781
2018	0	901	0	901	0	0	0	901
2019	0	1,016	0	1,016	0	0	0	1,016
2020	0	1,016	0	1,016	0	0	0	1,016
2021	0	1,016	0	1,016	0	0	0	1,016
2022	0	1,016	0	1,016	0	0	0	1,016
2023	0	1,016	0	1,016	0	0	0	1,016
2024	0	1,016	0	1,016	0	0	0	1,016
2025	0	1,016	0	1,016	0	0	0	1,016
2026	0	1,016	0	1,016	0	0	0	1,016
2027	0	1,016	0	1,016	0	0	0	1,016
2028	0	1,016	0	1,016	0	0	0	1,016
2029	0	1,016	0	1,016	0	0	0	1,016
2030	0	1,016	0	1,016	0	0	0	1,016
2031	0	1,016	0	1,016	0	0	0	1,016
2032	0	1,016	0	1,016	0	0	0	1,016
2033	0	1,016	0	1,016	0	0	0	1,016
2034	0	1,016	0	1,016	0	0	0	1,016
2035	0	1,016	0	1,016	0	0	0	1,016
2036	0	1,016	0	1,016	0	0	0	1,016
2037	0	1,016	0	1,016	0	0	0	1,016
NOMINAL	0	23,192	0	23,192	0	0	0	23,192
NPV	0	6,804	0	6,804	0	0	0	6,804

Utility Discount Rate = 6804.18

Benefit Cost Ratio = 9999

Utility Discount Rate: 8.48

PROGRAM: Commercial Green Building - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANTS COST \$(000)	(6) PARTICIPANTS BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2010	48	490		539	426		426	112
2011	129	697		825	606		606	220
2012	226	974		1,199	847		847	353
2013	450	2,017		2,467	1,754		1,754	713
2014	690	1,982		2,672	1,724		1,724	949
2015	1,028	2,517		3,544	2,188		2,188	1,356
2016	1,279	2,671		3,950	2,323		2,323	1,627
2017	1,262	1,781		3,043	1,549		1,549	1,495
2018	1,330	1,549		2,879	1,347		1,347	1,532
2019	1,497	1,273		2,770	1,107		1,107	1,663
2020	1,539	0		1,539	0		0	1,539
2021	1,666	0		1,666	0		0	1,666
2022	1,680	0		1,680	0		0	1,680
2023	1,721	0		1,721	0		0	1,721
2024	1,760	0		1,760	0		0	1,760
2025	1,742	0		1,742	0		0	1,742
2026	1,685	0		1,685	0		0	1,685
2027	1,595	0		1,595	0		0	1,595
2028	1,365	0		1,365	0		0	1,365
2029	1,128	0		1,128	0		0	1,128
2030	840	0		840	0		0	840
2031	537	0		537	0		0	537
2032	328	0		328	0		0	328
2033	150	0		150	0		0	150
2034				0			0	0
2035				0			0	0
2036				0			0	0
NOMINAL	25,673	15,951	0	41,624	13,870	0	13,870	27,753
NPV	8,691	9,103	0	17,794	0	7,916	7,916	9,878

Utility Discount Rate = 8.48
Benefit Cost Ratio = 2.248

Utility Discount Rate: 8.48
Benefit Cost Ratio: 2.248

Incentive Escalation Rate	INCENTIVE PAYMENTS \$(000)
1.17	72.5
1.17	108.75
1.17	145
1.28	290
1.30	290
1.23	326.25
1.16	326.25
1.16	217.5
1.19	181.25
1.19	145
	2102.5
	15,951

PROGRAM: Business New Construction - Participant

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2010	330	2,920		3,251	3,245		3,245	6
2011	734	3,399		4,133	3,776		3,776	357
2012	1,112	3,792		4,904	4,213		4,213	690
2013	1,626	4,431		6,057	4,923		4,923	1,134
2014	2,176	4,757		6,932	5,285		5,285	1,647
2015	2,955	6,314		9,269	7,015		7,015	2,254
2016	3,384	6,772		10,156	7,525		7,525	2,632
2017	3,359	8,177		11,536	9,086		9,086	2,450
2018	3,668	9,450		13,117	10,500		10,500	2,618
2019	4,353	10,467		14,821	11,630		11,630	3,190
2020	4,325	0		4,325			0	4,325
2021	4,512	0		4,512			0	4,512
2022	4,395	0		4,395			0	4,395
2023	4,342	0		4,342			0	4,342
2024	4,262	0		4,262			0	4,262
2025	4,029	0		4,029			0	4,029
2026	3,809	0		3,809			0	3,809
2027	3,562	0		3,562			0	3,562
2028	3,307	0		3,307			0	3,307
2029	3,060	0		3,060			0	3,060
2030	2,800	0		2,800			0	2,800
2031	2,557	0		2,557			0	2,557
2032	2,262	0		2,262			0	2,262
2033	1,921	0		1,921			0	1,921
2034	1,571	0		1,571			0	1,571
2035	1,665	0		1,665			0	1,665
2036	1,866	0		1,866			0	1,866
2037	2,117	0		2,117			0	2,117
2038	2,388	0		2,388			0	2,388
NOMINAL	82,446	60,478	0	142,925	67,198	0	67,198	75,726
NPV	25,827	33,246	0	59,073	36,940	0	36,940	22,133

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.599

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.599

Incentive Escalation Rate	INCENTIVE PAYMENTS \$(000)
1.17	3,678
1.17	4,569
1.17	5,282
1.28	6,901
1.28	7,593
1.30	10,545
1.23	12,462
1.16	15,479
1.16	18,262
1.19	20,472
	105,243
	60,478

PROGRAM: Standby Generation - Participant

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2010	8	117	0	126	0	0	126
2011	22	235	0	257	0	0	257
2012	26	352	0	378	0	0	378
2013	27	470	0	497	0	0	497
2014	36	587	0	623	0	0	623
2015	47	704	0	751	0	0	751
2016	90	822	0	911	0	0	911
2017	89	939	0	1,028	0	0	1,028
2018	95	1,057	0	1,152	0	0	1,152
2019	111	1,174	0	1,285	0	0	1,285
2020	114	1,174	0	1,288	0	0	1,288
2021	124	1,174	0	1,298	0	0	1,298
2022	125	1,174	0	1,299	0	0	1,299
2023	128	1,174	0	1,302	0	0	1,302
2024	131	1,174	0	1,305	0	0	1,305
2025	134	1,174	0	1,308	0	0	1,308
2026	137	1,174	0	1,311	0	0	1,311
2027	112	1,174	0	1,286	0	0	1,286
2028	143	1,174	0	1,317	0	0	1,317
2029	147	1,174	0	1,321	0	0	1,321
2030	151	1,174	0	1,325	0	0	1,325
2031	154	1,174	0	1,328	0	0	1,328
2032	157	1,174	0	1,331	0	0	1,331
2033	161	1,174	0	1,335	0	0	1,335
2034	164	1,174	0	1,338	0	0	1,338
2035	168	1,174	0	1,342	0	0	1,342
2036	172	1,174	0	1,346	0	0	1,346
NOMINAL	3,327	28,763	0	32,090	0	0	32,090
NPV	953	9,282	0	10,235	0	0	10,235

Utility Discount Rate = 8.48

N/A

Utility Discount Rate

8.48

PROGRAM: SunSense for Schools

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0
2015	2	0	98	100	0	0	100
2016	51	0	1,538	1,588	0	0	1,588
2017	86	0	1,538	1,623	0	0	1,623
2018	122	0	1,538	1,659	0	0	1,659
2019	169	0	1,538	1,707	0	0	1,707
2020	174	0	0	174	58	58	117
2021	189	0	0	189	700	700	-511
2022	190	0	0	190	700	700	-510
2023	195	0	0	195	700	700	-505
2024	199	0	0	199	700	700	-501
2025	205	0	0	205	0	0	205
2026	209	0	0	209	0	0	209
2027	213	0	0	213	0	0	213
2028	218	0	0	218	0	0	218
2029	225	0	0	225	0	0	225
2030	230	0	0	230	0	0	230
2031	235	0	0	235	0	0	235
2032	239	0	0	239	0	0	239
2033	246	0	0	246	0	0	246
2034	250	0	0	250	0	0	250
2035	253	0	0	253	0	0	253
2036	194	0	0	194	0	0	194
2037	133	0	0	133	0	0	133
2038	67	0	0	67	0	0	67
NOMINAL	4,295	0	6,248	10,542	2,858	2,858	7,685
NPV	1,131	0	3,419	4,550	1,042	1,042	3,508

Utility Discount Rate = 8.48
Benefit Cost Ratio = 4.367

Utility Discount Rate 8.48

PROGRAM: Commercial Solar PV

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2010	29	255	191	476	938	938	-462
2011	151	978	733	1,862	3,594	3,594	-1,732
2012	265	978	733	1,975	3,594	3,594	-1,618
2013	402	978	733	2,112	3,594	3,594	-1,481
2014	548	978	733	2,258	3,594	3,594	-1,336
2015	600	0	0	600	0	0	600
2016	592	0	0	592	0	0	592
2017	511	0	0	511	0	0	511
2018	489	0	0	489	0	0	489
2019	512	0	0	512	0	0	512
2020	528	0	0	528	0	0	528
2021	570	0	0	570	0	0	570
2022	575	0	0	575	0	0	575
2023	589	0	0	589	0	0	589
2024	604	0	0	604	0	0	604
2025	617	0	0	617	0	0	617
2026	631	0	0	631	0	0	631
2027	646	0	0	646	0	0	646
2028	662	0	0	662	0	0	662
2029	678	0	0	678	0	0	678
2030	652	0	0	652	0	0	652
2031	500	0	0	500	0	0	500
2032	341	0	0	341	0	0	341
2033	174	0	0	174	0	0	174
2034	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0
NOMINAL	11,865	4,165	3,124	19,154	15,313	15,313	3,841
NPV	4,852	3,458	2,594	10,904	12,714	12,714	-1,810

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.858

PROGRAM: Residential Solar PV - 5 kW @ \$2.00/Watt

YEAR	BENEFITS				COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2010	28	250	216	494	906	906	-412
2011	150	1,000	863	2,012	3,625	3,625	-1,613
2012	265	1,000	863	2,127	3,625	3,625	-1,498
2013	400	1,000	863	2,262	3,625	3,625	-1,363
2014	542	1,000	863	2,404	3,625	3,625	-1,221
2015	587	0	0	587	0	0	587
2016	580	0	0	580	0	0	580
2017	510	0	0	510	0	0	510
2018	491	0	0	491	0	0	491
2019	511	0	0	511	0	0	511
2020	525	0	0	525	188	188	337
2021	561	0	0	561	750	750	-189
2022	565	0	0	565	750	750	-185
2023	579	0	0	579	750	750	-171
2024	593	0	0	593	750	750	-157
2025	606	0	0	606	0	0	606
2026	619	0	0	619	0	0	619
2027	634	0	0	634	0	0	634
2028	650	0	0	650	0	0	650
2029	664	0	0	664	0	0	664
2030	640	0	0	640	0	0	640
2031	491	0	0	491	0	0	491
2032	335	0	0	335	0	0	335
2033	171	0	0	171	0	0	171
2034	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0
NOMINAL	11,695	4,250	3,666	19,610	18,594	18,594	1,017
NPV	4,792	3,527	3,042	11,361	13,958	13,958	-2,597

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.814

PROGRAM: Low-Income Solar WH

YEAR	BENEFITS				COSTS		(7) NET BENEFITS \$(000)	(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) TOTAL COSTS \$(000)		
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	10	114	0	124	114	114	10	124
2012	20	114	0	134	115	115	19	134
2013	31	114	0	145	115	115	29	145
2014	42	114	0	156	116	116	41	156
2015	46	0	0	46	2	2	44	46
2016	45	0	0	45	2	2	43	45
2017	40	0	0	40	2	2	38	40
2018	38	0	0	38	2	2	36	38
2019	40	0	0	40	2	2	38	40
2020	41	0	0	41	2	2	39	41
2021	44	0	0	44	2	2	42	44
2022	44	0	0	44	2	2	42	44
2023	45	0	0	45	2	2	43	45
2024	46	0	0	46	2	2	44	46
2025	47	0	0	47	2	2	45	47
2026	48	0	0	48	2	2	46	48
2027	50	0	0	50	2	2	47	50
2028	51	0	0	51	2	2	48	51
2029	52	0	0	52	2	2	50	52
2030	53	0	0	53	2	2	51	53
2031	41	0	0	41	2	2	38	41
2032	28	0	0	28	2	2	26	28
2033	14	0	0	14	1	1	13	14
2034	0	0	0	0	1	1	-1	0
2035	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0
NOMINAL	918	456	0	1,374	504	504	870	1,374
NPV	371	374	0	745	392	392	353	633

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.899

Utility Discount Rate: 8.48

PROGRAM: Residential Solar WH with LM of HVAC & WH

YEAR	BENEFITS				COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2010	263	653	1,097	2,012	4,275	4,275	-2,263
2011	834	1,339	2,194	4,366	8,573	8,573	-4,206
2012	1,359	1,406	2,194	4,959	8,618	8,618	-3,659
2013	1,994	1,474	2,194	5,662	8,663	8,663	-3,001
2014	2,658	1,541	2,194	6,393	8,708	8,708	-2,315
2015	2,880	304	0	3,184	203	203	2,981
2016	2,840	304	0	3,144	203	203	2,942
2017	2,505	304	0	2,809	203	203	2,606
2018	2,409	304	0	2,713	203	203	2,510
2019	2,507	304	0	2,810	203	203	2,608
2020	2,567	304	0	2,871	203	203	2,669
2021	2,751	304	0	3,055	203	203	2,852
2022	2,771	304	0	3,075	203	203	2,872
2023	2,839	304	0	3,143	203	203	2,940
2024	2,901	304	0	3,204	203	203	3,002
2025	2,972	304	0	3,276	203	203	3,073
2026	3,037	304	0	3,341	203	203	3,139
2027	3,110	304	0	3,413	203	203	3,211
2028	3,179	304	0	3,483	203	203	3,281
2029	3,262	304	0	3,565	203	203	3,363
2030	2,967	270	0	3,237	203	203	3,034
2031	2,275	203	0	2,478	180	180	2,298
2032	1,547	135	0	1,682	135	135	1,547
2033	792	68	0	860	90	90	770
2034	0	0	0	0	45	45	-45
2035	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0
NOMINAL	57,219	11,644	9,872	78,735	42,525	42,525	36,210
NPV	20,148	6,199	7,041	33,388	28,811	28,811	4,577

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.159

Utility Discount Rate 8.48

PROGRAM: Curtailable Service - Participant

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2010	1	8	0	8	0	0	8
2011	1	15	0	17	0	0	17
2012	2	23	0	25	0	0	25
2013	2	31	0	33	0	0	33
2014	3	39	0	41	0	0	41
2015	4	46	0	50	0	0	50
2016	5	54	0	59	0	0	59
2017	5	62	0	66	0	0	66
2018	5	70	0	74	0	0	74
2019	6	77	0	83	0	0	83
2020	6	77	0	83	0	0	83
2021	6	77	0	84	0	0	84
2022	6	77	0	84	0	0	84
2023	7	77	0	84	0	0	84
2024	7	77	0	84	0	0	84
2025	7	77	0	84	0	0	84
2026	7	77	0	84	0	0	84
2027	7	77	0	84	0	0	84
2028	7	77	0	85	0	0	85
2029	8	77	0	85	0	0	85
2030	8	77	0	85	0	0	85
2031	8	77	0	85	0	0	85
2032	8	77	0	85	0	0	85
2033	8	77	0	86	0	0	86
2034	8	77	0	86	0	0	86
2035	9	77	0	86	0	0	86
2036	9	77	0	86	0	0	86
NOMINAL	177	1,892	0	2,069	0	0	2,069
NPV	52	611	0	663	0	0	663

Utility Discount Rate = 8.48

N/A

Utility Discount Rate:

8.48

PROGRAM: Interruptible Service - Participant

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2010	1	13	0	14	0	0	14
2011	1	27	0	28	0	0	28
2012	2	40	0	42	0	0	42
2013	3	54	0	57	0	0	57
2014	3	67	0	71	0	0	71
2015	5	81	0	86	0	0	86
2016	5	94	0	100	0	0	100
2017	5	108	0	113	0	0	113
2018	5	121	0	127	0	0	127
2019	6	135	0	141	0	0	141
2020	7	135	0	141	0	0	141
2021	8	135	0	143	0	0	143
2022	7	135	0	142	0	0	142
2023	8	135	0	142	0	0	142
2024	8	135	0	143	0	0	143
2025	8	135	0	143	0	0	143
2026	8	135	0	143	0	0	143
2027	8	135	0	143	0	0	143
2028	9	135	0	143	0	0	143
2029	9	135	0	144	0	0	144
2030	10	135	0	145	0	0	145
2031	10	135	0	144	0	0	144
2032	10	135	0	145	0	0	145
2033	11	135	0	145	0	0	145
2034	10	135	0	145	0	0	145
2035	11	135	0	145	0	0	145
2036	11	135	0	146	0	0	146
NOMINAL	209	3,304	0	3,513	0	0	3,513
NPV	61	1,066	0	1,127	0	0	1,127

Utility Discount Rate = 8.48

N/A

Utility Discount Rate:

8.48

PROGRAM: Res Education - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	6,526	1,071	0	7,596	1,071	0	1,071	6,526
2011	13,869	1,356	0	15,225	1,356	0	1,356	13,869
2012	20,542	1,693	0	22,235	1,693	0	1,693	20,542
2013	28,882	2,046	0	30,928	2,046	0	2,046	28,882
2014	37,558	2,220	0	39,778	2,220	0	2,220	37,558
2015	41,033	2,698	0	43,731	2,698	0	2,698	41,033
2016	40,757	3,299	0	44,057	3,299	0	3,299	40,757
2017	36,037	4,041	0	40,078	4,041	0	4,041	36,037
2018	34,749	4,560	0	39,310	4,560	0	4,560	34,749
2019	36,283	5,192	0	41,475	5,192	0	5,192	36,283
2020	29,784	0	0	29,784	0	0	0	29,784
2021	23,989	0	0	23,989	0	0	0	23,989
2022	16,143	0	0	16,143	0	0	0	16,143
2023	8,289	0	0	8,289	0	0	0	8,289
2024	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0
NOMINAL	374,441	28,176	0	402,617	28,176	0	28,176	374,441
NPV	192,669	15,249	0	207,918	15,249	0	15,249	192,669

Utility Discount Rate = 8.48
Benefit Cost Ratio = 13.635

Utility Discount Rate: 8.48
Benefit Cost Ratio: 13.635

PROGRAM: Residential Energy Management - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2009	\$0	\$20,000	\$0	20,000	\$0	\$0	\$0	20,000
2010	0	\$20,385	0	20,385	0	0	0	20,385
2011	0	\$20,770	0	20,770	0	0	0	20,770
2012	0	\$21,155	0	21,155	0	0	0	21,155
2013	0	\$21,540	0	21,540	0	0	0	21,540
2014	0	\$20,996	0	20,996	0	0	0	20,996
2015	0	\$21,975	0	21,975	0	0	0	21,975
2016	0	\$22,672	0	22,672	0	0	0	22,672
2017	0	\$23,370	0	23,370	0	0	0	23,370
2018	0	\$24,067	0	24,067	0	0	0	24,067
2019	0	\$24,765	0	24,765	0	0	0	24,765
2020	0	\$24,765	0	24,765	0	0	0	24,765
2021	0	\$24,765	0	24,765	0	0	0	24,765
2022	0	\$24,765	0	24,765	0	0	0	24,765
2023	0	\$24,765	0	24,765	0	0	0	24,765
2024	0	\$24,765	0	24,765	0	0	0	24,765
2025	0	\$24,765	0	24,765	0	0	0	24,765
2026	0	\$24,765	0	24,765	0	0	0	24,765
2027	0	\$24,765	0	24,765	0	0	0	24,765
2028	0	\$24,765	0	24,765	0	0	0	24,765
2029	0	\$24,765	0	24,765	0	0	0	24,765
2030	0	\$24,765	0	24,765	0	0	0	24,765
2031	0	\$24,765	0	24,765	0	0	0	24,765
2032	0	\$24,765	0	24,765	0	0	0	24,765
2033	0	\$24,765	0	24,765	0	0	0	24,765
2034	0	\$24,765	0	24,765	0	0	0	24,765
2035	0	\$24,765	0	24,765	0	0	0	24,765
2036	0	\$24,765	0	24,765	0	0	0	24,765
2037	0	\$24,765	0	24,765	0	0	0	24,765
NOMINAL	0	687,455	0	687,455	0	0	0	687,455
NPV	0	263,082	0	243,082	0	0	0	263,082

Participant Test - NA

Utility Discount Rate:

8.48

PROGRAM: Res HEI - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	4,132	17,676	0	21,808	20,483	0	20,483	1,325
2011	9,855	19,479	0	29,334	25,450	0	25,450	3,884
2012	15,291	24,737	0	40,028	32,441	0	32,441	7,587
2013	22,172	31,370	0	53,542	41,057	0	41,057	12,485
2014	29,759	35,937	0	65,695	47,242	0	47,242	18,454
2015	40,258	47,413	0	87,670	62,146	0	62,146	25,524
2016	48,335	62,959	0	111,294	82,279	0	82,279	29,015
2017	50,925	83,719	0	134,645	109,103	0	109,103	25,542
2018	57,710	102,563	0	160,273	133,256	0	133,256	27,018
2019	69,992	126,759	0	196,752	164,221	0	164,221	32,530
2020	71,692	0	0	71,692	0	0	0	71,692
2021	76,852	0	0	76,852	0	0	0	76,852
2022	76,887	0	0	76,887	0	0	0	76,887
2023	76,694	0	0	76,694	0	0	0	76,694
2024	76,072	0	0	76,072	0	0	0	76,072
2025	71,938	0	0	71,938	0	0	0	71,938
2026	67,279	0	0	67,279	0	0	0	67,279
2027	62,068	0	0	62,068	0	0	0	62,068
2028	56,003	0	0	56,003	0	0	0	56,003
2029	49,331	0	0	49,331	0	0	0	49,331
2030	40,709	0	0	40,709	0	0	0	40,709
2031	30,965	0	0	30,965	0	0	0	30,965
2032	24,660	0	0	24,660	0	0	0	24,660
2033	17,484	0	0	17,484	0	0	0	17,484
2034	9,018	0	0	9,018	0	0	0	9,018
2035	8,212	0	0	8,212	0	0	0	8,212
2036	7,253	0	0	7,253	0	0	0	7,253
2037	6,124	0	0	6,124	0	0	0	6,124
2038	4,802	0	0	4,802	0	0	0	4,802
NOMINAL	1,182,472	552,612	0	1,735,085	717,678	0	717,678	1,017,407
NPV	391,276	288,188	0	679,464	373,711	0	373,711	305,753

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.818

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.818

PROGRAM: Low-Income Weatherization Assistance - Participant

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2010	83	330	0	774	330	691	83
2011	155	383	0	349	383	193	155
2012	246	530	0	492	530	246	246
2013	387	737	0	719	737	332	387
2014	552	858	0	944	858	391	552
2015	789	1,075	0	1,301	1,075	512	789
2016	989	1,227	0	1,573	1,227	584	989
2017	1,005	1,433	0	1,696	1,433	690	1,005
2018	1,147	1,659	0	1,953	1,659	806	1,147
2019	1,384	1,951	0	2,348	1,951	964	1,384
2020	1,326	0	0	1,326	0	0	1,326
2021	1,316	0	0	1,316	0	0	1,316
2022	1,216	0	0	1,216	0	0	1,216
2023	1,128	0	0	1,128	0	0	1,128
2024	1,026	0	0	1,026	0	0	1,026
2025	909	0	0	909	0	0	909
2026	779	0	0	779	0	0	779
2027	776	0	0	776	0	0	776
2028	744	0	0	744	0	0	744
2029	702	0	0	702	0	0	702
2030	647	0	0	647	0	0	647
2031	565	0	0	565	0	0	565
2032	467	0	0	467	0	0	467
2033	322	0	0	322	0	0	322
2034	143	0	0	143	0	0	143
2035	105	0	0	105	0	0	105
2036	64	0	0	64	0	0	64
2037	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0
NOMINAL	18,975	10,183	0	24,385	10,183	5,410	18,975
NPV	7,799	6,413	0	11,394	6,413	3,595	7,799

Utility Discount Rate = 8.48
Benefit Cost Ratio = 3.170

Utility Discount Rate: 8.48

PROGRAM: Neighborhood Energy Saver - Participant

YEAR	BENEFITS				COSTS		NET BENEFITS		
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) TOTAL COSTS \$(000)			
2008	0	0	0	0	0	0	0		
2009	0	0	0	0	0	0	0		
2010	410	1,810	0	2,220	1,810	1,810	410	410.09322	409.71725
2011	1,217	4,774	0	5,991	4,774	4,774	1,217	1218.1965	1216.8448
2012	2,131	5,977	0	8,108	5,977	5,977	2,131	2134.0818	2131.3901
2013	3,346	6,863	0	10,209	6,863	6,863	3,346	3344.6457	3345.7795
2014	4,744	7,773	0	12,517	7,773	7,773	4,744	4743.9755	4743.8037
2015	6,661	8,224	0	14,885	8,224	8,224	6,661	6662.617	6661.4404
2016	8,207	9,067	0	17,274	9,067	9,067	8,207	8206.0951	8206.8086
2017	8,480	9,533	0	18,013	9,533	9,533	8,480	8479.5922	8479.7969
2018	9,264	9,983	0	19,247	9,983	9,983	9,264	9264.4177	9264.2432
2019	10,695	9,999	0	20,694	9,999	9,999	10,695	10695.964	10695.319
2020	10,198	0	0	10,198	0	0	10,198	10199.089	10198.458
2021	9,921	0	0	9,921	0	0	9,921	9922.6742	9921.3926
2022	8,834	0	0	8,834	0	0	8,834	8832.5109	8833.8535
2023	7,741	0	0	7,741	0	0	7,741	7739.4399	7740.8213
2024	6,481	0	0	6,481	0	0	6,481	6483.4083	6481.2925
2025	5,073	0	0	5,073	0	0	5,073	5075.2055	5073.2222
2026	3,524	0	0	3,524	0	0	3,524	3523.8437	3524.417
2027	2,871	0	0	2,871	0	0	2,871	2871.3599	2870.8767
2028	2,156	0	0	2,156	0	0	2,156	2156.4505	2155.5271
2029	1,346	0	0	1,346	0	0	1,346	1342.9774	1346.271
2030	1,236	0	0	1,236	0	0	1,236	1229.3214	1236.084
2031	1,095	0	0	1,095	0	0	1,095	1091.3612	1094.9714
2032	932	0	0	932	0	0	932	928.85262	931.73352
2033	751	0	0	751	0	0	751	747.09	751.17157
2034	540	0	0	540	0	0	540	538.6561	539.78967
2035	374	0	0	374	0	0	374	372.6141	373.99603
2036	192	0	0	192	0	0	192	190.575	191.57013
2037	0	0	0	0	0	0	0	0	#DIV/0!
2038	0	0	0	0	0	0	0	0	#DIV/0!
NOMINAL	118,421	74,003	0	192,423	74,003	74,003	118,421		
NPV	55,105	48,721	0	103,826	48,721	48,721	55,105		

Utility Discount Rate = 8.48
Benefit Cost Ratio = 2.131

Utility Discount Rate: 8.48

PROGRAM: Res HA - Participant

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	SAVINGS IN PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	OTHER PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	PARTICIPANT'S BILL INCREASE \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	385	2,058	0	2,443	2,839	0	2,839	-397
2011	1,002	2,652	0	3,654	3,247	0	3,247	407
2012	1,612	3,435	0	5,047	4,119	0	4,119	928
2013	2,408	4,445	0	6,853	5,263	0	5,263	1,590
2014	3,550	6,622	0	10,171	7,209	0	7,209	2,962
2015	5,049	8,427	0	13,476	9,188	0	9,188	4,288
2016	6,251	10,916	0	17,167	11,920	0	11,920	5,248
2017	6,721	14,488	0	21,209	15,830	0	15,830	5,379
2018	7,725	17,581	0	25,306	19,224	0	19,224	6,082
2019	9,481	21,828	0	31,309	23,883	0	23,883	7,426
2020	9,711	0	0	9,711	0	0	0	9,711
2021	10,407	0	0	10,407	0	0	0	10,407
2022	10,422	0	0	10,422	0	0	0	10,422
2023	10,472	0	0	10,472	0	0	0	10,472
2024	10,470	0	0	10,470	0	0	0	10,470
2025	10,146	0	0	10,146	0	0	0	10,146
2026	9,683	0	0	9,683	0	0	0	9,683
2027	9,131	0	0	9,131	0	0	0	9,131
2028	8,450	0	0	8,450	0	0	0	8,450
2029	7,384	0	0	7,384	0	0	0	7,384
2030	6,131	0	0	6,131	0	0	0	6,131
2031	4,672	0	0	4,672	0	0	0	4,672
2032	3,760	0	0	3,760	0	0	0	3,760
2033	2,779	0	0	2,779	0	0	0	2,779
2034	1,622	0	0	1,622	0	0	0	1,622
2035	1,589	0	0	1,589	0	0	0	1,589
2036	1,549	0	0	1,549	0	0	0	1,549
2037	1,497	0	0	1,497	0	0	0	1,497
NOMINAL	164,059	92,450	0	256,509	102,722	0	102,722	153,787
NPV	52,268	47,457	0	99,725	53,153	0	53,153	46,572

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.876

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.876

PROGRAM: Technical Potential

YEAR	BENEFITS				COSTS		NET BENEFITS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2010	3,335	15,084	0	18,419	5,321	5,321	13,099
2011	6,672	15,085	0	21,758	5,321	5,321	16,437
2012	11,896	22,790	0	34,685	8,159	8,159	26,527
2013	20,334	30,503	0	50,837	10,995	10,995	39,843
2014	30,265	30,829	0	61,094	11,350	11,350	49,744
2015	55,724	69,043	0	124,768	25,541	25,541	99,227
2016	87,254	99,504	0	186,757	37,247	37,247	149,510
2017	110,293	136,125	0	246,418	50,400	50,400	196,018
2018	147,367	166,417	0	313,785	62,788	62,788	250,997
2019	199,527	174,705	0	374,232	66,662	66,662	307,570
2020	194,691	0	0	194,691	0	0	194,691
2021	201,864	0	0	201,864	0	0	201,864
2022	189,072	0	0	189,072	0	0	189,072
2023	171,590	0	0	171,590	0	0	171,590
2024	149,671	0	0	149,671	0	0	149,671
2025	113,128	0	0	113,128	0	0	113,128
2026	66,799	0	0	66,799	0	0	66,799
2027	55,158	0	0	55,158	0	0	55,158
2028	41,645	0	0	41,645	0	0	41,645
2029	27,289	0	0	27,289	0	0	27,289
2030	24,945	0	0	24,945	0	0	24,945
2031	21,157	0	0	21,157	0	0	21,157
2032	15,414	0	0	15,414	0	0	15,414
2033	8,063	0	0	8,063	0	0	8,063
2034	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0
NOMINAL	1,953,153	760,087	0	2,713,239	283,783	283,783	2,429,457
NPV	823,841	449,283	0	1,273,124	167,116	167,116	1,106,007

Utility Discount Rate = 8.48
Benefit Cost Ratio = 7.618

Utility Discount Rate: 8.48

PROGRAM: Better Business - RIM

YEAR	BENEFITS					COSTS							NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2010	1,288	68	0	0	1,356	0	0	0	1,346	7,539	1,403	10,288	-8,932
2011	2,776	139	0	0	2,915	0	0	0	1,478	8,116	3,067	12,661	-9,746
2012	3,726	211	0	0	3,936	0	0	0	1,533	8,260	4,546	14,339	-10,403
2013	6,048	272	1,775	0	8,095	0	0	0	1,675	8,263	6,226	16,165	-8,069
2014	5,562	336	3,446	0	9,343	0	0	0	1,742	8,489	8,067	18,298	-8,955
2015	7,575	413	4,296	0	12,284	0	0	0	2,840	12,999	10,955	26,793	-14,510
2016	9,880	507	5,473	0	15,860	0	0	0	4,026	17,666	13,309	35,001	-19,141
2017	14,518	620	4,766	0	19,904	0	0	0	5,456	22,729	14,210	42,394	-22,490
2018	16,166	765	9,208	0	26,139	0	0	0	7,843	31,682	16,880	56,405	-30,266
2019	20,517	954	11,639	0	33,110	0	0	0	11,202	44,077	22,217	77,496	-44,386
2020	20,157	926	11,519	0	32,601	0	0	0	0	0	22,289	22,289	10,313
2021	19,870	891	11,305	0	32,066	0	0	0	0	0	23,424	23,424	8,642
2022	22,979	871	6,042	0	29,892	0	0	0	0	0	23,107	23,107	6,784
2023	23,871	847	9,829	0	34,546	0	0	0	0	0	23,085	23,085	11,461
2024	20,263	819	9,944	0	31,027	0	0	0	0	0	22,864	22,864	8,162
2025	18,857	746	9,190	0	28,793	0	0	0	0	0	21,419	21,419	7,374
2026	20,016	663	5,372	0	26,051	0	0	0	0	0	19,565	19,565	6,486
2027	15,687	570	8,335	0	24,592	0	0	0	0	0	17,314	17,314	7,278
2028	13,493	473	7,108	0	21,074	0	0	0	0	0	14,779	14,779	6,295
2029	11,672	352	3,239	0	15,263	0	0	0	0	0	11,387	11,387	3,876
2030	10,614	302	4,647	0	15,562	0	0	0	0	0	10,019	10,019	5,543
2031	9,099	251	4,013	0	13,362	0	0	0	0	0	8,459	8,459	4,903
2032	7,138	194	3,226	0	10,557	0	0	0	0	0	6,506	6,506	4,051
2033	4,657	130	2,260	0	7,046	0	0	0	0	0	4,121	4,121	2,926
2034	1,660	59	1,102	0	2,821	0	0	0	0	0	1,267	1,267	1,554
2035	1,557	54	1,042	0	2,653	0	0	0	0	0	1,174	1,174	1,479
2036	1,394	46	935	0	2,376	0	0	0	0	0	1,037	1,037	1,339
2037	1,119	36	759	0	1,914	0	0	0	0	0	828	828	1,085
2038	711	22	483	0	1,216	0	0	0	0	0	524	524	692
NOMINAL	312,863	12,539	140,951	0	466,353	0	0	0	39,142	169,820	334,047	543,010	-76,657
NPV	102,672	4,415	45,407	0	152,494	0	0	0	19,973	88,970	112,920	221,863	-69,369

