

May 26, 2015

HAND DELIVERY

Ms. Carlotta Stauffer, Clerk Office of the Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850 TECEIVED FPSC 15 MAY 26 PM 4: 40 COMMISSION

Re: Docket No. 150089-EG - Petition for approval of demand-side management plan by Florida Public Utilities Company.

Dear Ms. Stauffer:

Attached for filing, please find the original and five (5) copies of Florida Public Utilities Company's **revised** responses to Staff's First Data Requests in the referenced docket. These revised data responses are being provided to correct errors identified by the Company in preparing its responses to Commission Staff's Second Data Requests in this matter. The errors identified impact the Company's responses to Staff's First Data Requests Nos. 1, 2, 5, 9, and 10. For ease of reference, clean and tracked changes versions are included. Also enclosed is a CD containing the corrected Excel spreadsheets in native format.

As always, please don't hesitate to let me know if you have any questions whatsoever.

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Sincerely,

Beth Keating Gunster, Yoakley & Stewart, P.A. 215 South Monroe St., Suite 601 Tallahassee, FL 32301 (850) 521-1706

RE: Docket No. 150089-EG- Petition for approval of demand-side management plan by Florida Public Utilities Company.

Florida Public Utilities Company's Responses to Commission Staff's First Data Requests, issued on April 6, 2015, in the above-referenced docket are as follows:

1. 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.

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

Response to Data Request 1:

The requested tables are provided below. The Administrative & Equipment costs only include FPUC costs. For FPUC's existing conservation programs, 10 percent of FPUC's common expenses for 2014 are allocated as administrative and general expenses to each existing program based on energy saved. The Common Expenses shown below are the remaining 90 percent of the 2014 common expenses escalated at the assumed 2.3 percent annual escalation rate.

Program Costs (Nominal)										
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)						
Residential Energy Survey	-	579,480	579,480	0.00						
Residential Heating & Cooling Efficiency Upgrade	125,000	374,110	499,110	25.04						
Residential Subtotal	125,000	953,590	1,078,590	11.59						

	Program Costs (Nominal)										
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)							
Commercial Heating & Cooling Efficiency Upgrade	12,500	61,390	73,890	16.92							
Commercial Chiller Upgrade	112,350	108,280	220,630	50.92							
Commercial Reflective Roof	35,000	27,150	62,150	56.32							
Comm/Ind. Subtotal	159,850	196,820	356,670	44.82							
Common Expenses	-	3,885,900	3,885,900	0.00							
Total	284,850	5,036,310	5,321,160	5.35							

		Program Costs (NP	Ŋ	
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)
Residential Energy Survey	_	426,890	426,890	0.00
Residential Heating & Cooling Efficiency Upgrade	93,290	275,600	368,890	25.29
Residential Subtotal	93,290	702,490	795,780	11.72
Commercial Heating & Cooling Efficiency Upgrade	9,330	45,220	54,550	17.10
Commercial Chiller Upgrade	79,040	75,260	154,300	51.22
Commercial Reflective Roof	23,590	19,813	43,403	54.35
Comm/Ind. Subtotal	111,960	140,293	252,253	44.38
Common Expenses	-	2,862,670	2,860,670	0.00
Total	205,250	3,704,453	3,910,703	5.25

2. 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.

	Pr Depreciation	peranorado Payroli				Pencles		Reenee	
Program Name		& Benefits	8 Suppres		Advertising	& Travel	Other		Total
[Residential]		1							
ita kanali pidi ka									
[Comm/Ind.]									l
Common Expenses									
Total		1							
Total									
Total			im nátra (j.	i Se Equip	ment Cests (N				
Total		Program A Payroll	Materials.			9Vj Venicles		Revenues	
Total Program Name	Depreciation & Return		Mittania.	e S. Equip Outside Services	ment Costs (N Advertising		Other	Revenues (if any)	Total
Total	Depresation	Payroll.	Materials: <u>X</u>	Quinide		Vehieles &	/ Other		Total
Total Program Name	Depresation	Payroll.	Materials: <u>X</u>	Quinide		Vehieles &	Other		Total
Total Program Name [Residential]	Depresation	Payroll.	Materials: <u>X</u>	Quinide		Vehieles &	Other		Total
Total Program Name [Residential] Residential Total	Depresation	Payroll.	Materials: <u>X</u>	Quinide		Vehieles &	Gther		Tstal
Total Program Name [Residential] Residential Total [Comm/Ind.]	Depresation	Payroll.	Materials: <u>X</u>	Quinide		Vehieles &	(Other		Total

Response to Data Request 2:

The requested tables are provided below. FPUC did not use the individual components of Program Administrative & Equipment Costs to develop the utility costs for FPUC's programs. Instead in an effort to reduce cost and to address the minimal resources that a small utility like FPUC uses to administer the programs, FPUC developed the utility costs as a whole. In order to provide the tables below, FPUC used actual costs from 2014 to allocate costs to the various components.

