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4/29/2015

Carlotta Stauffer  
Commission Clerk  
Office of the Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Dear Ms. Stauffer:

Enclosed please find an original and five (5) hardcopies of the Orlando Utilities Commission (OUC) response to Staff's First Data Request Associated with Docket No. 150088-EG. Also enclosed are an original and five (5) copies of a CD with electronic versions of the responses.

If you have any questions regarding the enclosed filings, please do not hesitate to contact me at 913-458-7134.

Very truly yours,  
BLACK & VEATCH CORPORATION



Bradley Kushner  
Director

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## Orlando Utilities Commission (OUC) Responses to the Florida Public Service Commission’s Review of the 2015 DSM Plan

Please see the Orlando Utilities Commission (OUC) responses to the Florida Public Service Commission’s Review of the 2015 DSM Plan.

1. **Please refer to Tables 1-1 and 1-2. The values presented therein do not appear to be a direct sum of the total annual demand and energy reductions of the respective measures contained in the residential or commercial/industrial portfolios. Please explain the variation.**

OUC Response:

The differences noted in this question are due to rounding. Please see below for versions of Tables 1-1 and 1-2 with expanded decimal places.

Table 1-1 – PSC-Established Goals and Projected OUC Reductions for Residential

Calendar Year	Summer (MW)		Winter (MW)		Annual (GWh)	
	PSC Goal	OUC Projected	PSC Goal	OUC Projected	PSC Goal	OUC Projected
2015	0.050000	0.781937	0.040000	0.602043	0.140000	2.315298
2016	0.080000	0.781937	0.080000	0.602043	0.300000	2.315298
2017	0.120000	0.781937	0.120000	0.602043	0.450000	2.315298
2018	0.160000	0.781937	0.160000	0.602043	0.600000	2.315298
2019	0.200000	0.781937	0.210000	0.602043	0.720000	2.315298
2020	0.210000	0.781937	0.210000	0.602043	0.770000	2.315298
2021	0.210000	0.781937	0.220000	0.602043	0.800000	2.315298
2022	0.190000	0.781937	0.200000	0.602043	0.720000	2.315298
2023	0.190000	0.781937	0.180000	0.602043	0.660000	2.315298
2024	0.160000	0.781937	0.160000	0.602043	0.570000	2.315298
Total	1.570000	7.819374	1.580000	6.020433	5.730000	23.152978

Calendar Year	Summer (MW)		Winter (MW)		Annual (GWh)	
	PSC Goal	OUC Projected	PSC Goal	OUC Projected	PSC Goal	OUC Projected
2015	0.200000	0.431147	0.490000	0.229150	0.340000	1.763843
2016	0.280000	0.431147	0.570000	0.229150	0.500000	1.763843
2017	0.300000	0.431147	0.700000	0.229150	0.660000	1.763843
2018	0.360000	0.431147	0.700000	0.229150	0.750000	1.763843
2019	0.370000	0.431147	0.660000	0.229150	0.820000	1.763843
2020	0.390000	0.431147	0.700000	0.229150	0.850000	1.763843
2021	0.400000	0.431147	0.780000	0.229150	0.860000	1.763843
2022	0.370000	0.431147	0.780000	0.229150	0.850000	1.763843
2023	0.390000	0.431147	0.740000	0.229150	0.820000	1.763843
2024	0.360000	0.431147	0.700000	0.229150	0.800000	1.763843
<b>Total</b>	<b>3.420000</b>	<b>4.311471</b>	<b>6.820000</b>	<b>2.291496</b>	<b>7.250000</b>	<b>17.638428</b>

2. **In the company’s DSM plan, on page 1-1, it states commercial winter peak demand falls short due to winter peak demand reductions associated with its commercial/industrial Customer Incentive, Indoor Lighting Rebate, and Indoor Lighting Billed Solution programs. It further states that these plans would increase the winter peak demand reductions; however, the demand and energy reductions associated with these programs have not been quantified due to uncertainty about the proportion of demand and energy reductions that may be associated with current lighting standards.**
  - a. **Please identify what OUC is using as a baseline for lighting.**
  - b. **If using the current standard, please identify what the savings would be from these programs.**
  - c. **With these additional savings, please explain whether OUC meets its winter demand goal for commercial/industrial.**

OUC Response:

For clarification purposes, OUC's DSM Plan states:

Analysis of Tables 1-1 through 1-3 indicates that OUC is projected to exceed its residential numeric conservation goals for summer peak demand (kW), winter peak demand (kW), and annual energy requirements (MWh) for each year during the 2015 through 2024 period. OUC is also projected to exceed its commercial/industrial summer peak demand (kW) and annual energy requirements (MWh). Although OUC's projected commercial/industrial winter peak demand (kW) reductions fall short of its goals, OUC expects that winter peak demand (kW) reductions associated with its commercial/industrial Custom Incentive, Indoor Lighting Rebate, and Indoor Lighting Billed Solution programs will increase the winter peak demand (kW) reductions beyond those reflected in Tables 1-2 and 1-3; however, demand and energy reductions associated with these programs have not been quantified and incorporated into Tables 1-2 and 1-3 due to uncertainty about the proportion of demand and energy reductions that may be associated with current lighting standards. Additionally, OUC intends to evaluate enhancing its commercial/industrial conservation program offerings through programs such as Custom Incentive and potential new programs associated with retro-commissioning and building automation controls, and possibly offering demand response programs.

It is important to note that:

- OUC expects to exceed its annual energy (GWh) and summer peak demand (MW) goals. OUC also expects to exceed its winter peak demand (MW) goals for the Residential customer class. The main driver for winter peak demand is the Residential customer class.
- OUC is a summer peaking utility, not typically a winter peaking utility.
- OUC is projected to fall short of meeting the winter peak demand reduction goals for the Commercial/Industrial customer class. However, cumulative projected peak demand reductions for the Residential and Commercial/Industrial classes are expected to exceed the goals beyond 2022. This is without including other programs OUC plans to continue and well after the next numeric conservation goal setting process will begin.

Responses to parts a through c of this question are presented below.

- a. The baseline wattage used for the lighting programs was 32W.
- b. OUC intends to continue with the Custom Incentive, Indoor Lighting Rebate and Indoor Lighting Billed Solution programs but their future contributions towards meeting goals was not included in the tables; demand and energy reductions associated with these programs will be tabulated in the Annual Conservation Reports that are filed with the Public Service Commission .
- c. OUC is confident the Commercial/Industrial winter peak demand reduction goal will be achieved.