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.687

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.687

UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	PARTICIPANT'S COST \$(000)
0	0	0
0	0	0
401.913269	1686.917236	4273.685547
436.1706238	1819.354736	4528.063965
460.3730164	1918.227051	4721.289551
488.4069519	2097.840576	4536.143066
515.4561768	2171.097656	4754.071289
757.28125	3136.080811	6334.702148
1019.335388	4183.557129	8044.624023
1381.222412	5579.769043	10349.95605
1912.944946	7661.573242	13750.77441
2667.162354	10601.6875	18551.07227

PROGRAM: Business Energy Saver Program - RIM

YEAR	BENEFITS					COSTS							NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2010	26	2	0	0	29	0	0	0	23	294	27	344	-315
2011	54	5	0	0	59	0	0	0	23	268	57	349	-290
2012	74	7	0	0	81	0	0	0	28	311	87	427	-345
2013	137	10	60	0	208	0	0	0	28	266	125	419	-211
2014	120	13	122	0	255	0	0	0	33	319	170	523	-267
2015	150	15	144	0	309	0	0	0	33	244	218	494	-185
2016	195	18	175	0	387	0	0	0	37	253	251	542	-155
2017	298	20	141	0	459	0	0	0	37	228	248	513	-55
2018	283	22	243	0	547	0	0	0	41	236	260	536	11
2019	302	23	265	0	590	0	0	0	41	239	294	574	17
2020	266	20	232	0	518	0	0	0	0	0	266	266	251
2021	223	17	195	0	434	0	0	0	0	0	248	248	187
2022	238	14	88	0	340	0	0	0	0	0	210	210	130
2023	202	11	116	0	329	0	0	0	0	0	173	173	156
2024	122	8	87	0	216	0	0	0	0	0	130	130	86
2025	97	6	70	0	173	0	0	0	0	0	106	106	66
2026	88	4	32	0	125	0	0	0	0	0	78	78	46
2027	46	2	34	0	83	0	0	0	0	0	49	49	34
2028	37	2	29	0	68	0	0	0	0	0	39	39	29
2029	32	1	14	0	47	0	0	0	0	0	28	28	19
2030	31	1	20	0	52	0	0	0	0	0	23	23	29
2031	26	1	18	0	45	0	0	0	0	0	18	18	27
2032	22	1	16	0	39	0	0	0	0	0	15	15	23
2033	17	1	14	0	31	0	0	0	0	0	13	13	18
2034	14	1	11	0	25	0	0	0	0	0	10	10	15
2035	7	0	8	0	15	0	0	0	0	0	7	7	8
2036	6	0	4	0	10	0	0	0	0	0	4	4	6
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	3,109	225	2,139	0	5,473	0	0	0	324	2,659	3,154	6,137	-664
NPV	1,292	100	866	0	2,257	0	0	0	187	1,640	1,347	3,174	-917

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.711

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.711

PROGRAM: Commercial Educational - RIM

YEAR	BENEFITS						COSTS							NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)		(6) TOTAL FUEL & O&M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
2010	281	15	0	0	296	0	0	0	1,843	177	314	2,334	-2,038	
2011	588	31	0	0	618	0	0	0	1,717	180	679	2,576	-1,957	
2012	792	47	0	0	839	0	0	0	1,694	186	1,003	2,883	-2,044	
2013	1,345	63	405	0	1,812	0	0	0	1,502	193	1,429	3,123	-1,311	
2014	1,206	74	749	0	2,029	0	0	0	1,128	203	1,809	3,140	-1,111	
2015	1,415	80	815	0	2,310	0	0	0	610	120	2,108	2,837	-527	
2016	1,472	77	799	0	2,348	0	0	0	568	126	2,056	2,750	-402	
2017	1,704	74	535	0	2,312	0	0	0	517	129	1,767	2,413	-101	
2018	1,416	65	727	0	2,208	0	0	0	503	133	1,595	2,232	-24	
2019	1,318	56	622	0	1,996	0	0	0	520	134	1,571	2,226	-230	
2020	1,077	45	498	0	1,620	0	0	0	0	0	1,309	1,309	311	
2021	912	39	437	0	1,388	0	0	0	0	0	1,155	1,155	233	
2022	816	32	198	0	1,047	0	0	0	0	0	893	893	153	
2023	618	25	263	0	906	0	0	0	0	0	631	631	274	
2024	306	19	201	0	526	0	0	0	0	0	348	348	178	
2025	207	13	138	0	358	0	0	0	0	0	241	241	117	
2026	132	6	46	0	184	0	0	0	0	0	124	124	59	
2027	0	0	0	0	0	0	0	0	0	0	0	0	0	
2028	0	0	0	0	0	0	0	0	0	0	0	0	0	
2029	0	0	0	0	0	0	0	0	0	0	0	0	0	
2030	0	0	0	0	0	0	0	0	0	0	0	0	0	
2031	0	0	0	0	0	0	0	0	0	0	0	0	0	
2032	0	0	0	0	0	0	0	0	0	0	0	0	0	
2033	0	0	0	0	0	0	0	0	0	0	0	0	0	
2034	0	0	0	0	0	0	0	0	0	0	0	0	0	
2035	0	0	0	0	0	0	0	0	0	0	0	0	0	
2036	0	0	0	0	0	0	0	0	0	0	0	0	0	
2037	0	0	0	0	0	0	0	0	0	0	0	0	0	
2038	0	0	0	0	0	0	0	0	0	0	0	0	0	
NOMINAL	15,602	761	6,433	0	22,796	0	0	0	10,601	1,581	19,034	31,215	-8,419	
NPV	7,789	389	3,020	0	11,198	0	0	0	7,150	988	9,596	17,735	-6,537	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.631

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.631

PROGRAM: Business Energy Response - RIM

YEAR	BENEFITS					COSTS								NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)		
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	
2010	5	0	0	0	5	0	0	0	10,940	36	3	10,979	-10,975	
2011	7	0	0	0	7	0	0	0	13,780	61	5	13,845	-13,838	
2012	9,439	585	0	0	10,024	0	0	0	20,734	181	10,460	31,375	-21,351	
2013	20,588	995	6,833	0	28,416	0	0	0	24,301	301	18,778	43,380	-14,964	
2014	14,629	995	14,287	0	29,911	0	0	0	21,551	421	19,597	41,570	-11,659	
2015	15,044	995	17,343	0	33,382	0	0	0	21,108	541	21,487	43,136	-9,754	
2016	21,330	995	5,590	0	27,916	0	0	0	19,847	661	21,152	41,660	-13,745	
2017	18,064	995	11,468	0	30,527	0	0	0	16,634	781	18,331	35,746	-5,219	
2018	21,707	995	24,557	0	47,259	0	0	0	12,966	901	17,549	31,416	15,843	
2019	21,301	995	26,546	0	48,843	0	0	0	10,218	1,016	18,374	29,608	19,235	
2020	21,328	995	26,239	0	48,562	0	0	0	8,343	1,016	18,911	28,270	20,292	
2021	20,062	995	27,736	0	48,793	0	0	0	7,446	1,016	20,469	28,931	19,862	
2022	26,688	995	12,328	0	40,011	0	0	0	6,934	1,016	20,644	28,594	11,417	
2023	28,736	995	20,599	0	50,330	0	0	0	5,241	1,016	21,157	27,414	22,916	
2024	22,729	995	28,753	0	52,477	0	0	0	3,294	1,016	21,586	25,895	26,582	
2025	22,101	995	29,640	0	52,736	0	0	0	2,709	1,016	22,156	25,881	26,854	
2026	29,665	995	14,489	0	45,149	0	0	0	2,574	1,016	22,667	26,256	18,893	
2027	24,986	995	35,271	0	61,252	0	0	0	2,371	1,016	23,169	26,555	34,696	
2028	24,502	995	28,191	0	53,688	0	0	0	2,092	1,016	23,697	26,805	26,883	
2029	26,767	995	7,254	0	35,016	0	0	0	1,687	1,016	24,373	27,076	7,940	
2030	28,311	995	12,393	0	41,699	0	0	0	1,930	1,016	24,930	27,876	13,823	
2031	29,254	995	12,787	0	43,036	0	0	0	2,175	1,016	25,502	28,693	14,343	
2032	30,279	995	13,227	0	44,501	0	0	0	2,686	1,016	26,017	29,719	14,782	
2033	31,193	995	13,940	0	46,128	0	0	0	2,643	1,016	26,676	30,335	15,793	
2034	31,757	995	14,097	0	46,849	0	0	0	2,770	1,016	27,160	30,947	15,902	
2035	33,317	995	14,967	0	49,279	0	0	0	2,912	1,016	27,867	31,795	17,484	
2036	34,539	995	15,674	0	51,207	0	0	0	2,818	1,016	28,513	32,348	18,859	
2037	35,549	995	16,113	0	52,657	0	0	0	8,298	1,016	29,203	38,518	14,139	
NOMINAL	643,871	25,464	450,324	0	1,119,659	0	0	0	241,001	23,192	580,431	844,624	275,035	
NPV	188,439	8,450	141,000	0	337,889	0	0	0	130,891	6,804	178,329	316,024	21,865	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.069

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.069

PROGRAM: Commercial Green Building - RIM

YEAR	BENEFITS					COSTS							NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2010	42	1	0		43				236	490	48	775	-732
2011	107	4	0		110				84	697	129	909	-799
2012	171	6	0		177				69	974	226	1,268	-1,091
2013	382	12	73		468				92	2,017	450	2,559	-2,091
2014	450	18	170		637				72	1,982	690	2,744	-2,107
2015	692	24	235		951				359	2,517	1,028	3,903	-2,952
2016	899	31	309		1,239				373	2,671	1,279	4,323	-3,084
2017	1,132	35	252		1,419				377	1,781	1,262	3,420	-2,002
2018	1,136	38	438		1,612				357	1,549	1,330	3,236	-1,623
2019	1,252	41	480		1,773				308	1,273	1,497	3,078	-1,305
2020	1,272	41	490		1,803				0	0	1,539	1,539	264
2021	1,319	41	501		1,861				0	0	1,666	1,666	194
2022	1,482	41	274		1,796				0	0	1,680	1,680	117
2023	1,573	41	457		2,071				0	0	1,721	1,721	350
2024	1,458	41	477		1,976				0	0	1,760	1,760	216
2025	1,445	40	468		1,953				0	0	1,742	1,742	212
2026	1,564	38	292		1,893				0	0	1,685	1,685	208
2027	1,369	35	488		1,891				0	0	1,595	1,595	297
2028	1,182	29	418		1,629				0	0	1,365	1,365	264
2029	1,063	23	204		1,291				0	0	1,128	1,128	163
2030	814	17	249		1,079				0	0	840	840	240
2031	527	11	162		699				0	0	537	537	163
2032	327	6	101		434				0	0	328	328	106
2033	150	3	47		200				0	0	150	150	50
2034					0								0
2035					0								0
2036					0								0
NOMINAL	21,803	618	6,583	0	29,005	0	0	0	2,326	15,951	25,673	43,950	-14,945
NPV	7,794	234	2,346	0	10,374	0	0	0	1,393	9,875	9,428	20,696	-10,322

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.501

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.501

UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)
75	1087.5
28	406
22	319
28.5	413.25
22.5	326.25
101	1464.5
99.5	1442.75
100.5	1457.25
91.5	1326.75
77	1116.5

PROGRAM: Business New Construction - RIM

YEAR	BENEFITS					COSTS								NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)		
2010	328	20	0		348				615	2,920	330	3,866	-3,518	
2011	721	43	0		763				777	3,399	734	4,910	-4,147	
2012	987	67	0		1,054				906	3,792	1,112	5,809	-4,756	
2013	1,761	93	581		2,435				1,162	4,431	1,626	7,218	-4,784	
2014	1,638	121	1,188		2,947				1,283	4,757	2,176	8,215	-5,268	
2015	2,229	153	1,539		3,921				1,853	6,314	2,955	11,122	-7,201	
2016	2,822	184	1,938		4,944				2,254	6,772	3,384	12,410	-7,466	
2017	4,153	218	1,653		6,023				2,793	8,177	3,359	14,329	-8,306	
2018	4,278	256	3,081		7,616				3,281	9,450	3,668	16,399	-8,783	
2019	4,946	298	3,675		8,918				3,688	10,467	4,353	18,509	-9,591	
2020	4,839	291	3,676		8,806				0	0	4,325	4,325	4,481	
2021	4,656	284	3,673		8,613				0	0	4,512	4,512	4,102	
2022	5,653	278	1,967		7,898				0	0	4,395	4,395	3,503	
2023	5,903	271	3,220		9,394				0	0	4,342	4,342	5,052	
2024	4,598	264	3,292		8,155				0	0	4,262	4,262	3,893	
2025	4,366	252	3,210		7,828				0	0	4,029	4,029	3,799	
2026	5,178	242	2,037		7,456				0	0	3,809	3,809	3,647	
2027	3,992	231	3,539		7,762				0	0	3,562	3,562	4,200	
2028	3,794	222	3,494		7,510				0	0	3,307	3,307	4,203	
2029	4,357	213	2,052		6,623				0	0	3,060	3,060	3,563	
2030	4,300	201	3,244		7,745				0	0	2,800	2,800	4,944	
2031	4,075	189	3,197		7,461				0	0	2,557	2,557	4,904	
2032	3,804	177	3,131		7,112				0	0	2,262	2,262	4,850	
2033	3,414	164	3,029		6,607				0	0	1,921	1,921	4,686	
2034	3,025	151	2,910		6,086				0	0	1,571	1,571	4,515	
2035	3,040	137	2,752		5,929				0	0	1,665	1,665	4,264	
2036	3,104	121	2,540		5,766				0	0	1,866	1,866	3,899	
2037	3,139	102	2,223		5,464				0	0	2,117	2,117	3,347	
2038	3,156	79	1,793		5,027				0	0	2,388	2,388	2,640	
NOMINAL	102,251	5,325	68,634	0	176,210	0	0	0	18,611	60,478	82,446	161,536	14,674	
NPV	29,209	1,629	18,032	0	48,870	0	0	0	9,872	33,246	25,827	68,945	-20,075	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.709

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.709

PROGRAM: Standby Generation - RIM

YEAR	BENEFITS					COSTS					NET BENEFITS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2010	15	0	0	0	15	0	63	117	8	189	-174
2011	37	0	0	0	37	0	68	235	22	325	-288
2012	42	0	0	0	42	0	73	352	26	451	-409
2013	975	0	1,949	0	2,924	0	78	470	27	575	2,349
2014	0	0	3,839	0	3,839	87	83	587	36	793	3,047
2015	0	0	4,682	0	4,682	716	88	704	47	1,556	3,127
2016	140	0	5,203	0	5,343	0	93	822	90	1,005	4,338
2017	1,498	0	6,233	0	7,731	0	98	939	89	1,126	6,605
2018	2,040	0	8,261	0	10,301	0	103	1,057	95	1,255	9,046
2019	1,708	0	9,368	0	11,076	0	108	1,174	111	1,393	9,683
2020	1,557	0	9,565	0	11,122	0	50	1,174	114	1,338	9,784
2021	632	0	9,767	0	10,398	0	50	1,174	124	1,348	9,051
2022	3,629	0	5,337	0	8,965	0	50	1,174	125	1,349	7,617
2023	3,999	0	8,911	0	12,910	0	50	1,174	128	1,352	11,558
2024	1,139	0	9,305	0	10,444	0	50	1,174	131	1,355	9,090
2025	584	0	9,464	0	10,048	0	50	1,174	134	1,358	8,690
2026	3,639	0	6,234	0	9,872	0	50	1,174	137	1,361	8,512
2027	1,315	0	11,267	0	12,582	0	50	1,174	112	1,336	11,246
2028	1,169	0	11,535	0	12,704	0	50	1,174	143	1,367	11,337
2029	3,138	0	6,061	0	9,199	0	50	1,174	147	1,371	7,828
2030	3,434	0	10,141	0	13,574	0	50	1,174	151	1,375	12,199
2031	3,517	0	10,546	0	14,063	0	50	1,174	154	1,378	12,685
2032	3,532	0	10,968	0	14,500	0	50	1,174	157	1,381	13,119
2033	3,460	0	11,407	0	14,867	0	50	1,174	161	1,385	13,482
2034	3,634	0	11,863	0	15,497	0	50	1,174	164	1,388	14,109
2035	3,528	0	12,338	0	15,866	0	50	1,174	168	1,392	14,473
2036	3,469	0	12,831	0	16,300	0	50	1,174	172	1,396	14,904
NOMINAL	59,093	0	234,299	0	293,391	803	1,807	28,763	3,327	34,700	258,692
NPV	14,764	0	65,746	0	80,510	539	810	9,282	953	11,584	68,926

Utility Discount Rate = 8.48

Benefit Cost Ratio = 6.950

Utility Discount Rate: 8.48

PROGRAM: SunSense for Schools

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	2	0	0	0	2	0	256	0	0	256	-254
2011	38	1	0	0	39	0	522	0	0	522	-483
2012	67	2	0	0	69	0	988	0	0	988	-918
2013	119	3	24	0	146	0	1,408	0	0	1,408	-1,262
2014	124	4	49	0	177	0	1,784	0	0	1,784	-1,606
2015	138	4	50	0	192	0	1,613	0	2	1,615	-1,423
2016	144	4	0	0	148	0	1,348	0	51	1,399	-1,250
2017	132	4	0	0	137	0	926	0	86	1,011	-875
2018	146	4	59	0	209	0	548	0	122	670	-461
2019	149	4	60	0	213	0	216	0	169	386	-173
2020	151	4	61	0	217	0	0	0	174	174	43
2021	156	4	62	0	222	0	0	0	189	189	33
2022	175	4	34	0	214	0	0	0	190	190	24
2023	189	4	57	0	250	0	0	0	195	195	55
2024	170	4	59	0	234	0	0	0	199	199	35
2025	176	4	60	0	240	0	0	0	205	205	36
2026	201	4	40	0	246	0	0	0	209	209	37
2027	187	4	72	0	263	0	0	0	213	213	50
2028	194	4	74	0	272	0	0	0	218	218	54
2029	194	4	0	0	198	0	0	0	225	225	-26
2030	200	4	0	0	204	0	0	0	230	230	-25
2031	157	3	0	0	160	0	0	0	235	235	-75
2032	110	2	0	0	112	0	0	0	239	239	-127
2033	57	1	0	0	58	0	0	0	246	246	-189
2034	0	0	0	0	0	0	0	0	250	250	-250
2035	0	0	0	0	0	0	0	0	253	253	-253
2036	0	0	0	0	0	0	0	0	194	194	-194
2037	0	0	0	0	0	0	0	0	133	133	-133
2038	0	0	0	0	0	0	0	0	67	67	-67
NOMINAL	3,372	90	761	0	4,222	0	9,609	0	4,295	13,903	-9,681
NPV	1,329	38	314	0	1,681	0	6,782	0	1,131	7,913	-6,232

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.212

Utility Discount Rate: 8.48

PROGRAM: Commercial Solar PV

YEAR	BENEFITS					COSTS					NET BENEFITS	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		(11)
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)		NET BENEFITS \$(000)
2008	0	0	0	0	0	0	0	0	0	0	0	
2009	0	0	0	0	0	0	0	0	0	0	0	
2010	26	1	0	0	27	0	193	255	29	477	-450	
2011	132	4	0	0	136	0	92	978	151	1,221	-1,085	
2012	212	7	0	0	219	0	93	978	265	1,335	-1,116	
2013	363	10	72	0	445	0	94	978	402	1,473	-1,028	
2014	373	14	148	0	535	0	95	978	548	1,620	-1,084	
2015	419	14	151	0	583	0	0	0	600	600	-17	
2016	433	14	0	0	447	0	0	0	592	592	-145	
2017	398	14	0	0	412	0	0	0	511	511	-99	
2018	440	14	177	0	631	0	0	0	489	489	142	
2019	450	14	181	0	644	0	0	0	512	512	132	
2020	459	14	185	0	657	0	0	0	528	528	129	
2021	469	14	189	0	671	0	0	0	570	570	101	
2022	533	14	103	0	650	0	0	0	575	575	75	
2023	569	14	172	0	754	0	0	0	589	589	165	
2024	515	14	180	0	709	0	0	0	604	604	105	
2025	532	14	183	0	728	0	0	0	617	617	111	
2026	610	14	120	0	743	0	0	0	631	631	113	
2027	564	14	218	0	795	0	0	0	646	646	150	
2028	586	14	223	0	822	0	0	0	662	662	159	
2029	590	14	0	0	603	0	0	0	678	678	-75	
2030	578	13	0	0	590	0	0	0	652	652	-62	
2031	451	10	0	0	461	0	0	0	500	500	-40	
2032	314	6	0	0	320	0	0	0	341	341	-21	
2033	162	3	0	0	165	0	0	0	174	174	-10	
2034	0	0	0	0	0	0	0	0	0	0	0	
2035	0	0	0	0	0	0	0	0	0	0	0	
2036	0	0	0	0	0	0	0	0	0	0	0	
2037	0	0	0	0	0	0	0	0	0	0	0	
2038	0	0	0	0	0	0	0	0	0	0	0	
NOMINAL	10,175	271	2,302	0	12,748	0	566	4,165	11,865	16,596	-3,848	
NPV	4,052	116	951	0	5,119	0	498	3,458	4,852	8,809	-3,690	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.581

Utility Discount Rate: 8.48

PROGRAM: Residential Solar PV - 5 kW @ \$2.00/Watt

YEAR	BENEFITS					COSTS					(11)	(13)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)		
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	22	1	0	0	23	0	110	250	28	389	-366	389
2011	114	3	0	0	118	0	97	1,000	150	1,247	-1,129	1,247
2012	185	6	0	0	191	0	100	1,000	265	1,365	-1,174	1,365
2013	317	9	63	0	389	0	103	1,000	400	1,503	-1,114	1,503
2014	326	12	130	0	467	0	107	1,000	542	1,648	-1,181	1,648
2015	366	12	132	0	509	0	0	0	587	587	-78	587
2016	378	12	0	0	390	0	0	0	580	580	-190	580
2017	348	12	0	0	360	0	0	0	510	510	-150	510
2018	385	12	155	0	552	0	0	0	491	491	61	491
2019	393	12	158	0	563	0	0	0	511	511	52	511
2020	400	12	161	0	574	0	0	0	525	525	49	525
2021	409	12	165	0	586	0	0	0	561	561	25	561
2022	466	12	90	0	568	0	0	0	565	565	3	565
2023	497	12	150	0	659	0	0	0	579	579	80	579
2024	450	12	157	0	619	0	0	0	593	593	26	593
2025	464	12	160	0	636	0	0	0	606	606	30	606
2026	532	12	105	0	649	0	0	0	619	619	30	619
2027	493	12	190	0	695	0	0	0	634	634	61	634
2028	512	12	195	0	718	0	0	0	650	650	68	650
2029	515	12	0	0	526	0	0	0	664	664	-138	664
2030	505	11	0	0	516	0	0	0	640	640	-124	640
2031	395	8	0	0	403	0	0	0	491	491	-88	491
2032	275	6	0	0	280	0	0	0	335	335	-55	335
2033	141	3	0	0	143	0	0	0	171	171	-28	171
2034	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	8,885	237	2,012	0	11,134	0	517	4,250	11,695	16,462	-5,327	16,462
NPV	3,537	101	831	0	4,469	0	442	3,527	4,792	8,761	-4,292	7,445

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.510

Utility Discount Rate: 8.48

PROGRAM: Low-Income Solar WH

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	44	0	0	44	-44
2011	7	0	0	0	7	0	35	114	10	159	-152
2012	13	0	0	0	14	0	36	114	20	169	-155
2013	24	1	4	0	29	0	36	114	31	181	-152
2014	26	1	9	0	35	0	36	114	42	193	-157
2015	29	1	9	0	39	0	0	0	46	46	-7
2016	31	1	9	0	41	0	0	0	45	45	-5
2017	31	1	9	0	41	0	0	0	40	40	1
2018	30	1	10	0	41	0	0	0	38	38	3
2019	31	1	11	0	42	0	0	0	40	40	2
2020	31	1	11	0	43	0	0	0	41	41	2
2021	32	1	11	0	44	0	0	0	44	44	0
2022	36	1	6	0	43	0	0	0	44	44	-1
2023	38	1	10	0	49	0	0	0	45	45	4
2024	36	1	11	0	47	0	0	0	46	46	1
2025	37	1	11	0	48	0	0	0	47	47	1
2026	42	1	7	0	50	0	0	0	48	48	2
2027	39	1	13	0	52	0	0	0	50	50	3
2028	41	1	13	0	54	0	0	0	51	51	4
2029	44	1	7	0	51	0	0	0	52	52	-1
2030	47	1	11	0	59	0	0	0	53	53	6
2031	36	1	9	0	45	0	0	0	41	41	4
2032	25	1	6	0	31	0	0	0	28	28	3
2033	12	0	3	0	15	0	0	0	14	14	1
2034	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	714	20	188	0	922	0	187	456	918	1,561	-639
NPV	278	8	73	0	359	0	161	374	371	906	-546

Utility Discount Rate = 8.48
 Benefit Cost Ratio = 0.397

Utility Discount Rate: 8.48

PROGRAM: Residential Solar WH with LM of HVAC & WH

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	207	7	0	0	214	0	338	653	263	1,253	-1,040
2011	644	21	0	0	665	0	626	1,339	834	2,799	-2,134
2012	966	35	0	0	1,001	0	638	1,406	1,359	3,403	-2,402
2013	1,579	49	1,070	0	2,698	0	650	1,474	1,994	4,118	-1,420
2014	1,623	64	2,167	0	3,854	0	662	1,541	2,658	4,862	-1,008
2015	1,835	64	2,202	0	4,101	0	51	304	2,880	3,234	866
2016	1,872	64	4,055	0	5,991	0	51	304	2,840	3,195	2,796
2017	1,855	64	4,250	0	6,169	0	51	304	2,505	2,859	3,309
2018	1,879	64	2,591	0	4,533	0	51	304	2,409	2,764	1,770
2019	1,927	64	2,644	0	4,634	0	51	304	2,507	2,861	1,773
2020	1,959	64	2,699	0	4,722	0	51	304	2,567	2,922	1,800
2021	2,038	64	2,756	0	4,857	0	51	304	2,751	3,105	1,752
2022	2,263	64	1,506	0	3,832	0	51	304	2,771	3,126	707
2023	2,414	64	2,515	0	4,992	0	51	304	2,839	3,193	1,799
2024	2,216	64	2,626	0	4,906	0	51	304	2,901	3,255	1,651
2025	2,293	64	2,671	0	5,028	0	51	304	2,972	3,326	1,701
2026	2,597	64	1,759	0	4,419	0	51	304	3,037	3,392	1,028
2027	2,433	64	3,180	0	5,676	0	51	304	3,110	3,464	2,212
2028	2,511	64	3,255	0	5,829	0	51	304	3,179	3,534	2,296
2029	2,777	64	2,929	0	5,770	0	51	304	3,262	3,616	2,154
2030	2,597	57	4,917	0	7,570	0	51	270	2,967	3,287	4,283
2031	2,019	42	3,835	0	5,896	0	45	203	2,275	2,523	3,373
2032	1,396	28	2,659	0	4,083	0	34	135	1,547	1,716	2,367
2033	720	14	1,382	0	2,116	0	23	68	792	882	1,233
2034	0	0	0	0	0	0	11	0	0	11	-11
2035	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	44,615	1,273	57,668	0	103,556	0	3,837	11,644	57,219	72,700	30,856
NPV	15,157	467	18,473	0	34,097	0	2,360	6,199	20,148	28,707	5,390

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.188

Utility Discount Rate: 8.48

PROGRAM: Curtailable Service - RIM

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2010	1	0	0	0	1	0	0	8	1	8	-8
2011	3	0	0	0	3	0	1	15	1	17	-15
2012	3	0	0	0	3	0	1	23	2	26	-23
2013	48	0	92	0	140	0	2	31	2	35	106
2014	0	0	182	0	182	2	2	39	3	45	137
2015	0	0	222	0	222	30	3	46	4	83	139
2016	10	0	367	0	377	0	3	54	5	62	315
2017	106	0	440	0	546	0	4	62	5	70	476
2018	99	0	391	0	491	0	4	70	5	78	412
2019	83	0	444	0	527	0	5	77	6	87	439
2020	77	0	453	0	530	0	5	77	6	88	441
2021	35	0	463	0	497	0	5	77	6	89	409
2022	174	0	253	0	427	0	5	77	6	89	338
2023	192	0	422	0	614	0	5	77	7	89	525
2024	58	0	441	0	499	0	5	77	7	89	410
2025	31	0	448	0	479	0	5	77	7	89	390
2026	174	0	295	0	469	0	5	77	7	89	380
2027	66	0	534	0	600	0	5	77	7	89	510
2028	59	0	547	0	606	0	5	77	7	90	516
2029	220	0	428	0	647	0	5	77	8	90	557
2030	242	0	715	0	956	0	5	77	8	90	866
2031	247	0	744	0	990	0	5	77	8	90	900
2032	249	0	773	0	1,022	0	5	77	8	90	931
2033	243	0	804	0	1,047	0	5	77	8	91	957
2034	255	0	836	0	1,091	0	5	77	8	91	1,001
2035	247	0	870	0	1,117	0	5	77	9	91	1,026
2036	242	0	905	0	1,147	0	5	77	9	91	1,055
NOMINAL	3,668	0	13,987	0	17,654	32	118	1,892	177	2,218	15,436
NPV	855	0	3,652	0	4,508	21	36	611	52	720	3,787

Utility Discount Rate = 8.48

Benefit Cost Ratio = 6.259

Utility Discount Rate: 8.48

PROGRAM: Interruptible Service - RIM

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2010	1	0	0	0	1	0	16	13	1	30	-29
2011	3	0	0	0	3	0	17	27	1	45	-42
2012	3	0	0	0	3	0	17	40	2	59	-56
2013	76	0	147	0	223	0	18	54	3	74	149
2014	0	0	290	0	290	4	18	67	3	93	197
2015	0	0	353	0	353	51	19	81	5	155	198
2016	12	0	412	0	424	0	19	94	5	119	305
2017	119	0	493	0	612	0	20	108	5	133	479
2018	155	0	623	0	779	0	20	121	5	147	632
2019	130	0	707	0	837	0	21	135	6	162	675
2020	120	0	722	0	841	0	5	135	7	146	695
2021	50	0	737	0	787	0	5	135	8	148	639
2022	274	0	403	0	677	0	5	135	7	147	530
2023	301	0	672	0	974	0	5	135	8	147	826
2024	88	0	702	0	790	0	5	135	8	148	643
2025	45	0	714	0	759	0	5	135	8	148	611
2026	273	0	470	0	743	0	5	135	8	148	595
2027	103	0	850	0	953	0	5	135	8	148	805
2028	91	0	871	0	962	0	5	135	9	148	813
2029	247	0	479	0	726	0	5	135	9	149	577
2030	270	0	802	0	1,071	0	5	135	10	150	922
2031	277	0	834	0	1,110	0	5	135	10	149	961
2032	280	0	867	0	1,147	0	5	135	10	150	998
2033	272	0	902	0	1,174	0	5	135	11	150	1,024
2034	286	0	938	0	1,224	0	5	135	10	150	1,074
2035	277	0	976	0	1,253	0	5	135	11	150	1,102
2036	273	0	1,015	0	1,287	0	5	135	11	151	1,136
NOMINAL	4,590	0	18,133	0	22,724	56	278	3,304	209	3,846	18,877
NPV	1,141	0	5,046	0	6,187	37	150	1,066	61	1,315	4,872

Utility Discount Rate = 8.48

Benefit Cost Ratio = 4.706

Utility Discount Rate:

8.48

PROGRAM: Res Education - RIM

YEAR	BENEFITS					COSTS							NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	5,245	384	0	0	5,629	0	0	0	13,744	1,071	6,526	21,340	-15,711
2011	10,752	772	0	0	11,523	0	0	0	12,380	1,356	13,869	27,606	-16,082
2012	14,375	1,169	0	0	15,543	0	0	0	14,708	1,693	20,542	36,943	-21,399
2013	23,620	1,567	6,218	0	31,405	0	0	0	17,354	2,046	28,882	48,282	-16,877
2014	22,647	1,966	12,291	0	36,904	0	0	0	17,204	2,220	37,558	56,982	-20,078
2015	25,758	1,982	12,595	0	40,335	0	0	0	20,674	2,698	41,033	64,406	-24,071
2016	26,954	1,996	18,442	0	47,392	0	0	0	25,032	3,299	40,757	69,089	-21,698
2017	32,886	2,001	38,107	0	72,994	0	0	0	30,378	4,041	36,037	70,456	2,538
2018	28,888	2,007	14,997	0	45,892	0	0	0	33,978	4,560	34,749	73,287	-27,395
2019	29,419	2,014	15,361	0	46,794	0	0	0	38,349	5,192	36,283	79,824	-33,030
2020	23,813	1,614	12,569	0	37,996	0	0	0	0	0	29,784	29,784	8,212
2021	18,299	1,213	9,646	0	29,157	0	0	0	0	0	23,989	23,989	5,168
2022	14,244	810	3,521	0	18,576	0	0	0	0	0	16,143	16,143	2,433
2023	7,605	406	2,947	0	10,959	0	0	0	0	0	8,289	8,289	2,670
2024	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	284,505	19,900	146,694	0	451,099	0	0	0	223,802	28,176	374,441	626,419	-175,320
NPV	144,247	10,267	69,735	0	224,249	0	0	0	124,176	15,249	192,669	332,094	-107,844