		Program /	Administrativ	ve & Equip	ment Costs (No	ominal)			1997) 1997 - Alexandria 1997 - Alexandria
Program Name	Depreciation & Return	Payroll & & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
Residential Energy Survey	0	402146	8057	27985	37218	72126	31946	0	579478
Residential Heating & Cooling Efficiency Upgrade	0	27178	398	0	341157	4712	125662	0	499107
Residential Total	0	429324	8455	27985	378375	76838	157608	0	1078585
Commercial Heating & Cooling Efficiency Upgrade	0	4025	132	0	55255	1906	12571	0	73,889
Commercial Chiller Upgrade	0	22518	287	0	81954	2930	112944	0	220633
Commercial Reflective Roof	0	11695	215	0	12462	1974	35804	0	62150
Comm/Ind. Total	. 0	38238	634	0	149671	6810	161319	0	356672
Common Expenses	0	2569028	51473	178774	237759	460759	388150	0	3885942
Total	0	3036590	60562	206759	765805	544407	707077	0	5321199

		Program	Administra	tive & Equi	pment Costs (I	NPV)			
Program Name	Depreciation & Return	Payroll & & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
Residential Energy Survey	0	296253	5936	20616	27418	53133	23534	0	426890
Residential Heating & Cooling Efficiency Upgrade	0	20021	282	0	251323	3471	93756	0	368853
Residential Total	. 0	316274	6218	20616	278741	55604	117290	0	795743
Commercial Heating & Cooling Efficiency Upgrade	0	2965	97	0	40705	1404	9381	0	54552
Commercial Chiller Upgrade	0	15560	200	0	56957	2036	79455	0	154298
Commercial Reflective Roof	0	8559	157	0	9062	1446	24179	0	43403
Comm/Ind. Total	0	27174	454	0	106724	4886	113015	0	252253
Common Expenses	0	1892550	37919	131699	175152	339432	285942	0	2862694
Total	0	2235998	44591	152315	560617	400922	516247	0	3910690

3. For each program that includes "Outside Services" costs in the Data Request No.2, please detail what those outside services include.

Response to Data Request 3:

"Outside Services" costs in Data Request No. 2 include the following costs.

- Consulting/Sub-Contractor costs
- 4. For each program that includes Other costs in the data request above, please detail what those Other costs include.

Response to Data Request 4:

"Other" costs in Data Request No. 2 include the following costs.

- Legal costs
- Incentives (Rebates)
- Memberships and Subscriptions
- Uniforms

5. Please provide the estimated costs of each program's incentive costs, costs for the tenyear 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 Name	(Non-Recurring)	Incentives (Recurring)	Total
Residential]			
ta da anti da secondo da anti- Castlel e il del secondo da second			
Comm/Industrial]			
Common Expenses			
Telal			

1	itere neentet	spyj	
Program Name		incenticiste Resurres	Total
[Residential]			
-Residential Subtonal			
[Comm/Industrial]			
Common Expenses			

Response to Data Request 5:

The requested tables are provided below:

Program Incentives (Nominal)									
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total						
Residential Energy Survey	-	0	-						
Residential Heating & Cooling Efficiency Upgrade	125,000	0	125,000						
Residential Subtotal	125,000	0	125,000						
Commercial Heating & Cooling Efficiency Upgrade	12,500	0	12,500						
Commercial Chiller Upgrade	112,350	0	112,350						
Commercial Reflective Roof	35,000	0	35,000						
Comm/Ind. Subtotal	159,850		159,850						
Common Expenses	-	0	-						
Total	284,850	0	284,850						

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Program Incentives (NPV)									
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total						
Residential Energy Survey	n of the Constraint of State Stat	. 0	n and a second						
Residential Heating & Cooling Efficiency Upgrade	93,290	0	93,290						
Residential Subtotal	93,290	0	93,290						
Commercial Heating & Cooling Efficiency Upgrade	9,330	0	9,330						
Commercial Chiller Upgrade	79,040	0	79,040						
Commercial Reflective Roof	23,590	0	23,590						
Comm/Ind. Subtotal	111,960	0	111,960						
Common Expenses	-	0							
Total	205,250	0	205,250						

6. Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Rate Impact Measure 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.

			Benefit	S				Costs			Net
Program Name	Gen	T&D	Fuel	Other	Total	Utility	Incentives	Lost Revenues	Other	Total	
[Residential]											
Residential Subtotal											
[Comm/Industrial]											
Comm/Ind. Subtotal											
Total											

Response to Data Request 6:

The requested data is provided in the table below:

			Benefits		land and an and an	Costs					Net
Program Name	Gen	T&D	Fuel	Other	Total	Utility	Incent.	Lost . Revenues	Other	Total	Benefit
Residential Energy Survey	12,910	1,360	68,753	0	83,023	426,890	0	168,310	0	595,200	-512,177
Residential Heating & Cooling Efficiency Upgrade	1,624,950	170,810	673,004	0	2,468,764	275,597	93,286	1,647,210	0	2,016,093	452,671
Residential Subtotal	1,637,860	172,170	741,757	0	2,551,787	702,487	93,286	1,815,520	0	2,611,293	-59,506
Commercial Heating & Cooling Efficiency Upgrade	162,490	17,080	67,300	0	246,870	45,224	9,329	161,170	0	215,723	31,147
Commercial Chiller Upgrade	483,270	49,970	184,187	0	717,427	75,255	79,042	477,590	0	631,887	85,540
Commercial Reflective Roof	172,350	17,180	87,604	0	277,134	27,140	35,000	202,890	0	265,030	12,104
Comm/Ind. Subtotal	818,110	84,230	339,091	0	1,241,431	147,619	123,371	841,650	0	1,112,640	128,791
Total	2,455,970	256,400	1,080,848	0	3,793,218	850,106	216,657	2,657,170	0	3,723,933	69,285

7. 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.

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

Response to Data Request 7:

			Benefits			Costs				
Program Name	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	Net Benefit
Residential Energy Survey	12,910	1,360	68,750	0	83,020	426,890	0	0	426,890	-343,870
Residential Heating & Cooling Efficiency Upgrade	1,624,950	170,810	673,000	0	2,468,760	275,600	1,243,050	0	1,518,650	950,110
Residential Subtotal	1,637,860	172,170	741,750	0	2,551,780	702,490	1,243,050	0	1,945,540	606,240
Commercial Heating & Cooling Efficiency Upgrade	162,490	17,080	67,300	0	246,870	45,220	124,300	0	169,520	77,350
Commercial Chiller Upgrade	483,270	49,970	184,190	0	717,430	75,260	401,450	0	476,710	240,720
Commercial Reflective Roof	172,350	17,180	87,604	0	277,134	27,140	160,150	0	187,290	89,844
Comm/Ind. Subtotal	818,110	84,230	339,094	0	1,241,434	147,620	685,900	0	833,520	407,914
Total	2,455,970	256,400	1,080,844	0	3,793,214	850,110	1,928,950	0	2,779,060	1,014,154

The requested data is provided in the table below:

8. 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.