3. Please provide the estimated costs of each program's incentives, administrative & equipment costs, and total costs for the ten-year goals period (nominal and net present value). Also, please provide the percentage of total costs that are used for incentives by program. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Costs (Nominal)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
[Residential]				
Residential Subtotal				
[Comm/Industrial]				
Comm/Ind. Subtotal				
Common Expenses				
<b>Total</b>				

Program Costs (NPV)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
[Residential]				
Residential Subtotal				
[Comm/Industrial]				
Comm/Ind. Subtotal				
Common Expenses				
<b>Total</b>				

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

4. Please provide the estimated costs of each program's administrative & equipment costs, costs for the ten-year goals period (nominal and net present value), broken into the categories detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Administrative & Equipment Costs (Nominal)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
[Residential]									
Residential Total									
[Comm/Ind.]									
Comm/Ind. Total									
Common Expenses									
<b>Total</b>									

Program Administrative & Equipment Costs (NPV)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
[Residential]									
Residential Total									
[Comm/Ind.]									
Comm/Ind. Total									
Common Expenses									
<b>Total</b>									

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

OUC has provided the Total Program Administrative & Equipment costs as the itemization by category as requested was not used in the cost-effectiveness analyses performed as part of OUC’s DSM Plan.

- 5. For each program that includes “Outside Services” costs in the Data Request No.4, please detail what those outside services include.**

OUC Response:

OUC does not utilize “Outside Services” for any of the programs included in the DSM Plan.

- 6. For each program that includes other costs in the data request above, please detail what those other costs include.**

OUC Response:

OUC did not include “Other Costs” for any of the programs included in the DSM Plan.



OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

9. Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Total Resource Cost Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs				Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
<b>Total</b>										

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

10. Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Participants Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs				Net Benefit
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
<b>Total</b>										

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.



11. **Please provide the actual and projected DSM Plan annual funds in nominal dollars for the period 2010 through 2024. As part of this response, please provide an electronic version of the table below in Excel format with your response.**

Year	DSM Plan Expenditures
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

12. **Please provide the actual and projected monthly customer bill associated with the DSM Plan for a residential and commercial/industrial customer with the usage described in the table below, in nominal dollars. Please also provide the actual and projected total monthly customer bill, in nominal dollars. As part of this response, please provide an electronic version of the table below in Excel format with your response.**

Year	Residential Customer 1,200 kWh/mo		Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak	
	DSM Plan Portion (\$)	Total Bill (\$)	DSM Plan Portion (\$)	Total Bill (\$)
2010				
2011				
2012				
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				
2024				

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

The residential customer total bill per month was calculated by multiplying OUC's residential non-fuel base charge and fuel charges by 1,200 kWh. The commercial customer total bill per month was calculated by multiplying OUC's commercial non-fuel base charge and fuel charges by 100,000 kWh. An additional demand charge was also added by multiplying OUC's commercial demand charge by 1,000 kW. Gross Receipts taxes and other applicable taxes were not included. The 2015 calculations used the bill rates according to OUC's current rate schedule. Historical bill rates were provided by OUC to calculate previous total bill amounts. The DSM Plan Portion was calculated based on historically based DSM expenditures and its proportional relationship to revenue requirement and trended into the future.

- 13. For the company's audit programs, please provide a list of measures used to determine energy and demand savings. Please identify each measure and specify whether it is equipment provided by the company and installed by the auditor, equipment provided but installed by the home or business owner, or a behavioral measure savings. As part of this response, please provide an electronic version of the table below in Excel format with your response.**

[Measure Name]						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

All savings associated with OUC's audit programs measure are associated with behavioral measures. In many cases, the motivation for an energy audit is the result of experiencing a high bill and can be mitigated by taking actions that modify behavior, such as controlling HVAC thermostat settings better, cleaning filters, utilizing fans in the home, cleaning refrigerator and air conditioner coils, closing drapes/blinds on west- and east-facing windows during the summer and opening during the winter, etc – there is a variety of low cost/no cost measures recommended in the audits that customers can implement. During a walk-through energy audit, the customer is provided a choice of either a compact fluorescent lamp or water saving showerhead. Neither of the associated benefits are included in the estimated savings but are likely to be realized.

- 14. If the company's audit programs include behavioral savings, please describe the empirical basis for asserting such savings (i.e. double blind experiments, transfer of findings from other utilities, engineering guesses) and how they are monitored and verified.**

OUC Response:

The savings for Residential Energy Surveys are based on the methodology used in the Annual Conservation Reports OUC submits to the PSC. The main assumption is half of the single family home (SFH) customers that participate in OUC's walk-through energy survey will adjust their thermostat 1 degree to conserve. It is estimated that a 1 degree adjustment will reduce a customer's heating and cooling consumption by 8 percent. Furthermore, it is estimated that a customer's heating and cooling cost are about 50 percent of their electric use. This level of consumption for a SFH is conservative due to

the fact that OUC's residential class is comprised of more than 45 percent multi-family dwellings. . It is further assumed that only 50% will take that action.

Saving Estimate for SFH

kWh/yr	13,135
A/C & heat portion	50%
Savings per degree	8%
Penetration Rate	50%
kWh Savings/yr	263

The savings from a video or on-line conservation survey were estimated to produce half of the savings of a walk-through energy survey.

50% of SFH kWh/yr savings= 131

The savings from a walk-through energy survey in a multi-family dwelling used a similar methodology as the Single Family Home except for the overall consumption was reduced to 10,000 kWh/yr resulting in 200 kWh/yr. Again, half of the savings were assumed for the multi-family video or on-line energy surveys, resulting in 100 kWh/yr.

Again, the seeking for assistance through an energy audit is the result of a high bill that can be mitigated by a variety of behavioral or low cost/no cost measures or other recommendations included in the energy audit that are not included in an OUC rebate program.

A comparison of OUC's savings estimates compared to other utility estimates are provided in the table below below. OUC's estimates are relatively on the low end.

Utility	KWH Reduction		Winter KW Reduction		Summer KW Reduction	
	Walk-Through	Online	Walk-Through	Online	Walk-Through	Online
OUC	263	131	0	0	0	0
TECO	395	296	0.081	0.061	0.070	0.053
JEA	200	N/A	0.1	N/A	0.1	N/A
DUKE	668	N/A	0.23	N/A	0.18	N/A

- 15. Do any of the programs in the company's DSM Plan include savings associated with Compact Fluorescent Lightbulbs? If so, please identify the baseline used.**

OUC Response:

None of OUC's programs included in the DSM Plan include savings associated with compact fluorescent lightbulbs.

- 16. Please identify each program in the company's DSM Plan that include measures with an estimated 2 year or less payback period, and which measures are included by program.**

OUC Response:

The following programs may be considered to have a payback period of two years or less:

- Residential Home Energy Survey Programs – Walk-Through, DVD, and On-line
- Residential Efficiency Delivered Program (When OUC pays 85% of the cost for customers with family income less than \$40,000/yr)
- Commercial Energy Audits Program

- 17. For each program that includes measures with an estimated 2 year or less payback period, please provide the amount of savings (kWh, Win kW, and Sum kW) associated with these measures for each program and for the entire DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.**

[Program Name or DSM Plan Combined]						
Year	Program Savings from 2-Year Payback Measures (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						

OUC Response:

Please see completed tables below, as well as the electronic version provided in Excel (.xlsx) format.