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.675

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.675

PROGRAM: Residential Energy Management - RIM

YEAR	BENEFITS					COSTS						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	AVOIDED	AVOIDED	REVENUE	TOTAL	TOTAL	INCREASED	INCREASED	UTILITY	INCENTIVE	REVENUE	TOTAL
	FUEL & O&M SAVINGS	T&D CAP. COSTS	GEN. CAP. COSTS	GEN. CAP. GAINS	BENEFITS	FUEL & O&M INCREASE	T&D CAP. COSTS	GEN. CAP. COSTS	PROGRAM COSTS	PAYMENTS	LOSSES	COSTS
\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	11,715	0	22,992	0	34,707	0	0	0	11,040	20,000	815	31,855
2010	18,068	0	24,095	0	42,163	0	0	0	14,663	20,385	783	35,830
2011	16,995	0	24,864	0	41,859	0	0	0	15,594	20,770	888	37,252
2012	20,049	0	25,849	0	45,898	0	0	0	20,678	21,155	956	42,789
2013	20,247	0	37,713	0	57,961	0	0	0	51,400	21,540	1,270	74,210
2014	10,580	0	38,662	0	49,242	748	0	0	86,236	20,996	829	108,808
2015	0	0	64,114	0	64,114	14,256	0	0	116,400	21,975	1,492	154,123
2016	0	0	74,989	0	74,989	3,262	0	0	109,266	22,672	1,601	136,800
2017	41,029	0	138,858	0	179,887	0	0	0	103,536	23,370	1,495	128,400
2018	18,217	0	83,569	0	101,786	0	0	0	87,234	24,067	1,302	112,602
2019	12,907	0	87,782	0	100,689	0	0	0	71,723	24,765	1,391	97,878
2020	11,535	0	90,312	0	101,848	0	0	0	44,303	24,765	1,458	70,525
2021	1,999	0	92,926	0	94,925	0	0	0	41,690	24,765	1,884	68,338
2022	27,501	0	64,346	0	91,847	0	0	0	40,952	24,765	1,555	67,271
2023	36,212	0	65,153	0	101,365	0	0	0	37,514	24,765	1,725	64,004
2024	7,724	0	90,921	0	98,644	0	0	0	32,173	24,765	1,843	58,780
2025	1,994	0	93,165	0	95,159	0	0	0	25,873	24,765	1,819	52,457
2026	26,493	0	73,667	0	100,160	0	0	0	18,648	24,765	1,866	45,278
2027	10,415	0	112,704	0	123,119	0	0	0	15,418	24,765	1,888	42,070
2028	8,654	0	116,169	0	124,822	0	0	0	13,784	24,765	1,934	40,483
2029	16,099	0	104,848	0	120,947	0	0	0	11,632	24,765	2,069	38,466
2030	25,618	0	107,591	0	133,209	0	0	0	12,569	24,765	2,576	39,910
2031	25,406	0	111,895	0	137,300	0	0	0	14,355	24,765	2,361	41,481
2032	24,979	0	116,370	0	141,349	0	0	0	18,485	24,765	2,365	45,614
2033	23,109	0	121,026	0	144,135	0	0	0	17,853	24,765	2,770	45,388
2034	25,401	0	125,866	0	151,267	0	0	0	18,327	24,765	2,357	45,448
2035	21,525	0	130,901	0	152,425	0	0	0	18,906	24,765	2,675	46,346
2036	19,424	0	136,137	0	155,560	0	0	0	18,082	24,765	2,990	45,837
2037	20,426	0	141,582	0	162,008	0	0	0	40,207	24,765	2,683	67,655
NOMINAL	504,317	0	2,519,066	0	3,023,383	18,265	0	0	1,128,540	687,455	51,640	1,885,900
NPV	185,672	0	764,857	0	950,529	11,090	0	0	520,291	263,082	16,362	810,825

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.172

PROGRAM: Res HEI - RIM

YEAR	BENEFITS					COSTS							NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) TOTAL FUEL & O&M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	3,650	375	0	0	4,025	0	0	0	7,140	17,676	4,132	28,948	-24,923
2011	8,164	766	0	0	8,929	0	0	0	9,722	19,479	9,855	39,056	-30,127
2012	11,273	1,177	0	0	12,450	0	0	0	12,281	24,737	15,291	52,309	-39,859
2013	20,481	1,599	8,068	0	30,148	0	0	0	15,126	31,370	22,172	68,668	-38,520
2014	18,477	2,053	16,312	0	36,841	0	0	0	17,471	35,937	29,759	83,167	-46,325
2015	25,017	2,549	20,589	0	48,155	0	0	0	22,914	47,413	40,258	110,584	-62,429
2016	33,359	3,096	31,293	0	67,748	0	0	0	30,357	62,959	48,335	141,651	-73,903
2017	46,115	3,698	44,978	0	94,790	0	0	0	40,318	83,719	50,925	174,963	-80,173
2018	52,961	4,362	41,456	0	98,779	0	0	0	49,365	102,563	57,710	209,638	-110,859
2019	61,306	5,094	49,435	0	115,835	0	0	0	61,004	126,759	69,992	257,755	-141,921
2020	61,725	5,094	50,470	0	117,289	0	0	0	0	0	71,692	71,692	45,597
2021	61,233	5,094	51,536	0	117,863	0	0	0	0	0	76,852	76,852	41,011
2022	76,810	5,084	28,096	0	109,989	0	0	0	0	0	76,887	76,887	33,101
2023	79,618	5,040	40,524	0	125,181	0	0	0	0	0	76,694	76,694	48,487
2024	64,017	4,993	48,036	0	117,045	0	0	0	0	0	76,072	76,072	40,973
2025	59,581	4,676	45,826	0	110,083	0	0	0	0	0	71,938	71,938	38,145
2026	70,414	4,354	28,100	0	102,868	0	0	0	0	0	67,279	67,279	35,588
2027	54,372	4,011	46,783	0	105,166	0	0	0	0	0	62,068	62,068	43,098
2028	49,389	3,645	43,505	0	96,539	0	0	0	0	0	56,003	56,003	40,536
2029	53,065	3,254	24,784	0	81,102	0	0	0	0	0	49,331	49,331	31,771
2030	47,236	2,761	37,024	0	87,021	0	0	0	0	0	40,709	40,709	46,312
2031	37,661	2,244	31,956	0	71,860	0	0	0	0	0	30,965	30,965	40,896
2032	30,492	1,761	26,954	0	59,207	0	0	0	0	0	24,660	24,660	34,546
2033	22,140	1,227	20,818	0	44,185	0	0	0	0	0	17,484	17,484	26,702
2034	11,720	637	11,423	0	23,780	0	0	0	0	0	9,018	9,018	14,763
2035	10,649	559	10,374	0	21,583	0	0	0	0	0	8,212	8,212	13,371
2036	9,416	474	9,062	0	18,952	0	0	0	0	0	7,253	7,253	11,699
2037	7,898	380	7,442	0	15,720	0	0	0	0	0	6,124	6,124	9,596
2038	6,109	278	5,465	0	11,852	0	0	0	0	0	4,802	4,802	7,049
NOMINAL	1,094,341	80,336	780,308	0	1,954,985	0	0	0	265,698	552,612	1,182,472	2,000,782	-45,797
NPV	342,598	26,897	237,658	0	607,154	0	0	0	138,303	288,188	391,276	817,766	-210,613

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.742

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.742

PROGRAM: Low-Income Weatherization Assistance - RIM

YEAR	BENEFITS					COSTS					NET BENEFITS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	78	8	0	0	86	0	417	330	83	831	-745
2011	139	15	0	0	154	0	211	383	155	749	-595
2012	197	25	0	0	222	0	308	530	246	1,084	-862
2013	408	38	187	0	632	0	456	737	387	1,580	-948
2014	374	53	402	0	828	0	563	858	552	1,973	-1,145
2015	525	69	534	0	1,128	0	816	1,075	789	2,681	-1,553
2016	755	88	1,160	0	2,002	0	1,160	1,227	989	3,376	-1,374
2017	1,113	102	1,467	0	2,681	0	1,619	1,433	1,005	4,058	-1,376
2018	1,191	119	1,050	0	2,360	0	2,046	1,659	1,147	4,852	-2,492
2019	1,355	136	1,222	0	2,713	0	2,577	1,951	1,384	5,912	-3,200
2020	1,275	126	1,157	0	2,558	0	0	0	1,326	1,326	1,232
2021	1,156	116	1,086	0	2,358	0	0	0	1,316	1,316	1,042
2022	1,357	106	540	0	2,003	0	0	0	1,216	1,216	787
2023	1,306	96	805	0	2,206	0	0	0	1,128	1,128	1,078
2024	931	85	738	0	1,754	0	0	0	1,026	1,026	728
2025	802	73	639	0	1,514	0	0	0	909	909	605
2026	862	61	345	0	1,268	0	0	0	779	779	488
2027	707	60	611	0	1,378	0	0	0	776	776	602
2028	679	57	592	0	1,327	0	0	0	744	744	583
2029	924	52	662	0	1,639	0	0	0	702	702	937
2030	889	47	997	0	1,933	0	0	0	647	647	1,286
2031	788	41	897	0	1,725	0	0	0	565	565	1,160
2032	659	34	764	0	1,456	0	0	0	467	467	989
2033	456	23	548	0	1,028	0	0	0	322	322	706
2034	218	12	286	0	515	0	0	0	143	143	373
2035	158	9	212	0	379	0	0	0	105	105	274
2036	97	5	131	0	233	0	0	0	64	64	169
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	19,395	1,656	17,030	0	38,081	0	10,174	10,183	18,975	39,332	-1,251
NPV	7,538	707	6,510	0	14,755	0	6,114	6,413	7,799	20,326	-5,571

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.726

Utility Discount Rate: 8.48

PROGRAM: Neighborhood Energy Saver - RIM

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	330	23	0	0	353	0	567	1,810	410	2,787	-2,434
2011	973	73	0	0	1,046	0	1,366	4,774	1,217	7,357	-6,311
2012	1,543	135	0	0	1,678	0	1,987	5,977	2,131	10,095	-8,417
2013	3,005	205	1,078	0	4,287	0	2,672	6,863	3,346	12,881	-8,594
2014	2,947	282	2,341	0	5,571	0	2,954	7,773	4,744	15,471	-9,900
2015	4,178	367	3,099	0	7,644	0	3,724	8,224	6,661	18,609	-10,965
2016	5,677	460	4,698	0	10,835	0	4,923	9,067	8,207	22,197	-11,362
2017	7,382	543	5,837	0	13,762	0	6,214	9,533	8,480	24,227	-10,465
2018	8,412	617	6,125	0	15,154	0	7,179	9,983	9,264	26,426	-11,272
2019	9,327	685	6,945	0	16,956	0	8,002	9,999	10,695	28,696	-11,740
2020	8,757	639	6,636	0	16,033	0	0	0	10,198	10,198	5,834
2021	7,948	584	6,172	0	14,704	0	0	0	9,921	9,921	4,782
2022	8,700	521	2,996	0	12,217	0	0	0	8,834	8,834	3,383
2023	7,979	451	4,310	0	12,740	0	0	0	7,741	7,741	4,999
2024	5,455	377	3,730	0	9,562	0	0	0	6,481	6,481	3,081
2025	4,205	298	2,961	0	7,464	0	0	0	5,073	5,073	2,390
2026	3,657	217	1,383	0	5,257	0	0	0	3,524	3,524	1,732
2027	2,525	185	2,083	0	4,794	0	0	0	2,871	2,871	1,923
2028	1,932	152	1,681	0	3,765	0	0	0	2,156	2,156	1,609
2029	1,879	112	1,447	0	3,438	0	0	0	1,346	1,346	2,092
2030	1,812	102	2,177	0	4,090	0	0	0	1,236	1,236	2,854
2031	1,622	90	1,979	0	3,691	0	0	0	1,095	1,095	2,596
2032	1,395	76	1,734	0	3,205	0	0	0	932	932	2,273
2033	1,127	62	1,436	0	2,625	0	0	0	751	751	1,874
2034	834	46	1,084	0	1,964	0	0	0	540	540	1,424
2035	574	31	761	0	1,365	0	0	0	374	374	991
2036	293	15	395	0	704	0	0	0	192	192	512
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	104,465	7,348	73,088	0	184,900	0	39,587	74,003	118,421	232,011	-47,110
NPV	46,244	3,372	30,658	0	80,274	0	24,345	48,721	55,105	128,171	-47,897

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.626

Utility Discount Rate: 8.48

PROGRAM: Res New Construction - RIM

YEAR	BENEFITS					COSTS							NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) TOTAL FUEL & O&M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	343	36	0	0	379	0	0	0	764	2,058	385	3,207	-2,828
2011	848	80	0	0	928	0	0	0	891	2,652	1,002	4,545	-3,617
2012	1,216	128	0	0	1,343	0	0	0	1,120	3,435	1,612	6,167	-4,824
2013	2,223	178	785	0	3,186	0	0	0	1,419	4,445	2,408	8,272	-5,086
2014	2,276	256	1,782	0	4,314	0	0	0	2,144	6,622	3,550	12,315	-8,001
2015	3,256	337	2,383	0	5,976	0	0	0	2,677	8,427	5,049	16,152	-10,176
2016	4,419	422	6,522	0	11,362	0	0	0	3,408	10,916	6,251	20,576	-9,213
2017	6,759	513	8,306	0	15,577	0	0	0	4,464	14,488	6,721	25,673	-10,096
2018	7,147	609	5,065	0	12,821	0	0	0	5,331	17,581	7,725	30,636	-17,816
2019	8,418	714	6,060	0	15,191	0	0	0	6,546	21,828	9,481	37,855	-22,663
2020	8,493	714	6,186	0	15,394	0	0	0	0	0	9,711	9,711	5,683
2021	8,492	714	6,317	0	15,523	0	0	0	0	0	10,407	10,407	5,116
2022	10,387	713	3,443	0	14,543	0	0	0	0	0	10,422	10,422	4,122
2023	10,913	708	5,703	0	17,324	0	0	0	0	0	10,472	10,472	6,852
2024	8,954	703	5,901	0	15,558	0	0	0	0	0	10,470	10,470	5,089
2025	8,551	671	5,724	0	14,946	0	0	0	0	0	10,146	10,146	4,800
2026	9,993	634	3,553	0	14,179	0	0	0	0	0	9,683	9,683	4,496
2027	7,970	593	5,990	0	14,553	0	0	0	0	0	9,131	9,131	5,422
2028	7,418	550	5,654	0	13,621	0	0	0	0	0	8,450	8,450	5,171
2029	8,094	480	3,935	0	12,509	0	0	0	0	0	7,384	7,384	5,125
2030	7,778	405	7,753	0	15,936	0	0	0	0	0	6,131	6,131	9,805
2031	6,386	326	7,175	0	13,887	0	0	0	0	0	4,672	4,672	9,215
2032	5,270	256	6,283	0	11,808	0	0	0	0	0	3,760	3,760	8,048
2033	3,851	181	4,671	0	8,703	0	0	0	0	0	2,779	2,779	5,924
2034	2,242	100	2,708	0	5,050	0	0	0	0	0	1,622	1,622	3,428
2035	2,157	93	2,603	0	4,852	0	0	0	0	0	1,589	1,589	3,264
2036	2,081	86	2,481	0	4,648	0	0	0	0	0	1,549	1,549	3,099
2037	2,001	79	2,333	0	4,413	0	0	0	0	0	1,497	1,497	2,916
NOMINAL	157,929	11,282	119,314	0	288,525	0	0	0	28,765	92,450	164,059	285,273	3,252
NPV	47,343	3,678	34,328	0	85,349	0	0	0	14,890	47,457	52,268	114,615	-29,266

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.745

Utility Discount Rate: 8.48
Benefit Cost Ratio: 0.745

PROGRAM: Technical Potential

YEAR	BENEFITS					COSTS					NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED F&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) TOTAL FUEL & O&M INCREASE \$(000)	(7) UTILITY PROGRAM COSTS \$(000)	(8) INCENTIVE PAYMENTS \$(000)	(9) REVENUE LOSSES \$(000)	(10) TOTAL COSTS \$(000)	
2008	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0
2010	2,620	133	0	0	2,753	0	17,838	15,084	3,335	36,257	-33,504
2011	5,054	221	0	0	5,274	0	17,840	15,085	6,672	39,598	-34,324
2012	8,152	384	0	0	8,535	0	27,185	22,780	11,896	61,870	-53,335
2013	15,914	599	3,494	0	20,006	0	36,551	30,503	20,384	87,388	-67,382
2014	17,844	809	7,489	0	26,142	0	37,406	30,829	30,285	98,500	-72,358
2015	84,169	1,386	12,889	0	98,444	0	83,514	69,049	55,724	208,281	-159,838
2016	55,940	2,148	14,840	0	72,928	0	120,382	99,504	87,254	307,140	-234,212
2017	78,892	3,102	22,122	0	104,116	0	162,714	136,125	110,293	409,182	-905,016
2018	112,877	4,253	46,890	0	164,019	0	189,836	166,417	147,367	513,421	-849,402
2019	149,632	5,410	61,190	0	216,232	0	210,748	174,705	199,527	584,975	-368,743
2020	143,327	4,806	56,949	0	205,082	0	0	0	194,691	194,691	10,391
2021	143,921	4,709	55,933	0	204,563	0	0	0	201,864	201,864	2,699
2022	149,715	4,511	26,460	0	180,686	0	0	0	189,072	189,072	-8,386
2023	140,604	4,213	35,211	0	180,027	0	0	0	171,590	171,590	8,437
2024	118,095	3,875	45,450	0	167,420	0	0	0	149,671	149,671	17,749
2025	86,829	3,316	27,925	0	118,070	0	0	0	113,128	113,128	4,942
2026	60,155	2,651	13,580	0	76,386	0	0	0	66,799	66,799	9,587
2027	46,819	2,382	9,067	0	58,268	0	0	0	55,158	55,158	3,110
2028	34,877	2,072	13,893	0	50,842	0	0	0	41,645	41,645	9,197
2029	25,708	1,756	4,798	0	32,262	0	0	0	27,289	27,289	4,973
2030	24,469	1,570	7,043	0	33,082	0	0	0	24,945	24,945	8,137
2031	20,917	1,302	6,071	0	28,290	0	0	0	21,157	21,157	7,133
2032	15,418	930	4,310	0	20,658	0	0	0	15,414	15,414	5,244
2033	8,204	475	2,387	0	11,075	0	0	0	8,063	8,063	3,012
2034	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	1,495,145	57,015	503,912	0	2,056,072	0	913,810	760,087	1,933,153	3,627,049	-1,570,977
NPV	615,352	22,805	205,495	0	843,751	0	539,926	449,283	823,841	1,818,050	-969,298

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.465

Utility Discount Rate: 8.48

Utility Admin Cost =	\$181	\$458	\$485	\$960	\$1,888	\$4	\$200	\$200	\$460
Participant Incentive =	\$30	\$129	\$200	\$2,000	\$2,000	\$150	\$100	\$100	\$60
Participant Cost =	\$20	\$189	\$350	\$90	\$1,927	\$1.75	\$0	\$0	\$40
Free Riders =	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Year	Cumulative Participation (without measure life drop-outs)										Utility Program		
	WH-Wrap	HVAC-TU	SS/Wfilm	HVAC16+	PP-vari	CFIs	FreeRec	RefrRec	ACF/Refr	Costs	Incentives	Part. Cost	
2008	0	0	0	0	0	0	0	0	0	0	0	0	
2009	0	0	0	0	0	0	0	0	0	0	0	0	
2010	2600	12842	2000	5100	798	203171	722	6496	4040	17837608	15083997	5320615.3	
2011	5200	25684	4000	10200	1596	406342	1445	13005	8080	17840408	15085397	5320615.3	
2012	9100	48947	7000	17850	2793	812685	2399	22850	14140	27185158	22789575	8158699.3	
2013	14800	70631	11000	28050	4388	1422199	4015	36135	22220	36551016	30503251	10994855	
2014	19500	96515	15000	38250	5983	2234884	5512	45612	30300	37406300	30823908	11350404	
2015	31200	154104	24000	61201	9373	4063426	8554	78992	48480	43513598	69043499	25540909	
2016	48100	237578	37000	94353	14758	6907825	12418	111765	74740	120822195	99503779	37247113	
2017	71500	358157	55000	140255	21938	10175196	17125	154131	111100	162714354	136125347	50399874	
2018	100100	494420	77000	196358	30713	14848076	21901	197116	155540	199683190	166417470	62788020	
2019	130000	642104	100000	255011	39886	20317115	26744	240703	202000	210743152	174705236	66661795	
2020	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2021	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2022	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2023	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2024	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2025	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2026	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2027	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2028	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2029	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2030	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2031	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2032	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2033	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2034	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2035	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2036	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2037	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	
2038	130000	642104	100000	255011	39886	20317115	26744	240703	202000	0	0	0	

Year	Annual New Participation									
	WH-Wrap	HVAC-TU	SS/Wfilm	HVAC16+	PP-vari	CFIs	FreeRec	RefrRec	ACF/Refr	
2009	0	0	0	0	0	0	0	0	0	0
2010	2600	12842	2000	5100	798	203171	722	6496	4040	
2011	2600	12842	2000	5100	798	203171	723	6509	4040	
2012	5900	19263	3000	7650	1197	406343	1094	9845	6060	
2013	5200	25684	4000	10200	1595	809514	1476	13285	8080	
2014	5200	25684	4000	10200	1595	812685	1497	13477	8080	
2015	11700	57789	9000	22951	3590	1828542	3042	27380	18180	
2016	16900	83478	13000	33152	5185	2844399	3864	34773	26260	
2017	23400	115579	18000	45902	7180	3767311	4707	42366	36360	
2018	28600	141263	22000	56108	8775	4672940	4776	42985	44440	
2019	29900	147684	23000	58653	9173	5469037	4843	43587	46460	

Program Information - Total Types	Program Name	Program Name																					
		Other Business	Business Energy Savers	Commercial Education	Business Energy Response	Commercial Open Buildings	Commercial / Industrial New Construction	Steady Commission	Solar for Schools	Commercial Solar Photovoltaics	Commercial	Industrial	Commercial	Residential	Commercial Solar Photovoltaics	Commercial	Residential	Commercial	Residential	Commercial	Residential		
Customer Category	(Res / Com / Ind)	Com	Com	Com	Com	Com	Com	Com	Com	Com	Ind	Ind	Res	Res	Res	Res	Res	Res	Res	Res			
Program Type	(EE / DR / RE)	EE	EE	EE	DR	EE	EE	DR	RE	RE	DR	DR	RE	RE	RE	EE	DR	EE	EE	EE			
Program Cost (Cumulative NPV)																							
Administrative	(\$)	19,972,724	187,441	7,150,363	130,890,717	1,283,925	9,871,595	809,717	6,781,774	498,347	35,969	149,954	442,398	169,540	2,360,119	124,175,851	520,390,904	138,302,781	6,113,927	24,344,934	14,889,711	539,926,128	
Education, Surveys, Marketing	(\$)																						
Equipment, Installation, O&M	(\$)																						
Incentives / Rebates	(\$)	88,970,053	1,639,616	987,707	6,804,181	9,103,391	33,246,332	9,281,848	0	3,458,312	610,572	1,066,143	3,527,045	373,583	6,199,221	15,248,734	263,081,845	288,188,160	5,412,033	48,721,052	47,456,759	449,282,942	
Total Cost	(\$)	108,942,777	1,987,000	7,138,070	137,694,998	11,288,190	46,774,327	12,536,821	6,781,774	3,956,658	772,544	1,375,899	3,969,441	534,523	8,559,341	139,424,585	783,372,749	428,490,941	12,526,560	73,065,986	62,346,469	989,209,070	
Program Cost (% of Program)																							
Administrative	(%)	18.33%	10.24%	87.86%	93.06%	12.36%	22.89%	7.60%	100.00%	12.60%	6.79%	4.40%	11.15%	30.11%	27.57%	89.06%	66.42%	32.43%	48.81%	33.32%	23.88%	54.58%	
Education, Surveys, Marketing	(%)																						
Equipment, Installation, O&M	(%)																						
Incentives / Rebates	(%)	81.67%	89.76%	12.14%	4.94%	87.64%	77.11%	92.40%	0.00%	87.40%	93.22%	95.54%	88.85%	69.89%	72.43%	10.94%	33.58%	67.57%	51.19%	66.68%	76.12%	45.42%	
Program Rate Impact																							
Residential Rate Impact (\$/200kWh)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$0.01	\$0.00	\$0.02	\$0.39	\$1.46	\$1.28	\$0.03	\$0.18	\$0.19	\$2.61
Percentage of Total ECCR Rate	(%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12%	0.02%	0.27%	6.15%	22.82%	19.99%	0.50%	2.77%	2.96%	40.88%
Lost Revenues	(\$)	112,920,389	1,347,146	9,596,436	178,328,909	8,691,070	25,827,025	953,000	1,131,137	4,852,167	52,385	61,309	4,791,756	371,215	20,147,634	192,069,351	16,361,778	391,275,539	7,799,062	55,105,237	52,268,133	823,840,824	

Exhibit 3

Premium T8, EB 2010-2 (with AC Savings)
Premium T8, EB 2010-2 (with reflector)
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction
Occupancy Sensor 2010-2 (per KW connected Lighting w/AC Savings))
Vending Mizers (Cooled machines only)
CMH 39 Ceramic MH (RFL150) (with AC Savings)
High Bay T5
LED Display Lighting
CFL 26w hardwire kit
Hotel AC control sensors
Compressor VSD retrofit (Refrigeration)
Oversized air cooled condenser (Refrigeration)
EMS - Chiller Optimization
EMS - Optimization
Building Commissioning
Centrifugal Chiller, 0.63 to .60 KW/ton
Chiller--rotary/screw .72 to .67 kw/ton
Chiller--Air cooled 1.26 to 1.17 kw/ton
DX Packaged System, EER=10.6 (20 tons)
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)
Geothermal Heat Pump EER/COP 14.1/3.3
SEER 13 AC to SEER 14 HP to 2014
SEER 13 AC to SEER 15 HP
SEER 13 AC to SEER 17 HP
SEER 13 HP to SEER 14 HP to 2014
SEER 13 HP to SEER 15HP
SEER 13 HP to SEER 17 HP
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9
SPV HP EER/COP 8.6/2.7 - 9.46/2.97
PTAC to PTAC
13-14 SEER A/C
15 SEER A/C
16 SEER A/C
19+ SEER A/C
Demand Control Ventilation (DCV)
Demand control circulating system (Water heating)
Heat Pump water heater air source (Water heating)
Heat Trap (Water Heating)
Variable Speed Drive Control
Exhaust Hood opt. (Ventilation)

VSD for chiller and tower pumps (Cooling)
 Heat Pipe for AC package
 Multiplex Compressor system
 Energy Recovery Ventilation (ERV)
 Duct Repair
 PTAC-HP Coil Cleaning (20 tons) p/ton
 DX Tune Up
 Chiller Tube Cleaning
 DX RTU Re-commissioning
 Thermal Energy Storage (TES) (Positive)
 Thermal Energy Storage (TES) (Negative) NOT USED IN PLAN TOOL
 TES < 50 Tons pos
 TES < 50 Tons neg
 Window Film (Standard)
 Ceiling Insulation <R11 to R19 to 2014
 Ceiling insulation <R11 to R30
 Roof Insulation <R11 to R19 to 2014
 Cool Roof with Roof Insulation <R11 to R19
 Cool Roof - Chiller
 Cool Roof - DX
 Green Roof
 Compressed Air Tune Up
 High Efficiency Motors 1-200 HP (5,25,100HP) 2010-11 p/HP
 High Efficiency Motors > 200 HP (225HP) p/HP
 Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP
 Strip Curtains for Walk -in Coolers
 Night covers for open display coolers
 Freezer door replacement gaskets
 Pipe insulation
 Ice Maker
 Anti-sweat heater control (Ref)
 Evaporator fan control
 Automatic door closers for walk-in
 Floating head pressure controls
 Demand Hot gas defrost
 Demand Defrost electric

Business Energy Check

Com EE

Free Walk Through
 Web-Customer Completed
 Paid Walk Through

Exhibit 5
 Page 2 of 11

Business Energy Saver

Com EE

Window film/sun screen
 HVAC tune-up /clean
 CF23
 CF18
 CF15
 CF11
 WH wrap
 WH temp
 Aerators
 Ref brush
 Ref therm
 Switch plate thermometer
 AC weatherization kit
 Foam Insulation
 Caulk
 Weather stripping
 Door sweep
 AC filter -- 12
 Glass tape
 12 SEER Rm A/C

Comm. New Construction

Com EE

Premium T8, EB 2010 (with AC Savings)
 Induction Lighting /Cold Cathode
 Vending Mizers
 CMH 39 Ceramic MH (RFL150) 2010 (with AC Savings)
 High Bay T5 2010 (with AC Savings)
 LED Display Lighting 2010 (with AC Savings)
 Oversized air cooled condenser (Refrigeration)
 EMS - Chiller
 EMS - Optimization
 Building Commisioning
 Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010
 Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013
 Chiller Rotary/screw .67 kw/ton (300 tons) 2010
 Chiller Rotary/screw .60 kw/ton (300 tons) 2013
 Chiller--Air cooled 1.17 kw/ton (50 tons) 2010
 Chiller--Air cooled 1.05 kw/ton (50 tons) 2013
 DX Packaged System EER 9.7 - 10.6 (15 ton) 2010

DX Packaged System EER 10.4 - 11.1 (15 ton) 2013
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013
Geothermal Heat Pump EER/COP 14.1/3.3 2010
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019
SEER 13 HP to SEER 14 HP 2010
SEER 14.5 HP to SEER 16 HP 2013
SEER 13 HP to SEER 15 HP 2010
SEER 14.5 HP to SEER 17 HP 2013
SEER 13 HP to SEER 17 HP 2010
SEER 14.5 HP to SEER 18 HP 2013
PTAC-PTHP 11k EER/COP 10.8-2.95 2010
PTAC-PTHP 11k EER/COP 11.6-3.2 2013
15 SEER A/C
16 SEER A/C
19+ SEER A/C
Demand Control Ventilation (DCV) 2010
Demand control circulating system (Water heating)
Heat Pump water heater air source (Water heating)
Heat Trap (Water Heating)
Variable speed drive control
VSD for chiller and tower pumps (Cooling)
Heat Pipe
Multiplex Compressor system
Energy Recovery Ventilation (ERV) 2010
Thermal Energy Storage (TES) (Positive)
Thermal Energy Storage (TES) (Negative) NOT USED Plan Tool
TES < 50 Tons (Pos)
TES < 50 Tons (Neg)
Window Film SHGC .40 (Standard) 2010
Window Film SHGC .36 (Standard) 2013
Roof Insulation R-11 to R-19 2010
Roof Insulation R-13 to R-19 2013
Cool Roof with Insulation R11 to R19 2010
Cool Roof with Insulation R15 to R19 2013
Cool Roof - Chiller .60 kw/ton 2010
Cool Roof - Chiller .55 kw/ton 2013
Cool Roof - DX EER 9 2010
Cool Roof - DX EER 10 2013
Green Roof
High Efficiency Motors 1-200 HP (5,25,100HP) 2010-11 p/HP
High Efficiency Motors 1-200 HP (5,25,100HP) 2013 p/HP
High Efficiency Motors > 200 HP (225HP) p/HP
Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP

Strip Curtains for Walk -in Coolers
Ice Maker
Anti-sweat heater control (Ref)
Evaporator fan control
Automatic door closers for walk-in
Floating head pressure controls
Demand Hot gas defrost
Demand Defrost electric

Comm Ed Tools Com EE

CFL 60W to 13-15W (Guest Room)
Refrigerator Thermometer
Switch plate thermometer
Smart Strip

Commercial Business Energy Response Com DR

Awareness
Lg EMS
SM EMS

Commercial Green Building Com EE

LEED Program

Commercial Standby Gen Com DR

Stand-By

Commercial Solar PV Com RE

Commercial Solar PV 25KW panel @ \$2 per watt

Commercial Solar Schools Pilot Com RE

Solar for Schools - Emergency Battery Back-Up

Residential Energy Management

Res DR

Ewise Next Gen

HEI

Res EE

- Early Replace. 15 SEER A/C
- Early Replace. 15 SEER A/C
- Early Replace. 15 SEER HP to HP
- Early Replace. 15 SEER HP to HP
- Early Replace. 15 SEER Strip to HP
- Early Replace. 15 SEER Strip to HP
- Early Replace. 16 SEER A/C
- Early Replace. 16 SEER A/C
- Early Replace. 16 SEER HP to HP
- Early Replace. 16 SEER HP to HP
- Early Replace. 16 SEER Strip to HP
- Early Replace. 16 SEER Strip to HP
- Early Replace. 19+ SEER A/C
- Early Replace. 19+ SEER A/C
- Early Replace. 19+ SEER HP to HP
- Early Replace. 19+ SEER HP to HP
- Early Replace. 19+ SEER Strip to HP
- Early Replace. 19+ SEER Strip to HP
- 14 SEER A/C
- 14 SEER A/C
- 14 SEER HP to HP
- 14 SEER HP to HP
- 14 SEER Strip to HP
- 14 SEER Strip to HP
- 15 SEER A/C
- 15 SEER A/C
- 15 SEER HP to HP
- 15 SEER HP to HP
- 15 SEER Strip to HP
- 15 SEER Strip to HP
- 16 SEER A/C
- 16 SEER A/C
- 16 SEER HP to HP
- 16 SEER HP to HP
- 16 SEER Strip to HP