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

Response to Data Request 8:

The requested data is provided in the table below:

			Benefits				Cos	ts		n na thair ann
Program Name	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	Net Benefit
Residential Energy Survey	255,310	0	0	0	255,310	0	0	0	0	255,310
Residential Heating & Cooling Efficiency Upgrade	2,498,640	0	125,000	0	2,623,640	1,687,310	0	0	1,687,310	936,330
Residential Subtotal	2,753,950	0	125,000	· 0	2,878,950	1,687,310	0	0	1,687,310	1,191,640
Commercial Heating & Cooling Efficiency Upgrade	244,420	0	12,500	0	256,920	168,740	0	0	168,740	88,180
Commercial Chiller Upgrade	745,920	0	112,350	0	858,270	577,640	0	0	577,640	280,630
Commercial Reflective Roof	202,890	0	35,000	0	237,890	160,150	0	0	160,150	77,740
Comm/Ind. Subtotal	1,193,230	0	159,850	0	1,353,080	906,530	0	0	906,530	446,550
Total	3,947,180	0	284,850	0	4,232,030	2,593,840	0	0	2,593,840	1,638,190

9. Please provide the actual and projected Energy Conservation Cost Recovery (ECCR) 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.

ECCR Expenditures

Response to Data Request 9:

The requested data is provided in the table below. Please note that projected ECCR costs do not include specific costs associated with the Goals Setting Dockets or the DSM Plan Dockets.

Year	ECCR Expenditures
2010	\$693,331
2011	\$941,462
2012	\$659,235
2013	\$806,696
2014	\$772,612
2015	\$474,100
2016	\$480,980
2017	\$493,100
2018	\$505,490
2019	\$518,170
2020	\$545,770
2021	\$557,550
2022	\$569,580
2023	\$581,910
2024	\$594,520

10. Please provide the actual and projected monthly customer bill associated with the ECCR 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. As part of this response, please provide an electronic version of the table below in Excel format with your response.

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

Response to Data Request 10:

The requested data is provided in the table below. Historical data (2010 through 2015) includes the customer charge. Projected data does not include the customer charge since it is not avoidable with DSM. FPUC has different residential rates for under and over 1000 kwh per month, which is the basis for the historical data on 1200 kwh per month. Residential rate projections are based on a weighted average cost per kWh based on the 2014 sales for customers below and above 1000 kWh per month since a single rate is required for economic evaluation of residential programs. The projected rates in the table below are based on this weighted average projection.

Year		l Customer Wh/mo	Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak			
	ECCR Portion (\$)	Total Bill (\$)	ECCR Portion (\$)	Total Bill (S)		
2010	0.96	167.71	320	46,252.00		
2011	1.38	157.48	460	42,782.00		
2012	1.38	153.87	460	40,636.00		
2013	1.86	157.38	620	41,240.00		
2014	1.20	156.01	400	41,086.00		

Year	- 業務 (4)	l Customer	Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak			
er († 1997) De ser de la ser de La ser de la	ECCR Portion (S)	Total Bill (S)	ECCR Portion (\$)	Total Bill (\$)		
2015	1.28	167.28	428	44,562.00		
2016	0.90	157.88	299	43,913.00		
2017	0.92	157.26	306	44,109.00		
2018	0.94	157.85	312	44,305.00		
2019	0.95	155.96	318	43,675.00		
2020	1.00	164.76	333	47,728.00		
2021	1.02	165.74	339	48,055.00		
2022	1.03	166.22	344	48,216.00		
2023	1.05	168.09	350	48,839.00		
2024	1.07	168.97	355	49,133.00		

11. 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 Na	me]					
		Audit N	Aeasure Savings	(Savings @ Generator)					
Veen		Per Customer		Total Annual					
Year	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									

Response to Data Request 11:

As the smallest FEECA utility, FPUC tries to minimize the cost of program development and therefore minimize the cost to FPUC's customers. Where possible FPUC tries to use program development work conducted by the larger FEECA utilities. For the Residential Energy Survey Program which is FPUC's audit program, FPUC used the demand and energy savings from Duke Energy Florida, Inc.'s (Duke) Home Energy Check program as documented in Duke's 2013 Annual Conservation Report which was the most recent information available at the time of the

development of FPUC's Residential Energy Survey Program for the 2015 DSM Plan. FPUC was unable to determine which if any specific measures were quantifiably evaluated by Duke in either Duke's 2010 DSM Plan or Duke's 2013 Annual Conservation Report.

In developing FPUC's Residential Energy Survey Program for the 2015 DSM Plan, FPUC relied on the experience FPUC gained in conducting the Residential Energy Survey Program from FPUC's 2010 DSM Plan. The Residential Energy Survey Program provided participating customers with a conservation kit containing two CFL bulbs, weather stripping, caulk, insulators for wall sockets and light switches, and a water temperature thermometer if deemed appropriate by FPUC's energy auditor. An example of where FPUC's energy auditor would deem it not appropriate to provide the conservation kit would be for a participant with a new house that already included the weatherization measures in the conservation kit. In addition to the two CFL bulbs in the conservation kit, the Residential Energy Survey Program for the 2010 DSM plan provided eight additional CFL bulbs.