- 18. Please describe the avoided unit used in the company's cost-effectiveness evaluations of the programs in its DSM Plan.**

OUC Response:

The 2015 OUC DSM Plan does not include an avoided unit, as OUC was projected to have adequate capacity to maintain reserve margin requirements over the 2015 through 2024 planning period.

- 19. Please provide the annual avoided cost savings associated with each of the following four scenarios for a measure that reduces energy or demand by: 1000 kWh, 1 kW Summer Demand, 1 kW Winter Demand, or 1 kW Summer and Winter Demand. Please provide the savings through the longest time period used to evaluate the programs in your DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.**

Year	Savings by Measure Type							
	1000 kWh		1 kW Summer		1 kW Winter		1 kW Sum & Win	
	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real
2015								
2016								
2017								
2018								
2019								
2020								
2021								
2022								
2023								
2024								

OUC Response:

Please see the attached electronic versions provided in Excel (.xlsx) format.

Nominal values were converted to real 2015 dollars using a 2.5 percent inflation rate. Values are not provided in the capacity savings columns since OUC does not have an avoided unit.

- 20. Please discuss the methodology used to estimate expected participation for each program proposed by your company.**

OUC Response:

Estimates of participation rates for the 2015 through 2024 period reflected in OUC's 2015 DSM Plan are based on historical participation rates over the last 5 years.

- 21. Please compare the projected participation rates of continuing programs with the actual participation rates for the previous ten years (or less, depending upon the start date of the program).**

OUC Response:

Projected participation rates are based on historical actual participation rates (over the previous 5 years) for corresponding programs.

**22. Please describe any energy saving measures or products given to customers by OUC through the Residential Energy Survey Program.**

- a. How did OUC estimate the energy savings for this program, as shown in the tables on pages 2-3 through 2-11? Please discuss each table separately.

OUC Response:

OUC provides participating customers with the choice of either a compact fluorescent lightbulb (CFL) or low flow shower head as part of the Residential Home Energy Survey (Walk-through). Energy savings associated with the CFLs or low flow shower heads are not included in the estimated savings per participant. Please see the response to Question Number 14 for discussion of how energy savings for the Residential Energy Survey Program were estimated.

**23. How did OUC estimate the expected energy savings for its Commercial Energy Survey Program? Please discuss each table separately.**

OUC Response:

OUC followed a similar process as described in Question 14 but used an average kWh consumptions for a business on the General Service Non-Demand rate of 17,660 kWh/yr. Since many of the requests are a result of high bill complaints there is a high probability of opportunities of making low cost/no cost improvements such as:

- Use ceiling fans more and set cooling space temperature warmer where applicable.
- Set heating space temperature cooler where applicable.
- Set back HVAC temperature when unoccupied
- Clean HVAC filter & coils on a regular basis
- Turn-off lights & ceiling fans when not in use.
- Turn-off computers, printers & monitors or other equipment when not in use.
- Using less hot water or setting the water heater temperature 10°F cooler where applicable.



Savings Estimate

kWh/yr usage                    17,660  
 Savings                                 5%  
 kWh Savings/yr                    883

Utility	KWH Reduction	kWh Reduction	Winter KW Reduction	Summer KW Reduction
OUC	Commercial Energy Survey	883	0.15	0.15
TECO	Commercial/Industrial Audit	817	.094	.093
JEA	Walk-Through:	540	0.12	0.12
DUKE	Home Energy Check:	1004	0.15	0.19

OUC's estimate is also in line with other FEECA utilities.

- 24. Please describe any efforts OUC currently undertakes or plans in the future to educate and assist low-income families with energy conservation.**

OUC Response:

***Efficiency Delivered***

For those customers with less than a \$40,000 family income OUC's Efficiency Delivered program pays for 85% of energy and water efficiency upgrades based on their needs, up to \$1,700. The other 15% can be spread over a 12 month period interest-free on their monthly utility bill. A conservation specialist from OUC determines which home improvements can save customers the most money and then, with their approval, arranges for a licensed contractor to do the work. Customers receive professional installation from a trusted source and save instantly with contributions from OUC. For those families with incomes between \$40,000 and \$60,000, OUC will pay up to 50% of the cost up to \$1,000. Same repayment plan for the rest of the 50% is available upon meeting qualifications. Conservation measures include attic insulation, duct repair, caulking and weather stripping, window film, pipe insulation, pipe insulation, plumbing repairs, etc. Visit for more information:

<http://www.ouc.com/residential/save-energy-water-money/residential-rebates>

***Usage Dashboard***

The Usage Dashboard is an online tool that graphically demonstrates our customers' consumption trends to help them better understand the days and times they use the most electricity. Visualizing their usage patterns promotes conservation and can help customers reduce their energy bill. The main page of the Usage Dashboard displays daily electric usage. A colorful animated chart compares the outdoor air temperature with the home's electric consumption over the past 30 days. Seeing the correlation between outdoor temperature and energy usage can help customers see why they use more electricity on hotter days to cool their homes. It also helps them appreciate the fact that adjusting the indoor temperature by just a degree or two can have a significant impact on lowering their electric bill.

### ***Power Pass***

Pre-Paid programs are one way to receive utility services more affordably. Power Pass is a prepaid program that gives OUC customers a "pay-as-you-go" option for utility services including electric, water, sewer and solid waste. Instead of getting a monthly bill, customers can check their electric or water usage online every day through their Usage Dashboard. Power Pass customers never pay a security deposit or incur late fees. Consumption is calculated daily and utility service costs are deducted each day from the customer's account. Power Pass allows small payments as often as needed to keep the balance above \$0.00. Customers with large debt can receive service and pay off their bill in small installments. Pre-Paid programs have demonstrated a significant conservation effect from participants.

### ***Online Home Energy Audits***

OUC has an updated online Home Energy Audit to help customers determine the efficiency of their home's energy usage and where they can make improvements to lower their utility bills. By entering their account number in the online tool, they can get customized recommendations based on their actual consumption history.

### ***Free Home Energy Survey***

OUC electric customers can also have our experts show them how to save energy and reduce their monthly utility bill with a free Home Energy Survey. A trained energy specialist performs a thorough home examination, inspecting all areas for energy and water loss.