16 SEER Strip to HP
19+ SEER A/C
19+ SEER A/C
19+ SEER HP to HP
19+ SEER HP to HP
19+ SEER Strip to HP
19+ SEER Strip to HP
Duct Repair
Duct Repair
Duct Test
Geothermal Heat Pumps
HVAC Commissioning
HVAC Commissioning
HVAC Tune-up
HVAC Tune-up
HVAC Plenum Seal
HVAC Plenum Seal
HVAC Proper Sizing
HVAC Proper Sizing
HVAC QI Bundle Commissioning Plem Seal and Sizing
HVAC QI Bundle Commissioning Plem Seal and Sizing
Insulation - Attic Spray Foam
Insulation - Wall (R5 to R10)
Insulation - Wall
Attic Insulation < R15 to R30
Attic Insulation <R15 to R30
Attic Insulation R19
Attic Insulation R19
Attic Insulation R30
Attic Insulation R30
Radiant Barrier
Radiant Barrier
Reflective Roof
Reflective Roof
Reflective Roof Coating
Window Film (west only)
Window Film (west only)
Window Film (all but north)
Window Film (all but north)
Windows .4/.3 (vinyl)
Windows .4/.3 (vinyl)
Windows .65/.4 (alum)
Windows .65/.4 (alum)
Heat Pump Water Heater

Low Income Weatherization (LIWAP)

Res EE

Window Film/ Screen Single Family
Roof Coating
Weatherization Reduce Infiltration
Weatherization 2006 Insulation R-19
Weatherization 2006 Insulation R-30
Weatherization Duct Test
Weatherization 2006 Duct Repair - Ducted System
Weatherization Duct Repair-NonDucted System
Weatherization 2006 Heat Pump to Heat Pump SEER 14
Weatherization 2006 Heat Pump to Heat Pump SEER 15
Weatherization 2006 Resist Heat to Heat Pump SEER 14
Weatherization 2006 Resist Heat to Heat Pump SEER 15
Weatherization HVAC Tune Up
Weatherization Compact Fluorescent Light Bulb
Weatherization Refrigerator coil brush
Weatherization Wrap Water Heater
Weatherization Heat Pump Water Heater
Weatherization Low Flow Showerhead
Weatherization Faucet Aerator
Energy Star window A/C
AC Window unit Winter Kit
Recycle

Neighborhood Energy Saver

Res EE

Insulation
Solar Screen/Window film
HVAC Tune-up
12 SEER Room A/C
CF23
CF18
CF15
CF11
Water Heater Wrap
Water Heater Temp set
Faucet Aerators
Low flow Showerhead
Refrigerator Coil Brush
Refrigerator Thermometer

Wall Switch Plate Thermometer
 AC Window unit Winter Kit
 Foam Insulation on Pipe Penetrations
 HVAC Caulking
 Weather Strip
 Door Sweep
 AC Filters - annual supply
 Glass Tape - window repair

Residential New Construction

Res EE

15 SEER HP
 15 SEER HP
 16 SEER HP
 16 SEER HP
 19+ SEER HP
 19+ SEER HP
 Seal Ducts
 Seal Ducts
 Energy Star - 2 HA measures installed
 Energy Star - 2 HA measures installed
 Geothermal Heat Pumps
 HVAC Commissioning
 HVAC Commissioning
 HVAC ACCA Quality Installation
 HVAC ACCA Quality Installation
 Insulation - Advanced Wall
 Multi-Family Heat Pump Installation - incentive covers incremental costs from straight cool to HP
 Code Plus 20 - > 20% of current FI Energy Code, aligns with \$2,000 Federal Tax Credit - 3 HA
 measures installed
 Windows .4/.3
 Windows .4/.3
 Heat Pump Water Heater

Technology Potential

Res EE

Water heater blanket on old water heaters
 Annual maintenance
 Install solar window screens
 Replace current HVAC system with high efficiency model with ECM (16+SEER)
 Pool Pump (2 speed)
 Pool Pump (variable)
 CFL discounts thru retailers

Freezer Recycling
Refrigerator Recycling
Air Filters

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Summer Demand (%)	Winter Demand (%)	Annual Energy (%)	Summer Demand (%)	Winter Demand (%)	Annual Energy (%)
Better Business (existing)									
Component Measure Name									
Premium T8, EB 2010-2 (with AC Savings)	16.817	8.558	50.5372	22.68%	34.95%	21.00%	1.41%	0.77%	1.58%
Occupancy Sensor 2010-2 (per KW connected Lighting)	3.301		9.8638	4.45%		4.10%	0.28%		0.31%
CMH 39 Ceramic MH (RFL150) (with AC Savings)	1.663		4.9960	2.24%		2.08%	0.14%		0.16%
High Bay T5	1.488		5.1039	2.01%		2.12%	0.12%		0.16%
LED Display Lighting	0.787		2.2624	1.06%		0.94%	0.07%		0.07%
CFL 26w hardwire kit	0.139	0.094	0.3464	0.19%	0.38%	0.14%	0.01%	0.01%	0.01%
Centrifugal Chiller, 0.63 to .60 KW/ton	0.817		1.7478	1.10%		0.73%	0.07%		0.05%
Chiller--rotary/screw .72 to .67 kw/ton	0.077		0.1610	0.10%		0.07%	0.01%		0.01%
Chiller--Air cooled 1.26 to 1.17 kw/ton	0.170		0.3225	0.23%		0.13%	0.01%		0.01%
DX Packaged System, EER=10.6 (20 tons)	0.188		0.3646	0.25%		0.15%	0.02%		0.01%
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	0.276		0.8584	0.37%		0.36%	0.02%		0.03%
Geothermal Heat Pump EER/COP 14.1/3.3	0.239	0.395	0.7452	0.32%	1.61%	0.31%	0.02%	0.04%	0.02%
SEER 13 AC to SEER 14 HP to 2014	0.041	0.151	0.2418	0.06%	0.62%	0.10%	0.00%	0.01%	0.01%
SEER 13 AC to SEER 15 HP	0.145	0.293	0.6007	0.20%	1.20%	0.25%	0.01%	0.03%	0.02%
SEER 13 AC to SEER 17 HP	0.254	0.308	0.8388	0.34%	1.26%	0.35%	0.02%	0.03%	0.03%
SEER 13 HP to SEER 14 HP to 2014	0.030	0.002	0.0625	0.04%	0.01%	0.03%	0.00%	0.00%	0.00%
SEER 13 HP to SEER 15HP	0.031	0.003	0.0646	0.04%	0.01%	0.03%	0.00%	0.00%	0.00%
SEER 13 HP to SEER 17 HP	0.152	0.016	0.3252	0.21%	0.07%	0.14%	0.01%	0.00%	0.01%
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	0.664	1.406	2.7319	0.89%	5.74%	1.14%	0.06%	0.13%	0.09%
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	0.617	0.044	1.2779	0.83%	0.18%	0.53%	0.05%	0.00%	0.04%
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	0.068	0.005	0.1343	0.09%	0.02%	0.06%	0.01%	0.00%	0.00%
Demand Control Ventilation (DCV)	0.313	1.008	0.7348	0.42%	4.12%	0.31%	0.03%	0.09%	0.02%
Energy Recovery Ventilation (ERV)	0.006	0.014	0.5037	0.01%	0.06%	0.21%	0.00%	0.00%	0.02%
Duct Repair	0.081	0.036	0.2702	0.11%	0.15%	0.11%	0.01%	0.00%	0.01%
PTAC-HP Coil Cleaning (20 tons) p/ton	0.624		1.1710	0.84%		0.49%	0.05%		0.04%
DX Tune Up	2.777		5.2163	3.75%		2.17%	0.23%		0.16%
DX RTU Re-commissioning	3.385	1.532	4.9657	4.57%	6.25%	2.06%	0.28%	0.14%	0.15%
Thermal Energy Storage (TES) (Positive)	5.225		8.2301	7.05%		3.42%	0.44%		0.26%
Thermal Energy Storage (Negative)NOT USED									
Window Film (Standard)	0.948		1.8415	1.28%		0.77%	0.08%		0.06%
Ceiling Insulation <R11 to R19 to 2014	0.006	0.014	0.0115	0.01%	0.06%	0.00%	0.00%	0.00%	0.00%
Ceiling insulation <R11 to R30	0.087	0.208	0.1731	0.12%	0.85%	0.07%	0.01%	0.02%	0.01%
Roof Insulation <R11 to R19 to 2014	0.081	0.193	0.1614	0.11%	0.79%	0.07%	0.01%	0.02%	0.01%
Cool Roof with Roof Insulation <R11 to R19	1.200	0.619	2.4969	1.62%	2.53%	1.04%	0.10%	0.06%	0.08%
Cool Roof - Chiller	0.579		1.2488	0.78%		0.52%	0.05%		0.04%
Cool Roof - DX	5.027		10.4346	6.78%		4.34%	0.42%		0.33%
Green Roof	0.047	0.032	0.0978	0.06%	0.13%	0.04%	0.00%	0.00%	0.00%
Compressed Air Tune Up	1.485	1.485	5.4829	2.00%	6.06%	2.28%	0.12%	0.13%	0.17%
High Efficiency Motors > 200 HP (225HP) p/HP	0.185		0.4005	0.25%		0.17%	0.02%		0.01%
Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	2.742		10.1151	3.70%		4.20%	0.23%		0.32%
Premium T8, EB 2010-2 (with reflector)	11.398	4.377	35.8602	15.37%	17.87%	14.90%	0.95%	0.40%	1.12%
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	1.652	0.545	7.9154	2.23%	2.23%	3.29%	0.14%	0.05%	0.25%
Vending Mizers (Cooled machines only)	0.787	1.120	5.5151	1.06%	4.58%	2.29%	0.07%	0.10%	0.17%
Hotel AC control sensors	0.794	0.053	13.9987	1.07%	0.22%	5.82%	0.07%	0.00%	0.44%
Compressor VSD retrofit (Refrigeration)	0.882	0.724	9.9410	1.19%	2.96%	4.13%	0.07%	0.07%	0.31%
Oversized air cooled condenser (Refrigeration)	0.029	0.024	0.2315	0.04%	0.10%	0.10%	0.00%	0.00%	0.01%
EMS - Chiller Optimization	0.460	0.031	2.0275	0.62%	0.13%	0.84%	0.04%	0.00%	0.06%
Building Commissioning	0.087		0.5538	0.12%		0.23%	0.01%		0.02%
PTAC to PTAC	0.476		1.6559	0.64%		0.69%	0.04%		0.05%
13-14 SEER A/C	0.004		0.0065	0.01%		0.00%	0.00%		0.00%
15 SEER A/C	0.008		0.0122	0.01%		0.01%	0.00%		0.00%
16 SEER A/C	0.011		0.0172	0.01%		0.01%	0.00%		0.00%

19+ SEER A/C	0.018		0.0288	0.02%		0.01%	0.00%		0.00%
Heat Pump water heater air source (Water heating)	0.065	0.049	0.4207	0.09%	0.20%	0.17%	0.01%	0.00%	0.01%
Variable Speed Drive Control	0.326	0.299	9.3771	0.44%	1.22%	3.90%	0.03%	0.03%	0.29%
Exhaust Hood opt. (Ventilation)	1.359	0.529	1.2414	1.83%	2.16%	0.52%	0.11%	0.05%	0.04%
VSD for chiller and tower pumps (Cooling)	1.446	0.024	6.3896	1.95%	0.10%	2.66%	0.12%	0.00%	0.20%
Heat Pipe for AC package	1.212		5.1413	1.63%		2.14%	0.10%		0.16%
Multiplex Compressor system	0.365	0.300	2.9376	0.49%	1.23%	1.22%	0.03%	0.03%	0.09%
Ice Maker			0.2110			0.09%			0.01%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Summer Demand (%)	Winter Demand (%)	Annual Energy (%)	Summer Demand (%)	Winter Demand (%)	Annual Energy (%)
Commercial / Industrial New Construction									
Component Measure Name									
Premium T8, EB 2010 (with AC Savings)	0.506	0.167	1.9353	1.86%	1.78%	0.17%	0.04%	0.01%	0.16%
CMH 39 Ceramic MH (RFL150) 2010 (with AC Savings)	0.619	0.204	2.2825	2.27%	2.18%	0.21%	0.05%	0.02%	0.19%
High Bay T5 2010 (with AC Savings)	0.808	0.267	2.8233	2.97%	2.84%	0.26%	0.07%	0.02%	0.24%
LED Display Lighting 2010 (with AC Savings)	0.612	0.202	1.7628	2.25%	2.15%	0.16%	0.05%	0.02%	0.15%
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	0.184		0.3907	0.68%		0.04%	0.02%		0.03%
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	0.532		1.1372	1.95%		0.10%	0.04%		0.10%
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	0.031		0.0637	0.11%		0.01%	0.00%		0.01%
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	0.053		0.1122	0.19%		0.01%	0.00%		0.01%
Chiller--Air cooled 1.17 kw/ton (50 tons) 2010	0.029		0.0534	0.11%		0.00%	0.00%		0.00%
Chiller--Air cooled 1.05 kw/ton (50 tons) 2013	0.046		0.0857	0.17%		0.01%	0.00%		0.01%
DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	0.296		0.5653	1.09%		0.05%	0.02%		0.05%
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	0.352		0.6850	1.29%		0.06%	0.03%		0.06%
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	0.098		0.3165	0.36%		0.03%	0.01%		0.03%
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	0.179		0.5168	0.66%		0.05%	0.01%		0.04%
Geothermal Heat Pump EER/COP 14.1/3.3 2010	0.104	0.241	0.3152	0.38%	2.57%	0.03%	0.01%	0.02%	0.03%
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	0.163	0.421	0.5260	0.60%	4.49%	0.05%	0.01%	0.04%	0.04%
SEER 13 HP to SEER 14 HP 2010	0.035	0.010	0.0732	0.13%	0.10%	0.01%	0.00%	0.00%	0.01%
SEER 14.5 HP to SEER 16 HP 2013	0.065	0.021	0.1421	0.24%	0.22%	0.01%	0.01%	0.00%	0.01%
SEER 13 HP to SEER 15 HP 2010	0.053	0.015	0.1122	0.19%	0.16%	0.01%	0.00%	0.00%	0.01%
SEER 14.5 HP to SEER 17 HP 2013	0.087	0.019	0.1858	0.32%	0.20%	0.02%	0.01%	0.00%	0.02%
SEER 13 HP to SEER 17 HP 2010	0.079	0.018	0.1665	0.29%	0.19%	0.02%	0.01%	0.00%	0.01%
SEER 14.5 HP to SEER 18 HP 2013	0.100	0.016	0.2124	0.37%	0.17%	0.02%	0.01%	0.00%	0.02%
PTAC-PTHP 11k EER/COP 10.8-2.95 2010	0.129	1.100	0.8980	0.47%	11.72%	0.08%	0.01%	0.09%	0.08%
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	0.214	2.046	1.6545	0.78%	21.79%	0.15%	0.02%	0.17%	0.14%
Demand Control Ventilation (DCV) 2010	0.052	0.169	0.1148	0.19%	1.80%	0.01%	0.00%	0.01%	0.01%
Energy Recovery Ventilation (ERV) 2010	0.290	1.358	0.2018	1.06%	14.46%	0.02%	0.02%	0.11%	0.02%
Thermal Energy Storage (TES) (Positive)	24.836		39.2657	91.19%		3.55%	2.08%		3.29%
Thermal Energy Storage (TES) (Negative) NOT USED	-8.937		-14.1254	-32.81%		-1.28%	-0.75%		-1.18%
Window Film SHGC .40 (Standard) 2010	0.216		0.4105	0.79%		0.04%	0.02%		0.03%
Window Film SHGC .36 (Standard) 2013	0.279		0.5201	1.02%		0.05%	0.02%		0.04%
Roof Insulation R-11 to R-19 2010	0.073	0.187	0.1726	0.27%	1.99%	0.02%	0.01%	0.02%	0.01%
Roof Insulation R-13 to R-19 2013	0.799	2.037	0.1872	2.93%	21.70%	0.02%	0.07%	0.17%	0.02%
Cool Roof with Insulation R11 to R19 2010	0.092	0.056	0.2080	0.34%	0.60%	0.02%	0.01%	0.00%	0.02%
Cool Roof with Insulation R15 to R19 2013	0.104	0.035	0.2337	0.38%	0.38%	0.02%	0.01%	0.00%	0.02%
Cool Roof - Chiller .60 kw/ton 2010	0.091		0.2056	0.33%		0.02%	0.01%		0.02%
Cool Roof - Chiller .55 kw/ton 2013	0.163		0.3689	0.60%		0.03%	0.01%		0.03%
Cool Roof - DX EER 9 2010	0.280		0.6068	1.03%		0.05%	0.02%		0.05%
Cool Roof - DX EER 10 2013	0.436		0.9542	1.60%		0.09%	0.04%		0.08%
Green Roof	0.062	0.034	0.1362	0.23%	0.36%	0.01%	0.01%	0.00%	0.01%
High Efficiency Motors > 200 HP (225HP) p/HP	0.018		0.0385	0.07%		0.00%	0.00%		0.00%
Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	0.164		0.6076	0.60%		0.05%	0.01%		0.05%
Induction Lighting /Cold Cathode	0.251	0.083	1.2053	0.92%	0.88%	0.11%	0.02%	0.01%	0.10%
Vending Mizers	0.230	0.327	1.6157	0.84%	3.48%	0.15%	0.02%	0.03%	0.14%
Oversized air cooled condenser (Refrigeration)	0.036	0.030	0.2908	0.13%	0.32%	0.03%	0.00%	0.00%	0.02%
Building Commissioning	0.087		0.8827	0.32%		0.08%	0.01%		0.07%
15 SEER A/C	0.024		0.0658	0.09%		0.01%	0.00%		0.01%
16 SEER A/C	0.034		0.0926	0.12%		0.01%	0.00%		0.01%
19+ SEER A/C	0.055		0.1522	0.20%		0.01%	0.00%		0.01%
Variable speed drive control	0.229	0.210	6.6121	0.84%	2.24%	0.60%	0.02%	0.02%	0.55%
VSD for chiller and tower pumps (Cooling)	0.336	0.006	1.4894	1.23%	0.06%	0.13%	0.03%	0.00%	0.12%
Heat Pipe	1.426		6.0705	5.23%		0.55%	0.12%		0.51%
Multiplex Compressor system	0.134	0.110	1.0839	0.49%	1.17%	0.10%	0.01%	0.01%	0.09%
Ice Maker			0.2491			0.02%			0.02%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Component Measure Name	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Business Energy Saver									
Window film/sun screen	0.174		0.326	7.27%		9.65%	0.01%		0.01%
HVAC tune-up /clean	0.396		0.450	16.49%		13.30%	0.03%		0.01%
CF23	0.113	0.023	0.283	4.70%	3.71%	8.36%	0.01%	0.00%	0.01%
CF18	0.084	0.017	0.210	3.48%	2.75%	6.20%	0.01%	0.00%	0.01%
CF15	0.033	0.007	0.083	1.37%	1.09%	2.45%	0.00%	0.00%	0.00%
CF11	0.021	0.004	0.054	0.89%	0.70%	1.58%	0.00%	0.00%	0.00%
WH wrap	0.014	0.003	0.084	0.57%	0.45%	2.49%	0.00%	0.00%	0.00%
WH temp	0.010	0.002	0.094	0.43%	0.34%	2.78%	0.00%	0.00%	0.00%
Aerators	0.091	0.018	0.085	3.79%	2.99%	2.50%	0.01%	0.00%	0.00%
Ref brush	0.065	0.013	0.189	2.72%	2.15%	5.57%	0.01%	0.00%	0.01%
Ref therm	0.063	0.013	0.058	2.64%	2.09%	1.71%	0.01%	0.00%	0.00%
Switch plate thermometer	0.107	0.021	0.248	4.46%	3.52%	7.32%	0.01%	0.00%	0.01%
AC weatherization kit	0.036	0.007	0.019	1.50%	1.18%	0.57%	0.00%	0.00%	0.00%
Foam Insulation	0.058	0.058	0.052	2.40%	9.46%	1.55%	0.00%	0.01%	0.00%
Caulk	0.043	0.009	0.067	1.77%	1.40%	1.99%	0.00%	0.00%	0.00%
Weather stripping	0.302	0.060	0.363	12.57%	9.92%	10.72%	0.03%	0.01%	0.01%
Door sweep	0.229	0.046	0.168	9.53%	7.52%	4.98%	0.02%	0.00%	0.01%
AC filter -- 12	0.418	0.084	0.373	17.41%	13.74%	11.02%	0.03%	0.01%	0.01%
Glass tape	0.023	0.005	0.021	0.96%	0.76%	0.62%	0.00%	0.00%	0.00%
Insulation	0.123	0.220	0.157	5.13%	36.17%	4.64%	0.01%	0.02%	0.00%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Component Measure Name	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Commercial Ed Tools									
CFL 60W to 13-15W (Guest Room)	4.788	1.513	5.16	36.14%	24.82%	19.87%	0.40%	0.14%	0.16%
Refrigerator Thermometer	1.922	0.382	1.67	14.51%	6.27%	6.43%	0.16%	0.03%	0.05%
Switch plate thermometer	2.691	0.382	6.44	20.32%	6.27%	24.81%	0.23%	0.03%	0.20%
Weatherization 2006 Insulation R-19	3.845	3.820	12.69	29.02%	62.67%	48.88%	0.32%	0.35%	0.40%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Home Energy Improvement (existing)	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Component Measure Name	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
15 SEER A/C	0.818		1.116	0.33%		0.20%	0.07%		0.03%
15 SEER A/C	0.102		0.183	0.04%		0.03%	0.01%		0.01%
15 SEER HP to HP	21.140	5.587	30.180	8.46%	1.41%	5.36%	1.77%	0.50%	0.94%
15 SEER HP to HP	0.449	0.086	0.818	0.18%	0.02%	0.15%	0.04%	0.01%	0.03%
15 SEER Strip to HP	11.341	71.354	43.577	4.54%	17.97%	7.75%	0.95%	6.45%	1.36%
15 SEER Strip to HP	0.235	1.105	0.564	0.09%	0.28%	0.10%	0.02%	0.10%	0.02%
16 SEER A/C	1.142		1.569	0.46%		0.28%	0.10%		0.05%
16 SEER A/C	0.142		0.258	0.06%		0.05%	0.01%		0.01%
16 SEER HP to HP	5.903	1.836	8.536	2.36%	0.46%	1.52%	0.49%	0.17%	0.27%
16 SEER HP to HP	0.142	0.033	0.262	0.06%	0.01%	0.05%	0.01%	0.00%	0.01%
16 SEER Strip to HP	3.200	14.855	10.206	1.28%	3.74%	1.81%	0.27%	1.34%	0.32%
16 SEER Strip to HP	0.142	0.493	0.321	0.06%	0.12%	0.06%	0.01%	0.04%	0.01%
19+ SEER A/C	0.476		0.660	0.19%		0.12%	0.04%		0.02%
19+ SEER A/C	0.119		0.218	0.05%		0.04%	0.01%		0.01%
19+ SEER HP to HP	1.903	0.446	2.726	0.76%	0.11%	0.48%	0.16%	0.04%	0.09%
19+ SEER HP to HP	0.237	0.041	0.439	0.09%	0.01%	0.08%	0.02%	0.00%	0.01%
19+ SEER Strip to HP	0.952	2.701	2.368	0.38%	0.68%	0.42%	0.08%	0.24%	0.07%
19+ SEER Strip to HP	0.237	0.503	0.498	0.09%	0.13%	0.09%	0.02%	0.05%	0.02%
Duct Repair	32.285	72.452	38.740	12.92%	18.25%	6.89%	2.70%	6.54%	1.21%
Duct Repair	9.117	10.830	10.882	3.65%	2.73%	1.93%	0.76%	0.98%	0.34%
Duct Test									
Geothermal Heat Pumps	0.261	1.617	0.996	0.10%	0.41%	0.18%	0.02%	0.15%	0.03%
HVAC Commissioning	2.936	1.582	4.314	1.17%	0.40%	0.77%	0.25%	0.14%	0.13%
HVAC Commissioning	0.058	0.031	0.086	0.02%	0.01%	0.02%	0.00%	0.00%	0.00%
HVAC Tune-up	22.102	11.906	32.939	8.84%	3.00%	5.85%	1.85%	1.08%	1.03%
HVAC Tune-up	2.637	1.420	3.929	1.05%	0.36%	0.70%	0.22%	0.13%	0.12%
HVAC Plenum Seal									
HVAC Plenum Seal									
HVAC Proper Sizing	1.173	3.587		0.47%	0.90%		0.10%	0.32%	
HVAC Proper Sizing	0.096	0.293		0.04%	0.07%		0.01%	0.03%	
HVAC QI Commission Plenum Seal & Sizing	26.616	30.728	29.968	10.65%	7.74%	5.33%	2.23%	2.78%	0.94%
HVAC QI Commission Plenum Seal & Sizing	2.894	3.341	3.259	1.16%	0.84%	0.58%	0.24%	0.30%	0.10%
Insulation - Wall (R5 to R10)	2.033	10.147	3.272	0.81%	2.56%	0.58%	0.17%	0.92%	0.10%
Attic Insulation < R15 to R30	1.265	1.985	1.855	0.51%	0.50%	0.33%	0.11%	0.18%	0.06%
Attic Insulation < R15 to R30	0.109	0.214	0.174	0.04%	0.05%	0.03%	0.01%	0.02%	0.01%
Attic Insulation R19	0.317	0.496	0.472	0.13%	0.12%	0.08%	0.03%	0.04%	0.01%
Attic Insulation R19	0.145	0.286	0.235	0.06%	0.07%	0.04%	0.01%	0.03%	0.01%
Attic Insulation R30	30.219	47.318	44.668	12.09%	11.92%	7.94%	2.53%	4.27%	1.39%
Attic Insulation R30	0.530	1.040	0.849	0.21%	0.26%	0.15%	0.04%	0.09%	0.03%
Reflective Roof	1.869		2.634	0.75%		0.47%	0.16%		0.08%
Reflective Roof	0.449		0.633	0.18%		0.11%	0.04%		0.02%
Reflective Roof Coating	0.000		0.001	0.00%		0.00%	0.00%		0.00%
Window Film (west only)	0.771		0.491	0.31%		0.09%	0.06%		0.02%
Window Film (west only)	0.196		0.127	0.08%		0.02%	0.02%		0.00%
Window Film (all but north)	3.207		4.056	1.28%		0.72%	0.27%		0.13%
Window Film (all but north)	1.589		2.032	0.64%		0.36%	0.13%		0.06%
Windows .4/.3 (vinyl)	7.826	13.701	11.079	3.13%	3.45%	1.97%	0.66%	1.24%	0.35%
Windows .4/.3 (vinyl)	1.795	3.132	2.689	0.72%	0.79%	0.48%	0.15%	0.28%	0.08%
Windows .65/.4 (alum)	2.259	3.857	3.261	0.90%	0.97%	0.58%	0.19%	0.35%	0.10%
Windows .65/.4 (alum)	0.288	0.494	0.451	0.12%	0.12%	0.08%	0.02%	0.04%	0.01%
Heat Pump Water Heater	15.091	43.821	198.971	6.04%	11.04%	35.36%	1.26%	3.96%	6.21%
Early Replace. 15 SEER A/C	0.599		0.806	0.24%		0.14%	0.05%		0.03%
Early Replace. 15 SEER A/C	0.071		0.123	0.03%		0.02%	0.01%		0.00%
Early Replace. 15 SEER HP to HP	8.726	1.878	12.362	3.49%	0.47%	2.20%	0.73%	0.17%	0.39%

Early Replace. 15 SEER HP to HP	0.392	0.064	0.687	0.16%	0.02%	0.12%	0.03%	0.01%	0.02%
Early Replace. 15 SEER Strip to HP	7.479	17.724	17.038	2.99%	4.46%	3.03%	0.63%	1.60%	0.53%
Early Replace. 15 SEER Strip to HP	0.164	0.295	0.334	0.07%	0.07%	0.06%	0.01%	0.03%	0.01%
Early Replace. 16 SEER A/C	0.698		0.942	0.28%		0.17%	0.06%		0.03%
Early Replace. 16 SEER A/C	0.083		0.144	0.03%		0.03%	0.01%		0.00%
Early Replace. 16 SEER HP to HP	5.118	1.241	6.935	2.05%	0.31%	1.23%	0.43%	0.11%	0.22%
Early Replace. 16 SEER HP to HP	0.083	0.015	0.146	0.03%	0.00%	0.03%	0.01%	0.00%	0.00%
Early Replace. 16 SEER Strip to HP	5.118	10.819	11.143	2.05%	2.72%	1.98%	0.43%	0.98%	0.35%
Early Replace. 16 SEER Strip to HP	0.083	0.134	0.167	0.03%	0.03%	0.03%	0.01%	0.01%	0.01%
Early Replace. 19+ SEER A/C	0.319		0.435	0.13%		0.08%	0.03%		0.01%
Early Replace. 19+ SEER A/C	0.076		0.133	0.03%		0.02%	0.01%		0.00%
Early Replace. 19+ SEER HP to HP	1.274	0.273	1.826	0.51%	0.07%	0.32%	0.11%	0.02%	0.06%
Early Replace. 19+ SEER HP to HP	0.152	0.025	0.270	0.06%	0.01%	0.05%	0.01%	0.00%	0.01%
Early Replace. 19+ SEER Strip to HP	0.637	1.053	1.280	0.25%	0.27%	0.23%	0.05%	0.10%	0.04%
Early Replace. 19+ SEER Strip to HP	0.152	0.190	0.299	0.06%	0.05%	0.05%	0.01%	0.02%	0.01%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Component Measure Name	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Home Advantage (RNC)									
15 SEER HP	2.060	0.472	3.88	6.54%	1.26%	5.00%	0.17%	0.04%	0.12%
15 SEER HP	0.396	0.091	0.74	1.26%	0.24%	0.96%	0.03%	0.01%	0.02%
16 SEER HP	6.155	1.665	11.78	19.55%	4.44%	15.19%	0.52%	0.15%	0.37%
16 SEER HP	1.970	0.533	3.77	6.25%	1.42%	4.86%	0.16%	0.05%	0.12%
19+ SEER HP	1.126	0.231	2.13	3.58%	0.62%	2.74%	0.09%	0.02%	0.07%
19+ SEER HP	0.360	0.074	0.68	1.14%	0.20%	0.88%	0.03%	0.01%	0.02%
Seal Ducts	1.633	6.941	3.40	5.19%	18.51%	4.38%	0.14%	0.63%	0.11%
Seal Ducts	0.413	1.754	0.86	1.31%	4.68%	1.11%	0.03%	0.16%	0.03%
Energy Star - 2 HA measures installed	1.696	1.783	2.97	5.39%	4.76%	3.83%	0.14%	0.16%	0.09%
Energy Star - 2 HA measures installed	0.447	0.469	0.79	1.42%	1.25%	1.02%	0.04%	0.04%	0.02%
Geothermal Heat Pumps	0.067	0.051	0.15	0.21%	0.14%	0.19%	0.01%	0.00%	0.00%
HVAC Commissioning	0.498	0.268	0.74	1.58%	0.71%	0.96%	0.04%	0.02%	0.02%
HVAC Commissioning	0.062	0.034	0.09	0.20%	0.09%	0.12%	0.01%	0.00%	0.00%
HVAC ACCA Quality Installation	9.653	11.653	15.43	30.66%	31.08%	19.90%	0.81%	1.05%	0.48%
HVAC ACCA Quality Installation	1.717	2.073	2.75	5.45%	5.53%	3.54%	0.14%	0.19%	0.09%
Insulation - Advanced Wall	0.172	1.134	0.33	0.55%	3.02%	0.42%	0.01%	0.10%	0.01%
Multi-Family Heat Pump Installation - incentive covers incremental costs from straight cool to HP		1.107	0.78		2.95%	1.01%		0.10%	0.02%
Code Plus 20 - > 20% of current FI Energy Code, aligns with \$2,000 Federal Tax Credit - 3 HA measures installed	0.341	0.401	0.82	1.08%	1.07%	1.06%	0.03%	0.04%	0.03%
Windows .4/3	0.720	1.234	1.33	2.29%	3.29%	1.71%	0.06%	0.11%	0.04%
Windows .4/3	0.144	0.247	0.27	0.46%	0.66%	0.34%	0.01%	0.02%	0.01%
Heat Pump Water Heater	1.819	5.280	24.03	5.78%	14.08%	30.99%	0.15%	0.48%	0.75%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Component Measure Name	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Neighborhood Energy Saver									
Insulation	5.383	9.613	6.88	13.84%	32.62%	7.65%	0.45%	0.87%	0.21%
Solar Screen/Window film	10.254		18.27	26.35%		20.30%	0.86%		0.57%
HVAC Tune-up	6.537	3.520	9.76	16.80%	11.94%	10.85%	0.55%	0.32%	0.30%
CF23	2.674	-0.362	6.30	6.87%	-1.23%	7.00%	0.22%	-0.03%	0.20%
CF18	5.152	-0.692	12.07	13.24%	-2.35%	13.42%	0.43%	-0.06%	0.38%
CF15	1.253	-0.170	2.95	3.22%	-0.58%	3.27%	0.10%	-0.02%	0.09%
CF11	0.201	-0.028	0.47	0.52%	-0.09%	0.52%	0.02%	0.00%	0.01%
Water Heater Wrap	0.128	0.213	1.23	0.33%	0.72%	1.36%	0.01%	0.02%	0.04%
Water Heater Temp set	0.170	0.170	1.09	0.44%	0.58%	1.21%	0.01%	0.02%	0.03%
Faucet Aerators		1.496	1.40		5.08%	1.56%		0.14%	0.04%
Low flow Showerhead		5.691	5.47		19.31%	6.08%		0.51%	0.17%
Refrigerator Coil Brush	1.060		7.10	2.72%		7.89%	0.09%		0.22%
Refrigerator Thermometer	0.429		2.91	1.10%		3.24%	0.04%		0.09%
Wall Switch Plate Thermometer	1.653	4.155	7.29	4.25%	14.10%	8.10%	0.14%	0.38%	0.23%
AC Window unit Winter Kit		2.035	0.41		6.90%	0.45%		0.18%	0.01%
Foam Insulation on Pipe Penetrations	0.401	0.642	0.74	1.03%	2.18%	0.82%	0.03%	0.06%	0.02%
Weather Strip	1.460	2.044	2.61	3.75%	6.94%	2.90%	0.12%	0.18%	0.08%
Door Sweep	0.338	0.422	0.57	0.87%	1.43%	0.63%	0.03%	0.04%	0.02%
AC Filters - annual supply	1.811	0.679	2.59	4.65%	2.30%	2.88%	0.15%	0.06%	0.08%
Glass Tape - window repair	0.004	0.006	0.01	0.01%	0.02%	0.01%	0.00%	0.00%	0.00%