For the 2015 DSM plan, the two CFL bulbs in the conservation kit were replaced with two LED bulbs. The additional eight CFL bulbs from the 2010 DSM Plan were not included due to their short payback period. While all the components of the conservation kit save demand and energy, their quantities are small and they are intended to be more samples or hands on examples than demand and energy savings directly from the conservation kit. Thus direct savings from the conservation kit components were not quantified other than for the two LED bulbs. The demand and energy savings for the two LED bulbs were calculated based on the engineering model used in FPUC's 2010 DSM Plan.

In order to be as responsive as possible to this data request given the lack of quantifiable measures, FPUC has prepared the following two tables one showing the savings from Duke's Home Energy Check and the other showing the savings from the two LED bulbs.

	en e	T I I I I I I I I I I I I I I I I I I I	lome Energy	Check								
	Audit Measure Savings (Savings @ Generator)											
		Per Custome			Total Annual							
Year	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction						
2015	239	0.074	0.098	23,900	7.4	9.8						
2016	239	0.074	0.098	23,900	7.4	9.8						
2017	239	0.074	0.098	23,900	7.4	9.8						
2018	239	0.074	0.098	23,900	7.4	9.8						
2019	239	0.074	0.098	23,900	7.4	9.8						
2020	239	0.074	0.098	23,900	7.4	9.8						
2021	239	0.074	0.098	23,900	7.4	9.8						
2022	239	0.074	0.098	23,900	7.4	9.8						

The requested data for the Home Energy Check is provided in the table below.

	Home Energy Check									
	Audit Measure Savings (Savings @ Generator)									
				Total Annual						
Year	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction				
2023	239	0.074	0.098	23,900	7.4	9.8				
2024	239	0.074	0.098	23,900	7.4	9.8				

The requested data is for the 2 LED Bulbs (installed by FPUC auditor) is provided in the table below.

	2 LED Bulbs								
		Audit Mea	sure Savings	s (Savings @ Generator)					
]	Per Custome	1997. 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997		Total Annua				
Year	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction			
2015	146	0.059	0.059	14,600	5.9	5.9			
2016	146	0.059	0.059	14,600	5.9	5.9			
2017	146	0.059	0.059	14,600	5.9	5.9			
2018	146	0.059	0.059	14,600	5.9	5.9			
2019	146	0.059	0.059	14,600	5.9	5.9			
2020	146	0.059	0.059	14,600	5.9	5.9			
2021	146	0.059	0.059	14,600	5.9	5.9			
2022	146	0.059	0.059	14,600	5.9	5.9			
2023	146	0.059	0.059	14,600	5.9	5.9			
2024	146	0.059	0.059	14,600	5.9	5.9			

12. 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.

Response to Data Request 12:

Please see Response for No. 11.

13. Do any of the programs in the company's DSM Plan include savings associated with Compact Fluorescent Lightbulbs? If so, what baseline used?

Response to Data Request 13:

None of FPUC's programs include Compact Fluorescent Lightbulbs.

14. 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.

Response to Data Request 14:

The only FPUC program that includes a measure with an estimated 2 year or less payback period is the Residential Energy Survey Program; however, the purpose of the two LED bulbs in that program are to be samples and examples not savings measures. Please see Response for No. 11.

15. 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	n Name or DSM	Plan Combined					
	Program Savings from 2-Year Payback Measures (Savings @ Generator)								
Veer		Per Customer			Total Annual				
Year	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									

Response to Data Request 15:

As discussed in the Response for No. 11, the only program that FPUC proposes that includes measures a 2 year or less payback period is the Residential Energy Survey Program with the two LED bulbs included in the conservation kit. As discussed in the Response for No. 11, the purpose of those bulbs is to provide a sample and hands on example rather than energy and demand savings. Nevertheless, as further discussed in the Response for No. 11, the two LED bulbs do provide energy and demand savings. The two requested tables are identical to the table for the 2 LED bulbs in the Response for No. 11.

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

Response to Data Request 16:

FPUC does not own any generation assets; therefore, it purchases all of its power. For purposes of determining the Company's "avoided cost," the Commission has recognized that the appropriate analysis addresses avoided purchases under FPUC's purchased power contracts with JEA (Northeast Division) and Gulf Power (Northwest Division). The avoided costs are the avoided demand and energy charges under those contracts. The avoided demand and energy charges for each Division are weight averaged by 2014 Net Energy For Load from each of FPUC's divisions to provide a single avoided cost to evaluate DSM programs.

17. 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.

			Sil Same	Savings by N	1easure Type			
Year	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								

Response to Data Request 17:

The requested data is provided in the table below. Please note that since FPUC purchases all of its power, the avoided demand cost was developed as a single annual number. Thus, it is the same for summer and winter.

	Savings by Measure Type									
Year	1000	kWh	1 kW S	1 kW Summer		1 kW Winter		1 kW Sum & Win		
	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real		
2015	54.54	54.54	178.32	178.32	178.32	178.32	178.32	178.32		
2016	53.69	50.09	178.92	166.92	178.92	166.92	178.92	166.92		
2017	54.18	47.16	179.52	156.24	179.52	156.24	179.52	156.24		
2018	54.67	44.39	181.08	147.03	181.08	147.03	181.08	147.03		
2019	53.1	40.22	182.64	138.35	182.64	138.35	182.64	138.35		
2020	52.14	36.85	258.72	182.83	258.72	182.83	258.72	182.83		
2021	52.95	34.91	282.36	186.16	282.36	186.16	282.36	186.16		
2022	53.35	32.81	285.48	175.59	285.48	175.59	285.48	175.59		
2023	54.91	31.51	281.88	161.74	281.88	161.74	281.88	161.74		
2024	55.65	29.79	285.00	152.57	285.00	152.57	285.00	152.57		

18. Please discuss the methodology used to estimate expected participation for each program proposed by the company.

Response to Data Request 18:

Several factors were considered when projecting participation rates. When projecting participation rates for the continuation of existing programs, historical participation rates were used to establish a projection baseline.

