

MESSER CAPARELLO & SELF, P.A.

Attorneys At Law

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June 4, 2010

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Ms. Ann Cole, Director
Commission Clerk and Administrative Services
Room 110, Easley Building
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Re: Docket No. 100158-EG

Dear Ms. Cole:

Enclosed for filing on behalf of Florida Public Utilities Company are an original and five copies of Florida Public Utilities Company's Responses to Staff's First Data Request in the above referenced docket. Also enclosed is a CD-ROM with the response and files in Excel as requested in the data request.

Please confirm receipt of these documents by stamping the enclosed extra copy of this letter with the date and time.

Thank you for your assistance.

Sincerely,

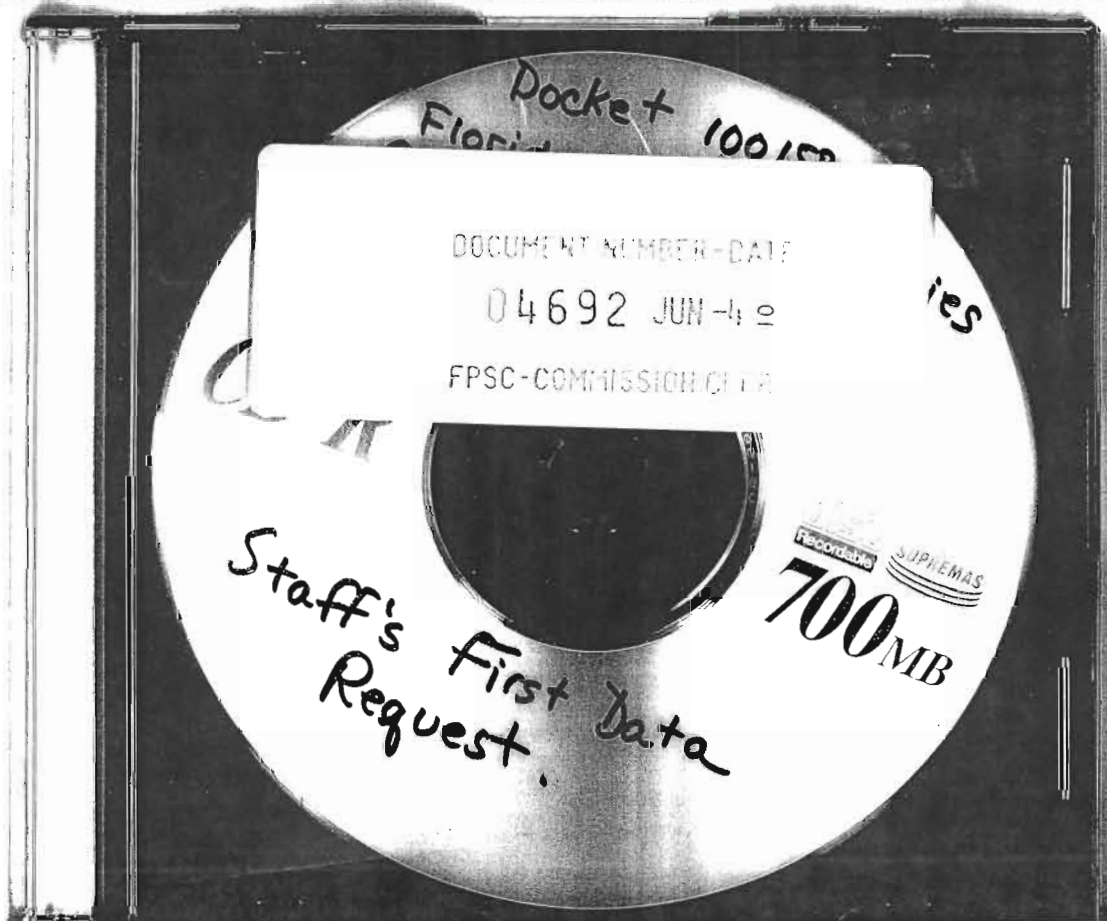
Norman H. Horton, Jr.

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NHH/amb
Enclosure
cc: Mr. Marc Sneidermann
Parties of Record

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Name	Size	Type	Date Modified	Location
Files Currently on the CD				
2010-06-04, 100158, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 1C - Program and Individual Measu.xls	153 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 1D - PSC form CE 1.1 (Financial .xls	119 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 2 - Program Savings Information.xls	24 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 3 - Program Cost Information.xls	25 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 4 - Program Cost Effectiveness I.xls	24 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 5 - Measure Information.xls	22 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 6 - Measure Savings Information.xls	19 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 7 - Measure Cost Information.xls	24 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 8 - Measure Cost Effectiveness I.xls	23 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 9 - Measure Information - Per Cu.xls	22 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 10 - Avoided Unit Information.xls	16 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 11 - Project Rate Information.xls	20 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, Copy of 12 - Line Loss Values.xls	20 KB	Microsoft Excel Worksheet	6/4/2010 1:24 PM	Files Currently on the CD
2010-06-04, 100158, FPUC's Response to Staffs First Data Req.doc	341 KB	Microsoft Word Document	6/4/2010 1:24 PM	Files Currently on the CD



CLK note: The above highlighted item can be found in pages 3 through 19.
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DOCKET NO. 100158-EG

**FLORIDA PUBLIC UTILITIES COMPANY'S RESPONSE TO
STAFF'S FIRST DATA REQUEST**

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

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

- 2. Please provide, on an individual program basis, the cumulative projected savings over the period 2010 through 2019. As part of this response, please also provide the percentage of the Commission's Authorized Goals and the Company's proposed demand and energy savings met by the program. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.**

Program Information - Savings										
Program Name		Energy Survey	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Energy Survey	Indoor Efficient Lighting	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Window Film	Chiller Upgrade
Customer Category	(Res/Com/Ind)	Residential			Commercial					
Program Type	(EE/DR/RE)	EE	EE	EE	EE	EE	EE	EE	EE	EE
Program Estimate										
Summer Demand	(MW)	1.18	2.92	0.16	0.28	0.40	0.97	0.06	0.11	0.66
Winter Demand	(MW)	1.18	1.60	0.16	0.28	0.26	0.53	0.06	0.00	0.42
Annual Energy	(GWh)	3.22	5.94	0.47	0.97	2.04	1.98	0.19	0.46	2.27
% of Commission Authorized Customer Category (Residential/Commercial) Goal										
Summer Demand	(%)	59.0%	146.1%	7.9%	12.2%	17.5%	42.4%	2.7%	4.6%	28.8%
Winter Demand	(%)	90.8%	123.3%	12.1%	46.6%	43.6%	89.0%	10.5%	0.0%	69.7%
Annual Energy	(%)	63.1%	116.4%	9.2%	12.5%	26.2%	25.4%	2.4%	5.9%	29.1%
% of Commission Authorized Total Goal										
Summer Demand	(%)	27.5%	68.0%	3.7%	6.5%	9.4%	22.7%	1.5%	2.5%	15.4%
Winter Demand	(%)	62.2%	84.3%	8.3%	14.7%	13.8%	28.1%	3.3%	0.0%	22.0%
Annual Energy	(%)	24.9%	46.0%	3.6%	7.6%	15.8%	15.3%	1.5%	3.6%	17.6%

See Also - 2 – Program Savings Information.xls

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

The cost for FPUC's conservation programs were developed from FPUC's historical expenditures. FPUC's conservation program accounting is more detailed than the breakdowns requested. The program costs are presented based on FPUC's more detailed accounting.