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Low Income Weatherization (LIWAP)	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Component Measure Name									
Window Film/ Screen Single Family	0.006		0.18	0.12%		1.59%	0.00%		0.01%
Roof Coating	0.000		1.17	0.01%		10.07%	0.00%		0.04%
Weatherization Reduce Infiltration	0.382	0.916	0.80	7.37%	11.50%	6.83%	0.03%	0.08%	0.02%
Weatherization 2006 Insulation R-19	0.170	0.381	0.25	3.28%	4.78%	2.17%	0.01%	0.03%	0.01%
Weatherization 2006 Insulation R-30	0.242	0.517	0.40	4.67%	6.48%	3.44%	0.02%	0.05%	0.01%
Weatherization Duct Test									
Weatherization 2006 Duct Repair - Ducted System	0.488	0.977	0.33	9.43%	12.26%	2.83%	0.04%	0.09%	0.01%
Weatherization Duct Repair-NonDucted System	0.017		0.01	0.32%		0.05%	0.00%		0.00%
Weatherization 2006 Heat Pump to Heat Pump SEER 14	0.006	0.008	0.01	0.11%	0.10%	0.06%	0.00%	0.00%	0.00%
Weatherization 2006 Heat Pump to Heat Pump SEER 15	0.008	0.008	0.01	0.15%	0.10%	0.08%	0.00%	0.00%	0.00%
Weatherization 2006 Resist Heat to Heat Pump SEER 14	0.638	3.190	1.68	12.32%	40.05%	14.42%	0.05%	0.29%	0.05%
Weatherization 2006 Resist Heat to Heat Pump SEER 15	0.017	0.064	0.04	0.32%	0.80%	0.33%	0.00%	0.01%	0.00%
Weatherization HVAC Tune Up	0.472	0.907	0.59	9.11%	11.39%	5.04%	0.04%	0.08%	0.02%
Weatherization Compact Fluorescent Light Bulb	0.368		0.71	7.11%		6.07%	0.03%		0.02%
Weatherization Refrigerator coil brush	0.003		0.02	0.06%		0.21%	0.00%		0.00%
Weatherization Wrap Water Heater	0.011	0.033	0.18	0.21%	0.41%	1.58%	0.00%	0.00%	0.01%
Weatherization Low Flow Showerhead	0.176	0.211	0.25	3.39%	2.65%	2.18%	0.01%	0.02%	0.01%
Weatherization Faucet Aerator	0.007	0.007	0.01	0.13%	0.09%	0.09%	0.00%	0.00%	0.00%
Energy Star window A/C	0.543		0.76	10.48%		6.57%	0.05%		0.02%
Educate/ Workshops	1.624	0.746	4.23	31.36%	9.37%	36.30%	0.14%	0.07%	0.13%

Residential Educational Tools	Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Component Measure Name	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Free Walk-Through HEC	23.42	23.88	113.88	0.28	0.45	0.40	0.02	0.02	0.04
Mail-in HEC	0.02	0.02	0.05	0.00	0.00	0.00			
Online HEC	3.89	3.97	13.16	0.05	0.08	0.05	0.00	0.00	0.00
Phone Assisted HEC	3.99	4.07	13.51	0.05	0.08	0.05	0.00	0.00	0.00
Kiosk HEC	0.87	0.89	2.94	0.01	0.02	0.01	0.00	0.00	0.00
Trade (events like home shows)	0.13	0.13	0.44	0.00	0.00	0.00	0.00	0.00	0.00
Credit upgrade to Walk-Through from other HEC	0.79	0.80	4.22	0.01	0.02	0.01	0.00	0.00	0.00
Energy Efficiency Kit credit - Free Walk-Through	17.36	6.52	47.67	0.21	0.12	0.17	0.01	0.01	0.01
Energy Efficiency Kit credit - except Free Walk-Throu:	33.31	12.51	91.49	0.40	0.24	0.32	0.03	0.01	0.03

Measure Information - Savings	Savings Associated with Measure			% of Program			% of Commission Authorized Goal		
	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy	Summer Demand	Winter Demand	Annual Energy
Technical Potential Program	(MW)	(MW)	(GWh)	(%)	(%)	(%)	(%)	(%)	(%)
Component Measure Name									
Water heater blanket on old water heaters	3.298	5.990	37.25	0.88%	3.54%	2.30%	0.28%	0.54%	1.16%
Annual maintenance	81.800	44.046	121.75	21.79%	26.05%	7.52%	6.85%	3.98%	3.80%
Install solar window screens	26.859		13.00	7.16%		0.80%	2.25%		0.41%
Replace current HVAC system with high efficiency n	57.688	57.699	182.55	15.37%	34.12%	11.27%	4.83%	5.21%	5.70%
Pool Pump (variable)	19.942	3.988	94.05	5.31%	2.36%	5.81%	1.67%	0.36%	2.93%
CFL discounts thru retailers	81.265		844.07	21.65%		52.10%	6.81%		26.34%
Freezer Recycling	8.023		26.66	2.14%		1.65%	0.67%		0.83%
Refrigerator Recycling	72.208		281.13	19.24%		17.35%	6.05%		8.77%
Air Filters	24.239	57.365	20.21	6.46%	33.92%	1.25%	2.03%	5.18%	0.63%

Measure Information - Total Costs	Measure Costs (Commitment - NPV)				Measure Costs (% of Measure)				Measure Rate Impact					
	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)	
Better Business														
Premium T8, EB 2010-2 (with AC Savings)	820.32			3,417.43	4,237.75	19.36%			80.64%	N/A	N/A	539.2	4218	2637
Occupancy Sensor 2010-2 (per KW connected Lighting)	524.08			1,047.35	1,571.43	33.35%			66.65%	N/A	N/A	75.0	823	464
CMH 19 Ceramic MH (RFL150) (with AC Savings)	370.83			567.30	938.13	39.53%			60.47%	N/A	N/A	37.6	295	212
High Bay T5	381.44			652.42	1,033.86	36.89%			63.11%	N/A	N/A	38.4	426	241
LED Display Lighting	317.78			1,581.75	1,899.53	16.73%			83.27%	N/A	N/A	17.0	189	107
CFL 26w hardware kit	35.35			62.95	98.30	35.96%			64.04%	N/A	N/A	10.6	0	15
Centrifugal Chiller, 0.63 to .60 KW/ton	1,365.93			2,675.59	4,041.52	33.80%			66.20%	N/A	N/A	4.2	156	53
Chiller--rotary/screw .72 to .67 kw/ton	96.82			191.62	288.44	33.57%			66.43%	N/A	N/A	0.4	14	5
Chiller--Air cooled 1.26 to 1.17 kw/ton	85.20			128.24	213.44	39.92%			60.08%	N/A	N/A	0.8	29	10
DX Packaged System, EER=10.6 (20 tons)	106.84			293.32	400.16	26.70%			73.30%	N/A	N/A	1.0	37	13
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	103.95			1,306.51	1,410.46	7.37%			92.63%	N/A	N/A	2.4	90	31
Geothermal Heat Pump EER/COP 14.1/3.3	68.78			1,383.45	1,452.23	4.74%			95.26%	N/A	N/A	1.9	71	24
SEER 13 AC to SEER 14 HP to 2014	1.10			634.55	635.65	0.17%			99.83%	N/A	N/A	6.1	27	24
SEER 13 AC to SEER 15 HP	49.32			1,312.86	1,362.18	3.62%			96.38%	N/A	N/A	1.8	68	23
SEER 13 AC to SEER 17 HP	50.60			1,929.98	1,980.58	2.55%			97.45%	N/A	N/A	2.5	93	31
SEER 13 HP to SEER 14 HP to 2014	8.65			333.61	342.26	2.53%			97.47%	N/A	N/A	1.6	7	6
SEER 13 HP to SEER 15HP	11.42			306.54	317.96	3.59%			96.41%	N/A	N/A	0.5	7	5
SEER 13 HP to SEER 17 HP	35.43			958.32	993.75	3.56%			96.44%	N/A	N/A	1.0	36	12
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	180.87			623.86	804.73	22.48%			77.52%	N/A	N/A	7.8	293	99
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	145.73			539.43	685.15	21.27%			78.73%	N/A	N/A	3.7	137	46
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	29.60			157.15	186.75	15.85%			84.15%	N/A	N/A	0.4	15	5
Demand Control Ventilation (DCV)	513.58			786.89	1,300.47	39.49%			60.51%	N/A	N/A	2.1	79	27
Energy Recovery Ventilation (ERV)	195.13			2,197.29	2,392.42	8.16%			91.84%	N/A	N/A	1.5	57	19
Duct Repair	80.44			113.17	193.62	41.53%			58.45%	N/A	N/A	0.8	31	11
PTAC-HP Coil Cleaning (20 tons) p/ton	165.64			151.94	317.58	52.16%			47.84%	N/A	N/A	3.6	68	24
DX Tune Up	417.30			527.99	945.30	44.15%			55.85%	N/A	N/A	15.4	296	101
DX RTU Re-commissioning	2,166.44			3,449.31	5,615.74	38.58%			61.42%	N/A	N/A	12.6	474	160
Thermal Energy Storage (TES)	3,349.43			7,143.85	10,493.27	31.92%			68.08%	N/A	N/A	25.4	957	324
Window Film (Standard)	173.20			871.23	1,044.42	16.58%			83.42%	N/A	N/A	5.0	204	68
Ceiling Insulation <R11 to R19 to 2014	13.50			32.67	46.17	29.24%			70.76%	N/A	N/A	0.3	1	1
Ceiling insulation <R11 to R30	109.90			586.07	695.96	15.79%			84.21%	N/A	N/A	0.5	20	7
Roof Insulation <R11 to R19 to 2014	195.60			763.05	958.65	20.40%			79.60%	N/A	N/A	4.2	19	16
Cool Roof with Roof Insulation <R11 to R19	563.25			3,606.55	4,169.80	13.51%			86.49%	N/A	N/A	6.9	261	88
Cool Roof - Chiller	575.64			2,236.54	2,812.18	20.47%			79.53%	N/A	N/A	3.4	127	43
Cool Roof - DX	2,733.91			8,451.57	11,185.49	24.44%			75.56%	N/A	N/A	28.1	1058	358
Green Roof	38.14			253.01	291.15	13.10%			86.90%	N/A	N/A	1.0	11	6
Compressed Air Tune Up	267.55			775.93	1,043.48	25.64%			74.36%	N/A	N/A	16.1	498	175
High Efficiency Motors > 200 HP (225HP) p/HP	133.70			553.04	686.75	19.47%			80.53%	N/A	N/A	1.2	44	15
Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	524.58			2,762.56	3,287.14	15.96%			84.04%	N/A	N/A	30.5	1146	388
Premium T8, EB 2010-2 (with reflector)	371.18			205.83	577.01	64.33%			35.67%	N/A	N/A	278.6	3421	1861
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	278.22			9,472.52	9,750.74	2.85%			97.15%	N/A	N/A	62.0	897	455
Vending Mixers (Cooled machines only)	179.64			2,162.45	2,342.09	7.67%			92.33%	N/A	N/A	14.0	526	178
Hotel AC control sensors	875.20			10,478.86	11,354.06	7.71%			92.29%	N/A	N/A	40.0	1502	508
Compressor VSD retrofit (Refrigeration)	394.22			708.72	1,102.93	35.74%			64.26%	N/A	N/A	28.4	1067	361
Oversized air cooled condenser (Refrigeration)	6.50			5.69	12.19	53.34%			46.66%	N/A	N/A	0.7	26	9
EMS - Chiller Optimization	181.45			1,325.59	1,507.04	12.04%			87.96%	N/A	N/A	5.8	218	74
Building Commissioning	33.93			0.62	34.55	98.21%			1.79%	N/A	N/A	1.5	52	18
PTAC to PTAC	137.64			380.35	517.99	26.57%			73.43%	N/A	N/A	4.7	178	60
13-14 SEER A/C	4.15			13.29	17.44	23.80%			76.20%	N/A	N/A	0.0	1	0
15 SEER A/C	4.54			14.87	19.41	23.99%			76.61%	N/A	N/A	0.0	1	0
16 SEER A/C	4.54			14.29	18.82	24.11%			75.89%	N/A	N/A	0.1	2	1
19+ SEER A/C	4.15			49.97	54.12	7.67%			92.33%	N/A	N/A	0.1	3	1
Heat Pump water heater air source (Water heating)	213.11			76.16	289.27	73.67%			26.33%	N/A	N/A	1.3	48	16
Variable Speed Drive Control	11.57			1,468.08	1,479.65	0.78%			99.22%	N/A	N/A	26.1	984	333
Exhaust Hood opt. (Ventilation)	31.49			611.62	643.10	4.89%			95.11%	N/A	N/A	3.5	133	45
VSD for chiller and tower pumps (Cooling)	85.91			714.46	800.37	10.73%			89.27%	N/A	N/A	18.2	686	232
Heat Pipe for AC package	7.10			1,095.56	1,102.67	0.64%			99.36%	N/A	N/A	16.1	601	204
Multiplex Compressor system	4.07			4,941.00	4,945.07	0.08%			99.92%	N/A	N/A	8.9	333	113
Ice Maker	137.14			43.86	181.00	75.77%			24.23%	N/A	N/A	0.6	23	8

Measure Information - Total Costs	Measure Costs (Cumulative NPV)					Measure Costs (% of Measure)				Measure Rate Impact			
	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
Premium TB, EB 2010	90.23			404.03	494.26	18.26%		81.74%	N/A	N/A	24.59	195.4267	129.182721
CMH 39 Ceramic MH (RFL150) 2010	48.98			97.50	146.48	33.44%		66.56%	N/A	N/A	40.07	97.84758	164.557024
High Bay T5 2010	101.27			155.60	256.86	39.42%		60.58%	N/A	N/A	30.22	285.0958	184.236097
LED Display Lighting 2010	113.78			468.08	581.86	19.56%		80.44%	N/A	N/A	21.62	194.7604	129.527061
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	103.92			384.82	488.74	21.26%		78.74%	N/A	N/A	12.62	41.77614	38.852705
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	271.09			480.47	751.56	36.07%		63.93%	N/A	N/A	0.00	121.5867	62.150029
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	15.59			39.74	55.33	28.18%		71.82%	N/A	N/A	2.06	6.81433	6.3374769
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	28.21			55.45	83.66	33.72%		66.28%	N/A	N/A	0.00	11.99871	6.1332329
Chiller--Air cooled 1.17 kw/ton (50 tons) 2010	10.83			15.79	26.62	40.68%		59.32%	N/A	N/A	1.73	5.712782	5.31301
Chiller--Air cooled 1.05 kw/ton (50 tons) 2013	16.26			25.72	41.98	38.73%		61.27%	N/A	N/A	0.00	9.159062	4.6817316
DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	57.61			310.63	368.24	15.64%		84.36%	N/A	N/A	18.26	60.44303	56.213394
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	133.93			613.46	747.39	17.92%		82.08%	N/A	N/A	0.00	73.23724	37.436604
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	17.33			282.29	299.62	5.78%		94.22%	N/A	N/A	10.22	33.83537	31.467638
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	27.12			386.63	413.75	6.56%		93.44%	N/A	N/A	0.00	55.26086	28.246923
Geothermal Heat Pump EER/COP 14.1/3.3 2010	12.38			190.13	202.51	6.11%		93.89%	N/A	N/A	10.75	35.57827	33.088543
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	15.56			286.51	302.07	5.15%		94.85%	N/A	N/A	0.00	59.36876	30.346683
SEER 13 HP to SEER 14 HP 2010	14.29			145.22	159.51	8.96%		91.04%	N/A	N/A	2.36	7.823877	7.2754611
SEER 14.5 HP to SEER 16 HP 2013	17.90			208.84	226.74	7.89%		92.11%	N/A	N/A	0.00	15.19519	7.7668123
SEER 13 HP to SEER 15 HP 2010	7.36			247.29	254.65	2.89%		97.11%	N/A	N/A	3.62	11.99474	11.155369
SEER 14.5 HP to SEER 17 HP 2013	9.21			305.21	314.42	2.93%		97.07%	N/A	N/A	0.00	19.8613	10.1522615
SEER 13 HP to SEER 17 HP 2010	6.63			324.83	331.45	2.00%		98.00%	N/A	N/A	5.38	17.79988	16.5567971
SEER 14.5 HP to SEER 18 HP 2013	9.76			414.40	424.16	2.30%		97.70%	N/A	N/A	0.00	22.70811	11.6080352
PTAC-PTHP 11k EER/COP 10.8-2.95 2010	2.07			162.89	164.96	1.25%		98.75%	N/A	N/A	30.63	101.3542	94.261624
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	12.94			176.42	189.36	6.83%		93.17%	N/A	N/A	0.00	186.7253	95.445658
Demand Control Ventilation (DCV) 2010	11.38			63.55	74.93	15.19%		84.81%	N/A	N/A	1.41	12.68564	8.4366371
Energy Recovery Ventilation (ERV) 2010	9.09			385.72	394.81	2.30%		97.70%	N/A	N/A	2.60	23.37975	15.5489126
Thermal Energy Storage (TES)	8,316.64			19,233.45	27,550.09	30.19%		69.81%	N/A	N/A	106.92	4548.22	1710.25457
Window Film SHGC .40 (Standard) 2010	35.69			161.75	197.44	18.08%		81.92%	N/A	N/A	14.04	46.32754	43.114989
Window Film SHGC .36 (Standard) 2013	45.35			275.21	320.56	14.15%		85.85%	N/A	N/A	0.00	58.70032	30.03686
Roof Insulation R-11 to R-19 2010	5.70			363.36	369.06	1.54%		98.46%	N/A	N/A	5.76	19.07029	17.7358113
Roof Insulation R-13 to R-19 2013	7.11			342.10	349.21	2.04%		97.96%	N/A	N/A	0.00	20.68101	10.572551
Cool Roof with Insulation R11 to R19 2010	1.70			212.77	214.46	0.79%		99.21%	N/A	N/A	6.95	22.97616	21.3632598
Cool Roof with Insulation R15 to R19 2013	2.14			288.48	290.63	0.74%		99.26%	N/A	N/A	0.00	25.82291	13.2156345
Cool Roof - Chiller .60 kw/ton 2010	3.04			232.93	235.97	1.29%		98.71%	N/A	N/A	6.87	22.7153	21.1237399
Cool Roof - Chiller .55 kw/ton 2013	3.79			282.52	286.31	1.32%		98.68%	N/A	N/A	0.00	40.76044	20.8275528
Cool Roof - DX EER 9 2010	5.90			338.75	344.65	1.71%		98.29%	N/A	N/A	20.24	67.03738	62.336923
Cool Roof - DX EER 10 2013	7.38			434.10	441.48	1.67%		98.33%	N/A	N/A	0.00	105.4269	53.884074
Green Roof	0.80			222.25	223.05	0.36%		99.64%	N/A	N/A	1.75	15.78101	10.4961777
High Efficiency Motors > 200 HP (225HP) p/HP	7.59			27.12	34.70	21.86%		78.14%	N/A	N/A	0.47	4.251091	2.82721362
Electronically Commutated Motors (ECM) (750 x .067 HP	42.69			220.92	263.61	16.19%		83.81%	N/A	N/A	7.45	67.13063	44.6456973
Induction Lighting /Cold Cathode	18.67			514.68	533.35	3.50%		96.50%	N/A	N/A	3.10	136.0318	50.4644562
Vending Mizers	56.55			92.39	148.95	37.97%		62.03%	N/A	N/A	3.50	153.5587	56.9664815
Oversized air cooled condenser (Refrigeration)	59.58			12.23	71.80	82.97%		17.03%	N/A	N/A	0.70	32.82042	12.11222508
Building Commissioning	37.54			251.98	289.52	12.97%		87.03%	N/A	N/A	2.21	79.27493	31.4257379
15 SEER A/C	6.35			76.98	83.32	7.62%		92.38%	N/A	N/A	0.14	6.762819	2.49578696
16 SEER A/C	6.35			79.37	85.72	7.40%		92.60%	N/A	N/A	0.20	9.511707	3.51025423
19+ SEER A/C	5.57			232.99	238.56	2.34%		97.66%	N/A	N/A	0.38	17.63467	6.58704011
Variable speed drive control	9.15			1,366.63	1,375.78	0.66%		99.34%	N/A	N/A	15.81	691.265	256.450376
VSD for chiller and tower pumps (Cooling)	14.01			68.19	82.20	17.04%		82.96%	N/A	N/A	3.64	159.2536	59.0810213
Heat Pipe	5.72			544.76	550.48	1.04%		98.96%	N/A	N/A	15.62	685.1288	254.166085
Multiplex Compressor system	0.90			744.52	745.42	0.12%		99.88%	N/A	N/A	2.68	122.3336	45.142741
Ice Maker	0.96			21.24	22.20	4.34%		95.66%	N/A	N/A	0.60	27.22598	10.0462999

Measure Information - Total Costs		Measure Costs (Cumulative NPV)				Measure Costs (Cumulative NPV)				Measure Rate Impact				
Business Energy Saver	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
Window film/sun screen	15.42			134.85	150.26	10.26%			89.74%	N/A	N/A	2.60	38.81	19.86
HVAC tune-up /clean	38.65			338.05	376.70	10.26%			89.74%	N/A	N/A	3.79	32.92	22.16
CF23	7.57			66.19	73.76	10.26%			89.74%	N/A	N/A	2.26	19.59	13.19
CF18	15.52			135.77	151.29	10.26%			89.74%	N/A	N/A	1.67	14.51	9.77
CF15	3.27			28.64	31.92	10.26%			89.74%	N/A	N/A	0.66	5.73	3.86
CF11	1.93			16.85	18.78	10.26%			89.74%	N/A	N/A	0.43	3.70	2.49
WH wrap	1.74			15.24	16.98	10.26%			89.74%	N/A	N/A	0.67	9.99	5.12
WH temp	4.09			35.81	39.91	10.26%			89.74%	N/A	N/A	0.75	11.18	5.73
Aerators	11.07			96.81	107.88	10.26%			89.74%	N/A	N/A	0.68	8.61	4.94
Ref brush	6.28			54.90	61.18	10.26%			89.74%	N/A	N/A	1.50	19.17	11.00
Ref therm	4.20			36.76	40.97	10.26%			89.74%	N/A	N/A	0.46	5.88	3.37
Switch plate thermometer	7.32			64.02	71.34	10.26%			89.74%	N/A	N/A	1.98	25.20	14.46
AC weatherization kit	1.46			12.75	14.21	10.26%			89.74%	N/A	N/A	0.15	1.96	1.12
Foam Insulation	1.14			9.98	11.12	10.26%			89.74%	N/A	N/A	0.42	3.63	2.44
Caulk	4.03			35.25	39.27	10.26%			89.74%	N/A	N/A	0.54	6.86	3.93
Weather stripping	11.81			103.30	115.11	10.26%			89.74%	N/A	N/A	2.90	36.90	21.17
Door sweep	14.31			125.15	139.45	10.26%			89.74%	N/A	N/A	1.34	17.13	9.82
AC filter -- 12	22.17			193.92	216.09	10.26%			89.74%	N/A	N/A	2.38	11.15	8.46
Glass tape	0.33			2.90	3.23	10.26%			89.74%	N/A	N/A	0.17	2.13	1.22
Insulation	15.14			132.47	147.61	10.26%			89.74%	N/A	N/A	1.25	18.67	9.56

Measure Information - Total Costs	Measure Costs (Cumulative NPV)					Percentage of Measure				Measure Pay Impact				
Com Educational Tools	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
CFL 60W to 13-15W (Guest Room)	2,729.65			310.49	3,040.14	89.79%			10.21%	N/A	N/A	116.42	66.65	368.85
Refrigerator Thermometer	1,200.90			183.97	1,384.87	86.72%			13.28%	N/A	N/A	15.89	154.08	98.69
Switch plate thermometer	1,329.92			203.73	1,533.66	86.72%			13.28%	N/A	N/A	61.31	594.43	380.73
Weatherization 2006 Insulation R-19	1,889.89			289.51	2,179.41	86.72%			13.28%	N/A	N/A	120.78	756.14	584.87

Home Energy Improvements	Measure Cost (\$)					Measure Cost (% of Revenue)				Measure Rate Impact				
	Administrative (\$000)	Education, Surveys, Marketing (\$000)	Equipment Installation, O&M (\$000)	Incentives Rebates (\$000)	Total Costs (\$000)	Administrative (%)	Education, Surveys, Marketing (%)	Equipment Installation, O&M (%)	Incentives Rebates (%)	Residential Rate Impact (\$/1200kWh)	% of Total BCCR Rate (%)	1st Year Lost Revenues (\$000)	10th Year Revenues (\$000)	10 Year Avg Lost Revenues (\$000)
15 SEER A/C	327.58			1,100.02	1,427.60	22.95%			77.03%	\$0.00	0.07%	12.24	130.67	67.38
15 SEER A/C	54.61			183.37	237.98	22.95%			77.03%	\$0.00	0.01%	2.01	21.48	11.08
15 SEER HP to HP	8,447.01			37,845.07	46,292.08	18.25%			81.75%	\$0.14	2.17%	352.23	3,533.27	1,834.66
15 SEER HP to HP	240.10			1,075.03	1,315.13	18.26%			81.74%	\$0.00	0.06%	8.98	95.81	49.41
15 SEER Strip to HP	4,567.62			25,524.14	30,091.77	15.18%			84.82%	\$0.09	1.41%	405.23	5,099.34	2,588.12
15 SEER Strip to HP	125.76			703.83	829.59	15.16%			84.84%	\$0.00	0.04%	6.19	65.99	34.06
16 SEER A/C	327.58			1,650.03	1,977.60	16.56%			83.44%	\$0.01	0.02%	17.21	183.66	94.70
16 SEER A/C	54.61			275.06	329.67	16.56%			83.44%	\$0.00	0.02%	2.83	30.21	15.58
16 SEER HP to HP	1,689.43			8,515.28	10,204.71	16.56%			83.44%	\$0.03	0.48%	99.62	999.28	518.87
16 SEER HP to HP	54.61			275.06	329.67	16.56%			83.44%	\$0.00	0.02%	2.88	30.71	15.84
16 SEER Strip to HP	923.15			5,674.90	6,597.65	13.99%			86.01%	\$0.02	0.31%	94.92	1,194.33	606.17
16 SEER Strip to HP	54.61			336.19	390.79	13.97%			86.03%	\$0.00	0.02%	3.52	37.51	19.36
19+ SEER A/C	73.91			496.36	570.27	12.96%			87.04%	\$0.00	0.03%	8.16	87.08	44.90
19+ SEER A/C	24.65			165.57	190.22	12.96%			87.04%	\$0.00	0.01%	2.69	28.71	14.81
19+ SEER HP to HP	295.75			1,986.31	2,282.06	12.96%			87.04%	\$0.01	0.11%	33.71	359.70	185.50
19+ SEER HP to HP	49.39			331.73	381.12	12.96%			87.04%	\$0.00	0.02%	5.43	57.91	29.87
19+ SEER Strip to HP	147.92			1,655.68	1,803.59	8.20%			91.80%	\$0.01	0.08%	29.31	312.41	161.23
19+ SEER Strip to HP	49.39			552.88	602.28	8.20%			91.80%	\$0.00	0.03%	6.16	65.70	33.91
Duct Repair	15,372.25			22,690.78	38,023.03	40.43%			59.57%	\$0.11	1.78%	344.83	5,109.61	2,550.42
Duct Repair	10,025.77			11,081.64	21,107.41	47.50%			52.50%	\$0.06	0.99%	98.92	1,435.78	719.36
Duct Test	26,783.30			5,913.87	32,697.17	81.91%			18.09%	\$0.10	1.53%	0.00	0.00	0.00
Geothermal Heat Pumps	171.19			3,278.62	2,449.81	6.99%			93.01%	\$0.01	0.11%	0.41	33.70	14.17
HVAC Commissioning	943.31			390.80	1,334.11	70.71%			29.29%	\$0.00	0.06%	154.19	577.99	533.46
HVAC Commissioning	65.82			26.92	92.74	70.97%			29.03%	\$0.00	0.00%	2.31	11.46	9.82
HVAC Tune-up	7,950.77			11,672.31	19,623.08	40.52%			59.48%	\$0.06	0.92%	147.81	4,413.50	2,077.43
HVAC Tune-up	3,168.19			4,648.51	7,816.70	40.53%			59.47%	\$0.02	0.37%	14.78	526.48	246.08
HVAC Plenum Seal	344.37			130.35	474.62	72.56%			27.44%	\$0.00	0.02%	0.00	0.00	0.00
HVAC Plenum Seal	26.60			10.82	39.41	72.56%			27.44%	\$0.00	0.00%	0.00	0.00	0.00
HVAC Proper Sizing	1,046.53			591.27	1,637.80	63.90%			36.10%	\$0.00	0.08%	165.70	760.78	588.25
HVAC Proper Sizing	282.78			160.43	443.22	63.80%			36.20%	\$0.00	0.02%	15.53	62.14	48.75
HVAC QI Commission Plenum Seal & Sizing	7,362.48			13,513.21	20,875.69	35.27%			64.73%	\$0.06	0.98%	147.73	4,015.97	1,784.28
HVAC QI Commission Plenum Seal & Sizing	2,671.79			4,902.36	7,574.15	35.28%			64.72%	\$0.02	0.33%	14.77	436.69	193.19
Insulation - Wall (R5 to R10)	2,217.38			12,150.28	14,367.66	15.43%			84.57%	\$0.04	0.67%	34.25	431.82	215.57
Attic Insulation < R15 to R30	741.83			1,521.89	2,263.72	32.77%			67.23%	\$0.01	0.11%	16.23	244.75	110.49
Attic Insulation < R15 to R30	148.51			304.67	453.18	32.77%			67.23%	\$0.00	0.02%	1.52	22.97	10.37
Attic Insulation R19	137.93			254.66	392.59	35.13%			64.87%	\$0.00	0.02%	4.13	62.26	28.10
Attic Insulation R19	148.51			274.20	422.71	35.13%			64.87%	\$0.00	0.02%	2.05	30.96	13.98
Attic Insulation R30	9,588.40			21,016.15	30,604.55	31.33%			68.67%	\$0.09	1.43%	468.37	5,893.24	2,939.90
Attic Insulation R30	399.66			875.27	1,274.93	31.35%			68.65%	\$0.00	0.06%	8.14	112.06	53.20
Reflective Roof	541.51			2,612.85	3,154.37	17.17%			82.83%	\$0.01	0.15%	47.81	347.51	185.62
Reflective Roof	126.10			613.86	739.96	17.04%			82.96%	\$0.00	0.03%	17.93	83.50	48.54
Reflective Roof Coating	71.01			242.88	313.89	22.62%			77.38%	\$0.00	0.01%	0.01	0.08	0.04
Window Film (west only)	70.79			350.58	421.37	16.80%			83.20%	\$0.00	0.02%	3.43	64.82	31.23
Window Film (west only)	17.70			87.65	105.35	16.80%			83.20%	\$0.00	0.00%	0.63	16.73	8.06
Window Film (all but north)	522.96			2,078.91	2,601.87	20.10%			79.90%	\$0.01	0.12%	36.87	535.03	268.19
Window Film (all but north)	237.71			944.95	1,182.66	20.10%			79.90%	\$0.00	0.06%	18.47	268.04	134.36
Windows .4/.3 (vinyl)	1,393.01			4,161.74	5,554.75	25.08%			74.92%	\$0.02	0.26%	113.18	1,296.78	677.15
Windows .4/.3 (vinyl)	327.77			979.23	1,307.00	25.08%			74.92%	\$0.00	0.06%	27.47	314.72	164.34
Windows .65/.4 (alum)	549.15			1,095.00	1,644.14	33.40%			66.60%	\$0.00	0.08%	37.08	379.53	200.49
Windows .65/.4 (alum)	73.22			146.00	219.22	33.40%			66.60%	\$0.00	0.01%	5.13	52.52	27.74
Heat Pump Water Heater	23,617.56			58,835.87	82,453.43	28.64%			71.36%	\$0.25	3.86%	430.73	22,886.76	10,922.85
Early Replace 15 SEER A/C	74.37			224.78	299.15	24.86%			75.14%	\$0.00	0.01%	9.92	105.89	54.60
Early Replace 15 SEER A/C	12.43			37.58	50.01	24.86%			75.14%	\$0.00	0.00%	1.52	16.16	8.35
Early Replace 15 SEER HP to HP	1,083.75			3,027.87	4,111.61	26.36%			73.64%	\$0.01	0.19%	152.07	1,622.90	836.88
Early Replace 15 SEER HP to HP	68.12			190.31	258.43	26.36%			73.64%	\$0.00	0.01%	8.46	90.22	46.53
Early Replace 15 SEER Strip to HP	928.89			3,325.11	4,254.00	21.84%			78.16%	\$0.01	0.20%	209.76	2,236.06	1,153.83
Early Replace 15 SEER Strip to HP	28.45			101.84	130.29	21.84%			78.16%	\$0.00	0.01%	4.12	43.89	22.66
Early Replace 16 SEER A/C	75.47			247.32	322.79	23.38%			76.62%	\$0.00	0.02%	11.45	123.74	63.46
Early Replace 16 SEER A/C	12.65			41.44	54.09	23.38%			76.62%	\$0.00	0.00%	1.75	18.94	9.70
Early Replace 16 SEER HP to HP	553.25			1,701.48	2,254.73	24.54%			75.46%	\$0.01	0.11%	84.21	910.53	466.82
Early Replace 16 SEER HP to HP	12.65			38.89	51.54	24.54%			75.46%	\$0.00	0.00%	1.78	19.23	9.86
Early Replace 16 SEER Strip to HP	553.25			2,043.26	2,596.51	21.31%			78.69%	\$0.01	0.12%	135.41	1,462.41	750.25
Early Replace 16 SEER Strip to HP	12.65			46.71	59.35	21.31%			78.69%	\$0.00	0.00%	2.03	21.94	11.25
Early Replace 19+ SEER A/C	26.72			265.31	292.03	9.15%			90.85%	\$0.00	0.01%	3.77	57.11	28.47
Early Replace 19+ SEER A/C	8.86			87.98	96.84	9.15%			90.85%	\$0.00	0.00%	1.15	17.48	8.72
Early Replace 19+ SEER HP to HP	106.71			1,059.68	1,166.39	9.15%			90.85%	\$0.00	0.05%	15.82	239.71	119.64
Early Replace 19+ SEER HP to HP	17.85			177.24	195.09	9.15%			90.85%	\$0.00	0.01%	2.34	35.44	17.69
Early Replace 19+ SEER Strip to HP	53.40			554.21	607.60	8.79%			91.21%	\$0.00	0.03%	11.09	167.95	83.85
Early Replace 19+ SEER Strip to HP	17.85			185.25	203.09	8.79%			91.21%	\$0.00	0.01%	2.59	39.24	19.60