Once a baseline was established, a qualitative projection adjustment was used to account for regulatory and program management changes (see response to Interrogatory No. 20) that are expected to impact participation rates. When projecting participation rates for the new Commercial Reflective Roof program, a qualitative projection approach was used to allow for low participation at first as the program is launched and communicated to customers and contractors; followed by an increase in projected participation levels through the sixth year of the program where participation then levels off as the program garners notoriety.

19. 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).

Response to Data Request 19:

		ctusi Par	ticipatio		
	201	2012	2013	<u>yn</u> a	
Residential Energy					
Survey	27	231	234	294	100
Residential Heating and					
Cooling Efficiency					
Upgræde	34	l 213	258	27:1	
Commercial Heating and Cooling Efficiency					
Upgrade		ļ. 11	10	12	. 15
Commercial Chiller					
Upgrade		l t	ļ (Ż	1.

The table above illustrates Actual Program Participation and Projected Program Participation for the four FPUC Programs that are seeking approval for continuation and is provided to serve as a reference for the supplemental explanation of each program below:

- <u>Residential Energy Survey</u>: The primary qualitative factor that resulted in the Projected Participation rate of 100 participants annually was due to saturation and the elimination of the 10 free CFL bulbs.
- <u>Residential Heating & Cooling Efficiency Upgrade:</u> Minimum efficiency requirements for residential air conditioners within the *Florida Building Code, Energy Conservation* will limit the amount of eligible systems within this program. This regulatory force of increased efficiency provisions will yield lower than traditional participation rates in this program.
- <u>Commercial Heating & Cooling Efficiency Upgrade</u>: Projected participation rates for this program are expected to continue at the historical rate of approximately 10 per year.
- <u>Commercial Chiller Upgrade</u>: Projected participation rates for this program are expected to continue at the historical rate of approximately 1 or 2 year.

20. Please discuss what measures the company has considered or implemented to reduce the level or growth of administrative costs of its demand-side management programs.

Response to Data Request 20:

The Company has considered and is currently implementing multiple measures to help reduce the administrative costs of its demand-side management programs. These measures include:

- Cross training of department employees so that they can assist with multiple functions within the Company's demand-side management programs.
- Assessment and improvement of processes related to the Company's demand-side management programs, identifying opportunities to administer the programs more efficiently and effectively.
- Continuous review of program expenses, evaluating opportunities to use outside services whenever it is cost effective.
- 21. Please provide the following information regarding the Company's current and proposed Conservation Demonstration and Development program:
 - a. Provide any information/documentation regarding any planned areas of research under the proposed program.
 - b. Provide any information/documentation regarding how the Company plans to implement any proposed or future projects.

Response to Data Request 21:

21(a): The Company recognizes the growing interest among customers with large demand for hot water and steam to learn more about the feasibility and viability of installing on-site combined heat and power technologies. These technologies efficiently produce hot water and/or steam while producing electricity as well. As such, the Company plans to research this technology and other onsite generation technologies under the Conservation Demonstration and Development program.

21 (b): The Company would implement these research projects by: 1) conducting a thorough research of potential technologies, 2) developing appropriate criteria for inclusion in research project, 3) developing research objectives and study methodology, 4) partnering with customers in its service territory to install and conduct research at the customer's site, 5) gathering data during study period, and 6) compiling results including recommendations for use of technology.

22. What projects are currently being evaluated under the Company's Conservation Demonstration and Development program? As part of your response, please provide the following: name and description of the project, initial startup date of the project, and year-to-date dollars spent on each project. Additionally, please provide whether or not the company believes said project(s) could result in a potential conservation program. If the company perceives a program(s) is imminent, please provide expected startup date.

	Conservation Demonstr	ation and Development	
Project Name	Description	Implementation Date	Expenditures

Response to Data Request 22:

Currently, there are no projects being evaluated under the Company's Conservation Demonstration and Development program. The Company is planning to conduct research projects that would begin in 2016 as described in the Company's responses to Data Requests Nos. 21 and 25.

23. What current programs has the company offered to its customers as a result of the Conservation Demonstration and Development program? In addition to the name of the program, please provide the description, startup date and year-to-date expenditures for each program.

Response to Data Request 23:

The Company has not offered any programs to its customers as a result of the Conservation Demonstration and Development Program. The Company did conduct an LED Street Lighting Research Project in partnership with the City of Fernandina, which resulted in the upgrading of streetlights from High Pressure Sodium lighting (HPS) to Light Emitting Diode lighting (LED).

24. Please provide the amount spent on Conservation Demonstration and Development programs for each of the past five years. Please provide the corresponding project name, implementation date, and dollar amount for each project.

Response to Data Request to 24:

In the past five years, there has only been one program initiated under the Company's Conservation Demonstration and Development program. The project information is as follows:

Project Name	Project Dates	Project Expense
LED Street Lighting Research Program	2011 – 2013 (3 years)	\$46,877.54

25. Please complete the following chart using Excel format to illustrate the Company's expected projects in the Conservation Demonstration and Development.