Program Information – Savings										
Program Name		Energy Survey	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Energy Survey	Indoor Efficient Lighting	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Window Film	Chiller Upgrade
Customer Category	(Res/Com/Ind)	Residential			Commercial					
Program Type	(EE/DR/RE)	EE	EE	EE	EE	EE	EE	EE	EE	EE
Program Cost (Cumulative NPV)										
Labor/Payroll	(\$)	448,404	53,081	57,419	2,374	95,050	17,694	22,968	22,968	8,103
Advertising	(\$)	288,825	-	-	51,505	-	-	-	-	-
Legal	(\$)	-	-	-	-	-	-	-	-	-
Outside Contract Services	(\$)	59,283	-	-	66,702	-	-	-	-	-
Vehicle Cost	(\$)	-	-	-	-	-	-	-	-	-
Materials & Supplies	(\$)	86,886	-	-	11,344	-	-	-	-	-
Travel	(\$)	-	-	-	-	-	-	-	-	-
General & Administrative	(\$)	121,996	225,012	17,832	36,946	77,469	75,004	7,133	7,133	861,303
Incentives	(\$)	-	166,529	19,448	-	31,116	55,510	7,779	7,779	-
Other	(\$)	2,486	-	-	-	-	-	-	-	-
Total	(\$)	1,007,878	444,622	94,699	168,872	203,636	148,207	37,879	37,879	869,406
Program Cost (% of Program)										
Labor/Payroll	(%)	44.5%	11.9%	60.6%	1.4%	46.7%	11.9%	60.6%	60.6%	0.9%
Advertising	(%)	28.7%	0.0%	0.0%	30.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Legal	(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outside Contract Services	(%)	5.9%	0.0%	0.0%	39.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Cost	(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Materials & Supplies	(%)	8.6%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Travel	(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
General & Administrative	(%)	12.1%	50.6%	18.8%	21.9%	38.0%	50.6%	18.8%	18.8%	99.1%
Incentives	(%)	0.0%	37.5%	20.5%	0.0%	15.3%	37.5%	20.5%	20.5%	0.0%
Other	(%)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Program Rate Impact										
Residential Rate Impact	(\$/mo)	0.39	0.18	0.04	N/A	N/A	N/A	N/A	N/A	N/A
Percentage of Total ECCR Rate	(%)	33.5%	14.8%	3.1%	5.6%	6.8%	4.9%	1.3%	1.3%	28.9%
Lost Revenues	(\$)	947,332	1,747,283	138,469	286,897	601,569	582,428	55,388	135,787	667,665

See Also - 3 – Program Cost Information.xls

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

Program Information – Savings										
Program Name		Energy Survey	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Energy Survey	Indoor Efficient Lighting	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Window Film	Chiller Upgrade
Customer Category	(Res/Com/Ind)	Residential			Commercial					
Program Type	(EE/DR/RE)	EE	EE	EE	EE	EE	EE	EE	EE	EE
E-TRC Test Results										
Total Benefits	(\$)	1,214,837	2,291,388	176,513	362,595	747,741	763,796	70,605	169,789	844,566
Total Costs	(\$)	952,125	1,628,498	323,317	157,607	228,899	542,833	129,327	64,177	318,415
Ratio	-	1.276	1.407	0.546	2.301	3.267	1.407	0.546	2.646	2.652
E-RIM Test Results										
Total Benefits	(\$)	1,214,837	2,291,388	176,513	362,595	747,741	763,796	70,605	169,789	844,566
Total Costs	(\$)	2,259,234	2,711,288	278,459	553,462	1,006,643	903,763	111,384	218,784	1,023,569
Ratio	-	0.538	0.845	0.634	0.655	0.743	0.845	0.634	0.776	0.825
Participants Test Results										
Total Benefits	(\$)	947,332	1,898,702	288,456	286,897	629,760	1,183,513	115,382	144,597	714,041
Total Costs	(\$)	947,332	1,350,154	247,958	286,897	56,398	450,051	99,183	34,033	222,838
Ratio	-	1.000	1.406	1.163	1.000	11.166	2.630	1.163	4.249	3.204
Payback Period										
E-TRC Test	(Yrs)	8	6	*	4	3	7	*	4	4
E-RIM Test	(Yrs)	*	*	*	*	*	*	*	*	*
Participants Test	(Yrs)	1	7	7	1	1	1	7	2	3

*The length of the payback period exceeds the 10-year planning period for this test. Payback period is defined as the number of years that it takes for the cumulative present worth net benefits to become positive.

See Also - 4 – Program Cost Effectiveness Information.xls

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

Program Name	Measure 1	Measure 2
Residential Energy Survey	Residential Audit	CFL Installation
Residential Heating and Cooling Efficiency	Install Energy Efficient Central A/C or Heat Pump	N/A
Residential Ceiling Insulation Upgrade	Add Ceiling Insulation to Reach at least R-30 in attics or R-11 under raised flooring	N/A
Commercial Energy Survey	Commercial Audit	CFL Installation
Commercial Indoor Efficient Lighting	Minimum 1,000 Watt Savings via ballast and lamp or lamp only replacement	N/A
Commercial Heating and Cooling Efficiency	Install Energy Efficient Central A/C or Heat Pump	N/A
Commercial Ceiling Insulation Upgrade	Add Ceiling Insulation to Reach at least R-30 in attics or R-11 under raised flooring	N/A
Commercial Window Film	Install window film or solar screens	N/A
Commercial Chiller Upgrade	Install energy efficient chiller	N/A

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

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

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
Program Estimate					
Summer Demand	(MW)	0.17	1.01	0.08	0.20
Winter Demand	(MW)	0.17	1.01	0.08	0.20
Annual Energy	(GWh)	0.57	2.65	0.44	0.53
% of Commission Authorized Customer Category (Residential/Commercial) Goal					
Summer Demand	(%)	8.6%	50.4%	3.9%	8.8%
Winter Demand	(%)	13.3%	77.5%	6.0%	33.6%
Annual Energy	(%)	11.1%	52.0%	8.7%	6.8%
% of Commission Authorized Total Goal					
Summer Demand	(%)	4.0%	23.4%	1.8%	4.7%
Winter Demand	(%)	9.1%	53.1%	4.1%	10.6%
Annual Energy	(%)	4.4%	20.5%	3.4%	4.1%

See Also - 6 – Measure Savings Information.xls

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

See response to No 3 regarding breakdown of costs.

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
Measure Cost (Cumulative NPV)					
Labor/Payroll	(\$)	224,202	224,202	1,187	1,187
Advertising	(\$)	144,413	144,413	25,753	25,753
Legal	(\$)	0	0	0	0
Outside Contract Services	(\$)	29,641	29,641	33,351	33,351
Vehicle Cost	(\$)	0	0	0	0
Materials & Supplies	(\$)	15,082	71,804	0	11,344
Travel	(\$)	0	0	0	0
General & Administrative	(\$)	21,540	100,455	16,855	20,091
Incentives	(\$)	0	0	0	0
Other	(\$)	1,243	1,243	0	0
Total	(\$)	436,120	571,758	77,146	91,726
Measure Cost (% of Measure)					
Labor/Payroll	(\$)	51.4%	39.2%	1.5%	1.3%
Advertising	(\$)	33.1%	25.3%	33.4%	28.1%
Legal	(\$)	0.0%	0.0%	0.0%	0.0%
Outside Contract Services	(\$)	6.8%	5.2%	43.2%	36.4%
Vehicle Cost	(\$)	0.0%	0.0%	0.0%	0.0%
Materials & Supplies	(\$)	3.5%	12.6%	0.0%	12.4%
Travel	(\$)	0.0%	0.0%	0.0%	0.0%
General & Administrative	(\$)	4.9%	17.6%	21.8%	21.9%
Incentives	(\$)	0.0%	0.0%	0.0%	0.0%
Other	(\$)	0.3%	0.2%	0.0%	0.0%
Measure Rate Impact					
Residential Rate Impact	(\$/mo)	0.19	0.22	N/A	N/A
Percentage of Total ECCR Rate	(%)	14.47%	18.98%	2.56%	3.04%
Lost Revenues	(\$)	167,267	780,065	130,884	156,013

See Also - 7 – Measure Cost Information.xls

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

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
E-TRC Test Results					
Total Benefits	(\$)	212,067	1,002,770	162,041	200,554
Total Costs	(\$)	435,547	571,275	76,980	91,566
Ratio	-	0.487	1.755	2.105	2.190
E-RIM Test Results					
Total Benefits	(\$)	212,067	1,002,770	162,041	200,554
Total Costs	(\$)	666,338	1,647,593	257,572	306,830
Ratio	-	0.318	0.609	0.629	0.654
Participants Test Results					
Total Benefits	(\$)	167,267	780,065	130,884	156,013
Total Costs	(\$)	0	0	0	0
Ratio	-	1.000	1.000	1.000	1.000
Payback Period					
E-TRC Test	(Yrs)	*	6	5	5
E-RIM Test	(Yrs)	*	*	*	*
Participants Test	(Yrs)	1	1	1	1

*The length of the payback period exceeds the 10-year planning period for this test. Payback period is defined as the number of years that it takes for the cumulative present worth net benefits to become positive.