### ***Tips and Hints***

OUC customers can also explore energy tips and hints in our Home Energy Library. This resource contains hundreds of pages of graphically rich and interactive resources on specific topics such as meters, energy-saving home improvements, insulation, power quality and ventilation. For example in the section on energy conservation tips, customers can find resources on summer savings, the realities of eco-friendly living, earth-friendly vehicles, an apartment energy guide and the benefits of window film, just to name a few. The water conservation section offers tips on leak detection, landscaping, pools and irrigation. OUC.com also features an extensive library of conservation videos offering practical "do-it-yourself" ways to save energy, water and money.

### ***Kids Korner***

OUC Kids Korner is an interactive online classroom where learning about energy is fun! Children can engage in topics such as why we need energy, the history of how we learned to change energy from one form to another, and some of the characteristics of electricity. There are also sections on energy-efficiency and how to play it safe. In addition, Kids Korner features an Energy Fun Factory and a Teacher Feature with instructional guides and educational games geared to make learning about energy and conservation a kid-pleasing experience.

### ***Spring into Sustainability***

Teaming up with the City of Orlando, OUC took part in a series of six neighborhood meetings, one in each city commission district, organized to connect residents of all income

levels with programs and services designed to help them bring sustainable practices into their homes. Judging from the crowds that showed up at these *Spring into Sustainability* workshops, people are eager to "go green." Some of the exhibits included OUC's Usage Dashboard, Orlando's One Person, One Tree and composting campaigns along with OUC's Power Pass and Home Warranty Protection programs. Attendees were treated to dinner and each family received a free tree to plant at home.

***SELF***

OUC also partners with Orlando to promote SELF, the Solar Energy Loan Fund to give homeowners the opportunity to identify and finance cost-effective home improvements. This non-profit community lending organization is certified by the U.S. Treasury Department and helps homeowners reduce their average energy consumption by 23%, while increasing equity, market value and the overall comfort and livability of their homes. SELF provides families in Orlando with affordable loans to help finance home improvements such as weatherization and insulation, air-conditioners, impact resistant windows and doors, roofs, solar water heaters, solar fans and solar panels.

<b>Residential Program Costs (Nominal, 000s)</b>				
<b>Program</b>	<b>Incentives</b>	<b>Administrative &amp; Equipment</b>	<b>Total</b>	<b>Percent Incentives</b>
Residential Single Family Walk Through	\$0	\$7,201	\$7,201	0%
Residential Multi Family Walk Through	\$0	\$4,039	\$4,039	0%
Residential Single Family Video Survey	\$0	\$663	\$663	0%
Residential Multi Family Video Survey	\$0	\$252	\$252	0%
Residential Single Family Online Survey	\$0	\$1,318	\$1,318	0%
Residential Multi Family Online Survey	\$0	\$475	\$475	0%
Residential Duct Repair	\$422	\$669	\$1,091	39%
Residential Ceiling Insulation	\$574	\$947	\$1,521	38%
Residential Window Film	\$140	\$78	\$217	64%
Residential High Performance Windows	\$624	\$1,251	\$1,875	33%
Residential Efficiency Delivered	\$1,187	\$775	\$1,962	61%
Residential Heat Pump (SEER 15)	\$2,817	\$3,574	\$6,391	44%
Residential Heat Pump (SEER 16)	\$1,115	\$1,414	\$2,529	44%
Residential Heat Pump (SEER 17)	\$364	\$462	\$825	44%
Residential Heat Pump (SEER 18)	\$424	\$538	\$963	44%
Residential New Home Rebate	\$182	\$120	\$302	60%
<b>TOTAL</b>	<b>\$7,850</b>	<b>\$23,776</b>	<b>\$31,627</b>	<b>25%</b>

<b>Commercial Program Costs (Nominal, 000s)</b>				
<b>Program</b>	<b>Incentives</b>	<b>Administrative &amp; Equipment</b>	<b>Total</b>	<b>Percent Incentives</b>
Commercial Energy Audit	\$0	\$1,657	\$1,657	0%
Commercial Heat Pump (SEER 15)	\$6	\$1	\$7	80%
Commercial Heat Pump (SEER 16)	\$11	\$3	\$14	80%
Commercial Heat Pump (SEER 17)	\$11	\$3	\$14	80%
Commercial Heat Pump (SEER 18)	\$6	\$1	\$7	80%
Commercial Energy Efficient Duct Repair	\$70	\$23	\$93	76%
Commercial Energy Efficient Window Film & Solar Screen	\$191	\$11	\$202	95%
Commercial Energy Efficiency Ceiling Insulation	\$274	\$41	\$315	87%
Commercial Energy Efficiency Cool Roof	\$418	\$1,446	\$1,863	22%
<b>TOTAL</b>	<b>\$987</b>	<b>\$3,186</b>	<b>\$4,173</b>	<b>24%</b>

Residential Program Costs (NPV, 000s)				
Program	Incentives	Administrative & Equipment	Total	Percent Incentives
Residential Single Family Walk Through	\$0	\$5,664	\$5,664	0%
Residential Multi Family Walk Through	\$0	\$3,178	\$3,178	0%
Residential Single Family Video Survey	\$0	\$521	\$521	0%
Residential Multi Family Video Survey	\$0	\$198	\$198	0%
Residential Single Family Online Survey	\$0	\$1,037	\$1,037	0%
Residential Multi Family Online Survey	\$0	\$374	\$374	0%
Residential Duct Repair	\$336	\$526	\$862	39%
Residential Ceiling Insulation	\$457	\$745	\$1,201	38%
Residential Window Film	\$111	\$61	\$172	64%
Residential High Performance Windows	\$497	\$984	\$1,480	34%
Residential Efficiency Delivered	\$934	\$609	\$1,543	61%
Residential Heat Pump (SEER 15)	\$2,812	\$2,240	\$5,052	56%
Residential Heat Pump (SEER 16)	\$886	\$1,113	\$1,999	44%
Residential Heat Pump (SEER 17)	\$289	\$363	\$652	44%
Residential Heat Pump (SEER 18)	\$338	\$424	\$761	44%
Residential New Home Rebate	\$145	\$94	\$239	61%
<b>TOTAL</b>	<b>\$6,804</b>	<b>\$18,132</b>	<b>\$24,935</b>	<b>27%</b>

<b>Commercial Program Costs (NPV, 000s)</b>				
<b>Program</b>	<b>Incentives</b>	<b>Administrative &amp; Equipment</b>	<b>Total</b>	<b>Percent Incentives</b>
Commercial Energy Audit	\$0	\$1,304	\$1,304	0%
Commercial Heat Pump (SEER 15)	\$5	\$1	\$6	80%
Commercial Heat Pump (SEER 16)	\$9	\$2	\$11	80%
Commercial Heat Pump (SEER 17)	\$9	\$2	\$11	80%
Commercial Heat Pump (SEER 18)	\$5	\$1	\$6	80%
Commercial Energy Efficient Duct Repair	\$56	\$18	\$74	76%
Commercial Energy Efficient Window Film & Solar Screen	\$152	\$9	\$161	95%
Commercial Energy Efficiency Ceiling Insulation	\$218	\$33	\$250	87%
Commercial Energy Efficiency Cool Roof	\$332	\$1,137	\$1,469	23%
<b>TOTAL</b>	<b>\$785</b>	<b>\$2,506</b>	<b>\$3,291</b>	<b>24%</b>