Res New Construction	Measure Costs (Cumulative NPV)					Measure Cost (% of Measure)				Measure Rate Impact				
	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
15 SEER HP	684.23			3,556.72	4,240.95	16.13%			83.87%	\$0.01	0.20%	65.09	470.8791	337.660989
15 SEER HP	136.88			711.54	848.42	16.13%			83.87%	\$0.00	0.04%	12.50	90.41402	64.832506
16 SEER HP	1,755.78			12,540.06	14,295.84	12.28%			87.72%	\$0.04	0.68%	33.33	1430.813	558.268633
16 SEER HP	585.29			4,180.25	4,765.54	12.28%			87.72%	\$0.01	0.23%	10.67	457.8712	178.647719
19+ SEER HP	182.45			1,895.66	2,078.11	8.78%			91.22%	\$0.01	0.10%	18.26	258.5442	131.169436
19+ SEER HP	60.83			632.02	692.85	8.78%			91.22%	\$0.00	0.03%	5.84	82.73412	41.9701223
Seal Ducts	2,979.72			0.00	2,979.72	100.00%			0.00%	\$0.01	0.14%	20.85	343.6138	170.20032
Seal Ducts	1,779.26			0.00	1,779.26	100.00%			0.00%	\$0.01	0.08%	4.36	86.85366	40.4101569
Energy Star - 2 HA measures installed	201.97			2,623.24	2,825.21	7.15%			92.85%	\$0.01	0.13%	23.52	397.3797	193.319885
Energy Star - 2 HA measures installed	151.49			327.93	479.41	31.60%			68.40%	\$0.00	0.02%	6.28	106.1235	51.6430451
Geothermal Heat Pumps	24.54			509.83	534.37	4.59%			95.41%	\$0.00	0.03%	0.60	9.816116	4.69995336
HVAC Commissioning	130.32			56.52	186.83	69.75%			30.25%	\$0.00	0.01%	58.41	99.30297	97.183842
HVAC Commissioning	54.31			23.55	77.86	69.75%			30.25%	\$0.00	0.00%	6.57	12.4458	12.0298367
HVAC ACCA Quality Installation	2,263.03			4,898.80	7,161.84	31.60%			68.40%	\$0.02	0.34%	32.90	2062.88	940.48784
HVAC ACCA Quality Installation	1,362.21			2,948.63	4,310.84	31.60%			68.40%	\$0.01	0.20%	3.29	366.9737	157.3856338
Insulation - Advanced Wall	74.47			716.70	791.16	9.41%			90.59%	\$0.00	0.04%	2.83	42.61346	20.8263132
Insulation - Advanced Wall neg. load shape	0.00			0.00	0.00					\$0.00	0.00%	-1.33	-20.06444	-9.797969
Multi-Family Heat Pump Installation - incentive covers incremental costs from straight cool to HP	6.50			210.86	217.36	2.99%			97.01%	\$0.00	0.01%	7.57	105.2735	54.0438755
Code Plus 20 -> 20% of current FI Energy Code, aligns with \$2,000 Federal Tax Credit - 3 HA measures installed	38.52			667.24	705.76	5.46%			94.54%	\$0.00	0.03%	8.24	109.7432	57.7741762
Windows /4/3	156.59			1,087.14	1,243.74	12.59%			87.41%	\$0.00	0.06%	11.03	174.0441	83.685499
Windows /4/3	31.32			217.43	248.75	12.59%			87.41%	\$0.00	0.01%	2.21	34.80892	16.7370211
Heat Pump Water Heater	2,230.00			9,652.64	11,882.65	18.77%			81.23%	\$0.04	0.56%	51.69	2757.901	1215.175794

Measure Information - Total Costs	Measure Costs (Cumulative NPV)				Measure Cost % of Measure				Measure Rate Impact					
	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Neighborhood Energy Saver	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
Component Measure Name														
Insulation	2,792.52			6,371.07	9,163.59	30.47%			69.53%	\$0.02	0.35%	11.36	929.07	435.40497
Solar Screen/Window film	5,584.78			15,088.75	20,673.53	27.01%			72.99%	\$0.05	0.79%	30.26	2466.60	1155.282498
HVAC Tune-up	4,467.75			4,694.16	9,161.91	48.76%			51.24%	\$0.02	0.35%	16.13	1101.83	583.931215
CF23	11,499.89			22,567.07	34,066.95	33.76%			66.24%	\$0.08	1.29%	40.10	684.37	385.750796
CF18	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	76.87	1311.90	739.468929
CF15	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	18.76	320.14	180.452493
CF11	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	2.99	51.04	28.7677754
Water Heater Wrap	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	7.81	133.16	75.0708835
Water Heater Temp set	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	6.93	146.83	71.8527911
Faucet Aerators	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	8.94	189.31	92.6813086
Low flow Showerhead	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	34.89	738.90	361.753314
Refrigerator Coil Brush	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	45.22	771.27	434.754349
Refrigerator Thermometer	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	18.56	316.55	178.442495
Wall Switch Plate Thermometer	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	46.42	983.55	481.351514
AC Window unit Winter Kit	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	2.60	48.69	26.0439064
Foam Insulation on Pipe Penetrations	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	4.70	99.49	48.7006563
HVAC Caulking	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	0.38	4.87	3.0504014
Weather Strip	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	16.64	283.87	160.057766
Door Sweep	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	3.61	67.74	36.2256096
AC Filters - annual supply	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	16.50	45.49	36.065684
Glass Tape - window repair	0.00			0.00	0.00	0.00%			0.00%	\$0.00	0.00%	0.05	0.64	0.398514173

Measure Information - Total Costs	Measure Costs (Cumulative NPV)					Measure Cost (% of Measure)				Measure Rate Impact				
	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
Low Income Weatherization														
Window Film/ Screen Single Family	0.00			287.80	287.80	0.00%			100.00%	\$0.001	0.01%	1.04	24.94	10.749
Roof Coating	0.00			683.45	683.45	0.00%			100.00%	\$0.002	0.03%	3.81	158.16	61.300
Weatherization Reduce Infiltration	791.24			692.64	1,483.88	53.32%			46.68%	\$0.004	0.06%	6.36	107.33	51.088
Weatherization 2006 Insulation R-19	0.00			392.96	392.96	0.00%			100.00%	\$0.001	0.02%	0.64	34.16	11.548
Weatherization 2006 Insulation R-30	0.00			579.42	579.42	0.00%			100.00%	\$0.001	0.02%	0.65	54.08	18.215
Weatherization Duct Test	0.00			95.87	95.87	0.00%			100.00%	\$0.000	0.00%	0.00	0.00	0.000
Weatherization 2006 Duct Repair - Ducted System	0.00			320.90	320.90	0.00%			100.00%	\$0.001	0.01%	0.37	44.46	13.572
Weatherization Duct Repair-NonDucted System	0.00			11.40	11.40	0.00%			100.00%	\$0.000	0.00%	0.02	0.78	0.291
Weatherization 2006 Heat Pump to Heat Pump SEER 14	2.01			5.12	7.13	28.18%			71.82%	\$0.000	0.00%	0.09	0.94	0.535
Weatherization 2006 Heat Pump to Heat Pump SEER 15	2.01			5.56	7.57	26.54%			73.46%	\$0.000	0.00%	0.11	1.19	0.677
Weatherization 2006 Resist Heat to Heat Pump SEER 14	246.08			560.07	806.14	30.53%			69.47%	\$0.002	0.03%	2.66	226.59	74.501
Weatherization 2006 Resist Heat to Heat Pump SEER 15	3.83			14.04	17.88	21.44%			78.56%	\$0.000	0.00%	0.26	5.14	2.792
Weatherization HVAC Tune Up	405.78			352.05	757.83	53.55%			46.45%	\$0.002	0.03%	1.93	71.36	29.775
Weatherization Compact Fluorescent Light Bulb	1,237.06			30.24	1,267.29	97.61%			2.39%	\$0.003	0.05%	5.25	77.47	43.314
Weatherization Refrigerator coil brush	31.11			1.86	32.97	94.36%			5.64%	\$0.000	0.00%	0.16	2.69	1.622
Weatherization Wrap Water Heater	246.29			238.06	484.35	50.85%			49.15%	\$0.001	0.02%	0.59	22.40	9.175
Weatherization Heat Pump Water Heater	2.01			7.28	9.29	21.62%			78.38%	\$0.000	0.00%	0.14	1.45	0.824
Weatherization Low Flow Showerhead	353.55			10.12	363.67	97.22%			2.78%	\$0.001	0.01%	1.96	34.23	17.033
Weatherization Faucet Aerator	69.48			0.50	69.98	99.28%			0.72%	\$0.000	0.00%	0.07	1.34	0.640
Energy Star window A/C	579.20			1,345.38	1,924.58	30.09%			69.91%	\$0.005	0.08%	41.26	50.25	57.267
Educate/ Workshops	2,144.29			777.91	2,922.20	73.38%			26.62%	\$0.007	0.12%	15.66	465.08	268.920

Measure Information - Total Costs	Measure Costs (Comminisive NPV)					Measure Cost as % of Measure				Measure Rate Impact				
Res Education	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues	10 Year Avg Lost Revenues
Component Measure Name	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
Free Walk-Through HEC	66,614.24			0.00	66,614.24	100.00%			0.00%	\$0.19	2.94%			
Mail-in HEC	78.71			0.00	78.71	100.00%			0.00%	\$0.00	0.00%	1,756.2	6,735.0	6,223.8
Online HEC	16,027.55			0.00	16,027.55	100.00%			0.00%	\$0.05	0.71%	4.3	0.0	3.5
Phone Assisted HEC	11,930.95			0.00	11,930.95	100.00%			0.00%	\$0.03	0.53%	123.3	909.6	683.6
Kiosk HEC	2,975.15			0.00	2,975.15	100.00%			0.00%	\$0.01	0.13%	126.5	933.4	701.4
Trade (events like home shows)	1,085.89			0.00	1,085.89	100.00%			0.00%	\$0.00	0.05%	0.0	231.5	147.2
Credit upgrade to Walk-Through from other HEC	0.00			0.00	0.00	N/A			N/A	\$0.00	0.00%	5.4	28.4	23.6
Energy Efficiency Kit credit - Free Walk-Through	7,075.15			4,189.75	11,264.90	62.81%			37.19%	\$0.03	0.50%	36.2	295.4	218.7
Energy Efficiency Kit credit - except Free Walk-Through	18,388.22			11,058.98	29,447.20	62.44%			37.56%	\$0.08	1.30%	2,165.3	8,303.9	7,673.6
												2,308.5	18,845.7	13,950.6

Measure Information - Total Costs	Measure Costs (Cumulative NPV)				Measure Cost (% of Measure)				Measure Rate Impact				
	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Total Costs	Administrative	Education, Surveys, Marketing	Equipment Installation, O&M	Incentives Rebates	Residential Rate Impact	% of Total ECCR Rate	1st Year Lost Revenues	10th Year Lost Revenues
Technical Potential	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(%)	(%)	(%)	(\$/1200kWh)	(%)	(\$000)	(\$000)	(\$000)
Component Measure Name													
Water heater blanket on old water heaters	13,904.30			2,304.58	16,208.88	85.78%		14.22%	\$0.04	0.67%	95	4,686	1,640
Annual maintenance	170,743.74			45,531.66	216,275.41	78.95%		21.05%	\$0.57	8.94%	310	3,787	1,686
Install solar window screens	29,250.43			11,818.36	41,068.79	71.22%		28.78%	\$0.11	1.70%	33	1,758	595
Replace current HVAC system with high efficiency	144,662.48			301,380.17	446,042.65	32.43%		67.57%	\$1.18	18.44%	466	24,697	8,354
Pool Pump (variable)	44,499.42			47,139.21	91,638.63	48.56%		51.44%	\$0.24	3.79%	240	12,722	4,304
CFL discounts thru retailers	46,705.18			17,514.44	64,219.62	72.73%		27.27%	\$0.17	2.65%	1,078	109,611	34,316
Freezer Recycling	3,286.43			1,643.22	4,929.65	66.67%		33.33%	\$0.01	0.20%	92	3,607	1,394
Refrigerator Recycling	29,578.75			14,789.38	44,368.13	66.67%		33.33%	\$0.12	1.83%	969	38,028	14,697
Air Filters	57,295.40			7,161.92	64,457.32	88.89%		11.11%	\$0.17	2.66%	52	629	280

Better Business Component Measure Name	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Premium T8, EB 2010-2 (with AC Savings)	36,938.95	19,812.15	1.86	36,938.95	30,538.15	1.21	29,717.83	18,991.83	1.56	10	17	10
Occupancy Sensor 2010-2 (per KW connected Lighting))	5,273.53	4,386.37	1.20	5,273.53	5,338.87	0.99	4,814.80	3,862.29	1.25	11	16	11
CMH 39 Ceramic MH (RFL150) (with AC Savings)	2,032.77	2,346.49	0.87	2,032.77	2,412.19	0.84	2,041.36	1,975.65	1.03	14	>29	12
High Bay T5	3,446.60	2,430.31	1.42	3,446.60	3,582.71	0.96	3,201.27	2,048.87	1.56	12	20	11
LED Display Lighting	1,392.85	1,894.70	0.74	1,392.85	2,879.65	0.48	2,561.87	1,576.91	1.62	17	>29	8
CFL 26w hardwire kit	116.92	191.69	0.61	116.92	199.59	0.59	164.24	156.34	1.05	>29	>29	5
Centrifugal Chiller, 0.63 to .60 KW/ton	1,677.42	3,489.23	0.48	1,677.42	4,990.13	0.34	3,624.20	2,123.30	1.71	29	>29	10
Chiller--rotary/screw .72 to .67 kw/ton	154.84	259.84	0.60	154.84	375.84	0.41	279.02	163.02	1.71	24	>29	10
Chiller--Air cooled 1.26 to 1.17 kw/ton	328.00	260.77	1.26	328.00	388.54	0.84	303.34	175.56	1.73	16	25	11
DX Packaged System, EER=10.6 (20 tons)	344.14	383.61	0.90	344.14	590.42	0.58	483.58	276.77	1.75	18	>29	10
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	654.19	1,113.82	0.59	654.19	1,874.24	0.35	1,770.29	1,009.87	1.75	24	>29	10
Geothermal Heat Pump EER/COP 14.1/3.3	508.92	1,108.34	0.46	508.92	1,818.00	0.28	1,749.22	1,039.56	1.68	>29	>29	10
SEER 13 AC to SEER 14 HP to 2014	290.71	348.98	0.83	290.71	867.58	0.34	866.48	347.88	2.49	15	>29	3
SEER 13 AC to SEER 15 HP	524.11	982.11	0.53	524.11	1,775.04	0.30	1,725.72	932.79	1.85	26	>29	9
SEER 13 AC to SEER 17 HP	785.58	1,416.26	0.55	785.58	2,541.91	0.31	2,491.32	1,365.67	1.82	26	>29	9
SEER 13 HP to SEER 14 HP to 2014	97.33	172.31	0.56	97.33	403.79	0.24	395.14	163.66	2.41	19	>29	2
SEER 13 HP to SEER 15HP	85.78	184.79	0.46	85.78	369.91	0.23	358.49	173.37	2.07	>29	>29	6
SEER 13 HP to SEER 17 HP	381.97	689.26	0.55	381.97	1,211.43	0.32	1,176.00	653.83	1.80	26	>29	9
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	1,385.24	1,291.26	1.07	1,385.24	1,951.54	0.71	1,770.67	1,110.39	1.59	14	>29	11
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	958.48	811.96	1.18	958.48	1,221.58	0.78	1,075.85	666.23	1.61	14	>29	10
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	140.36	157.42	0.89	140.36	265.03	0.53	235.43	127.82	1.84	18	>29	10
Demand Control Ventilation (DCV)	706.44	1,178.85	0.60	706.44	1,706.37	0.41	1,192.79	665.27	1.79	23	>29	10
Energy Recovery Ventilation (ERV)	743.19	1,524.07	0.49	743.19	2,514.42	0.30	2,319.30	1,441.64	1.61	>29	>29	9
Duct Repair	342.11	210.69	1.62	342.11	346.40	0.99	265.96	141.30	1.88	13	20	10
PTAC-HP Coil Cleaning (20 tons) p/ton	235.67	552.20	0.43	235.67	452.51	0.52	286.87	386.55	0.74	>29	>29	>29
DX Tune Up	1,000.47	2,106.62	0.47	1,000.47	1,518.63	0.66	1,101.33	1,689.32	0.65	>29	>29	>29
DX RTU Re-commissioning	3,855.85	5,674.49	0.68	3,855.85	7,468.39	0.52	5,301.96	3,508.05	1.51	>29	>29	10
Thermal Energy Storage (TES) (Positive)	7,821.13	9,660.47	0.81	7,821.13	16,299.79	0.48	12,950.36	6,311.04	2.05	21	>29	10
Thermal Energy Storage (TES) (Negative) NOT USED IN PLAN TOOL	-4,262.18	0.00	N/A	-4,262.18	-5,795.81	0.74	-5,795.81	0.00	N/A	>29	1	>29
Window Film (Standard)	1,150.61	1,220.48	0.94	1,150.61	1,840.62	0.63	1,667.43	1,047.29	1.59	15	>29	10
Ceiling Insulation <R11 to R19 to 2014	18.66	30.97	0.60	18.66	57.45	0.32	43.95	17.47	2.52	18	>29	3
Ceiling insulation <R11 to R30	236.80	501.98	0.47	236.80	817.72	0.29	707.82	392.09	1.81	>29	>29	9
Roof Insulation <R11 to R19 to 2014	274.01	575.30	0.48	274.01	1,117.51	0.25	921.91	379.70	2.43	22	>29	2
Cool Roof with Roof Insulation <R11 to R19	1,854.40	3,390.21	0.55	1,854.40	5,189.01	0.36	4,625.76	2,826.96	1.64	>29	>29	10
Cool Roof - Chiller	880.47	2,253.29	0.39	880.47	3,307.38	0.27	2,731.73	1,677.65	1.63	>29	>29	10
Cool Roof - DX	7,513.10	10,702.31	0.70	7,513.10	15,321.82	0.49	12,587.91	7,968.40	1.58	>29	>29	10
Green Roof	147.87	194.22	0.76	147.87	379.65	0.39	341.51	156.08	2.19	21	>29	6
Compressed Air Tune Up	1,859.31	2,173.66	0.86	1,859.31	2,418.20	0.77	2,150.65	1,906.11	1.13	>29	>29	12
High Efficiency Motors > 200 HP (225HP) p/HP	317.50	566.71	0.56	317.50	906.55	0.35	772.84	433.01	1.78	>29	>29	10
Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	7,937.03	4,771.74	1.66	7,937.03	9,184.70	0.86	8,660.12	4,247.16	2.04	13	23	10

Premium T8, EB 2010-2 (with reflector)	28,885.13	12,408.55	2.33	28,885.13	20,773.46	1.39	20,402.28	12,037.37	1.69	10	16	11
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	5,002.13	7,463.27	0.67	5,002.13	14,916.27	0.34	14,638.05	7,185.04	2.04	20	>29	8
Vending Mizers (Cooled machines only)	1,701.61	3,088.32	0.55	1,701.61	4,399.98	0.39	4,220.34	2,908.68	1.45	>29	>29	10
Hotel AC control sensors	6,032.05	10,878.66	0.55	6,032.05	17,230.11	0.35	16,354.91	10,003.46	1.63	>29	>29	10
Compressor VSD retrofit (Refrigeration)	4,055.93	3,503.82	1.16	4,055.93	5,275.61	0.77	4,881.39	3,109.60	1.57	14	>29	12
Oversized air cooled condenser (Refrigeration)	138.05	69.71	1.98	138.05	152.90	0.90	146.40	63.21	2.32	13	>29	12
EMS - Chiller Optimization	609.28	1,516.98	0.40	609.28	2,358.04	0.26	2,176.58	1,335.53	1.63	>29	>29	10
Building Commissioning	150.97	143.95	1.05	150.97	175.85	0.86	141.92	110.01	1.29	12	>29	11
PTAC to PTAC	1,316.82	812.14	1.62	1,316.82	1,213.20	1.09	1,075.55	674.49	1.59	12	16	11
13-14 SEER A/C	8.26	13.54	0.61	8.26	21.41	0.39	17.25	9.39	1.84	23	>29	9
15 SEER A/C	12.51	16.62	0.75	12.51	26.01	0.48	21.47	12.09	1.78	20	>29	10
16 SEER A/C	17.09	17.65	0.97	17.09	28.10	0.61	23.56	13.11	1.80	17	>29	10
19+ SEER A/C	31.77	40.50	0.78	31.77	71.68	0.44	67.53	36.35	1.86	19	>29	9
Heat Pump water heater air source (Water heating)	284.11	367.03	0.77	284.11	534.52	0.53	321.41	153.92	2.09	19	>29	11
Variable Speed Drive Control	4,095.42	3,472.63	1.18	4,095.42	6,543.75	0.63	6,532.19	3,461.06	1.89	16	>29	11
Exhaust Hood opt. (Ventilation)	795.83	609.56	1.31	795.83	1,327.66	0.60	1,296.18	578.08	2.24	15	>29	10
VSD for chiller and tower pumps (Cooling)	2,854.22	2,240.46	1.27	2,854.22	4,329.67	0.66	4,243.76	2,154.55	1.97	15	>29	11
Heat Pipe for AC package	4,337.64	1,949.84	2.22	4,337.64	4,749.85	0.91	4,742.75	1,942.74	2.44	13	27	10
Multiplex Compressor system	1,622.51	3,689.74	0.44	1,622.51	6,585.41	0.25	6,581.35	3,685.67	1.79	>29	>29	9
Ice Maker	86.50	219.35	0.39	86.50	271.39	0.32	134.25	82.20	1.63	>29	>29	11

Measure Information - Cost Effectiveness	E-TRC Test			E-RIM Test			Participant Test			Payback Period			
	Commercial / Industrial New Construction	Benefits (\$000)	Costs (\$000)	Ratio	Benefits (\$000)	Costs (\$000)	Ratio	Benefits (\$000)	Costs (\$000)	Ratio	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Component Measure Name			b/c										
Premium T8, EB 2010	1,564.85	747.41	2.09	1,564.85	1,737.61	0.90	1,647.38	657.18	2.51	9	21	6	
CMH 39 Ceramic MH (RFL150) 2010	1,143.76	584.54	1.96	1,143.76	1,117.46	1.02	1,068.48	535.56	2.00	6	10	5	
High Bay T5 2010	2,373.91	728.47	3.26	2,373.91	2,047.83	1.16	1,946.56	627.20	3.10	7	17	7	
LED Display Lighting 2010	1,493.93	764.37	1.95	1,493.93	1,656.72	0.90	1,542.93	650.59	2.37	9	17	6	
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	581.20	467.96	1.24	581.20	854.32	0.68	750.40	364.03	2.06	11	22	3	
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	1,458.29	812.10	1.80	1,458.29	1,566.87	0.93	1,295.78	541.01	2.40	12	22	8	
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	94.70	58.08	1.63	94.70	114.96	0.82	99.37	42.48	2.34	9	19	3	
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	144.79	87.75	1.65	144.79	164.12	0.88	135.91	59.54	2.28	13	23	8	
Chiller--Air cooled 1.17 kw/ton (50 tons) 2010	85.18	33.58	2.54	85.18	76.61	1.11	65.78	22.76	2.89	7	17	3	
Chiller--Air cooled 1.05 kw/ton (50 tons) 2013	118.36	49.09	2.41	118.36	103.39	1.14	87.13	32.83	2.65	11	21	8	
DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	737.28	403.54	1.83	737.28	820.25	0.90	762.64	345.93	2.20	7	15	3	
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	767.68	706.22	1.09	767.68	1,164.80	0.66	1,030.87	572.29	1.80	14	>29	8	
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	310.67	290.44	1.07	310.67	552.65	0.56	535.32	273.11	1.96	10	>29	3	
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	472.31	401.21	1.18	472.31	728.70	0.65	701.58	374.09	1.88	14	>29	8	
Geothermal Heat Pump EER/COP 14.1/3.3 2010	267.76	214.82	1.25	267.76	468.58	0.57	456.19	202.43	2.25	9	>29	3	
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	381.52	311.33	1.23	381.52	640.43	0.60	624.87	295.77	2.11	14	>29	7	
SEER 13 HP to SEER 14 HP 2010	108.67	136.11	0.80	108.67	227.97	0.48	136.68	121.82	1.75	15	>29	3	
SEER 14.5 HP to SEER 16 HP 2013	179.78	198.64	0.91	179.78	328.63	0.55	310.73	180.74	1.72	18	>29	7	
SEER 13 HP to SEER 15 HP 2010	166.47	212.17	0.78	166.47	359.61	0.46	352.25	204.81	1.72	15	>29	3	
SEER 14.5 HP to SEER 17 HP 2013	237.80	269.96	0.88	237.80	447.60	0.53	438.39	260.75	1.68	18	>29	7	
SEER 13 HP to SEER 17 HP 2010	246.48	279.73	0.88	246.48	487.23	0.51	480.61	273.10	1.76	14	>29	3	
SEER 14.5 HP to SEER 18 HP 2013	273.24	357.60	0.76	273.24	576.44	0.47	566.67	347.84	1.63	20	>29	7	
PTAC-FTHP 11k EER/COP 10.8-2.95 2010	521.23	291.77	1.79	521.23	737.98	0.71	735.91	314.27	2.34	6	>29	3	
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	765.37	381.91	2.00	765.37	988.35	0.77	975.41	400.26	2.44	9	>29	7	
Demand Control Ventilation (DCV) 2010	109.07	78.47	1.39	109.07	155.52	0.70	144.14	67.09	2.15	11	>29	6	
Energy Recovery Ventilation (ERV) 2010	321.18	330.59	0.97	321.18	543.34	0.59	534.25	321.50	1.66	14	>29	6	
Thermal Energy Storage (TES) (Positive)	38,966.57	28,177.52	1.38	38,966.57	56,501.64	0.69	48,185.01	19,860.88	2.43	15	>29	9	
Thermal Energy Storage (Negative) NOT USED	-20,619.05	0.00	N/A	-20,619.05	-28,182.98	0.73	-28,182.98	0.00	N/A	>29	1	>29	
Window Film SHGC .40 (Standard) 2010	352.10	235.71	1.49	352.10	465.30	0.76	429.61	200.02	2.15	7	>29	3	
Window Film SHGC .36 (Standard) 2013	378.51	331.69	1.14	378.51	576.12	0.66	530.77	286.34	1.85	12	>29	7	
Roof Insulation R-11 to R-19 2010	259.82	307.36	0.85	259.82	535.94	0.48	530.24	301.66	1.76	14	>29	3	
Roof Insulation R-13 to R-19 2013	244.10	316.98	0.77	244.10	487.90	0.50	480.78	309.87	1.55	19	>29	8	
Cool Roof with Insulation R11 to R19 2010	191.92	199.82	0.96	191.92	347.23	0.55	345.53	198.12	1.74	9	>29	3	
Cool Roof with Insulation R15 to R19 2013	189.47	256.88	0.74	189.47	403.07	0.47	400.93	254.73	1.57	16	>29	7	
Cool Roof - Chiller .60 kw/ton 2010	191.74	215.91	0.89	191.74	367.24	0.52	364.20	212.87	1.71	10	>29	3	
Cool Roof - Chiller .55 kw/ton 2013	299.80	274.09	1.09	299.80	463.71	0.65	459.91	270.30	1.70	12	>29	7	
Cool Roof - DX EER 9 2010	574.43	377.80	1.52	574.43	732.04	0.78	726.14	371.91	1.95	7	>29	3	
Cool Roof - DX EER 10 2013	786.57	480.98	1.64	786.57	900.36	0.87	892.98	473.60	1.89	10	17	7	
Green Roof	226.54	188.69	1.20	226.54	354.96	0.64	354.16	187.90	1.88	15	28	6	
High Efficiency Motors > 200 HP (225HP) p/HP	42.29	34.41	1.23	42.29	66.40	0.64	58.82	26.83	2.19	13	>29	6	
Electronically Commutated Motors (ECM) (750 x .067 HP)	538.48	311.11	1.73	538.48	690.09	0.78	647.40	268.42	2.41	10	>29	6	
Induction Lighting /Cold Cathode	708.88	573.84	1.24	708.88	1,247.44	0.57	1,228.77	555.18	2.21	15	>29	9	
Vending Mizers	504.55	378.57	1.33	504.55	761.93	0.66	705.38	322.02	2.19	13	>29	10	

Oversized air cooled condenser (Refrigeration)	176.21	108.14	1.63	176.21	250.73	0.70	191.15	48.57	3.94	13	>29	9
Building Commissioning	246.87	186.31	1.33	246.87	519.65	0.48	482.11	148.77	3.24	11	>29	7
15 SEER A/C	67.22	74.58	0.90	67.22	118.77	0.57	112.42	68.23	1.65	17	>29	9
16 SEER A/C	94.37	80.34	1.17	94.37	135.57	0.70	129.23	73.99	1.75	15	>29	9
19+ SEER A/C	173.68	202.95	0.86	173.68	331.21	0.52	325.63	197.38	1.65	18	>29	9
Variable speed drive control	2,922.88	2,009.04	1.45	2,922.88	5,004.57	0.58	4,995.42	1,999.90	2.50	14	>29	9
VSD for chiller and tower pumps (Cooling)	672.61	278.09	2.42	672.61	918.20	0.73	904.19	264.08	3.42	11	>29	9
Heat Pipe	5,021.92	1,246.70	4.03	5,021.92	4,789.81	1.05	4,784.09	1,240.98	3.86	10	25	9
Multiplex Compressor system	603.67	714.54	0.84	603.67	1,359.42	0.44	1,358.51	713.64	1.90	18	>29	9
Ice Maker	103.12	52.02	1.98	103.12	130.72	0.79	129.76	51.06	2.54	11	>29	9