See Also - 8 – Measure Cost Effectiveness Information.xls

9. Please provide, for each measure identified by the criteria above, the incentive rate provided and the estimated customer equipment cost. Indicate the amount of non-recurring expenses by category, including administrative, equipment, and incentives/rebates to customers. As part of this response, please also provide the rate for recurring expenses by category. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
Measure Incentives & Duration					
Incentive / Rebate Rate	(\$)	0	0	0	0
Customer Equipment Cost	(\$)	0	0	0	0
Estimated Life of Measure	(Years)	N/A	6.1	N/A	6.1
Non-Recurring Measure Expenses					
Administrative	(\$/Customer)	9	40	34	40
Equipment	(\$/Customer)	6	29	0	23
Incentive / Rebate (Typical)	(\$/Customer)	0	0	0	0
Recurring Measure Expenses					
Administrative	(\$/Customer/Year)	0	0	0	0
Equipment	(\$/Customer/Year)	0	0	0	0
O&M	(\$/Customer/Year)	0	0	0	0
Incentive / Rebate (Typical)	(\$/Customer/Year)	0	0	0	0

See Also - 9 Measure Cost Information – Per Customer Costs.xls

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

Avoided Unit Information			
Plant Name		Purchased Power	
Unit #		N/A	
Technical Information			
Capacity	Winter	(MW)	N/A
	Summer	(MW)	N/A
Technology Type		N/A	
Primary Fuel		N/A	
Commercial In-Service Date		N/A	
Performance Data			
Capacity Factor		(%)	N/A
Heat Rate		(Btu/kWh)	N/A
Financial Data			
Book Life		(Years)	N/A
Total Installed Cost		(\$/kW)	N/A
Fixed O&M Cost		(\$/kW-year)	N/A
Variable O&M Cost		(\$/MWh)	N/A
Avoided Fuel			
Avoided Energy Rate**		(\$/MWh)	69.40

*FPUC used its current and projected purchase power costs as the basis for the avoided costs since FPUC purchases all of its power.

**2010 Value

See Also - 10 – Avoided Unit Information.xls

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

Projected Rate Information		
Residential		
Non-Fuel Energy Rate	(cents/kWh)	1.958
Escalation Rate	(%)	2.5
Commercial		
Non-Fuel Energy Rate	(cents/kWh)	1.958
Escalation Rate	(%)	2.5
Demand Rate	(\$/kW-mo)	-
Escalation Rate	(%)	-

See Also - 11 – Project Rate Information.xls

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

Line Loss Values		
Residential		
Energy Percentage	(%)	4.53
Demand Percentage	(%)	4.53
Commercial		
Energy Percentage	(%)	4.53
Demand Percentage	(%)	4.53

See Also - 12 – Line Loss Values.xls

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

The cost-effectiveness tests in FPUC's 2010 Demand-Side Management Plan do not include costs associated with CO₂ emissions since FPUC's reference scenario of avoided costs did not include CO₂ emissions costs. JEA, one of FPUC's wholesale suppliers, provided FPUC estimates of purchase energy costs with CO₂ emissions included. FPUC is not aware of the annual cost assumed per ton of carbon dioxide equivalent or the projected emission rate per megawatt-hour assumed by JEA. The increase in purchase energy costs with CO₂ emissions were used by FPUC to develop avoided energy costs with CO₂ emission costs. There is no difference in FPUC's reference case and CO₂ emissions avoided energy costs than those provided in the Commission's review of the numeric conservation goals docket.

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

The savings attributed to the energy audit portion of FPUC's residential energy survey program were derived from Progress Energy Florida's 2008 DSM annual report for their Home Energy Check Program. The summer and winter reductions per customer were estimated to be 0.066 kW and the energy savings per customer were estimated to be 217 kWh. It is assumed that the auditor will install/provide 10 compact fluorescent bulbs to the customer. It is assumed that 23 watt compact fluorescent bulbs are used to replace 100 watt equivalent incandescent bulbs. 50 percent of the demand savings are applied to the summer and winter peak and the bulbs are assumed to be in operation 15 percent of the time.

The savings attributed to the energy audit portion of FPUC's commercial energy survey program were derived from OUC's 2010 DSM plan for their commercial energy survey program. The summer and winter reductions per customer were estimated to be 0.149 kW and the energy savings per customer were estimated to be 849 kWh. The savings attributed to the compact fluorescent portion are the same as the residential energy survey described above.

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

There are no known available tax rebates for customers for any of the measures discussed in response to questions 6-9 above.

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

FPUC did not treat photovoltaic panels for schools any differently than the other customer-side renewable energy installations.

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

FPUC did not evaluate offsetting or reducing costs for photovoltaic panels based on emergency shelter designation for schools.

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

FPUC's previously existing DSM programs listed below have undergone modifications for the 2010 DSM plan. Across the plans listed, a major reason for the modifications came about because FPUC's DSM programs are no longer affiliated with the GoodCents[®] energy efficiency standards program. The programs that have been modified are:

- Residential Energy Survey
- Residential Heating & Cooling Upgrade
- Residential Ceiling Insulation Upgrade
- Commercial Energy Survey
- Commercial Indoor Efficient Lighting

For the Residential and Commercial Energy Surveys, the audit procedures have remained much the same as before, but both of the programs have been appended to include a compact fluorescent measure. The compact fluorescent measure allows FPUC to gain additional demand and energy savings by installing up to 10 compact fluorescent bulbs to replace incandescent bulbs in locations throughout the home or business where they will be the most effective. This service is done at no additional cost to the customer.

Estimates of the savings obtained from the Energy Audit portion of the programs were redeveloped to reflect updated information that other utilities in Florida were reporting as savings from similar energy audits.

In the case of the residential energy audit, Progress Energy Florida's 2008 estimates were used for savings estimates. Previously, FPUC's residential energy survey program savings per customer at the generator were estimated to be 0.078 and 0.139 kW in the winter and summer, respectively, and 228 kWh in annual energy savings.

For commercial energy audits, Orlando Utilities' Commission 2010 estimates were used for savings estimates. Previously, FPUC's commercial technical assistance audit program savings per customer at the generator were estimated to be 1.95 kW in the winter and summer, and 6,152 kWh in annual energy savings.

Modifications were made to FPUC's Residential Heating and Cooling Upgrade program to allow for clarification on types of equipment that could qualify for a rebate and to update the energy efficiency requirements implemented by the Energy Policy Act. Original estimated savings for FPUC's Residential Heating and Cooling Upgrade program were 1.57 and 0.5 kW savings for winter and summer, respectively, and 1,549 kWh annual energy savings, per customer.

Originally, FPUC's program had two types of qualifying replacements in single-family dwellings, high-efficiency heat pumps replacing resistance-heating systems, and high-efficiency heat pumps replacing lower-efficiency heat pumps. At the time, the minimum SEER rating of new equipment was 12.0. SEER standards have risen since the forming of FPUC's Heating and Cooling Upgrade program, and the new program requires a minimum of 14.0 SEER. The new program has four replacement/installation options that qualify for rebates; heat pump replacing

resistance heat, heat pump replacing another heat pump, air conditioner replacement, or a new heat pump or air conditioner installation.

FPUC's Residential Ceiling Insulation Upgrade Program was modified to reflect updated ceiling insulation standards. New modifications to the program state that ceiling insulation levels must be increased to a minimum of R-30 in attics and R-11 under raised floorings. The program also outlines specifics concerning what types of insulation qualify for the rebate. Original estimated savings at the generator per customer were 2.51 and 0.49 kW for the winter and summer, respectively, and 1,279 kWh annual energy savings.