Program	Benefits (000s)					Costs (000s)					Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Incentives	Lost Revenues	Other	Total	
Residential Single Family Walk Through	\$0	\$0	\$560	\$0	\$560	\$5,664	\$0	\$1,722	\$0	\$7,387	-\$6,827
Residential Multi Family Walk Through	\$0	\$0	\$174	\$0	\$174	\$3,178	\$0	\$535	\$0	\$3,712	-\$3,538
Residential Single Family Video Survey	\$0	\$0	\$113	\$0	\$113	\$521	\$0	\$349	\$0	\$870	-\$757
Residential Multi Family Video Survey	\$0	\$0	\$43	\$0	\$43	\$198	\$0	\$132	\$0	\$330	-\$287
Residential Single Family Online Survey	\$0	\$0	\$151	\$0	\$151	\$1,037	\$0	\$465	\$0	\$1,502	-\$1,351
Residential Multi Family Online Survey	\$0	\$0	\$49	\$0	\$49	\$374	\$0	\$152	\$0	\$526	-\$477
Residential Duct Repair	\$0	\$0	\$118	\$0	\$118	\$526	\$336	\$363	\$0	\$1,225	-\$1,107
Residential Ceiling Insulation	\$0	\$0	\$166	\$0	\$166	\$745	\$457	\$512	\$0	\$1,713	-\$1,547
Residential Window Film	\$0	\$0	\$14	\$0	\$14	\$61	\$111	\$42	\$0	\$214	-\$201
Residential High Performance Windows	\$0	\$0	\$220	\$0	\$220	\$984	\$497	\$677	\$0	\$2,157	-\$1,937
Residential Efficiency Delivered	\$0	\$0	\$136	\$0	\$136	\$609	\$934	\$419	\$0	\$1,963	-\$1,826
Residential Heat Pump (SEER 15)	\$0	\$0	\$273	\$0	\$273	\$2,812	\$2,240	\$839	\$0	\$5,891	-\$5,618
Residential Heat Pump (SEER 16)	\$0	\$0	\$177	\$0	\$177	\$1,113	\$886	\$543	\$0	\$2,542	-\$2,365
Residential Heat Pump (SEER 17)	\$0	\$0	\$84	\$0	\$84	\$363	\$289	\$258	\$0	\$911	-\$827
Residential Heat Pump (SEER 18)	\$0	\$0	\$124	\$0	\$124	\$424	\$338	\$382	\$0	\$1,143	-\$1,019
Residential New Home Rebate	\$0	\$0	\$43	\$0	\$43	\$94	\$145	\$133	\$0	\$372	-\$329
<b>TOTAL</b>	\$0	\$0	\$2,445	\$0	\$2,445	\$18,703	\$6,232	\$7,523	\$0	\$32,458	-\$30,013

Program	Benefits (000s)					Costs (000s)					Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Incentives	Lost Revenues	Other	Total	
Commercial Energy Audit	\$158	\$0	\$0	\$0	\$158	\$1,304	\$0	\$358	\$0	\$1,662	-\$1,504
Commercial Heat Pump (SEER 15)	\$3	\$0	\$0	\$0	\$3	\$1	\$5	\$10	\$0	\$16	-\$13
Commercial Heat Pump (SEER 16)	\$10	\$0	\$0	\$0	\$10	\$2	\$9	\$31	\$0	\$42	-\$32
Commercial Heat Pump (SEER 17)	\$14	\$0	\$0	\$0	\$14	\$2	\$9	\$47	\$0	\$58	-\$44
Commercial Heat Pump (SEER 18)	\$10	\$0	\$0	\$0	\$10	\$1	\$5	\$30	\$0	\$36	-\$26
Commercial Energy Efficient Duct Repair	\$24	\$0	\$0	\$0	\$24	\$18	\$56	\$81	\$0	\$155	-\$131
Commercial Energy Efficient Window Film & Solar Screen	\$11	\$0	\$0	\$0	\$11	\$9	\$152	\$27	\$0	\$188	-\$177
Commercial Energy Efficiency Ceiling Insulation	\$44	\$0	\$0	\$0	\$44	\$33	\$218	\$174	\$0	\$424	-\$380
Commercial Energy Efficiency Cool Roof	\$1,521	\$0	\$0	\$0	\$1,521	\$1,137	\$332	\$4,522	\$0	\$5,992	-\$4,470
<b>TOTAL</b>	<b>\$1,794</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,794</b>	<b>\$2,506</b>	<b>\$785</b>	<b>\$5,280</b>	<b>\$0</b>	<b>\$8,571</b>	<b>-\$6,777</b>

<b>Residential Program Incentives (Nominal, 000s)</b>			
<b>Program</b>	<b>Incentives (Non-Recurring)</b>	<b>Incentives (Recurring)</b>	<b>Total</b>
Residential Single Family Walk Through	\$0	\$0	\$0
Residential Multi Family Walk Through	\$0	\$0	\$0
Residential Single Family Video Survey	\$0	\$0	\$0
Residential Multi Family Video Survey	\$0	\$0	\$0
Residential Single Family Online Survey	\$0	\$0	\$0
Residential Multi Family Online Survey	\$0	\$0	\$0
Residential Duct Repair	\$422	\$0	\$422
Residential Ceiling Insulation	\$574	\$0	\$574
Residential Window Film	\$140	\$0	\$140
Residential High Performance Windows	\$624	\$0	\$624
Residential Efficiency Delivered	\$1,187	\$0	\$1,187
Residential Heat Pump (SEER 15)	\$2,817	\$0	\$2,817
Residential Heat Pump (SEER 16)	\$1,115	\$0	\$1,115
Residential Heat Pump (SEER 17)	\$364	\$0	\$364
Residential Heat Pump (SEER 18)	\$424	\$0	\$424
Residential New Home Rebate	\$182	\$0	\$182
<b>TOTAL</b>	<b>\$7,850</b>	<b>\$0</b>	<b>\$7,850</b>

<b>Commerical Program Incentives (Nominal, 000s)</b>			
<b>Program</b>	<b>Incentives (Non-Recurring)</b>	<b>Incentives (Recurring)</b>	<b>Total</b>
Commercial Energy Audit	\$0	\$0	\$0
Commercial Heat Pump (SEER 15)	\$6	\$0	\$6
Commercial Heat Pump (SEER 16)	\$11	\$0	\$11
Commercial Heat Pump (SEER 17)	\$11	\$0	\$11
Commercial Heat Pump (SEER 18)	\$6	\$0	\$6
Commercial Energy Efficient Duct Repair	\$70	\$0	\$70
Commercial Energy Efficient Window Film & Solar Screen	\$191	\$0	\$191
Commercial Energy Efficiency Ceiling Insulation	\$274	\$0	\$274
Commercial Energy Efficiency Cool Roof	\$418	\$0	\$418
<b>TOTAL</b>	<b>\$987</b>	<b>\$0</b>	<b>\$987</b>