Measure Information - Cost Effectiveness	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Business Energy Saver Program												
Window film/sun screen	245.99	150.26	1.64	245.99	321.59	0.76	306.18	134.85	2.27	10	>29	7
HVAC tune-up /clean	286.22	376.70	0.76	286.22	523.24	0.55	484.59	338.05	1.43	>29	>29	8
CF23	127.98	73.76	1.74	127.98	160.97	0.80	153.40	66.19	2.32	8	>29	6
CF18	94.23	151.29	0.62	94.23	215.91	0.44	200.38	135.77	1.48	>29	>29	8
CF15	36.24	31.92	1.14	36.24	57.45	0.63	54.17	28.64	1.89	10	>29	6
CF11	22.36	18.78	1.19	22.36	35.27	0.63	33.34	16.85	1.98	10	>29	6
WH wrap	42.77	16.98	2.52	42.77	67.03	0.64	65.29	15.24	4.28	9	>29	5
WH temp	51.85	39.91	1.30	51.85	95.88	0.54	91.79	35.81	2.56	12	>29	7
Aerators	26.08	107.88	0.24	26.08	145.67	0.18	134.61	96.81	1.39	>29	>29	8
Ref brush	116.45	61.18	1.90	116.45	145.30	0.80	139.03	54.90	2.53	9	>29	6
Ref therm	67.62	40.97	1.65	67.62	66.77	1.01	62.57	36.76	1.70	9	13	7
Switch plate thermometer	120.00	71.34	1.68	120.00	181.94	0.66	174.62	64.02	2.73	9	>29	6
AC weatherization kit	6.62	14.21	0.47	6.62	22.80	0.29	21.34	12.75	1.67	>29	>29	7
Foam Insulation	35.55	11.12	3.20	35.55	27.27	1.30	26.13	9.98	2.62	7	10	5
Caulk	50.94	39.27	1.30	50.94	69.37	0.73	65.34	35.25	1.85	10	>29	7
Weather stripping	320.69	115.11	2.79	320.69	277.04	1.16	265.23	103.30	2.57	8	12	6
Door sweep	202.59	139.45	1.45	202.59	214.60	0.94	200.29	125.15	1.60	10	14	8
AC filter -- 12	122.78	216.09	0.57	122.78	265.96	0.46	243.79	193.92	1.26	>29	>29	8
Glass tape	21.05	3.23	6.52	21.05	12.58	1.67	12.25	2.90	4.23	6	10	5
Insulation	238.68	147.61	1.62	238.68	267.56	0.89	252.42	132.47	1.91	12	21	8

Measure Information - Cost Effectiveness	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Commercial Educational Tools												
Component Measure Name												
CFL 60W to 13-15W (Guest Room)	3,632.61	3,577.61	1.02	3,632.61	6,201.74	0.59	2,989.52	365.38	8.18	7	>29	2
Refrigerator Thermometer	2,126.54	1,629.70	1.30	2,126.54	2,486.80	0.86	1,073.60	216.49	4.96	10	13	5
Switch plate thermometer	3,244.90	1,804.79	1.80	3,244.90	5,111.42	0.63	3,546.38	239.75	14.79	8	>29	3
Weatherization 2006 Insulation R-19	3,139.06	2,564.71	1.22	3,139.06	7,069.84	0.44	4,845.83	340.70	14.22	9	>29	3

Measure Information - Cost Effectiveness	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Home Energy Improvement												
Component Measure Name												
15 SEER A/C	1,334.81	2,301.77	0.58	1,334.81	2,179.75	0.61	2,317.76	1,974.19	1.17	>29	>29	16
15 SEER A/C	188.96	383.70	0.49	188.96	361.60	0.52	383.97	329.10	1.17	>29	>29	16
15 SEER HP to HP	36,790.75	55,517.84	0.66	36,790.75	66,686.73	0.55	72,281.67	47,070.83	1.54	21	>29	10
15 SEER HP to HP	867.52	1,577.77	0.55	867.52	1,866.69	0.46	2,015.46	1,337.67	1.51	>29	>29	10
15 SEER Strip to HP	40,437.28	37,155.81	1.09	40,437.28	59,275.90	0.68	69,740.20	32,588.19	2.14	16	>29	10
15 SEER Strip to HP	611.89	1,023.45	0.60	611.89	1,209.83	0.51	1,345.56	897.70	1.50	24	>29	10
16 SEER A/C	1,868.47	2,468.48	0.76	1,868.47	3,034.78	0.62	3,379.97	2,140.90	1.58	18	>29	10
16 SEER A/C	265.33	411.49	0.64	265.33	503.55	0.53	560.24	356.89	1.57	23	>29	10
16 SEER HP to HP	10,326.42	12,054.25	0.86	10,326.42	15,972.66	0.65	17,867.72	10,364.81	1.72	17	>29	10
16 SEER HP to HP	276.27	389.55	0.71	276.27	506.44	0.55	564.18	334.95	1.68	19	>29	10
16 SEER Strip to HP	9,386.72	7,719.55	1.22	9,386.72	13,433.98	0.70	15,978.20	6,796.40	2.35	15	>29	9
16 SEER Strip to HP	301.86	456.84	0.66	301.86	606.92	0.50	689.65	402.23	1.71	22	>29	10
19+ SEER A/C	881.51	1,541.77	0.57	881.51	1,071.54	0.82	1,189.13	1,467.86	0.81	>29	22	>29
19+ SEER A/C	249.37	514.29	0.48	249.37	355.49	0.70	394.32	489.64	0.81	>29	>29	>29
19+ SEER HP to HP	3,732.01	6,169.77	0.60	3,732.01	4,352.79	0.86	4,836.77	5,874.02	0.82	>29	21	>29
19+ SEER HP to HP	519.52	1,030.42	0.50	519.52	714.51	0.73	792.77	981.03	0.81	>29	>29	>29
19+ SEER Strip to HP	2,174.11	3,218.41	0.68	2,174.11	3,603.15	0.60	4,120.40	3,070.49	1.34	22	>29	14
19+ SEER Strip to HP	429.25	1,074.74	0.40	429.25	980.69	0.44	1,107.36	1,025.35	1.08	>29	>29	18
Duct Repair	57,223.90	35,736.67	1.60	57,223.90	67,082.32	0.85	61,728.79	20,364.42	3.03	12	22	8
Duct Repair	15,268.27	16,667.11	0.92	15,268.27	29,284.33	0.52	22,910.04	6,641.34	3.45	17	>29	7
Duct Test	0.00	32,694.54	0.00	0.00	32,697.17	0.00	6,959.39	5,911.24	1.18	N/A	N/A	>29
Geothermal Heat Pumps	487.23	11,596.12	0.04	487.23	2,630.73	0.19	3,533.06	11,424.93	0.31	>29	>29	>29
HVAC Commissioning	6,922.93	1,578.37	4.39	6,922.93	5,588.48	1.24	5,517.33	688.92	8.01	4	13	2
HVAC Commissioning	134.61	109.88	1.23	134.61	172.02	0.78	125.95	47.80	2.63	11	17	5
HVAC Tune-up	43,928.80	21,976.71	2.00	43,928.80	44,190.58	0.99	42,938.71	14,025.94	3.06	11	19	9
HVAC Tune-up	5,233.55	8,756.15	0.60	5,233.55	10,739.85	0.49	8,945.01	5,587.96	1.60	>29	>29	10
HVAC Plenum Seal	0.00	498.02	0.00	0.00	474.62	0.00	153.28	153.65	1.00	N/A	N/A	>29
HVAC Plenum Seal	0.00	41.35	0.00	0.00	39.41	0.00	12.73	12.76	1.00	N/A	N/A	>29
HVAC Proper Sizing	9,248.88	1,279.69	7.23	9,248.88	7,352.69	1.26	7,488.96	233.15	32.12	5	16	2
HVAC Proper Sizing	758.10	345.87	2.19	758.10	913.56	0.83	747.89	63.08	11.86	9	19	2
HVAC QI Commission Plenum Seal & Sizing	51,637.73	13,044.38	3.96	51,637.73	42,848.00	1.21	42,020.23	5,681.91	7.40	9	16	6
HVAC QI Commission Plenum Seal & Sizing	5,622.51	4,733.51	1.19	5,622.51	9,959.80	0.56	8,604.82	2,061.72	4.17	14	>29	7
Insulation - Wall (R5 to R10)	11,008.67	18,116.19	0.61	11,008.67	16,828.11	0.65	17,268.02	15,898.82	1.09	>29	>29	22
Attic Insulation < R15 to R30	3,492.14	2,748.85	1.27	3,492.14	3,850.50	0.91	3,706.13	2,007.02	1.85	16	23	10
Attic Insulation < R15 to R30	356.38	550.29	0.65	356.38	602.13	0.59	538.32	401.79	1.34	23	>29	14
Attic Insulation R19	876.37	443.24	1.98	876.37	796.20	1.10	786.83	305.32	2.58	13	21	10
Attic Insulation R19	479.32	477.24	1.00	479.32	623.48	0.77	565.00	328.73	1.72	18	24	10
Attic Insulation R30	84,893.17	35,546.55	2.39	84,893.17	69,997.06	1.21	72,277.01	25,958.16	2.78	11	20	9
Attic Insulation R30	1,760.71	1,481.29	1.19	1,760.71	2,012.57	0.87	1,920.31	1,081.63	1.78	16	23	10
Reflective Roof	4,006.48	3,657.68	1.10	4,006.48	5,537.08	0.72	5,950.65	3,116.17	1.91	17	27	10
Reflective Roof	977.28	853.87	1.14	977.28	1,331.87	0.73	1,436.80	727.77	1.97	16	26	10
Reflective Roof Coating	-0.08	362.18	0.00	-0.08	314.36	0.00	286.39	291.17	0.98	>29	>29	>29

Window Film (west only)	787.15	491.94	1.60	787.15	785.00	1.00	851.45	421.15	2.02	12	18	10
Window Film (west only)	203.13	122.99	1.65	203.13	199.17	1.02	216.39	105.29	2.06	12	17	10
Window Film (all but north)	5,818.22	3,326.25	1.75	5,818.22	5,650.32	1.03	6,125.81	2,803.30	2.19	12	20	10
Window Film (all but north)	2,914.55	1,511.93	1.93	2,914.55	2,709.89	1.08	2,955.33	1,274.22	2.32	11	20	9
Windows 4/3 (vinyl)	16,914.64	6,374.64	2.65	16,914.64	15,211.24	1.11	18,034.70	4,981.63	3.62	11	24	8
Windows 4/3 (vinyl)	4,058.53	1,499.91	2.71	4,058.53	3,650.53	1.11	4,340.62	1,172.15	3.70	11	24	8
Windows 65/4 (alum)	4,584.27	1,858.86	2.47	4,584.27	4,485.40	1.02	5,176.45	1,309.71	3.95	11	25	8
Windows 65/4 (alum)	630.08	247.85	2.54	630.08	612.39	1.03	709.81	174.63	4.06	11	25	8
Heat Pump Water Heater	104,077.12	99,109.38	1.05	104,077.12	193,314.20	0.54	222,719.83	75,491.82	2.95	14	>29	8
Early Replace. 15 SEER A/C	1,089.92	522.60	2.09	1,089.92	908.65	1.20	1,003.95	448.23	2.24	11	16	10
Early Replace. 15 SEER A/C	144.65	87.36	1.66	144.65	143.06	1.01	157.11	74.92	2.10	12	18	10
Early Replace. 15 SEER HP to HP	16,955.72	7,121.63	2.38	16,955.72	13,454.22	1.26	14,897.50	6,037.88	2.47	10	16	10
Early Replace. 15 SEER HP to HP	833.27	447.62	1.86	833.27	777.79	1.07	854.04	379.50	2.25	11	18	10
Early Replace. 15 SEER Strip to HP	14,807.92	7,559.51	1.96	14,807.92	17,133.11	0.86	19,537.73	6,630.62	2.95	11	24	9
Early Replace. 15 SEER Strip to HP	270.02	231.55	1.17	270.02	383.13	0.70	426.58	203.09	2.10	15	>29	10
Early Replace. 16 SEER A/C	1,270.38	568.68	2.23	1,270.38	1,033.73	1.23	1,153.55	493.21	2.34	11	16	10
Early Replace. 16 SEER A/C	168.78	95.28	1.77	168.78	162.86	1.04	180.73	82.64	2.19	12	18	10
Early Replace. 16 SEER HP to HP	9,756.21	3,946.50	2.47	9,756.21	7,485.79	1.30	8,348.55	3,393.25	2.46	10	16	10
Early Replace. 16 SEER HP to HP	175.57	90.20	1.95	175.57	162.01	1.08	179.80	77.56	2.32	11	18	10
Early Replace. 16 SEER Strip to HP	9,426.63	4,628.11	2.04	9,426.63	11,002.58	0.86	12,602.63	4,074.87	3.09	10	24	9
Early Replace. 16 SEER Strip to HP	128.10	105.78	1.21	128.10	185.46	0.69	207.95	93.14	2.23	15	>29	10
Early Replace. 19+ SEER A/C	578.83	556.83	1.04	578.83	616.57	0.94	705.94	530.12	1.33	15	19	14
Early Replace. 19+ SEER A/C	153.76	184.67	0.83	153.76	196.18	0.78	224.05	175.81	1.27	17	>29	15
Early Replace. 19+ SEER HP to HP	2,469.95	2,224.04	1.11	2,469.95	2,529.25	0.98	2,900.43	2,117.33	1.37	15	19	14
Early Replace. 19+ SEER HP to HP	322.60	371.97	0.87	322.60	396.55	0.81	452.99	354.12	1.28	17	24	14
Early Replace. 19+ SEER Strip to HP	1,001.43	1,160.75	0.86	1,001.43	1,562.80	0.64	1,811.02	1,107.35	1.64	19	>29	12
Early Replace. 19+ SEER Strip to HP	216.78	387.97	0.56	216.78	426.27	0.51	488.75	370.12	1.32	>29	>29	14

Measure Information - Cost Effectiveness	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Residential New Construction												
Component Measure Name												
15 SEER HP	6,219.91	5,486.02	1.13	6,219.91	7,313.51	0.85	6,629.28	4,801.78	1.38	12	19	9
15 SEER HP	1,192.44	1,097.51	1.09	1,192.44	1,438.38	0.83	1,301.49	960.62	1.35	12	20	9
16 SEER HP	16,905.52	15,281.64	1.11	16,905.52	21,814.70	0.77	20,058.92	13,525.86	1.48	17	22	10
16 SEER HP	5,485.25	5,094.16	1.08	5,485.25	7,171.84	0.76	6,586.55	4,508.86	1.46	17	22	10
19+ SEER HP	3,206.01	4,737.30	0.68	3,206.01	3,557.20	0.90	3,374.75	4,554.85	0.74	22	21	>29
19+ SEER HP	1,025.59	1,579.44	0.65	1,025.59	1,166.15	0.88	1,105.32	1,518.61	0.73	22	21	>29
Seal Ducts	5,692.60	3,815.82	1.49	5,692.60	5,268.58	1.08	2,288.87	836.10	2.74	15	21	10
Seal Ducts	1,373.82	2,078.74	0.66	1,373.82	2,345.81	0.59	566.56	299.48	1.89	23	>29	12
Energy Star - 2 HA measures installed	4,253.18	3,601.63	1.18	4,253.18	5,694.17	0.75	5,492.20	3,399.66	1.62	17	28	10
Energy Star - 2 HA measures installed	1,133.83	1,426.44	0.79	1,133.83	1,245.68	0.91	1,094.19	1,274.95	0.86	21	26	21
Geothermal Heat Pumps	137.71	1,676.28	0.08	137.71	599.12	0.23	574.58	1,651.74	0.35	>29	>29	>29
HVAC Commissioning	1,006.42	167.18	6.02	1,006.42	951.83	1.06	821.52	36.87	22.28	3	14	1
HVAC Commissioning	124.31	69.67	1.78	124.31	172.96	0.72	118.65	15.35	7.73	7	>29	1
HVAC ACCA Quality Installation	16,824.38	3,532.33	4.76	16,824.38	18,496.68	0.91	16,233.65	1,269.29	12.79	9	21	5
HVAC ACCA Quality Installation	2,950.42	2,126.10	1.39	2,950.42	6,289.22	0.47	4,927.01	763.89	6.45	14	>29	6
Insulation - Advanced Wall	807.69	977.51	0.83	807.69	1,100.50	0.73	1,026.03	903.04	1.14	22	25	14
Insulation - Advanced Wall neg. load shape	-95.58	0.00	N/A	-95.58	-145.27	0.66	-145.27	0.00	N/A	>29	1	>29
Multi-Family Heat Pump Installation - incentive covers incremental costs from straight cool to HP	919.67	279.82	3.29	919.67	821.85	1.12	815.35	273.32	2.98	8	20	8
Code Plus 20 - > 20% of current FI Energy Code, aligns with \$2,000 Federal Tax Credit - 3 HA measures installed	1,205.12	903.50	1.33	1,205.12	1,524.69	0.79	1,486.17	864.97	1.72	16	28	10
Windows 4/3	2,967.16	1,565.47	1.90	2,967.16	2,497.87	1.19	2,341.28	1,408.88	1.66	15	23	10
Windows 4/3	590.86	313.10	1.89	590.86	499.58	1.18	468.26	281.78	1.66	15	23	10
Heat Pump Water Heater	12,549.57	12,233.02	1.03	12,549.57	24,916.10	0.50	22,686.10	10,003.02	2.27	15	>29	9

Measure Information - Cost Effectiveness	E-TRC Test			E-RJM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RJM (Yrs)	Participant (Yrs)
Neighborhood Energy Saver												
Component Measure Name												
Insulation	14291.64	9163.59	1.56	14291.64	15905.80	0.90	13113.28	6371.07	2.06	13	21	9
Solar Screen/Window film	17583.95	20673.53	0.85	17583.95	32976.44	0.53	27391.66	15088.75	1.82	14	>29	8
HVAC Tune-up	9990.51	9161.91	1.09	9990.51	14211.51	0.70	9743.76	4694.16	2.08	11	>29	8
CF23	4193.11	34066.95	0.12	4193.11	37384.86	0.11	25884.97	22567.07	1.15	>29	>29	10
CF18	8015.08	0.00	N/A	8015.08	6360.28	1.26	6360.28	0.00	N/A	1	12	1
CF15	2108.04	0.00	N/A	2108.04	1552.10	1.36	1552.10	0.00	N/A	1	12	1
CF11	335.24	0.00	N/A	335.24	247.44	1.35	247.44	0.00	N/A	1	12	1
Water Heater Wrap	513.64	0.00	N/A	513.64	645.68	0.80	645.68	0.00	N/A	1	>29	1
Water Heater Temp set	621.62	0.00	N/A	621.62	744.94	0.83	744.94	0.00	N/A	1	>29	1
Faucet Atrators	1195.46	0.00	N/A	1195.46	1255.87	0.95	1255.87	0.00	N/A	1	23	1
Low flow Showerhead	3284.58	0.00	N/A	3284.58	3749.61	0.88	3749.61	0.00	N/A	1	>29	1
Refrigerator Coil Brush	3180.61	0.00	N/A	3180.61	3739.45	0.85	3739.45	0.00	N/A	1	>29	1
Refrigerator Thermometer	1324.62	0.00	N/A	1324.62	1534.80	0.86	1534.80	0.00	N/A	1	>29	1
Wall Switch Plate Thermometer	5122.42	0.00	N/A	5122.42	4990.29	1.03	4990.29	0.00	N/A	1	18	1
AC Window unit Winter Kit	276.01	0.00	N/A	276.01	237.51	1.16	237.51	0.00	N/A	1	14	1
Foam Insulation on Pipe Penetrations	951.19	0.00	N/A	951.19	660.01	1.44	660.01	0.00	N/A	1	17	1
HVAC Caulking	27.10	0.00	N/A	27.10	23.64	1.15	23.64	0.00	N/A	1	12	1
Weather Strip	1836.09	0.00	N/A	1836.09	1376.61	1.33	1376.61	0.00	N/A	1	12	1
Door Sweep	472.14	0.00	N/A	472.14	330.47	1.43	330.47	0.00	N/A	1	12	1
AC Filters - annual supply	368.50	0.00	N/A	368.50	240.74	1.53	240.74	0.00	N/A	1	8	1
Glass Tape - window repair	3.48	0.00	N/A	3.48	3.10	1.12	3.10	0.00	N/A	2	11	1

Measure Information - Cost Effectiveness	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Low Income Weatherization												
Component Measure Name												
Window Film/ Screen Single Family	176.29	287.80	0.61	176.29	409.42	0.43	409.42	287.80	1.42	>29	>29	10
Roof Coating	2,024.07	683.45	2.96	2,024.07	1,661.20	1.22	1,661.20	683.45	2.43	10	17	9
Weatherization Reduce Infiltration	1,646.86	1,483.88	1.11	1,646.86	2,269.47	0.73	1,478.24	692.64	2.13	16	23	8
Weatherization 2006 Insulation R-19	500.43	392.96	1.27	500.43	619.95	0.81	619.95	392.96	1.58	16	22	10
Weatherization 2006 Insulation R-30	791.58	579.42	1.37	791.58	939.06	0.84	939.06	579.42	1.62	15	22	10
Weatherization Duct Test	0.00	95.87	0.00	0.00	95.87	0.00	95.87	95.87	1.00	>29	>29	>29
Weatherization 2006 Duct Repair - Ducted System	650.97	320.90	2.03	650.97	579.74	1.12	579.74	320.90	1.81	12	20	10
Weatherization Duct Repair-NonDucted System	11.05	11.40	0.97	11.05	16.17	0.68	16.17	11.40	1.42	17	>29	10
Weatherization 2006 Heat Pump to Heat Pump SEER 14	9.71	7.13	1.36	9.71	13.72	0.71	11.71	5.12	2.29	12	>29	7
Weatherization 2006 Heat Pump to Heat Pump SEER 15	12.10	7.57	1.60	12.10	15.92	0.76	13.91	5.56	2.50	12	>29	7
Weatherization 2006 Resist Heat to Heat Pump SEER 14	1,761.85	806.14	2.19	1,761.85	2,149.96	0.82	1,903.88	560.07	3.40	12	24	9
Weatherization 2006 Resist Heat to Heat Pump SEER 15	41.22	17.88	2.31	41.22	53.21	0.77	49.38	14.04	3.52	9	>29	6
Weatherization HVAC Tune Up	476.71	757.83	0.63	476.71	1,044.49	0.46	638.71	352.05	1.81	>29	>29	9
Weatherization Compact Fluorescent Light Bulb	507.62	1,267.29	0.40	507.62	1,639.96	0.31	402.91	30.24	13.33	>29	>29	4
Weatherization Refrigerator coil brush	9.54	32.97	0.29	9.54	46.06	0.21	14.96	1.86	8.04	>29	>29	4
Weatherization Wrap Water Heater	70.45	484.35	0.15	70.45	573.97	0.12	327.68	238.06	1.38	>29	>29	10
Weatherization Heat Pump Water Heater	7.82	9.29	0.84	7.82	18.12	0.43	16.11	7.28	2.21	15	>29	7
Weatherization Low Flow Showerhead	151.39	363.67	0.42	151.39	538.65	0.28	185.11	10.12	18.29	>29	>29	3
Weatherization Faucet Aerator	7.45	69.98	0.11	7.45	78.78	0.09	9.30	0.50	18.47	>29	>29	4
Energy Star window A/C	665.95	1,924.58	0.35	665.95	2,399.51	0.28	1,820.31	1,345.38	1.35	>29	>29	9
Educate/ Workshops	4,769.12	2,922.20	1.63	4,769.12	5,162.35	0.92	3,018.05	777.91	3.88	9	15	6

Residential Education Component Measure Name	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	Benefits (\$000)	Costs (\$000)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Free Walk-Through HEC	46,285.03	78,391.04	0.59	46,285.03	106,938.26	0.43	47,452.94	0.00	N/A	>29	>29	1
Mail-in HEC	20.91	92.62	0.23	20.91	103.04	0.20	28.63	0.00	N/A	>29	>29	1
Online HEC	5,281.14	18,861.08	0.28	5,281.14	20,493.57	0.26	5,255.57	0.00	N/A	>29	>29	1
Phone Assisted HEC	5,418.53	14,040.23	0.39	5,418.53	16,513.52	0.33	5,392.73	0.00	N/A	>29	>29	1
Kiosk HEC	1,172.38	3,501.12	0.33	1,172.38	3,923.96	0.30	1,116.55	0.00	N/A	>29	>29	1
Trade (events like home shows)	178.19	1,277.86	0.14	178.19	1,239.05	0.14	180.24	0.00	N/A	>29	>29	2
Credit upgrade to Walk-Through from other HEC	1,692.58	0.00	N/A	1,692.58	1,427.17	1.19	1,679.48	0.00	N/A	>29	>29	1
Energy Efficiency Kit credit - Free Walk-Through	56,884.61	13,256.43	4.29	56,884.61	60,982.29	0.93	63,437.44	4,189.75	15.14	5	>29	3
Energy Efficiency Kit credit - except Free Walk-Through	107,330.64	34,653.20	3.10	107,330.64	120,488.44	0.89	120,150.62	11,058.98	10.86	6	>29	4

Measure Information - Cost Effectiveness												
Technical Potential	E-TRC Test			E-RIM Test			Participant Test			Payback Period		
	Benefits (\$)	Costs (\$)	Ratio b/c	Benefits (\$)	Costs (\$)	Ratio b/c	Benefits (\$)	Costs (\$)	Ratio b/c	E-TRC (Yrs)	E-RIM (Yrs)	Participant (Yrs)
Water heater blanket on old water heaters	14,305.29	15,440.68	0.93	14,305.29	33,675.56	0.42	19,771.26	1,536.39	12.87	14	>29	6
Annual maintenance	22,191.14	231,452.63	0.10	22,191.14	226,266.54	0.10	55,522.80	60,708.89	0.91	>29	>29	>29
Install solar window screens	13,123.38	49,932.56	0.26	13,123.38	49,056.49	0.27	19,806.05	20,682.13	0.96	>29	>29	16
Replace current HVAC system with high efficiency model	251,493.49	158,224.59	1.59	251,493.49	593,455.46	0.42	448,792.98	13,562.11	33.09	13	>29	3
Pool Pump (variable)	60,604.00	89,918.05	0.67	60,604.00	149,433.44	0.41	104,934.02	45,418.63	2.31	>29	>29	9
CFL discounts thru retailers	324,197.53	67,138.69	4.83	324,197.53	449,971.06	0.72	403,265.88	20,433.51	19.74	8	>29	6
Freezer Recycling	14,512.51	3,286.43	4.42	14,512.51	21,890.15	0.66	18,603.72	0.00	N/A	8	>29	1
Refrigerator Recycling	152,902.44	29,578.75	5.17	152,902.44	223,195.60	0.69	193,616.85	0.00	N/A	8	>29	1
Air Filters	2,958.20	62,070.01	0.05	2,958.20	66,115.73	0.04	8,820.33	4,774.62	1.85	>29	>29	8

Measure Information - Per Customer Costs	EE - Measures Incentives & Duration			DR - Non-Recurring Measure Expenses			DR - Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive / Rebate (Typical)	Administrative	Equipment	O & M	Incentive / Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
Better Business (Retrofit)										
Premium T8, EB 2010-2 (with AC Savings)	28.00	169.00	15	NA	NA	NA	NA	NA	NA	NA
Occupancy Sensor 2010-2 (per KW connected Lighting))	163.00	623.00	10	NA	NA	NA	NA	NA	NA	NA
CMH 39 Ceramic MH (RFL150) (with AC Savings)	70.00	252.00	7	NA	NA	NA	NA	NA	NA	NA
High Bay T5	134.00	436.00	15	NA	NA	NA	NA	NA	NA	NA
LED Display Lighting	971.00	1,007.00	12	NA	NA	NA	NA	NA	NA	NA
CFL 26w hardwire kit	14.00	35.00	5	NA	NA	NA	NA	NA	NA	NA
Centrifugal Chiller, 0.63 to .60 KW/ton	173.00	125.00	20	NA	NA	NA	NA	NA	NA	NA
Chiller--rotary/screw .72 to .67 kw/ton	175.00	135.00	20	NA	NA	NA	NA	NA	NA	NA
Chiller--Air cooled 1.26 to 1.17 kw/ton	117.00	145.00	20	NA	NA	NA	NA	NA	NA	NA
DX Packaged System, EER=10.6 (20 tons)	291.00	249.00	15	NA	NA	NA	NA	NA	NA	NA
Hybrid Desiccant-DX EER 10.6 (Trane CDO)	1,333.00	934.00	15	NA	NA	NA	NA	NA	NA	NA
Geothermal Heat Pump EER/COP 14.1/3.3	2,134.00	1,453.00	15	NA	NA	NA	NA	NA	NA	NA
SEER 13 AC to SEER 14 HP to 2014	690.00	380.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 AC to SEER 15 HP	2,825.00	1,818.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 AC to SEER 17 HP	4,048.00	2,595.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 HP to SEER 14 HP to 2014	512.00	252.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 HP to SEER 15HP	1,701.00	924.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 HP to SEER 17 HP	3,359.00	2,076.00	20	NA	NA	NA	NA	NA	NA	NA
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	257.00	415.00	10	NA	NA	NA	NA	NA	NA	NA
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	223.00	249.00	10	NA	NA	NA	NA	NA	NA	NA
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	563.00	415.00	15	NA	NA	NA	NA	NA	NA	NA
Demand Control Ventilation (DCV)	271.00	208.00	15	NA	NA	NA	NA	NA	NA	NA
Energy Recovery Ventilation (ERV)	2,202.00	1,310.00	15	NA	NA	NA	NA	NA	NA	NA
Duct Repair	229.00	259.00	15	NA	NA	NA	NA	NA	NA	NA
PTAC-HP Coil Cleaning (20 tons) p/ton	44.00	102.00	2	NA	NA	NA	NA	NA	NA	NA
DX Tune Up	36.00	104.00	2	NA	NA	NA	NA	NA	NA	NA
DX RTU Re-commissioning	282.00	259.00	10	NA	NA	NA	NA	NA	NA	NA
Thermal Energy Storage (TES) (Positive)	2,074.00	1,661.00	20	NA	NA	NA	NA	NA	NA	NA
Thermal Energy Storage (TES) (Negative)				NA	NA	NA	NA	NA	NA	NA
Window Film (Standard)	5,340.00	5,812.00	10	NA	NA	NA	NA	NA	NA	NA
Ceiling Insulation <R11 to R19 to 2014	579.00	311.00	20	NA	NA	NA	NA	NA	NA	NA
Ceiling insulation <R11 to R30	3,783.00	2,283.00	20	NA	NA	NA	NA	NA	NA	NA
Roof Insulation <R11 to R19 to 2014	933.00	466.00	20	NA	NA	NA	NA	NA	NA	NA
Cool Roof with Roof Insulation <R11 to R19	4,528.00	3,217.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof - Chiller	2,747.00	1,868.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof - DX	2,186.00	1,868.00	10	NA	NA	NA	NA	NA	NA	NA
Green Roof	9,721.00	6,227.00	30	NA	NA	NA	NA	NA	NA	NA
Compressed Air Tune Up	1,025.00	2,283.00	5	NA	NA	NA	NA	NA	NA	NA
High Efficiency Motors > 200 HP (225HP) p/HP	59.00	42.00	20	NA	NA	NA	NA	NA	NA	NA

Electronically Commutated Motors (ECM) (750 x 067 HP) p/HP	74.00	104.00	15	NA	NA	NA	NA	NA	NA	NA
Premium T8, EB 2010-2 (with reflector)	4.00	232.00	15	NA	NA	NA	NA	NA	NA	NA
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	1,159.00	882.00	15	NA	NA	NA	NA	NA	NA	NA
Vending Mizers (Cooled machines only)	511.00	623.00	10	NA	NA	NA	NA	NA	NA	NA
Hotel AC control sensors	720.00	623.00	15	NA	NA	NA	NA	NA	NA	NA
Compressor VSD retrofit (Refrigeration)	89.00	354.00	50	NA	NA	NA	NA	NA	NA	NA
Oversized air cooled condenser (Refrigeration)	62.00	623.00	16	NA	NA	NA	NA	NA	NA	NA
EMS - Chiller Optimization	227.00	208.00	10	NA	NA	NA	NA	NA	NA	NA
Building Commissioning	4.00	623.00	5	NA	NA	NA	NA	NA	NA	NA
PTAC to PTAC	196.00	316.00	15	NA	NA	NA	NA	NA	NA	NA
13-14 SEER A/C	359.00	234.00	15	NA	NA	NA	NA	NA	NA	NA
15 SEER A/C	370.00	275.00	15	NA	NA	NA	NA	NA	NA	NA
16 SEER A/C	355.00	298.00	15	NA	NA	NA	NA	NA	NA	NA
19+ SEER A/C	1,351.00	905.00	15	NA	NA	NA	NA	NA	NA	NA
Heat Pump water heater air source (Water heating)	34.00	63.00	15	NA	NA	NA	NA	NA	NA	NA
Variable Speed Drive Control	224.00	479.00	15	NA	NA	NA	NA	NA	NA	NA
Exhaust Hood opt. (Ventilation)	3,096.00	2,646.00	15	NA	NA	NA	NA	NA	NA	NA
VSD for chiller and tower pumps (Cooling)	37.00	109.00	15	NA	NA	NA	NA	NA	NA	NA
Heat Pipe for AC package	1,227.00	1,972.00	20	NA	NA	NA	NA	NA	NA	NA
Multiplex Compressor system	5,371.00	3,632.00	14	NA	NA	NA	NA	NA	NA	NA
Ice Maker	226.00	384.00	8	NA	NA	NA	NA	NA	NA	NA