FPUC's Commercial Indoor Efficient Lighting Rebate Program was expanded to allow more participation. The original program only provided a rebate if a customer replaced both ballasts and lamps to achieve a minimum 1,000 watts of lighting reduction. The new program appends this program and allows a customer to receive a rebate if only lamps are replaced. The customer must still achieve a minimum of 1,000 watts of reduction, and will receive a rebate of 2.5 cents per watt reduction, instead of the 10 cents per watt reduction for replacing ballasts and lamps. The original savings estimate the commercial indoor efficient lighting program were 11.54 and 15.83 kW in the winter and summer, respectively, and 30,962 kWh annual energy savings. New savings estimates were calculated based on data from actual installs performed by FPUC.

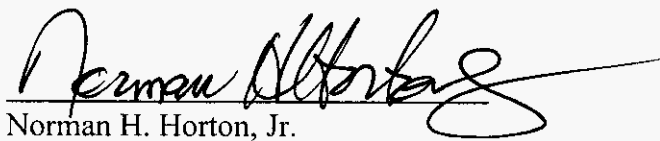
CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished by Hand Delivery (*) and/or Electronic Mail on this 4th day of June, 2010.

Jennifer Brubaker, Esq.*
Katherine Fleming, Esq.
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

George Cavros, Esq.
120 E. Oakland Park Blvd., Suite 105
Ft. Lauderdale, FLK 33334

Suzanne Brownless, PA
Suzanne Brownless
1975 Buford Blvd.
Tallahassee, FL 32308


Norman H. Horton, Jr.

File Explorer window showing the contents of a folder on the D: drive. The address bar shows "D:\\". The left sidebar includes "File and Folder Tasks" (Rename, Move, Copy, Publish, E-mail, Print, Delete) and "Other Places" (My Computer, My Documents, My Network Places). The main pane displays a list of files with columns for Name, Size, Type, and Date Modified.

Name	Size	Type	Date Modified
2010-06-04, 100158, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1C - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1D - PSC form CE 1.1 (Financial).xls	119 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 2 - Program Savings Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 3 - Program Cost Information.xls	25 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 4 - Program Cost Effectiveness I.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 5 - Measure Information.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 6 - Measure Savings Information.xls	19 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 7 - Measure Cost Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 8 - Measure Cost Effectiveness I.xls	23 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 9 - Measure Information - Per Cu.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 10 - Avoided Unit Information.xls	16 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 11 - Project Rate Information.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 12 - Line Loss Values.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, FPUC's Response to Staffs First Data Req.doc	341 KB	Microsoft Word...	6/4/2010 1:24 PM

Windows taskbar showing the active application: Microsoft Excel Worksheet. The title bar includes "Type: Microsoft Excel Worksheet Author: mir50531 Date Modified: 6/4/2010 1:24 PM Size: 104 KB". The taskbar includes the Start button, several icons, and the system tray showing the time as 8:57 AM on Wednesday, July 7, 2010. The taskbar also shows the current drive as D:\ and the active window as "2 CMS_EDIT".

R Energy Survey

PSC Form CE 1.2

PROGRAM: Residential - Energy Survey

* Avoided Generation Unit: PPA

* Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	250	250	6.94	6.94	6.94	0	1	1
2011	500	500	7.02	7.02	7.02	0	1	1
2012	750	750	7.20	7.20	7.20	0	1	1
2013	1000	1000	7.15	7.15	7.15	0	1	1
2014	1250	1250	7.23	7.23	7.23	0	1	1
2015	1500	1500	7.41	7.41	7.41	0	1	1
2016	1750	1750	7.24	7.24	7.24	0	1	1
2017	2000	2000	7.19	7.19	7.19	0	1	1
2018	2250	2250	7.35	7.35	7.35	0	1	1
2019	2500	2500	7.56	7.56	7.56	0	1	1

R Heating and Cooling Eff

PSC Form CE 1.2

PROGRAM: Residential - Heating and Cooling Efficiency

* Avoided Generation Unit: PPA
 * Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	150	150	6.94	6.94	6.94	0	1	1
2011	300	300	7.02	7.02	7.02	0	1	1
2012	450	450	7.20	7.20	7.20	0	1	1
2013	600	600	7.15	7.15	7.15	0	1	1
2014	750	750	7.23	7.23	7.23	0	1	1
2015	900	900	7.41	7.41	7.41	0	1	1
2016	1050	1050	7.24	7.24	7.24	0	1	1
2017	1200	1200	7.19	7.19	7.19	0	1	1
2018	1350	1350	7.35	7.35	7.35	0	1	1
2019	1500	1500	7.56	7.56	7.56	0	1	1

R Ceiling Insulation Upgrd

PSC Form CE 1.2

PROGRAM: Residential - Ceiling Insulation Upgrade

* Avoided Generation Unit: PPA
 * Program Generation Equivlency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	30	30	6.94	6.94	6.94	0	1	1
2011	60	60	7.02	7.02	7.02	0	1	1
2012	90	90	7.20	7.20	7.20	0	1	1
2013	120	120	7.15	7.15	7.15	0	1	1
2014	150	150	7.23	7.23	7.23	0	1	1
2015	180	180	7.41	7.41	7.41	0	1	1
2016	210	210	7.24	7.24	7.24	0	1	1
2017	240	240	7.19	7.19	7.19	0	1	1
2018	270	270	7.35	7.35	7.35	0	1	1
2019	300	300	7.56	7.56	7.56	0	1	1

C Energy Survey

PSC Form CE 1.2

PROGRAM: Commercial - Energy Survey

* Avoided Generation Unit: PPA

* Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	50	50	6.94	6.94	6.94	0	1	1
2011	100	100	7.02	7.02	7.02	0	1	1
2012	150	150	7.20	7.20	7.20	0	1	1
2013	200	200	7.15	7.15	7.15	0	1	1
2014	250	250	7.23	7.23	7.23	0	1	1
2015	300	300	7.41	7.41	7.41	0	1	1
2016	350	350	7.24	7.24	7.24	0	1	1
2017	400	400	7.19	7.19	7.19	0	1	1
2018	450	450	7.35	7.35	7.35	0	1	1
2019	500	500	7.56	7.56	7.56	0	1	1

C Indoor Efficient Ltg Prog

PSC Form CE 1.2

PROGRAM: Commercial - Indoor Efficient Lighting Program

* Avoided Generation Unit: PPA
 * Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	12	12	6.94	6.94	6.94	0	1	1
2011	24	24	7.02	7.02	7.02	0	1	1
2012	36	36	7.20	7.20	7.20	0	1	1
2013	48	48	7.15	7.15	7.15	0	1	1
2014	60	60	7.23	7.23	7.23	0	1	1
2015	72	72	7.41	7.41	7.41	0	1	1
2016	84	84	7.24	7.24	7.24	0	1	1
2017	96	96	7.19	7.19	7.19	0	1	1
2018	108	108	7.35	7.35	7.35	0	1	1
2019	120	120	7.56	7.56	7.56	0	1	1

C Heating and Cooling Eff

PSC Form CE 1.2

PROGRAM: Commercial - Heating and Cooling Efficiency

* Avoided Generation Unit: PPA
 * Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	50	50	6.94	6.94	6.94	0	1	1
2011	100	100	7.02	7.02	7.02	0	1	1
2012	150	150	7.20	7.20	7.20	0	1	1
2013	200	200	7.15	7.15	7.15	0	1	1
2014	250	250	7.23	7.23	7.23	0	1	1
2015	300	300	7.41	7.41	7.41	0	1	1
2016	350	350	7.24	7.24	7.24	0	1	1
2017	400	400	7.19	7.19	7.19	0	1	1
2018	450	450	7.35	7.35	7.35	0	1	1
2019	500	500	7.56	7.56	7.56	0	1	1