	Conservation Demonstration and Development – Project Name								
Year	Project Name	Description	Expected Expenditures						
2015									
2016		· · · · · · · · · · · · · · · · · · ·							
2017									
2018									
2019	- · · · · · · · · · · · · · · · · · · ·								
2020	Nara and Anna and An								
2021	·								
2022									
2023		······································							
2024									

Response to Data Request 25:

	Conservation Demo	nstration and Development -	
Year	Project Name	Description	Expected Expenditures
2015	No planned projects		
2016	Distributed Generation Opportunities	Use of combined heat and power technology or other onsite generation to produce energy more efficiently	\$50,000
2017	Distributed Generation Opportunities	Use of combined heat and power technology or other onsite generation to produce energy more efficiently	\$25,000
2018	Distributed Generation	Use of combined heat and	\$25,000

	Conservation Demonstration and Development – Project Name							
Year	Project Name	Description	Expected Expenditures					
	Opportunities	power technology or other onsite generation to produce energy more efficiently						
2019	No planned projects							
2020	No planned projects							
2021	No planned projects							
2022	No planned projects							
2023	No planned projects							
2024	No planned projects							

26. The company's DSM Plan's summary tables do not include savings associated with the Solar Pilot Programs. Please provide an estimate of what those demand and energy savings would be for 2015.

Response to Data Request 26:

During the period January 1, 2015 through April 16, 2015, FPUC has paid 8 incentives for the installation of PV systems. These 8 PV systems have the combined generating capacity of 55.25 kW, with the average size of the 8 PV systems being 6.9 kW. Rebates for these 8 systems totaled \$40,000.00, with each of the 8 participants of this rebate program receiving \$5,000.00. The annual budgetary cap for this program is \$47,233.00, and also includes rebates for solar thermal systems as well. As of April 16, 2015, the solar water thermal program has had zero participants.

Assuming the per installation energy savings depicted within the 2014 FPUC DSM Annual Report, these 8 PV installations in 2015 will yield a total reduction at the meter of 35,040 kWh, 1 kW of Winter capacity, and 20 kW of Summer capacity. These installations will also yield a total reduction at the generator of 36,701 kWh, 1 kW of Winter capacity, and 21 kW of Summer capacity.

Florida Public Utilities Company

Revised Responses to Staff's First Data Requests

Corrected Tables (Clean/Tracked Changes)

Data Request No. 1 Tables:

	Program Costs (Nominal)						
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)			
Residential Energy Survey		579,480	579,480	0.00			
Residential Heating & Cooling Efficiency Upgrade	125,000	374,110	499,110	25.04			
Residential Subtotal	125,000	953,590	1,078,590	11.59			
Commercial Heating & Cooling Efficiency Upgrade	12,500	61,390	73,890	16.92			
Commercial Chiller Upgrade	112,350	108,280	220,630	50.92			
Commercial Reflective Roof	35,000	27,150	62,150	56.32			
Comm/Ind. Subtotal	159,850	196,820	356,670	44.82			
Common Expenses	-	3,885,900	3,885,900	0.00			
Total	284,850	5,036,310	5,321,160	5.35			

Program Costs (NPV)										
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)						
Residential Energy Survey	-	426,890	426,890	0.00						
Residential Heating & Cooling Efficiency Upgrade	93,290	275,600	368,890	25.29						
Residential Subtotal	93,290	702,490	795,780	11.72						
Commercial Heating & Cooling Efficiency Upgrade	9,330	45,220	54,550	17.10						
Commercial Chiller Upgrade	79,040	75,260	154,300	51.22						
Commercial Reflective Roof	23,590	19,813	43,403	54.35						
Comm/Ind. Subtotal	111,960	140,293	252,253	44.38						
Common Expenses	-	2,862,670	2,862,670	0.00						
Total	205,250	3,704,453	3,910,703	5.25						

Data Request No. 2 Tables:

Program Administrative & Equipment Costs (Nominal)										
Program Name	Depreciation & Return	Payroll & & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total	
Residential Energy Survey	0	402146	8057	27985	37218	72126	31946	0	579478	
Residential Heating & Cooling Efficiency Upgrade	0	27178	398	0	341157	4712	125662	0	499107	
Residential Total	0	429324	8455	27985	378375	76838	157608	0	1078585	
Commercial Heating & Cooling Efficiency Upgrade	0	4025	132	0	55255	1906	12571	0	73889	
Commercial Chiller Upgrade	0	22518	287	0	81954	2930	112944	0	220633	
Commercial Reflective Roof	0	11695	215	0	12462	1974	35804	0	62150	
Comm/Ind. Total	0	38238	634	0.	149671	6810	161319	0	356672	
Common Expenses	0	2569028	51473	178774	237759	460759	388150	0	3885942	
Total	0	3036590	60562	206759	765805	544407	707077	0	5321199	

Program Administrative & Equipment Costs (NPV)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
Residential Energy Survey	0	296253	5936	20616	27418	53133	23534	0	426890
Residential Heating & Cooling Efficiency Upgrade	0	20021	282	0	251323	3471	93756	0	368853
Residential Total	0	316274	6218	20616	278741	55604	117290	0	795743
Commercial Heating & Cooling Efficiency Upgrade	0	2965	97	0	40705	1404	9381	0	54552
Commercial Chiller Upgrade	0	15650	200	0	56957	2036	79455	0	154298
Commercial Reflective Roof	0	8559	157	0	9062	1446	24179	0	43403
Comm/Ind. Total	0	27174	454	0	106724	4886	113015	O	252253
Common Expenses	0	1892550	37919	131699	175152	339432	285942	0	2862694
Total	0	2235998	44591	152315	560617	400922	516247	0	3910690

Data Request No. 5 Tables

Program Incentives (Nomina)	
Peneram Name Incentives I Incentives 1968	

	(Non-Recurring)	(Recurring)	
Residential Energy Survey	•	0	-
Residential Heating & Cooling Efficiency Upgrade	125,000	0	125,000
Residential Subtotal	125,000	0	125,000
Commercial Heating & Cooling Efficiency Upgrade	12,500	0	12,500
Commercial Chiller Upgrade	112,350	0	112,350
Commercial Reflective Roof	35,000	0	35,000
Comm/Ind. Subtotal	159,850	0	159,850
Common Expenses	-	0	-
Total	284,850	0	284,850