<b>Residential Program Incentives (NPV, 000s)</b>			
<b>Program</b>	<b>Incentives (Non-Recurring)</b>	<b>Incentives (Recurring)</b>	<b>Total</b>
Residential Single Family Walk Through	\$0	\$0	\$0
Residential Multi Family Walk Through	\$0	\$0	\$0
Residential Single Family Video Survey	\$0	\$0	\$0
Residential Multi Family Video Survey	\$0	\$0	\$0
Residential Single Family Online Survey	\$0	\$0	\$0
Residential Multi Family Online Survey	\$0	\$0	\$0
Residential Duct Repair	\$336	\$0	\$336
Residential Ceiling Insulation	\$457	\$0	\$457
Residential Window Film	\$111	\$0	\$111
Residential High Performance Windows	\$497	\$0	\$497
Residential Efficiency Delivered	\$934	\$0	\$934
Residential Heat Pump (SEER 15)	\$2,240	\$0	\$2,240
Residential Heat Pump (SEER 16)	\$886	\$0	\$886
Residential Heat Pump (SEER 17)	\$289	\$0	\$289
Residential Heat Pump (SEER 18)	\$338	\$0	\$338
Residential New Home Rebate	\$145	\$0	\$145
<b>TOTAL</b>	<b>\$6,232</b>	<b>\$0</b>	<b>\$6,232</b>



<b>Commerical Program Incentives (NPV, 000s)</b>			
<b>Program</b>	<b>Incentives (Non-Recurring)</b>	<b>Incentives (Recurring)</b>	<b>Total</b>
Commercial Energy Audit	\$0	\$0	\$0
Commercial Heat Pump (SEER 15)	\$5	\$0	\$5
Commercial Heat Pump (SEER 16)	\$9	\$0	\$9
Commercial Heat Pump (SEER 17)	\$9	\$0	\$9
Commercial Heat Pump (SEER 18)	\$5	\$0	\$5
Commercial Energy Efficient Duct Repair	\$56	\$0	\$56
Commercial Energy Efficient Window Film & Solar Screen	\$152	\$0	\$152
Commercial Energy Efficiency Ceiling Insulation	\$218	\$0	\$218
Commercial Energy Efficiency Cool Roof	\$332	\$0	\$332
<b>TOTAL</b>	<b>\$785</b>	<b>\$0</b>	<b>\$785</b>

Program	Benefits (000s)					Costs (000s)				Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	
Residential Single Family Walk Through	\$0	\$0	\$560	\$0	\$560	\$5,664	\$0	\$0	\$5,664	-\$5,104
Residential Multi Family Walk Through	\$0	\$0	\$174	\$0	\$174	\$3,178	\$0	\$0	\$3,178	-\$3,004
Residential Single Family Video Survey	\$0	\$0	\$113	\$0	\$113	\$521	\$0	\$0	\$521	-\$408
Residential Multi Family Video Survey	\$0	\$0	\$43	\$0	\$43	\$198	\$0	\$0	\$198	-\$155
Residential Single Family Online Survey	\$0	\$0	\$151	\$0	\$151	\$1,037	\$0	\$0	\$1,037	-\$886
Residential Multi Family Online Survey	\$0	\$0	\$49	\$0	\$49	\$374	\$0	\$0	\$374	-\$325
Residential Duct Repair	\$0	\$0	\$118	\$0	\$118	\$526	\$2,701	\$0	\$3,227	-\$3,110
Residential Ceiling Insulation	\$0	\$0	\$166	\$0	\$166	\$745	\$2,049	\$0	\$2,794	-\$2,628
Residential Window Film	\$0	\$0	\$14	\$0	\$14	\$61	\$688	\$0	\$749	-\$735
Residential High Performance Windows	\$0	\$0	\$220	\$0	\$220	\$984	\$11,071	\$0	\$12,054	-\$11,834
Residential Efficiency Delivered	\$0	\$0	\$136	\$0	\$136	\$609	\$458	\$0	\$1,068	-\$931
Residential Heat Pump (SEER 15)	\$0	\$0	\$273	\$0	\$273	\$2,812	\$2,502	\$0	\$5,313	-\$5,040
Residential Heat Pump (SEER 16)	\$0	\$0	\$177	\$0	\$177	\$1,113	\$3,708	\$0	\$4,820	-\$4,644
Residential Heat Pump (SEER 17)	\$0	\$0	\$84	\$0	\$84	\$363	\$1,795	\$0	\$2,158	-\$2,074
Residential Heat Pump (SEER 18)	\$0	\$0	\$124	\$0	\$124	\$424	\$3,286	\$0	\$3,709	-\$3,585
Residential New Home Rebate	\$0	\$0	\$43	\$0	\$43	\$94	\$0	\$0	\$94	-\$51
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,445</b>	<b>\$0</b>	<b>\$2,445</b>	<b>\$18,703</b>	<b>\$28,258</b>	<b>\$0</b>	<b>\$46,961</b>	<b>-\$44,516</b>

Program	Benefits (000s)					Costs (000s)				Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	
Commercial Energy Audit	\$0	\$0	\$158	\$0	\$158	\$1,304	\$0	\$0	\$1,304	-\$1,146
Commercial Heat Pump (SEER 15)	\$0	\$0	\$3	\$0	\$3	\$1	\$29	\$0	\$30	-\$27
Commercial Heat Pump (SEER 16)	\$0	\$0	\$10	\$0	\$10	\$2	\$202	\$0	\$204	-\$194
Commercial Heat Pump (SEER 17)	\$0	\$0	\$14	\$0	\$14	\$2	\$299	\$0	\$301	-\$287
Commercial Heat Pump (SEER 18)	\$0	\$0	\$10	\$0	\$10	\$1	\$253	\$0	\$254	-\$244
Commercial Energy Efficient Duct Repair	\$0	\$0	\$24	\$0	\$24	\$18	\$1,974	\$0	\$1,992	-\$1,968
Commercial Energy Efficient Window Film & Solar Screen	\$0	\$0	\$11	\$0	\$11	\$9	\$32	\$0	\$41	-\$29
Commercial Energy Efficiency Ceiling Insulation	\$0	\$0	\$44	\$0	\$44	\$33	\$40	\$0	\$73	-\$29
Commercial Energy Efficiency Cool Roof	\$0	\$0	\$1,521	\$0	\$1,521	\$1,137	\$7,028	\$0	\$8,165	-\$6,644
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,794</b>	<b>\$0</b>	<b>\$1,794</b>	<b>\$2,506</b>	<b>\$9,857</b>	<b>\$0</b>	<b>\$12,363</b>	<b>-\$10,569</b>