C Ceiling Insulation Upgrd

PSC Form CE 1.2

PROGRAM: Commercial - Ceiling Insulation Upgrade

* Avoided Generation Unit: PPA
 * Program Generation Equivilency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	12	12	6.94	6.94	6.94	0	1	1
2011	24	24	7.02	7.02	7.02	0	1	1
2012	36	36	7.20	7.20	7.20	0	1	1
2013	48	48	7.15	7.15	7.15	0	1	1
2014	60	60	7.23	7.23	7.23	0	1	1
2015	72	72	7.41	7.41	7.41	0	1	1
2016	84	84	7.24	7.24	7.24	0	1	1
2017	96	96	7.19	7.19	7.19	0	1	1
2018	108	108	7.35	7.35	7.35	0	1	1
2019	120	120	7.56	7.56	7.56	0	1	1

C Window Film Installation

PSC Form CE 1.2

PROGRAM: Commercial - Window Film Installation

* Avoided Generation Unit: PPA
 * Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	12	12	6.94	6.94	6.94	0	1	1
2011	24	24	7.02	7.02	7.02	0	1	1
2012	36	36	7.20	7.20	7.20	0	1	1
2013	48	48	7.15	7.15	7.15	0	1	1
2014	60	60	7.23	7.23	7.23	0	1	1
2015	72	72	7.41	7.41	7.41	0	1	1
2016	84	84	7.24	7.24	7.24	0	1	1
2017	96	96	7.19	7.19	7.19	0	1	1
2018	108	108	7.35	7.35	7.35	0	1	1
2019	120	120	7.56	7.56	7.56	0	1	1

I Chiller Upgrade

PSC Form CE 1.2

PROGRAM: Commercial - Chiller Upgrade

* Avoided Generation Unit: PPA
 * Program Generation Equivalency Factor: 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2010	1	1	6.94	6.94	6.94	0	1	1
2011	2	2	7.02	7.02	7.02	0	1	1
2012	3	3	7.20	7.20	7.20	0	1	1
2013	4	4	7.15	7.15	7.15	0	1	1
2014	5	5	7.23	7.23	7.23	0	1	1
2015	6	6	7.41	7.41	7.41	0	1	1
2016	7	7	7.24	7.24	7.24	0	1	1
2017	8	8	7.19	7.19	7.19	0	1	1
2018	9	9	7.35	7.35	7.35	0	1	1
2019	10	10	7.56	7.56	7.56	0	1	1

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Name	Size	Type	Date Modified
2010-06-04, 10015B, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 10015B, Copy of 1D - PSC form CE 1.1 (Financial).xls	119 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 2 - Program Savings Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 10015B, Copy of 6 - Measure Savings Information.xls	19 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 7 - Measure Cost Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 8 - Measure Cost Effectiveness I.xls	23 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 10015B, Copy of 10 - Avoided Unit Informabon.xls	16 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 11 - Project Rate Information.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 10015B, FPUC's Response to Staffs First Data Req.doc	341 KB	Microsoft Word...	6/4/2010 1:24 PM

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R Energy Survey - Total

Residential Energy Survey - Total Program			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	307,250	113	113
2011	307,250	113	113
2012	307,250	113	113
2013	307,250	113	113
2014	307,250	113	113
2015	307,250	113	113
2016	307,250	113	113
2017	307,250	113	113
2018	307,250	113	113
2019	307,250	113	113

R Energy Survey - Survey

Residential Energy Survey - Survey Measure			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	54,250	17	17
2011	54,250	17	17
2012	54,250	17	17
2013	54,250	17	17
2014	54,250	17	17
2015	54,250	17	17
2016	54,250	17	17
2017	54,250	17	17
2018	54,250	17	17
2019	54,250	17	17

R Energy Survey - CFL

Residential Energy Survey - CFL Measure			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	253,000	96	96
2011	253,000	96	96
2012	253,000	96	96
2013	253,000	96	96
2014	253,000	96	96
2015	253,000	96	96
2016	253,000	96	96
2017	253,000	96	96
2018	253,000	96	96
2019	253,000	96	96

R Heating and Cooling Eff

Residential Heating and Cooling Efficiency			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	566,700	153	279
2011	566,700	153	279
2012	566,700	153	279
2013	566,700	153	279
2014	566,700	153	279
2015	566,700	153	279
2016	566,700	153	279
2017	566,700	153	279
2018	566,700	153	279
2019	566,700	153	279

R Ceiling Insulation Upgrd

Residential Ceiling Insulation Upgrade			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	44,910	15	15
2011	44,910	15	15
2012	44,910	15	15
2013	44,910	15	15
2014	44,910	15	15
2015	44,910	15	15
2016	44,910	15	15
2017	44,910	15	15
2018	44,910	15	15
2019	44,910	15	15

C Energy Survey - Total

Commercial Energy Survey - Program			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	93,050	27	27
2011	93,050	27	27
2012	93,050	27	27
2013	93,050	27	27
2014	93,050	27	27
2015	93,050	27	27
2016	93,050	27	27
2017	93,050	27	27
2018	93,050	27	27
2019	93,050	27	27

C Energy Survey - Survey

Commercial Energy Survey - Survey Measure			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	42,450	7	7
2011	42,450	7	7
2012	42,450	7	7
2013	42,450	7	7
2014	42,450	7	7
2015	42,450	7	7
2016	42,450	7	7
2017	42,450	7	7
2018	42,450	7	7
2019	42,450	7	7

C Energy Survey - CFL

Commercial Energy Survey - CFL Measure			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	50,600	19	19
2011	50,600	19	19
2012	50,600	19	19
2013	50,600	19	19
2014	50,600	19	19
2015	50,600	19	19
2016	50,600	19	19
2017	50,600	19	19
2018	50,600	19	19
2019	50,600	19	19

C Indoor Efficient Ltg Prog

Commercial Indoor Efficient Lighting			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	195,108	25	38
2011	195,108	25	38
2012	195,108	25	38
2013	195,108	25	38
2014	195,108	25	38
2015	195,108	25	38
2016	195,108	25	38
2017	195,108	25	38
2018	195,108	25	38
2019	195,108	25	38

C Heating and Cooling Eff

Commercial Heating and Cooling Efficiency			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	188,900	51	93
2011	188,900	51	93
2012	188,900	51	93
2013	188,900	51	93
2014	188,900	51	93
2015	188,900	51	93
2016	188,900	51	93
2017	188,900	51	93
2018	188,900	51	93
2019	188,900	51	93

C Ceiling Insulation Upgrd

Commercial Ceiling Insulation Upgrade			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	17,964	6	6
2011	17,964	6	6
2012	17,964	6	6
2013	17,964	6	6
2014	17,964	6	6
2015	17,964	6	6
2016	17,964	6	6
2017	17,964	6	6
2018	17,964	6	6
2019	17,964	6	6

C Window Film Installation

Commercial Window Film Installation			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	44,040	0	10
2011	44,040	0	10
2012	44,040	0	10
2013	44,040	0	10
2014	44,040	0	10
2015	44,040	0	10
2016	44,040	0	10
2017	44,040	0	10
2018	44,040	0	10
2019	44,040	0	10

I Chiller Upgrade

Commercial/Industrial Chiller Upgrade			
Year	Total Annual Reduction at the Meter		
	kWh	Winter kW	Summer kW
2010	216,545	40	63
2011	216,545	40	63
2012	216,545	40	63
2013	216,545	40	63
2014	216,545	40	63
2015	216,545	40	63
2016	216,545	40	63
2017	216,545	40	63
2018	216,545	40	63
2019	216,545	40	63

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Address D:\

Name	Size	Type	Date Modified
2010-06-04, 100158, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1C - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1D - PSC form CE 1.1 (Financial .xls	119 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 2 - Program Savings Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 3 - Program Cost Information.xls	25 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 4 - Program Cost Effectiveness I.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 5 - Measure Information.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 6 - Measure Savings Information.xls	19 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 7 - Measure Cost Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 8 - Measure Cost Effectiveness I.xls	23 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 9 - Measure Information - Per Cu.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 10 - Avoided Unit Information.xls	16 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 11 - Project Rate Information.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 12 - Line Loss Values.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, FPUC's Response to Staffs First Data Req.doc	341 KB	Microsoft Word...	6/4/2010 1:24 PM