Program Incentives (NPV)								
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total					
Residential Energy Survey	-	0	-					
Residential Heating & Cooling Efficiency Upgrade	93,290	0	93,290					
Residential Subtotal	93,290	0	93,290					
Commercial Heating & Cooling Efficiency Upgrade	9,330	0	9,330					
Commercial Chiller Upgrade	79,040	0	79,040					
Commercial Reflective Roof	23,590	0	23,590					
Comm/Ind. Subtotal	111,960	0	111,960					
Common Expenses	-	0	-					
Total	205,250	0	205,250					

Data Request No. 9 Table

Year	ECCR Expenditures
2010	\$693,331
2011	\$941,462
2012	\$659,235
2013	\$806,696
2014	\$772,612
2015	\$474,100
2016	\$480,980
2017	\$493,100
2018	\$505,490
2019	\$518,170
2020	\$545,770
2021	\$557,550
2022	\$569,580
2023	\$581,910
2024	\$594,520

Data Request No. 10 Table

Year		l Customer. Wh/mo	Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak		
	ECCR Portion (\$)	Total Bill (\$)	ECCR Portion (\$)	Total Bill (\$)	
2010	0.96	167.71	320	46,252.00	
2011	1.38	157.48	460	42,782.00	
2012	1.38	153.87	460	40,636.00	
2013	1.86	157.38	620	41,240.00	
2014	1.20	156.01	400	41,086.00	
2015	1.28	167.28	428	44,562.00	
2016	0.90	157.88	299	43,913.00	
2017	0.92	157.26	306	44,109.00	
2018	0.94	157.85	312	44,305.00	
2019	0.95	155.96	318	43,675.00	
2020	1.00	164.76	333	47,728.00	
2021	1.02	165.74	339	48,055.00	
2022	1.03	166.22	344	48,216.00	
2023	1.05	168.09	350	48,839.00	
2024	1.07	168.97	355	49,133.00	

Data Request No. 1 Tables:

I

Program Costs (Nominal)										
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)						
Residential Energy Survey		579,480	579,480	0.00						
Residential Heating & Cooling Efficiency Upgrade	125,000	374,110	499,110	25.04						
Residential Subtotal	125,000	953,590	1,078,590	11.59						
Commercial Heating & Cooling Efficiency Upgrade	12,500	61,390	73,890	16.92						
Commercial Chiller Upgrade	74,900<u>112,350</u>	108,280	183,180<u>220,630</u>	4 0.89<u>50.92</u>						
Commercial Reflective Roof	35,000	27,150	62,150	56.32						
Comm/Ind. Subtotal	122,400 159,850	196,820	319,220<u>356,670</u>	38.3 4 <u>44.82</u>						
Common Expenses	-	3,885,900	3,885,900	0.00						
Total	247,400284,850	5,036,310	5,283,710<u>5,321,160</u>	4 <u>.685.35</u>						

Program Costs (NPV)									
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives (%)					
Residential Energy Survey	-	41 7,920<u>4</u>26,890	4 17,920<u>4</u>26,890	0.00					
Residential Heating & Cooling Efficiency Upgrade	91,410<u>93,290</u>	269,810<u>275,600</u>	361,220<u>368,890</u>	25.31 25.29					
Residential Subtotal	91,410<u>93,290</u>	687,730<u>702,490</u>	779,140<u>795,780</u>	11.73<u>11.72</u>					
Commercial Heating & Cooling Efficiency Upgrade	9,140<u>9,330</u>	44 <u>,27045,220</u>	53,410<u>54,550</u>	17.11<u>17.10</u>					
Commercial Chiller Upgrade	54,780<u>79,040</u>	73,350<u>75,260</u>	128,130<u>154,300</u>	4 2.75<u>51.22</u>					
Commercial Reflective Roof	22,930 23,590	19,390<u>19,813</u>	4 2,320<u>43,403</u>	<u>54.1854.35</u>					
Comm/Ind. Subtotal	86,850<u>111,960</u>	<u>140,293</u> 137,010	223,860 252,253	38.80<u>44.38</u>					
Common Expenses	-	2,802,550<u>2,862,670</u>	2,802,550<u>2,862,670</u>	0.00					
Total	178,260 205,250	3,627,290<u>3,704,453</u>	3,805,550<u>3,910,703</u>	4 <u>.685.25</u>					

Data Request No. 2 Tables:

	Program Administrative & Equipment Costs (Nominal)										
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total		
Residential Energy Survey	0	402146	8057	27985	37218	72126	31946	0	579478		
Residential Heating & Cooling Efficiency Upgrade	0	27178	398	0	341157	4712	125662	0	499107		
Residential Total	0	429324	8455	27985	378375	76838	157608	0	1078585		
Commercial Heating & Cooling Efficiency Upgrade	0	4025	132	0	55255	1906	12571	0	<u>6986473</u> <u>889</u>		
Commercial Chiller Upgrade	0	22518	287	0	81954	2930	112944	0	220633		
Commercial Reflective Roof	0	9167<u>11695</u>	178<u>215</u>	0	10368<u>1</u>2462	1642<u>1974</u>	5232<u>35804</u>	0	26587 <u>62</u> 150		
Comm/Ind. Total	0	35710<u>38238</u>	597<u>634</u>	0	147577<u>149671</u>	<u>64786810</u>	4 <u>3074716131</u> 2	0	3170843 56672		
Common Expenses	0	2569028	51473	178774	237759	460759	388150	0	3885942		
Total	0	3034062<u>3036</u> 590	60525 <u>60562</u>	206759	763711<u>765805</u>	<u>5440755444</u> <u>07</u>	676505<u>70707</u> <u>7</u>	()	5281611 5321199		