Program	Benefits (000s)					Costs (000s)				Net Benefit
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	
Residential Single Family Walk Through	\$1,722	\$0	\$0	\$0	\$1,722	\$0	\$0	\$0	\$0	\$1,722
Residential Multi Family Walk Through	\$535	\$0	\$0	\$0	\$535	\$0	\$0	\$0	\$0	\$535
Residential Single Family Video Survey	\$349	\$0	\$0	\$0	\$349	\$0	\$0	\$0	\$0	\$349
Residential Multi Family Video Survey	\$132	\$0	\$0	\$0	\$132	\$0	\$0	\$0	\$0	\$132
Residential Single Family Online Survey	\$465	\$0	\$0	\$0	\$465	\$0	\$0	\$0	\$0	\$465
Residential Multi Family Online Survey	\$152	\$0	\$0	\$0	\$152	\$0	\$0	\$0	\$0	\$152
Residential Duct Repair	\$363	\$0	\$336	\$0	\$698	\$2,701	\$0	\$0	\$2,701	-\$2,003
Residential Ceiling Insulation	\$512	\$0	\$457	\$0	\$968	\$2,049	\$0	\$0	\$2,049	-\$1,081
Residential Window Film	\$42	\$0	\$111	\$0	\$153	\$688	\$0	\$0	\$688	-\$534
Residential High Performance Windows	\$677	\$2,350	\$497	\$0	\$3,523	\$11,071	\$0	\$0	\$11,071	-\$7,547
Residential Efficiency Delivered	\$419	\$0	\$928	\$0	\$1,347	\$458	\$0	\$0	\$458	\$889
Residential Heat Pump (SEER 15)	\$839	\$0	\$2,240	\$0	\$3,079	\$2,502	\$0	\$0	\$2,502	\$578
Residential Heat Pump (SEER 16)	\$543	\$1,004	\$886	\$0	\$2,433	\$3,708	\$0	\$0	\$3,708	-\$1,275
Residential Heat Pump (SEER 17)	\$258	\$486	\$289	\$0	\$1,034	\$1,795	\$0	\$0	\$1,795	-\$761
Residential Heat Pump (SEER 18)	\$382	\$890	\$338	\$0	\$1,609	\$3,286	\$0	\$0	\$3,286	-\$1,677
Residential New Home Rebate	\$133	\$0	\$145	\$0	\$278	\$0	\$0	\$0	\$0	\$278
<b>TOTAL</b>	<b>\$7,523</b>	<b>\$4,729</b>	<b>\$6,226</b>	<b>\$0</b>	<b>\$18,478</b>	<b>\$28,258</b>	<b>\$0</b>	<b>\$0</b>	<b>\$28,258</b>	<b>-\$9,780</b>

Program	Benefits (000s)					Costs (000s)				Net Benefit
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	
Commercial Energy Audit	\$358	\$0	\$0	\$0	\$358	\$0	\$0	\$0	\$0	\$358
Commercial Heat Pump (SEER 15)	\$10	\$8	\$5	\$0	\$23	\$29	\$0	\$0	\$29	-\$6
Commercial Heat Pump (SEER 16)	\$31	\$55	\$9	\$0	\$94	\$202	\$0	\$0	\$202	-\$108
Commercial Heat Pump (SEER 17)	\$47	\$81	\$9	\$0	\$137	\$299	\$0	\$0	\$299	-\$163
Commercial Heat Pump (SEER 18)	\$30	\$68	\$5	\$0	\$103	\$253	\$0	\$0	\$253	-\$150
Commercial Energy Efficient Duct Repair	\$81	\$0	\$56	\$0	\$137	\$1,974	\$0	\$0	\$1,974	-\$1,837
Commercial Energy Efficient Window Film & Solar Screen	\$27	\$0	\$152	\$0	\$179	\$32	\$0	\$0	\$32	\$147
Commercial Energy Efficiency Ceiling Insulation	\$174	\$0	\$218	\$0	\$391	\$40	\$0	\$0	\$40	\$351
Commercial Energy Efficiency Cool Roof	\$4,522	\$0	\$332	\$0	\$4,854	\$7,028	\$0	\$0	\$7,028	-\$2,173
<b>TOTAL</b>	<b>\$5,280</b>	<b>\$212</b>	<b>\$785</b>	<b>\$0</b>	<b>\$6,277</b>	<b>\$9,857</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,857</b>	<b>-\$3,580</b>

<b>Year</b>	<b>DSM Plan Expenditures</b>
2010	\$3,208,106
2011	\$2,785,735
2012	\$2,185,014
2013	\$2,828,489
2014	\$3,061,432
2015	\$3,107,890
2016	\$3,184,205
2017	\$3,260,520
2018	\$3,336,835
2019	\$3,413,150
2020	\$3,489,465
2021	\$3,565,780
2022	\$3,642,095
2023	\$3,718,410
2024	\$3,794,725

Year	Residential Customer 1,200 kWh/mo		Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak	
	DSM Plan Portion (\$)	Total Bill (\$)	DSM Plan Portion (\$)	Total Bill (\$)
2010	\$0.61	\$146	\$159	\$38,370
2011	\$0.61	\$146	\$159	\$38,370
2012	\$0.58	\$140	\$151	\$36,446
2013	\$0.55	\$134	\$147	\$35,430
2014	\$0.55	\$134	\$147	\$35,430
2015	\$0.55	\$134	\$147	\$35,430
2016	\$0.56	\$136	\$149	\$35,961
2017	\$0.57	\$138	\$151	\$36,501
2018	\$0.58	\$140	\$153	\$37,048
2019	\$0.59	\$142	\$156	\$37,604
2020	\$0.60	\$144	\$158	\$38,168
2021	\$0.61	\$146	\$160	\$38,741
2022	\$0.61	\$148	\$163	\$39,322
2023	\$0.62	\$151	\$165	\$39,912
2024	\$0.63	\$153	\$168	\$40,510

Residential Energy Walk Through Survey - Single Family						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	273	0	0	406,235	0	0
2016	273	0	0	406,235	0	0
2017	273	0	0	406,235	0	0
2018	273	0	0	406,235	0	0
2019	273	0	0	406,235	0	0
2020	273	0	0	406,235	0	0
2021	273	0	0	406,235	0	0
2022	273	0	0	406,235	0	0
2023	273	0	0	406,235	0	0
2024	273	0	0	406,235	0	0