File and Folder Tasks

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R Energy Survey - Total

Residential Energy Survey - Total Program			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	321,816	118	118
2011	321,816	118	118
2012	321,816	118	118
2013	321,816	118	118
2014	321,816	118	118
2015	321,816	118	118
2016	321,816	118	118
2017	321,816	118	118
2018	321,816	118	118
2019	321,816	118	118

R Energy Survey - Survey

Residential Energy Survey - Survey Measure			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	56,822	17	17
2011	56,822	17	17
2012	56,822	17	17
2013	56,822	17	17
2014	56,822	17	17
2015	56,822	17	17
2016	56,822	17	17
2017	56,822	17	17
2018	56,822	17	17
2019	56,822	17	17

R Energy Survey - CFL

Residential Energy Survey - CFL Measure			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	264,994	101	101
2011	264,994	101	101
2012	264,994	101	101
2013	264,994	101	101
2014	264,994	101	101
2015	264,994	101	101
2016	264,994	101	101
2017	264,994	101	101
2018	264,994	101	101
2019	264,994	101	101

R Heating and Cooling Eff

Residential Heating and Cooling Efficiency			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	593,566	160	292
2011	593,566	160	292
2012	593,566	160	292
2013	593,566	160	292
2014	593,566	160	292
2015	593,566	160	292
2016	593,566	160	292
2017	593,566	160	292
2018	593,566	160	292
2019	593,566	160	292

R Ceiling Insulation Upgrd

Residential Ceiling Insulation Upgrade			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	47,039	16	16
2011	47,039	16	16
2012	47,039	16	16
2013	47,039	16	16
2014	47,039	16	16
2015	47,039	16	16
2016	47,039	16	16
2017	47,039	16	16
2018	47,039	16	16
2019	47,039	16	16

C Energy Survey - Total

Commercial Energy Survey - Program			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	97,461	28	28
2011	97,461	28	28
2012	97,461	28	28
2013	97,461	28	28
2014	97,461	28	28
2015	97,461	28	28
2016	97,461	28	28
2017	97,461	28	28
2018	97,461	28	28
2019	97,461	28	28

C Energy Survey - Survey

Commercial Energy Survey - Survey Measure			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	44,462	8	8
2011	44,462	8	8
2012	44,462	8	8
2013	44,462	8	8
2014	44,462	8	8
2015	44,462	8	8
2016	44,462	8	8
2017	44,462	8	8
2018	44,462	8	8
2019	44,462	8	8

C Energy Survey - CFL

Commercial Energy Survey - CFL Measure			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	52,999	20	20
2011	52,999	20	20
2012	52,999	20	20
2013	52,999	20	20
2014	52,999	20	20
2015	52,999	20	20
2016	52,999	20	20
2017	52,999	20	20
2018	52,999	20	20
2019	52,999	20	20

C Indoor Efficient Ltg Prog

Commercial Indoor Efficient Lighting			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	204,358	26	40
2011	204,358	26	40
2012	204,358	26	40
2013	204,358	26	40
2014	204,358	26	40
2015	204,358	26	40
2016	204,358	26	40
2017	204,358	26	40
2018	204,358	26	40
2019	204,358	26	40

C Heating and Cooling Eff

Commercial Heating and Cooling Efficiency			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	197,855	53	97
2011	197,855	53	97
2012	197,855	53	97
2013	197,855	53	97
2014	197,855	53	97
2015	197,855	53	97
2016	197,855	53	97
2017	197,855	53	97
2018	197,855	53	97
2019	197,855	53	97

C Ceiling Insulation Upgrd

Commercial Ceiling Insulation Upgrade			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	18,816	6	6
2011	18,816	6	6
2012	18,816	6	6
2013	18,816	6	6
2014	18,816	6	6
2015	18,816	6	6
2016	18,816	6	6
2017	18,816	6	6
2018	18,816	6	6
2019	18,816	6	6

C Window Film Installation

Commercial Window Film Installation			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	46,128	0	11
2011	46,128	0	11
2012	46,128	0	11
2013	46,128	0	11
2014	46,128	0	11
2015	46,128	0	11
2016	46,128	0	11
2017	46,128	0	11
2018	46,128	0	11
2019	46,128	0	11

I Chiller Upgrade

Commercial/Industrial Chiller Upgrade			
Year	Total Annual Reduction at the Generator		
	kWh	Winter kW	Summer kW
2010	226,811	42	66
2011	226,811	42	66
2012	226,811	42	66
2013	226,811	42	66
2014	226,811	42	66
2015	226,811	42	66
2016	226,811	42	66
2017	226,811	42	66
2018	226,811	42	66
2019	226,811	42	66

File Explorer window showing the contents of a folder on drive D:\. The address bar shows D:\. The left sidebar contains 'File and Folder Tasks' and 'Other Places'. The main pane displays a list of files with columns for Name, Size, Type, and Date Modified.

Name	Size	Type	Date Modified
2010-06-04, 10015B, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 1C - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 10015B, Copy of 3 - Program Cost Information.xls	25 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 10015B, Copy of 4 - Program Cost Effectiveness I.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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Windows taskbar showing the Start button, system tray with clock (8:58 AM, Wednesday), and active applications including 'Inbox - Microsof...', '11 Reminders', 'Windows Media ...', 'G:\', 'L:\psc\library\fil...', 'D:\', and '2 CMS_EDIT'.

PROGRAM: Residential - Energy Survey

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	0.45 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.47 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	1287.32 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	1229.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	470.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	0.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	0.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	0.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) AVOIDED GENERATING UNIT FUEL COST	6.94 CENTS/KWH
(17) AVOIDED GEN UNIT FUEL ESCALATION RATE	2.50 %
(18)* AVOIDED PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19)* CAPACITY COST ESCALATION RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Residential - Heating and Cooling Efficiency

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	1.86 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.95 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	3957.26 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	3778.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	229.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	1110.8 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	0.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	137.5 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Residential - Ceiling Insulation Upgrade

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	0.50 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.52 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	1568.03 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	1497.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	310.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	1020.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	306.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	375.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Commercial - Energy Survey

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	0.53 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.56 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	1949.30 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	1861.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	389.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	0.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	0.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	0.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Commercial - Indoor Efficient Lighting Program

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	3.20 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	3.35 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	17030.48 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	16259.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	1774.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	580.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	0.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	320.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

C Heating and Cooling Eff

PSC Form CE 1.1

PROGRAM: Commercial - Heating and Cooling Efficiency

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	1.86 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.95 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	3957.26 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	3778.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	229.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	1110.8 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	1500.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	137.5 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Commercial - Ceiling Insulation Upgrade

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	0.50 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.52 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	1568.03 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	1497.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	310.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	1020.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	306.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	375.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Commercial - Window Film Installation

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	0.84 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.88 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	3844.14 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	3670.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	310.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	350.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	0.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	100.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

PROGRAM: Commercial - Chiller Upgrade

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	63.17 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	66.17 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	4.53 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	226819.94 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	4.53 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.00 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	216545.00 KWH/CUST/YR

II. ECONOMIC LIFE AND K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	10 YEARS
(2) GENERATOR ECONOMIC LIFE	10 YEARS
(3) T & D ECONOMIC LIFE	10 YEARS
(4) K FACTOR FOR GENERATION	0
(5) K FACTOR FOR T & D	0
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	1