	Program Administrative & Equipment Costs (NPV)										
Program Name	Depreciat ion & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Reven ues (if any)	Total		
Residenti al Energy Survey	0	296253	5936	20616	27418	53133	23534	0	4 03356<u>4268</u> <u>90</u>		
Residenti al Heating & Cooling Efficienc y Upgrade	0	15339200 <u>21</u>	225<u>282</u>	0	1925442513 <u>23</u>	2660<u>3</u>471	936609 <u>3756</u>	0	304428<u>3688</u> <u>53</u>		
Residenti al Total	0	<u>31159231</u> <u>6274</u>	<u>61616218</u>	20616	2199622787 41	55793<u>5560</u> <u>4</u>	117194 117290	0	70778 4 <u>7957</u> 43		
Commer cial Heating &	0	2272 2965	74 <u>97</u>	0	31185<u>40705</u>	1076<u>1404</u>	9369<u>93</u> <u>81</u>	0	4 3976<u>54552</u>		

Cooling Efficienc y Upgrade									
Commer cial Chiller Upgrade	0	11299<u>156</u> <u>50</u>	1 44 <u>200</u>	0	4 1121<u>56957</u>	1470<u>2036</u>	79340<u>7</u> 9455	0	133374<u>1542</u> <u>98</u>
Commer cial Reflectiv e Roof	0	9423<u>8559</u>	174<u>157</u>	0	7965 <u>9062</u>	1590<u>1446</u>	661 <u>241</u> 79	0	19813<u>4</u>3403
Comm/In d. Total	0	22994271 74	392<u>454</u>	0	80271<u>10672</u> <u>4</u>	4136 <u>4886</u>	893701 13015	0	197163<u>2522</u> 53
Common Expenses	0	1892550	37919	131699	175152	339432	285942	0	2862694
Total	0	22271362 235998	44472 <u>445</u> <u>91</u>	<u>1523151</u> <u>52315</u>	475385 <u>5606</u> <u>17</u>	399361<u>400</u> <u>922</u>	492506 516247	0	3767641<u>391</u> 0690

Data Request No. 5 Tables

Program Incentives (Nominal)					
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total		
Residential Energy Survey	-	0	-		
Residential Heating & Cooling Efficiency Upgrade	125,000	0	125,000		
Residential Subtotal	125,000	0	125,000		
Commercial Heating & Cooling Efficiency Upgrade	12,500	0	12,500		
Commercial Chiller Upgrade	74,900<u>112,350</u>	0	74,900<u>112,350</u>		
Commercial Reflective Roof	35,000	0	35,000		
Comm/Ind. Subtotal	122,400 <u>159,850</u>	0	122,400<u>159,850</u>		
Common Expenses	-	0	-		
Total	247,400284,850	0	247,400284,850		

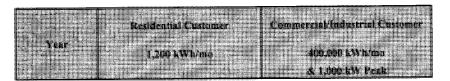
	- Program (norstin	s (NPY)	
	Incentives	maninar	
	- Non-Recommet	i (Recurring)	
Residential Energy			
Survey	-	¥	

Residential Heating & Cooling Efficiency Upgrade	93,290	0	93,290
Residential Subtotal	93,290	. 0	93,290
Commercial Heating & Cooling Efficiency Upgrade	9,330	0	9,330
Commercial Chiller Upgrade	79,040	0	79,040
Commercial Reflective Roof	23,590	0	23,590
Comm/Ind. Subtotal	111,960	0	111,960
Common Expenses	-	0	-
Total	205,250	0	205,250

Data Request No. 9 Table

Year	ECCR Expenditures
2010	\$693,331
2011	\$941,462
2012	\$659,235
2013	\$806,696
2014	\$772,612
2015	\$ 508,150<u>474,100</u>
2016	\$ 584,190<u>480,980</u>
2017	\$ 669,110<u>493,100</u>
2018	\$ 757,600<u>505,490</u>
2019	\$ 844,630<u>518,170</u>
2020	\$ 955,470<u>545,770</u>
2021	\$ 1,064,250<u>557,550</u>
2022	\$ 1,174,890<u>569,580</u>
2023	\$ 1,294,560<u>581,910</u>
2024	\$ 1,415,400<u>594,520</u>

Data Request No. 10 Table



	ECCR Portion (S)	Total Bill (S)	ECCR Portion (\$)	Total Bill (S)
2010	0.96	167.71	320	46,252.00
2011	1.38	157.48	460	42,782.00
2012	. 1.38	153.87	460	40,636.00
2013	1.86	157.38	620	41,240.00
2014	1.20	156.01	400	41,086.00
2015	1.28	167.28	428	44,562.00
2016	<u>1.090.90</u>	157.88	363<u>299</u>	43,913.00
2017	<u>1.250.92</u>	157.26	415 <u>306</u>	44,109.00
2018	1.40 <u>0.94</u>	157.85	4 67<u>312</u>	44,305.00
2019	<u>1.560.95</u>	155.96	518<u>318</u>	43,675.00
2020	1.75<u>1.00</u>	164.76	583 <u>333</u>	47,728.00
2021	1.94<u>1.02</u>	165.74	<u>646339</u>	48,055.00
2022	<u>2.131.03</u>	166.22	710<u>344</u>	48,216.00
2023	2.33<u>1.05</u>	168.09	778 <u>350</u>	48,839.00
2024	2.5 4 <u>1.07</u>	168.97	846<u>355</u>	49,133.00