Commerical Energy Audit						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	881.70	0.15	0.15	114,973.08	20.19	20.19
2016	881.70	0.15	0.15	114,973.08	20.19	20.19
2017	881.70	0.15	0.15	114,973.08	20.19	20.19
2018	881.70	0.15	0.15	114,973.08	20.19	20.19
2019	881.70	0.15	0.15	114,973.08	20.19	20.19
2020	881.70	0.15	0.15	114,973.08	20.19	20.19
2021	881.70	0.15	0.15	114,973.08	20.19	20.19
2022	881.70	0.15	0.15	114,973.08	20.19	20.19
2023	881.70	0.15	0.15	114,973.08	20.19	20.19
2024	881.70	0.15	0.15	114,973.08	20.19	20.19



Residential Energy Walk Through Survey - Multi Family						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	207.80	0	0	126,084.73	0	0
2016	207.80	0	0	126,084.73	0	0
2017	207.80	0	0	126,084.73	0	0
2018	207.80	0	0	126,084.73	0	0
2019	207.80	0	0	126,084.73	0	0
2020	207.80	0	0	126,084.73	0	0
2021	207.80	0	0	126,084.73	0	0
2022	207.80	0	0	126,084.73	0	0
2023	207.80	0	0	126,084.73	0	0
2024	207.80	0	0	126,084.73	0	0

Residential Energy DVD Survey - Single Family						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	136.11	0	0	82,389.50	0	0
2016	136.11	0	0	82,389.50	0	0
2017	136.11	0	0	82,389.50	0	0
2018	136.11	0	0	82,389.50	0	0
2019	136.11	0	0	82,389.50	0	0
2020	136.11	0	0	82,389.50	0	0
2021	136.11	0	0	82,389.50	0	0
2022	136.11	0	0	82,389.50	0	0
2023	136.11	0	0	82,389.50	0	0
2024	136.11	0	0	82,389.50	0	0

Residential Energy DVD Survey - Multi Family						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	103.90	0	0	31,199.09	0	0
2016	103.90	0	0	31,199.09	0	0
2017	103.90	0	0	31,199.09	0	0
2018	103.90	0	0	31,199.09	0	0
2019	103.90	0	0	31,199.09	0	0
2020	103.90	0	0	31,199.09	0	0
2021	103.90	0	0	31,199.09	0	0
2022	103.90	0	0	31,199.09	0	0
2023	103.90	0	0	31,199.09	0	0
2024	103.90	0	0	31,199.09	0	0

Residential Energy Online Survey - Single Family						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	136.11	0	0	109,720.19	0	0
2016	136.11	0	0	109,720.19	0	0
2017	136.11	0	0	109,720.19	0	0
2018	136.11	0	0	109,720.19	0	0
2019	136.11	0	0	109,720.19	0	0
2020	136.11	0	0	109,720.19	0	0
2021	136.11	0	0	109,720.19	0	0
2022	136.11	0	0	109,720.19	0	0
2023	136.11	0	0	109,720.19	0	0
2024	136.11	0	0	109,720.19	0	0

Residential Energy Online Survey - Multi Family						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	103.90	0	0	35,895.37	0	0
2016	103.90	0	0	35,895.37	0	0
2017	103.90	0	0	35,895.37	0	0
2018	103.90	0	0	35,895.37	0	0
2019	103.90	0	0	35,895.37	0	0
2020	103.90	0	0	35,895.37	0	0
2021	103.90	0	0	35,895.37	0	0
2022	103.90	0	0	35,895.37	0	0
2023	103.90	0	0	35,895.37	0	0
2024	103.90	0	0	35,895.37	0	0

<b>Residential Energy Audit - Total</b>						
<b>Year</b>	<b>Program Savings from 2-Year Payback Measures (Savings @ Generator)</b>					
	<b>Per Customer</b>			<b>Total Annual</b>		
	<b>kWh Reduction</b>	<b>Winter kW Reduction</b>	<b>Summer kW Reduction</b>	<b>kWh Reduction</b>	<b>Winter kW Reduction</b>	<b>Summer kW Reduction</b>
<b>2015</b>	961	0	0	791,524	0	0
<b>2016</b>	961	0	0	791,524	0	0
<b>2017</b>	961	0	0	791,524	0	0
<b>2018</b>	961	0	0	791,524	0	0
<b>2019</b>	961	0	0	791,524	0	0
<b>2020</b>	961	0	0	791,524	0	0
<b>2021</b>	961	0	0	791,524	0	0
<b>2022</b>	961	0	0	791,524	0	0
<b>2023</b>	961	0	0	791,524	0	0
<b>2024</b>	961	0	0	791,524	0	0

Residential Efficiency Delivered						
Year	Program Savings from 2-Year Payback Measures (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	502	0.06	0.28	98,813	12	55
2016	502	0.06	0.28	98,813	12	55
2017	502	0.06	0.28	98,813	12	55
2018	502	0.06	0.28	98,813	12	55
2019	502	0.06	0.28	98,813	12	55
2020	502	0.06	0.28	98,813	12	55
2021	502	0.06	0.28	98,813	12	55
2022	502	0.06	0.28	98,813	12	55
2023	502	0.06	0.28	98,813	12	55
2024	502	0.06	0.28	98,813	12	55

<b>Commercial Energy Audit</b>						
<b>Year</b>	<b>Program Savings from 2-Year Payback Measures (Savings @ Generator)</b>					
	<b>Per Customer</b>			<b>Total Annual</b>		
	<b>kWh Reduction</b>	<b>Winter kW Reduction</b>	<b>Summer kW Reduction</b>	<b>kWh Reduction</b>	<b>Winter kW Reduction</b>	<b>Summer kW Reduction</b>
<b>2015</b>	882	0.15	0.15	114,973	20	20
<b>2016</b>	882	0.15	0.15	114,973	20	20
<b>2017</b>	882	0.15	0.15	114,973	20	20
<b>2018</b>	882	0.15	0.15	114,973	20	20
<b>2019</b>	882	0.15	0.15	114,973	20	20
<b>2020</b>	882	0.15	0.15	114,973	20	20
<b>2021</b>	882	0.15	0.15	114,973	20	20
<b>2022</b>	882	0.15	0.15	114,973	20	20
<b>2023</b>	882	0.15	0.15	114,973	20	20
<b>2024</b>	882	0.15	0.15	114,973	20	20



Year	Savings by Measure Type							
	1000 kWh		1 kW Summer		1 kW Winter		1 kW Sum & Win	
	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real
2015	\$25.88	\$25.88	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$28.71	\$28.01	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$30.46	\$28.99	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$32.00	\$29.72	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$33.81	\$30.63	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$35.95	\$31.78	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$38.26	\$32.99	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$40.36	\$33.96	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$42.41	\$34.80	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$44.42	\$35.57	\$0	\$0	\$0	\$0	\$0	\$0