III. UTILITY AND CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	11795.0 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	0.0 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	27500.0 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.0 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8) CUSTOMER TAX CREDIT PER INSTALLATION	0.0 \$/CUST
(9) CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10) INCREASED SUPPLY COSTS	0.0 \$/CUST/YR
(11) SUPPLY COSTS ESCALATION RATE	2.5 %
(12) UTILITY DISCOUNT RATE	7.6 %
(13) UTILITY AFUDC RATE	0.0 %
(14) UTILITY NON RECURRING REBATE/INCENTIVE	6317.0 \$/CUST
(15) UTILITY RECURRING REBATE/INCENTIVE	0.0 \$/CUST/YR
(16) UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2010
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2030
(4) BASE YEAR AVOIDED GENERATING UNIT COST	0.00 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	0.00 %
(8) GENERATOR FIXED O & M COST	0.00 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	0.00 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	0.00 %
(13) INCREMENTAL GEN VARIABLE O & M COSTS	0.00 CENTS/KWH
(14) INCREMENTAL GEN VARIABLE O&M COST ESC RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0.00 %
(16) INCREMENTAL PURCHASED ENERGY COST	6.94 CENTS/KWH
(17) INCREMENTAL PURCHASED ENERGY COST ESC RATE	2.50 %
(18) INCREMENTAL PURCHASE CAPACITY COST PER KW	78.39 \$/KW/YR
(19) INCREMENTAL PURCHASE CAPACITY COST ESC RATE	2.50 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.958 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	2.5 %
(3) CUSTOMER DEMAND CHARGE PER KW	0 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	2.5 %
(5) DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	1

File Explorer window showing the contents of the D:\ drive. The address bar shows D:\. The left sidebar includes 'File and Folder Tasks' and 'Other Places'. The main pane displays a list of files and folders.

Name	Size	Type	Date Modified
2010-06-04, 100158, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1C - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1D - PSC form CE 1.1 (Financial).xls	119 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls)	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls)	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls)	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 2 - Program Savings Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 3 - Program Cost Information.xls	25 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 4 - Program Cost Effectiveness I.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 5 - Measure Information.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 6 - Measure Savings Information.xls	19 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 7 - Measure Cost Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 8 - Measure Cost Effectiveness I.xls	23 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 9 - Measure Information - Per Cu.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 10 - Avoided Unit Information.xls	16 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 11 - Project Rate Information.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 12 - Line Loss Values.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, FPUC's Response to Staffs First Data Req.doc	341 KB	Microsoft Word...	6/4/2010 1:24 PM

Taskbar showing the active application: Microsoft Excel Worksheet. The status bar indicates the file size is 120 KB and the location is My Computer. The system tray shows the time as 8:58 AM on Wednesday.

Type: Microsoft Excel Worksheet Author: mir50531 Date Modified: 6/4/2010 1:24 PM Size: 120 KB 12/0 KB My Computer

Start [Icons] 8:58 AM

Inbox - Microsof... 11 Reminders Windows Media ... G:\ L:\psc\library\fil... D:\ 2 CMS_EDIT Wednesday

R Energy Survey

TOTAL RESOURCE COST TESTS
PROGRAM: Residential - Energy Survey

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		0.0	117.5	0.0	0.0	117.5	10.0	0.0	11.2	0.0	21.1	(96.4)	(96.4)
2011		0.0	120.4	0.0	0.0	120.4	10.2	0.0	33.9	0.0	44.1	(76.3)	(167.3)
2012		0.0	123.4	0.0	0.0	123.4	10.5	0.0	57.9	0.0	68.4	(55.1)	(214.8)
2013		0.0	126.5	0.0	0.0	126.5	10.7	0.0	80.5	0.0	91.2	(35.3)	(243.1)
2014		0.0	129.7	0.0	0.0	129.7	11.0	0.0	104.7	0.0	115.7	(14.0)	(253.6)
2015		0.0	132.9	0.0	0.0	132.9	11.2	0.0	131.1	0.0	142.3	9.4	(247.1)
2016		0.0	136.3	0.0	0.0	136.3	11.5	0.0	151.4	0.0	162.9	26.6	(229.9)
2017		0.0	139.7	0.0	0.0	139.7	11.7	0.0	173.5	0.0	185.3	45.6	(202.7)
2018		0.0	143.2	0.0	0.0	143.2	12.0	0.0	201.0	0.0	213.0	69.9	(163.9)
2019		0.0	146.7	0.0	0.0	146.7	12.3	0.0	231.0	0.0	243.3	96.6	(114.1)
NOMINAL		0.0	1,316.4	0.0	0.0	1,316.4	111.2	0.0	1,176.2	0.0	1,287.4	(29.0)	
NPV		0.0	952.1	0.0	0.0	952.1	80.5	0.0	757.5	0.0	838.0	(114.1)	

R Heating and Cooling Eff

TOTAL RESOURCE COST TESTS
PROGRAM: Residential - Heating and Cooling Efficiency

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2010	0.0	34.4	166.6	0.0	201.0	24.7	0.0	20.6	0.0	45.3	(155.7)	(155.7)
2011	0.0	35.2	170.8	0.0	206.0	25.3	0.0	62.5	0.0	87.8	(118.2)	(265.5)
2012	0.0	36.1	175.1	0.0	211.1	25.9	0.0	106.8	0.0	132.7	(78.4)	(333.2)
2013	0.0	37.0	179.4	0.0	216.4	26.5	0.0	148.5	0.0	175.0	(41.4)	(366.4)
2014	0.0	37.9	183.9	0.0	221.8	27.1	0.0	193.2	0.0	220.3	(1.5)	(367.6)
2015	0.0	38.9	188.5	0.0	227.4	27.8	0.0	241.8	0.0	269.6	42.2	(338.3)
2016	0.0	39.8	193.2	0.0	233.1	28.4	0.0	279.2	0.0	307.6	74.6	(290.4)
2017	0.0	40.8	198.1	0.0	238.9	29.1	0.0	320.1	0.0	349.2	110.3	(224.5)
2018	0.0	41.9	203.0	0.0	244.9	29.8	0.0	370.7	0.0	400.5	155.6	(138.2)
2019	0.0	42.9	208.1	0.0	251.0	30.5	0.0	426.0	0.0	456.6	205.6	(32.2)
NOMINAL	0.0	384.8	1,866.7	0.0	2,251.5	275.2	0.0	2,169.4	0.0	2,444.6	193.0	
NPV	0.0	278.3	1,350.2	0.0	1,628.5	199.2	0.0	1,397.2	0.0	1,596.3	(32.2)	

R Ceiling Insulation Upgrd

TOTAL RESOURCE COST TESTS
PROGRAM: Residential - Ceiling Insulation Upgrade

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010	0.0	9.3	30.6	0.0	39.9	1.3	0.0	1.6	0.0	3.0	(36.9)	(36.9)
2011	0.0	9.5	31.4	0.0	40.9	1.4	0.0	5.0	0.0	6.3	(34.6)	(69.1)
2012	0.0	9.8	32.1	0.0	41.9	1.4	0.0	8.5	0.0	9.9	(32.1)	(96.7)
2013	0.0	10.0	33.0	0.0	43.0	1.4	0.0	11.8	0.0	13.2	(29.8)	(120.6)
2014	0.0	10.3	33.8	0.0	44.0	1.5	0.0	15.3	0.0	16.8	(27.3)	(140.9)
2015	0.0	10.5	34.6	0.0	45.1	1.5	0.0	19.2	0.0	20.7	(24.5)	(157.9)
2016	0.0	10.8	35.5	0.0	46.3	1.5	0.0	22.1	0.0	23.7	(22.6)	(172.4)
2017	0.0	11.1	36.4	0.0	47.4	1.6	0.0	25.4	0.0	26.9	(20.5)	(184.7)
2018	0.0	11.3	37.3	0.0	48.6	1.6	0.0	29.4	0.0	31.0	(17.6)	(194.5)
2019	0.0	11.6	38.2	0.0	49.8	1.6	0.0	33.8	0.0	35.4	(14.4)	(201.9)
NOMINAL	0.0	104.2	342.8	0.0	447.0	14.8	0.0	171.9	0.0	186.7	(260.3)	
NPV	0.0	75.4	248.0	0.0	323.3	10.7	0.0	110.7	0.0	121.4	(201.9)	