Measure Information - Per Customer Costs	EE - Measures Incentives & Duration			DR - Non-Recurring Measure Expenses			DR - Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
Commercial / Industrial - New Construction										
Component Measure Name	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
Premium T8, EB 2010	73.00	120.00	15	NA	NA	NA	NA	NA	NA	NA
CMH 39 Ceramic MH (RFL150) 2010	15.00	80.00	7	NA	NA	NA	NA	NA	NA	NA
High Bay T5 2010	60.00	245.00	15	NA	NA	NA	NA	NA	NA	NA
LED Display Lighting 2010	404.00	565.00	12	NA	NA	NA	NA	NA	NA	NA
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	22.00	21.00	20	NA	NA	NA	NA	NA	NA	NA
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	51.00	58.00	20	NA	NA	NA	NA	NA	NA	NA
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	22.00	24.00	20	NA	NA	NA	NA	NA	NA	NA
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	59.00	63.00	20	NA	NA	NA	NA	NA	NA	NA
Chiller-Air cooled 1.17 kw/ton (50 tons) 2010	18.00	26.00	20	NA	NA	NA	NA	NA	NA	NA
Chiller-Air cooled 1.05 kw/ton (50 tons) 2013	55.00	70.00	20	NA	NA	NA	NA	NA	NA	NA
DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	37.00	41.00	15	NA	NA	NA	NA	NA	NA	NA
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	137.00	128.00	15	NA	NA	NA	NA	NA	NA	NA
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	159.00	154.00	15	NA	NA	NA	NA	NA	NA	NA
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	411.00	399.00	15	NA	NA	NA	NA	NA	NA	NA
Geothermal Heat Pump EER/COP 14.1/3.3 2010	225.00	239.00	15	NA	NA	NA	NA	NA	NA	NA
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	636.00	659.00	15	NA	NA	NA	NA	NA	NA	NA
SEER 13 HP to SEER 14 HP 2010	149.00	125.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 14.5 HP to SEER 16 HP 2013	403.00	350.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 HP to SEER 15 HP 2010	278.00	231.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 14.5 HP to SEER 17 HP 2013	649.00	556.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 13 HP to SEER 17 HP 2010	406.00	342.00	20	NA	NA	NA	NA	NA	NA	NA
SEER 14.5 HP to SEER 18 HP 2013	978.00	824.00	20	NA	NA	NA	NA	NA	NA	NA
PTAC-PTHP 11k EER/COP 10.8-2.95 2010	35.00	68.00	10	NA	NA	NA	NA	NA	NA	NA
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	72.00	165.00	10	NA	NA	NA	NA	NA	NA	NA
Demand Control Ventilation (DCV) 2010	110.00	117.00	15	NA	NA	NA	NA	NA	NA	NA
Energy Recovery Ventilation (ERV) 2010	347.00	291.00	15	NA	NA	NA	NA	NA	NA	NA
Thermal Energy Storage (TES) (Positive)	1,138.00	1,166.00	20	NA	NA	NA	NA	NA	NA	NA
Thermal Energy Storage (Negative)NOT USED				NA	NA	NA	NA	NA	NA	NA
Window Film SHGC .40 (Standard) 2010	773.00	957.00	10	NA	NA	NA	NA	NA	NA	NA
Window Film SHGC .36 (Standard) 2013	2,447.00	2,555.00	10	NA	NA	NA	NA	NA	NA	NA
Roof Insulation R-11 to R-19 2010	280.00	232.00	20	NA	NA	NA	NA	NA	NA	NA
Roof Insulation R-13 to R-19 2013	499.00	453.00	20	NA	NA	NA	NA	NA	NA	NA
Cool Roof with Insulation R11 to R19 2010	550.00	513.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof with Insulation R15 to R19 2013	1,395.00	1,236.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof - Chiller .60 kw/ton 2010	336.00	308.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof - Chiller .55 kw/ton 2013	772.00	742.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof - DX EER 9 2010	280.00	308.00	10	NA	NA	NA	NA	NA	NA	NA
Cool Roof - DX EER 10 2013	677.00	742.00	10	NA	NA	NA	NA	NA	NA	NA
Green Roof	4,104.00	3,497.00	30	NA	NA	NA	NA	NA	NA	NA
High Efficiency Motors > 200 HP (225HP) p/HP	23.00	23.00	20	NA	NA	NA	NA	NA	NA	NA

Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	76.00	93.00	15	NA	NA	NA	NA	NA	NA	NA
Induction Lighting /Cold Cathode	463.00	495.00	15	NA	NA	NA	NA	NA	NA	NA
Vending Mizers	73.00	251.00	10	NA	NA	NA	NA	NA	NA	NA
Oversized air cooled condenser (Refrigeration)	104.00	408.00	16	NA	NA	NA	NA	NA	NA	NA
Building Commissioning	1,101.00	645.00	5	NA	NA	NA	NA	NA	NA	NA
15 SEER A/C	597.00	525.00	15	NA	NA	NA	NA	NA	NA	NA
16 SEER A/C	615.00	569.00	15	NA	NA	NA	NA	NA	NA	NA
19+ SEER A/C	2,058.00	1,729.00	15	NA	NA	NA	NA	NA	NA	NA
Variable speed drive control	289.00	420.00	15	NA	NA	NA	NA	NA	NA	NA
VSD for chiller and tower pumps (Cooling)	15.00	56.00	15	NA	NA	NA	NA	NA	NA	NA
Heat Pipe	490.00	1,108.00	20	NA	NA	NA	NA	NA	NA	NA
Multiplex Compressor system	2,146.00	2,040.00	14	NA	NA	NA	NA	NA	NA	NA
Ice Maker	90.00	216.00	10	NA	NA	NA	NA	NA	NA	NA

Business Energy Saver Program	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
Component Measure Name										
Window film/sun screen	474.00	474.00	10	NA	NA	NA	NA	NA	NA	NA
HVAC tune-up /clean	416.00	416.00	8	NA	NA	NA	NA	NA	NA	NA
CF23	81.00	81.00	5	NA	NA	NA	NA	NA	NA	NA
CF18	167.00	167.00	5	NA	NA	NA	NA	NA	NA	NA
CF15	71.00	71.00	5	NA	NA	NA	NA	NA	NA	NA
CF11	41.00	41.00	5	NA	NA	NA	NA	NA	NA	NA
WH wrap	94.00	94.00	12	NA	NA	NA	NA	NA	NA	NA
WH temp	44.00	44.00	12	NA	NA	NA	NA	NA	NA	NA
Aerators	60.00	60.00	8	NA	NA	NA	NA	NA	NA	NA
Ref brush	75.00	75.00	8	NA	NA	NA	NA	NA	NA	NA
Ref therm	50.00	50.00	8	NA	NA	NA	NA	NA	NA	NA
Switch plate thermometer	79.00	79.00	8	NA	NA	NA	NA	NA	NA	NA
AC weatherization kit	63.00	63.00	8	NA	NA	NA	NA	NA	NA	NA
Foam Insulation	49.00	49.00	8	NA	NA	NA	NA	NA	NA	NA
Caulk	43.00	43.00	5	NA	NA	NA	NA	NA	NA	NA
Weather stripping	61.00	61.00	8	NA	NA	NA	NA	NA	NA	NA
Door sweep	77.00	77.00	8	NA	NA	NA	NA	NA	NA	NA
AC filter - 12	239.00	239.00	2	NA	NA	NA	NA	NA	NA	NA
Glass tape	36.00	36.00	8	NA	NA	NA	NA	NA	NA	NA
Insulation	815.00	815.00	18	NA	NA	NA	NA	NA	NA	NA

Commercial Education	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
CFL 60W to 13-15W (Guest Room)	5.00	5.00	6	NA	NA	NA	NA	NA	NA	NA
Refrigerator Thermometer	9.00	9.00	8	NA	NA	NA	NA	NA	NA	NA
Switch plate thermometer	10.00	10.00	8	NA	NA	NA	NA	NA	NA	NA
Weatherization 2006 Insulation R-19	14.00	14.00	5	NA	NA	NA	NA	NA	NA	NA

Measure Information - Per Customer Costs	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
15 SEER A/C	353.00	634.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 SEER A/C	353.00	634.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 SEER HP to HP	470.00	587.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 SEER HP to HP	470.00	587.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 SEER Strip to HP	588.00	751.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 SEER Strip to HP	588.00	751.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER A/C	529.00	688.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER A/C	529.00	688.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER HP to HP	529.00	646.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER HP to HP	529.00	646.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER Strip to HP	647.00	775.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER Strip to HP	647.00	775.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER A/C	706.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER A/C	706.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER HP to HP	706.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER HP to HP	706.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER Strip to HP	1,176.00	2,185.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER Strip to HP	1,176.00	2,185.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Duct Repair	470.00	423.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Duct Repair	353.00	211.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Duct Test	71.00	70.00	5.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Geothermal Heat Pumps	1,411.00	7,050.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Commissioning	19.00	34.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Commissioning	37.00	67.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Tune-up	470.00	564.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Tune-up	470.00	564.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Plenum Seal	118.00	141.00	5.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Plenum Seal	118.00	141.00	5.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Proper Sizing	176.00	70.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Proper Sizing	176.00	70.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC QI Commission Plenum Seal & Sizing	588.00	247.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC QI Commission Plenum Seal & Sizing	588.00	247.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Insulation - Wall (R5 to R10)	941.00	1,232.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Attic Insulation < R15 to R30	353.00	465.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Attic Insulation < R15 to R30	353.00	465.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Attic Insulation R19	317.00	381.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Attic Insulation R19	317.00	381.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Attic Insulation R30	376.00	465.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Attic Insulation R30	376.00	465.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Reflective Roof	823.00	987.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Reflective Roof	823.00	987.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Reflective Roof Coating	588.00	705.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Window Film (west only)	6.00	7.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Window Film (west only)	6.00	7.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Window Film (all but north)	5.00	6.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Window Film (all but north)	5.00	6.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Windows 4/3 (vinyl)	4.00	4.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Windows 4/3 (vinyl)	4.00	4.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Windows 65/4 (alum)	2.00	3.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Windows 65/4 (alum)	2.00	3.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heat Pump Water Heater	706.00	902.00	12.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 15 SEER A/C	317.00	634.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 15 SEER A/C	317.00	634.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 15 SEER HP to HP	293.00	587.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 15 SEER HP to HP	293.00	587.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 15 SEER Strip to HP	376.00	751.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 15 SEER Strip to HP	376.00	751.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 16 SEER A/C	344.00	688.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 16 SEER A/C	344.00	688.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 16 SEER HP to HP	323.00	646.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 16 SEER HP to HP	323.00	646.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 16 SEER Strip to HP	388.00	775.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 16 SEER Strip to HP	388.00	775.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 19+ SEER A/C	1,046.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 19+ SEER A/C	1,046.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 19+ SEER HP to HP	1,046.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 19+ SEER HP to HP	1,046.00	2,091.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 19+ SEER Strip to HP	1,094.00	2,185.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Replace. 19+ SEER Strip to HP	1,094.00	2,185.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Residential New Construction	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)
15 SEER HP	377.00	508.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 SEER HP	377.00	508.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER HP	518.00	559.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 SEER HP	518.00	559.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER HP	753.00	1,810.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19+ SEER HP	753.00	1,810.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Seal Ducts	0.00	61.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Seal Ducts	0.00	37.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Energy Star - 2 HA measures installed	2,825.00	3,661.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Energy Star - 2 HA measures installed	471.00	1,831.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Geothermal Heat Pumps	1,507.00	4,882.00	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Commissioning	16.00	11.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Commissioning	16.00	11.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC ACCA Quality Installation	471.00	122.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC ACCA Quality Installation	471.00	122.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Insulation - Advanced Wall	847.00	1,068.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Insulation - Advanced Wall neg. load shape				N/A	N/A	N/A	N/A	N/A	N/A	N/A
Multi-Family Heat Pump Installation - incentive covers incremental costs from straight cool to HP	282.00	366.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Code Plus 20 - > 20% of current Fi Energy Code, aligns with \$2,000 Federal Tax Credit - 3 HA measures installed	3,767.00	4,882.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Windows .4/.3	4.00	5.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Windows .4/.3	4.00	5.00	40.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heat Pump Water Heater	942.00	976.00	12.00							

Measure Information - Per Customer Costs	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive/Rebate (Typical)	Administrative	Equipment	O & M	Incentive/Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
Insulation	795.00	795.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar Screen/Window film	942.00	942.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Tune-up	366.00	366.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CF23	672.00	672.00	14.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CF18	0.00	0.00	14.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CF15	0.00	0.00	14.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CF11	0.00	0.00	14.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Heater Wrap	0.00	0.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Heater Temp set	0.00	0.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Faucet Aerators	0.00	0.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Low flow Showerhead	0.00	0.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Refrigerator Coil Brush	0.00	0.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Refrigerator Thermometer	0.00	0.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wall Switch Plate Thermometer	0.00	0.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC Window unit Winter Kit	0.00	0.00	8.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Foam Insulation on Pipe Penetrations	0.00	0.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HVAC Caulking			5.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weather Strip	0.00	0.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Door Sweep	0.00	0.00	8.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC Filters - annual supply	0.00	0.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glass Tape - window repair	0.00	0.00	5.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Measure Information - Per Customer Costs	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)
Window Film/ Screen Single Family	372.00	372.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Coating	969.00	969.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Reduce Infiltration	291.00	291.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Insulation R-19	837.00	837.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Insulation R-30	1,186.00	1,186.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Duct Test	116.00	116.00	5.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Duct Repair - Ducted System	473.00	473.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Duct Repair-NonDucted System	473.00	473.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Heat Pump to Heat Pump SEER	742.00	742.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Heat Pump to Heat Pump SEER	806.00	806.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Resist Heat to Heat Pump SEER	936.00	936.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization 2006 Resist Heat to Heat Pump SEER	247.00	247.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization HVAC Tune Up	76.00	76.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Compact Fluorescent Light Bulb	8.00	8.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Refrigerator coil brush	17.00	17.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Wrap Water Heater	359.00	359.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Heat Pump Water Heater			12.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Low Flow Showerhead	9.00	9.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weatherization Faucet Aerator	2.00	2.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Energy Star window A/C	936.00	936.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Educate/ Workshops	107.00	107.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Residential Education	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)	(\$/Customer)
Free Walk-Through HEC	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mail-in HEC	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Online HEC	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phone Assisted HEC	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kiosk HEC	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trade (events like home shows)	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Credit upgrade to Walk-Through from other HEC	0.00	0.00	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Energy Efficiency Kit credit - Free Walk-Through	21.00	21.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Energy Efficiency Kit credit - except Free Walk-Thro	28.00	28.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Res - Technical Potential	Measures Incentives & Duration			Non-Recurring Measure Expenses			Recurring Measure Expenses			
	Incentive / Rebate	Customer Equip Cost	Estimated Life of Measure	Administrative	Equipment	Incentive /Rebate (Typical)	Administrative	Equipment	O & M	Incentive /Rebate (Typical)
Component Measure Name	(\$)	(\$)	Years	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)	(\$ /Customer)
Water heater blanket on old water heaters	30.00	20.00	7.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Annual maintenance	120.00	160.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Install solar window screens	200.00	350.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Replace current HVAC system with high efficiency	2,000.00	90.00	15.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pool Pump (variable)	2,000.00	1,927.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CFL discounts thru retailers	2.00	2.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freezer Recycling	100.00	0.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Refrigerator Recycling	100.00	0.00	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Air Filters	60.00	40.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Avoided Unit Information			
Plant Name	-	AGT P1- SIMPLE CYCLE COMBUSTION TURBINE	
Unit #	-	1	
Technical Information			
Capacity	Summer	(MW)	177.5
	Winter	(MW)	205.3
Technology Type	-	Combustion Turbine	
Primary Fuel	-	Gas	
Commercial In-service Date	-	1-Jan-2013	
Performance Data			
Capacity Factor	(%)	12.53%	
Heat Rate	(BTU/kWh)	10,359	
Financial Data			
Book Life	(Years)	25	
Total Installed Cost	(\$/kW)	939.70	
Fixed O&M Cost	(\$/kW-year)	9.49	
Variable O&M	(\$/MWh)	8.95	
Avoided Fuel			
Avoided Energy Rate	(\$/MWh)	102.90	

Avoided Unit Information			
Plant Name	-	AGT P2- SIMPLE CYCLE COMBUSTION TURBINE	
Unit #	-	2	
Technical Information			
Capacity	Summer	(MW)	177.5
	Winter	(MW)	205.3
Technology Type	-	Combustion Turbine	
Primary Fuel	-	Gas	
Commercial In-service Date	-	1-Jan-2013	
Performance Data			
Capacity Factor	(%)	14.52%	
Heat Rate	(BTU/kWh)	10,359	
Financial Data			
Book Life	(Years)	25	
Total Installed Cost	(\$/kW)	581.81	
Fixed O&M Cost	(\$/kW-year)	3.62	
Variable O&M	(\$/MWh)	8.95	
Avoided Fuel			
Avoided Energy Rate	(\$/MWh)	102.90	

Avoided Unit Information			
Plant Name	-	CC2X1 P1 - COMBINED CYCLE	
Unit #	-	1	
Technical Information			
Capacity	Summer	(MW)	610
	Winter	(MW)	668
Technology Type	-	Combined Cycle	
Primary Fuel	-	Gas	
Commercial In-service Date	-	1-Jan-2014	
Performance Data			
Capacity Factor	(%)	30.77%	
Heat Rate	(BTU/kWh)	7,090	
Financial Data			
Book Life	(Years)	25	
Total Installed Cost	(\$/kW)	1081.70	
Fixed O&M Cost	(\$/kW-year)	7.46	
Variable O&M	(\$/MWh)	3.18	
Avoided Fuel			

Avoided Energy Rate	(\$/MWh)	66.57
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Avoided Unit Information		
Plant Name	-	AGT P2- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	2
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2022
Performance Data		
Capacity Factor	(%)	2.81%
Heat Rate	(BTU/kWh)	10,359
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	581.81
Fixed O&M Cost	(\$/kW-year)	4.42
Variable O&M	(\$/MWh)	10.93
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	120.40

Avoided Unit Information		
Plant Name	-	AGT P2- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	2
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2022
Performance Data		
Capacity Factor	(%)	3.23%
Heat Rate	(BTU/kWh)	10,359
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	581.81
Fixed O&M Cost	(\$/kW-year)	4.42
Variable O&M	(\$/MWh)	10.93
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	120.40

Avoided Unit Information		
Plant Name	-	AGT P1- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	1
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2023
Performance Data		
Capacity Factor	(%)	4.01%
Heat Rate	(BTU/kWh)	10,359
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	939.70

Fixed O&M Cost	(\$/kW-year)	11.86
Variable O&M	(\$/MWh)	11.17
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	123.33

Avoided Unit Information		
Plant Name	-	CC3X1 P1 - COMBINED CYCLE
Unit #	-	1
Technical Information		
Capacity	Summer	(MW) 1214.6
	Winter	(MW) 1347.2
Technology Type	-	Combined Cycle
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2024
Performance Data		
Capacity Factor	(%)	22.48%
Heat Rate	(BTU/kWh)	6,911
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	881.90
Fixed O&M Cost	(\$/kW-year)	5.83
Variable O&M	(\$/MWh)	4.64
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	79.60

Avoided Unit Information		
Plant Name	-	AGT P2- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	2
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2026
Performance Data		
Capacity Factor	(%)	3.89%
Heat Rate	(BTU/kWh)	10,359
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	581.81
Fixed O&M Cost	(\$/kW-year)	4.83
Variable O&M	(\$/MWh)	11.95
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	132.98

Avoided Unit Information		
Plant Name	-	AGT P2- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	2
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2026
Performance Data		
Capacity Factor	(%)	4.38%
Heat Rate	(BTU/kWh)	10,359

Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	581.81
Fixed O&M Cost	(\$/kW-year)	4.83
Variable O&M	(\$/MWh)	11.95
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	132.98

Avoided Unit Information		
Plant Name	-	CC3X1 P2 - COMBINED CYCLE
Unit #	-	2
Technical Information		
Capacity	Summer	(MW) 1214.6
	Winter	(MW) 1347.2
Technology Type	-	Combined Cycle
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2027
Performance Data		
Capacity Factor	(%)	26.81%
Heat Rate	(BTU/kWh)	6,911
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	949.90
Fixed O&M Cost	(\$/kW-year)	2.37
Variable O&M	(\$/MWh)	4.96
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	85.77

Avoided Unit Information		
Plant Name	-	AGT P2- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	2
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2029
Performance Data		
Capacity Factor	(%)	4.84%
Heat Rate	(BTU/kWh)	10,359
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	581.81
Fixed O&M Cost	(\$/kW-year)	5.16
Variable O&M	(\$/MWh)	12.77
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	142.15

Avoided Unit Information		
Plant Name	-	AGT P1- SIMPLE CYCLE COMBUSTION TURBINE
Unit #	-	1
Technical Information		
Capacity	Summer	(MW) 177.5
	Winter	(MW) 205.3
Technology Type	-	Combustion Turbine
Primary Fuel	-	Gas
Commercial In-service Date	-	1-Jan-2030

Performance Data		
Capacity Factor	(%)	5.83%
Heat Rate	(BTU/kWh)	10,359
Financial Data		
Book Life	(Years)	25
Total Installed Cost	(\$/kW)	939.70
Fixed O&M Cost	(\$/kW-year)	13.86
Variable O&M	(\$/MWh)	13.06
Avoided Fuel		
Avoided Energy Rate	(\$/MWh)	145.51

Heat Rates are the Heat Rate at Maximum and an average of Summer/Winter.

Projected Rate Information		
Residential		
Non-Fuel Energy Rate	(cents/kWh)	13.61
Escalation Rate	(%)	1.85%
Commercial		
Non-Fuel Energy Rate	(cents/kWh)	11.7
Escalation Rate	(%)	1.97%
Demand Rate	(\$/kW-mo)	N/A
Escalation Rate	(%)	N/A

Line Loss Values

Residential	
Energy Percentage (%)	6.53
Demand Percentage (%)	6.53
Commercial	
Energy Percentage (%)	5.47
Demand Percentage (%)	5.47

CO2 Price Forecast Estimate
Presented in \$/Tons (\$Nominal)

	<i>EPA Study</i>
	No CCS
Year	
2011	-
2012	-
2013	-
2014	-
2015	\$22
2016	\$24
2017	\$26
2018	\$28
2019	\$30
2020	\$32
2021	\$34
2022	\$37
2023	\$39
2024	\$41
2025	\$44
2026	\$48
2027	\$52
2028	\$56
2029	\$59
2030	\$63
2031	\$69
2032	\$74
2033	\$79
2034	\$85
2035	\$90
2036	\$98
2037	\$106
2038	\$113

	AGT Simple Cycle CT	CC2x1	CC3x1
CO2 lbs/MWh	1213	830	814

PROGRAM	CHANGE	REASON FOR CHANGE
Residential Conservation Programs		
Home Energy Check	The Energy Efficiency Kits portion of this program was moved to the new Residential Education Program, which focuses on low cost and no cost measures.	Puts more emphasis on encouraging customers to perform low cost and no cost activities, to increase energy efficiency.
Home Energy Improvement	Added 2nd Tier Window Specification	Added measure to increase energy efficiency.
	Added 2nd Tier Window Film application	Added new technology to to increase energy efficiency.
	Added Heat Pump Water Heaters	Added new technology to to increase energy efficiency.
	Expanded Contractor directed participation	To allow for greater customer participation through a participating contractor network.
	Added Do-It-Yourself Measures	Added measure to increase customer participation.
	Expanded Eligible Measures for the Multi-Family Market	To allow for greater participation in the Multi-Family Market.
	Added HVAC Tune-up	Added new technology to increase energy efficiency.
	Added HVAC Quality Installation	Added new technology to increase energy efficiency.
	Added Home Energy Loan	Added measure to reach new segment.
	Added 2 additional Tiers to HVAC equipment	Added new technology to increase energy efficiency.
	Added New HVAC Category - Early Replacement	Added new technology to increase energy efficiency.
Residential New Construction	Increased Window Efficiency	To align with building codes.
	Added Heat Pump Water Heaters	Added new technology to increase energy efficiency.

	Added a Comprehensive Incentive for Energy Star Certification	Added incentive to increase participation, to increase energy efficiency.
	Added HVAC Quality Installation	Added measure to increase energy efficiency.
	Added Incentive to Switch to Heat Pumps for Multi-Family Complexes	To promote the installation of heat pumps in lieu of A/C with electric resistant heat, to increase energy efficiency.
	Bundled Multiple Measures for Super Efficient Home Construction	To encourage the construction of super efficient homes that exceed Florida's Energy Code by at least 20%, to increase energy efficiency.
	Added a 3rd Tier to Heat Pumps	Added measure to increase energy efficiency.
Neighborhood Energy Saver	Added HVAC maintenance	Added measure to increase energy efficiency.
	Added Window Film/Solar Screen (E/W/S)	Added measure to increase energy efficiency.
	Added Ceiling Insulation	Added measure to increase energy efficiency.
Low Income Weatherization Assistance	Added Energy Education/Community Outreach workshops	This will provide a direct service to low income customers and help them save on their energy bill.
Commercial/Industrial Conservation Programs		
Business Energy Check	Expanded the audit offerings by adding a phone assisted application for customers.	Puts more emphasis on encouraging the customers to perform low cost and no cost activities, to increase energy efficiency.
Better Business	Added Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	Added measure to increase energy efficiency.
	Added Vending Mizers (Cooled machines only)	Added new technology increase energy efficiency.
	Added AC Savings to CMH 39 Ceramic MH (RFL150)	Added AC savings, to accurately reflect the impact.
	Added Hotel AC control sensors	Added measure to increase energy efficiency.

	Added Compressor VSD retrofit (Refrigeration)	Added measure to increase energy efficiency.
	Added Oversized air cooled condenser (Refrigeration)	Added measure to increase energy efficiency.
	Added EMS - Chiller Optimization	Added measure to increase energy efficiency.
	Added Building Commissioning	Added measure to increase energy efficiency.
	Added Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	Added measure to increase participation.
	Added Geothermal Heat Pump EER/COP 14.1/3.3	Added measure to increase energy efficiency.
	Added SEER 13 AC to SEER 14 HP to 2014	Added measure for < 5 ton units to increase energy efficiency.
	Added SEER 13 AC to SEER 15 HP	Added measure for < 5 ton units to increase energy efficiency.
	Added SEER 13 AC to SEER 17 HP	Added new SEER value to increase energy efficiency.
	Added SEER 13 HP to SEER 17 HP	Added new SEER value to increase energy efficiency.
	Added PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	Added measure for < 5 ton units to increase energy efficiency.
	Added SPV HP EER/COP 8.6/2.7 - 9.46/2.97	Added measure for < 5 ton units to increase energy efficiency.
	Added PTAC to PTAC	Added measure for < 5 ton units to increase energy efficiency.
	Added 13-14 SEER A/C	Added measure for < 5 ton units to increase energy efficiency.
	Added 15 SEER A/C	Added measure for < 5 ton units to increase energy efficiency.
	Added 16 SEER A/C	Added measure for < 5 ton units to increase energy efficiency.
	Added 19+ SEER A/C	Added new SEER value to increase energy efficiency.

	Added Heat Pump water heater air source (Water heating)	Added new technology to increase energy efficiency.
	Added Variable Speed Drive Control	Added new technology to increase energy efficiency.
	Added Exhaust Hood opt. (Ventilation)	Added new technology to increase energy efficiency.
	Added VSD for chiller and tower pumps (Cooling)	Added new technology to increase energy efficiency.
	Added Heat Pipe for AC package	Added new technology to increase energy efficiency.
	Added Multiplex Compressor system	Added new technology to increase energy efficiency.
	Modified PTAC-HP Coil Cleaning to include chemical cleaning	Measure modified to include all acceptable cleaning technologies.
	Added DX Tune Up	Added measure to increase energy efficiency.
	Added DX RTU Re-commissioning	Added measure to increase energy efficiency.
	Combined Cool Roof with Roof Insulation \leq R11 to R19	Combined complimentary measures to increase participation to increase energy efficiency.
	Separated AC types for Cool Roof - Chiller	Separated AC types to more accurately reflect the impact.
	Separated AC types for Cool Roof - DX	Separated AC types to more accurately reflect the impact.
	Added Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	New measure for <1 hp motors added to increase energy efficiency.
	Added Ice Maker	Added measure to increase energy efficiency.
Commercial/Industrial New Construction	Added AC savings to Premium T8, EB 2010	Added AC savings, to accurately reflect the impact.
	Added Induction Lighting /Cold Cathode	Added measure to increase energy efficiency.
	Added Vending Mizers	Added new technology to increase energy efficiency.

	Added AC savings to CMH 39 Ceramic MH (RFL150) 2010	Added AC savings, to accurately reflect the impact.
	Added AC savings to High Bay T5 2010	Added AC savings, to accurately reflect the impact.
	Added AC savings to LED Display Lighting 2010	Added AC savings, to accurately reflect the impact.
	Added Oversized air cooled condenser (Refrigeration)	Added measure to increase energy efficiency.
	Added Building Commissioning	Added measure to increase energy efficiency.
	Added Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	Added measure to increase energy efficiency.
	Modified to reflect code change for Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	Align with code changes.
	Added Geothermal Heat Pump EER/COP 14.1/3.3 2010	Added new technology to increase energy efficiency.
	Modified to reflect code change for Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	Align with code changes.
	Modified to reflect code change for SEER 14.5 HP to SEER 16 HP 2013	Align with code changes.
	Modified to reflect code change for SEER 14.5 HP to SEER 17 HP 2013	Align with code changes.
	Added SEER 13 HP to SEER 17 HP 2010	Added new SEER value to increase energy efficiency.
	Modified to reflect code change for SEER 14.5 HP to SEER 18 HP 2013	Align with code changes.
	Added PTAC-PTHP 11k EER/COP 10.8-2.95 2010	Added measure to increase energy efficiency.
	Modified to reflect code change for Added PTAC-PTHP 11k EER/COP 11.6-3.2 2013	Align with code changes.
	Added 15 SEER A/C	Added measure to increase energy efficiency.
	Added 16 SEER A/C	Added measure to increase energy efficiency.

	Added 19+ SEER A/C	Added new technology to increase energy efficiency.
	Added Variable speed drive control	Added measure to increase energy efficiency.
	Added VSD for chiller and tower pumps (Cooling)	Added measure to increase energy efficiency.
	Added Heat Pipe	Added measure to increase energy efficiency.
	Added Multiplex Compressor system	Added measure to increase energy efficiency.
	Modified to reflect code change for Window Film SHGC .36 (Standard) 2013	Align with code changes.
	Anticipated Code Change for Roof Insulation R-13 to R-19 2013	Align with code changes.
	Combined Cool Roof with Insulation R11 to R19 2010	Combined complimentary measures to increase participation to increase energy efficiency.
	Modified to reflect code change for Cool Roof with Insulation R15 to R19 2013	Align with code changes.
	Modified to reflect code change for Cool Roof - Chiller .55 kw/ton 2013	Align with code changes.
	Modified to reflect code change for Cool Roof - DX EER 10 2013	Align with code changes.
	Added Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	New measure for <1 hp motors added to increase energy efficiency
	Added Ice Maker	Added measure to increase energy efficiency.
Innovation Incentive	An adjustment to the customer's incentive level will be based upon the cost effectiveness test results and not to exceed the lesser of 50% of the total project cost or buy down to a two year	Clarifies incentive upper limits for this program.
	For large, complex engineering projects, PEF reserves the right to stage the total incentive amount	Allows PEF to monitor and verify the technology's energy savings and more accurately calculate the incentive based on actual data instead of engineering projections.

Standby Generation	Tariff change – Added verbage to require minimum 1 year term & 12 month written notification to terminate participation.	To help ensure participants thoroughly plan ahead before deciding to participate and reduce the chances of installing equipment that does not get used.
	Required 75% event participation level per year.	To help ensure participants do participate in a load reduction event when requested to.
Interruptible Service	Changed average billing demand to minimum billing demand of 500kW.	To clarify requirement
Curtailable Service	Corrected the Plan narrative to indicate that it is an “indirect” load control program (not “direct” as previous filed) and replaced the term “control switch” with “notification”.	To correct the description.
	Better defined purchased power notification and charges.	To better explain how the program is implemented.
Demand Side Renewable Portfolio		
Solar Water Heating with Energy Managem	Increased rebate to \$550	Increased rebate to increase participation, to increase energy efficiency.
	Rebate form will include demographic information, including number of occupants per home	Increase the understanding of the typical households participating with solar water heating, which will support enhanced marketing efforts and correlate the anticipated energy savings to our residential end-use metering study.
Other		

Technology Development	Annual budget up to 1% of the previous year's ECCR budget, not to exceed \$2 million annually	Technology focused on energy efficiency, demand response, alternative energy, as well as innovations within the energy field in general have undergone significant development since 1995. With the current international focus in this arena, advances are even more rapid today. In addition, the way in which customers accept these products and the studies associated with how to offer products and services, further complicates the efficient and effective development of programs. In order to keep pace an enhanced focus on research, demonstration, and development is needed.
	25% of the pre-approved project expenditure	Supports the efficient and effective use of funds toward targeted programs.

PROGRAM	Annual Energy (MWh) Reductions at the Meter, Per the 2005-2014 Program Plan (Current)				
	2010	2011	2012	2013	2014
Residential Conservation Programs					
Home Energy Check	5,219	5,301	5,219	5,178	5,096
Home Energy Improvement	12,788	12,788	12,788	12,788	12,788
Residential New Construction	6,934	6,985	7,000	6,971	7,047
Neighborhood Energy Saver	2,596	2,596	2,596	2,596	2,596
Low Income Weatherization Assistance	1,180	1,377	1,573	1,770	1,967
Commercial/Industrial Conservation Programs					
Business Energy Check	587	587	587	587	587
Better Business	11,334	11,334	11,334	11,334	11,334
Commercial/Industrial New Construction	5,169	5,169	5,169	5,169	5,169
Innovation Incentive	N/A	N/A	N/A	N/A	N/A
Standby Generation	85	85	85	85	85
Interruptible Service	-	4	-	-	-
Curtable Service	-	4	-	-	4
Demand Side Renewable Portfolio					
Solar Water Heating with Energy Management	908	908	908	908	908
Other					
Technology Development	N/A	N/A	N/A	N/A	N/A