C Energy Survey

PROGRAM: Commercial - Energy Survey

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	P T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2010		0.0	19.5	0.0	0.0	19.5	2.4	0.0	3.4	0.0	5.7	(13.7)
2011		0.0	19.9	0.0	0.0	19.9	2.4	0.0	10.3	0.0	12.7	(7.3)
2012		0.0	20.4	0.0	0.0	20.4	2.5	0.0	17.5	0.0	20.0	(0.4)
2013		0.0	20.9	0.0	0.0	20.9	2.5	0.0	24.4	0.0	26.9	6.0
2014		0.0	21.5	0.0	0.0	21.5	2.6	0.0	31.7	0.0	34.3	12.8
2015		0.0	22.0	0.0	0.0	22.0	2.7	0.0	39.7	0.0	42.4	20.4
2016		0.0	22.6	0.0	0.0	22.6	2.7	0.0	45.8	0.0	48.6	26.0
2017		0.0	23.1	0.0	0.0	23.1	2.8	0.0	52.6	0.0	55.3	32.2
2018		0.0	23.7	0.0	0.0	23.7	2.9	0.0	60.9	0.0	63.7	40.0
2019		0.0	24.3	0.0	0.0	24.3	2.9	0.0	70.0	0.0	72.9	48.6
NOMINAL		0.0	217.9	0.0	0.0	217.9	26.3	0.0	356.2	0.0	382.5	164.6
NPV		0.0	157.6	0.0	0.0	157.6	19.1	0.0	229.4	0.0	248.5	90.9

C Indoor Efficient Ltg Prog

PROGRAM: Commercial - Indoor Efficient Lighting Program

PSC FORM

CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	P & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2010		0.0	21.3	7.0	0.0	28.2	3.4	0.0	7.1	0.0	10.5	(17.8)
2011		0.0	21.8	7.1	0.0	29.0	3.5	0.0	21.5	0.0	25.0	(4.0)
2012		0.0	22.4	7.3	0.0	29.7	3.6	0.0	36.8	0.0	40.3	10.7
2013		0.0	22.9	7.5	0.0	30.4	3.6	0.0	51.1	0.0	54.8	24.4
2014		0.0	23.5	7.7	0.0	31.2	3.7	0.0	66.5	0.0	70.2	39.1
2015		0.0	24.1	7.9	0.0	32.0	3.8	0.0	83.2	0.0	87.1	55.1
2016		0.0	24.7	8.1	0.0	32.8	3.9	0.0	96.1	0.0	100.0	67.3
2017		0.0	25.3	8.3	0.0	33.6	4.0	0.0	110.2	0.0	114.2	80.6
2018		0.0	25.9	8.5	0.0	34.4	4.1	0.0	127.6	0.0	131.7	97.3
2019		0.0	26.6	8.7	0.0	35.3	4.2	0.0	146.7	0.0	150.9	115.6
NOMINAL		0.0	238.5	78.0	0.0	316.5	37.9	0.0	746.9	0.0	784.8	468.3
NPV		0.0	172.5	56.4	0.0	228.9	27.4	0.0	481.0	0.0	508.4	279.5

C Heating and Cooling Eff

TOTAL RESOURCE COST TESTS
PROGRAM: Commercial - Heating and Cooling Efficiency

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010	0.0	11.5	55.5	0.0	67.0	8.2	0.0	6.9	0.0	15.1	(51.9)	(51.9)
2011	0.0	11.7	56.9	0.0	68.7	8.4	0.0	20.8	0.0	29.3	(39.4)	(88.5)
2012	0.0	12.0	58.4	0.0	70.4	8.6	0.0	35.6	0.0	44.2	(26.1)	(111.1)
2013	0.0	12.3	59.8	0.0	72.1	8.8	0.0	49.5	0.0	58.3	(13.8)	(122.1)
2014	0.0	12.6	61.3	0.0	73.9	9.0	0.0	64.4	0.0	73.4	(0.5)	(122.5)
2015	0.0	13.0	62.8	0.0	75.8	9.3	0.0	80.6	0.0	89.9	14.1	(112.8)
2016	0.0	13.3	64.4	0.0	77.7	9.5	0.0	93.1	0.0	102.5	24.9	(96.8)
2017	0.0	13.6	66.0	0.0	79.6	9.7	0.0	106.7	0.0	116.4	36.8	(74.8)
2018	0.0	14.0	67.7	0.0	81.6	9.9	0.0	123.6	0.0	133.5	51.9	(46.1)
2019	0.0	14.3	69.4	0.0	83.7	10.2	0.0	142.0	0.0	152.2	68.5	(10.7)
NOMINAL	0.0	128.3	622.2	0.0	750.5	91.7	0.0	723.1	0.0	814.9	64.3	
NPV	0.0	92.8	450.1	0.0	542.8	66.4	0.0	465.7	0.0	532.1	(10.7)	

C Ceiling Insulation Upgrd

TOTAL RESOURCE COST TESTS
PROGRAM: Commercial - Ceiling Insulation Upgrade

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010	0.0	3.7	12.2	0.0	16.0	0.5	0.0	0.7	0.0	1.2	(14.8)	(14.8)
2011	0.0	3.8	12.5	0.0	16.4	0.5	0.0	2.0	0.0	2.5	(13.8)	(27.6)
2012	0.0	3.9	12.9	0.0	16.8	0.6	0.0	3.4	0.0	3.9	(12.8)	(38.7)
2013	0.0	4.0	13.2	0.0	17.2	0.6	0.0	4.7	0.0	5.3	(11.9)	(48.2)
2014	0.0	4.1	13.5	0.0	17.6	0.6	0.0	6.1	0.0	6.7	(10.9)	(56.4)
2015	0.0	4.2	13.8	0.0	18.1	0.6	0.0	7.7	0.0	8.3	(9.8)	(63.2)
2016	0.0	4.3	14.2	0.0	18.5	0.6	0.0	8.9	0.0	9.5	(9.0)	(69.0)
2017	0.0	4.4	14.5	0.0	19.0	0.6	0.0	10.1	0.0	10.8	(8.2)	(73.9)
2018	0.0	4.5	14.9	0.0	19.4	0.6	0.0	11.8	0.0	12.4	(7.1)	(77.8)
2019	0.0	4.6	15.3	0.0	19.9	0.7	0.0	13.5	0.0	14.2	(5.8)	(80.8)
NOMINAL	0.0	41.7	137.1	0.0	178.8	5.9	0.0	68.8	0.0	74.7	(104.1)	
NPV	0.0	30.1	99.2	0.0	129.3	4.3	0.0	44.3	0.0	48.6	(80.8)	

C Window Film Installation

TOTAL RESOURCE COST TESTS
PROGRAM: Commercial - Window Film Installation

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010	0.0	3.7	4.2	0.0	7.9	0.9	0.0	1.6	0.0	2.5	(5.4)	(5.4)
2011	0.0	3.8	4.3	0.0	8.1	0.9	0.0	4.9	0.0	5.8	(2.3)	(7.6)
2012	0.0	3.9	4.4	0.0	8.3	0.9	0.0	8.3	0.0	9.2	0.9	(6.8)
2013	0.0	4.0	4.5	0.0	8.5	1.0	0.0	11.5	0.0	12.5	4.0	(3.6)
2014	0.0	4.1	4.6	0.0	8.7	1.0	0.0	15.0	0.0	16.0	7.2	1.8
2015	0.0	4.2	4.8	0.0	9.0	1.0	0.0	18.8	0.0	19.8	10.8	9.3
2016	0.0	4.3	4.9	0.0	9.2	1.0	0.0	21.7	0.0	22.7	13.5	18.0
2017	0.0	4.4	5.0	0.0	9.4	1.1	0.0	24.9	0.0	25.9	16.5	27.8
2018	0.0	4.5	5.1	0.0	9.6	1.1	0.0	28.8	0.0	29.9	20.2	39.1
2019	0.0	4.6	5.2	0.0	9.9	1.1	0.0	33.1	0.0	34.2	24.3	51.6
NOMINAL	0.0	41.7	47.1	0.0	88.7	9.9	0.0	168.6	0.0	178.5	89.8	
NPV	0.0	30.1	34.0	0.0	64.2	7.2	0.0	108.6	0.0	115.8	51.6	

I Chiller Upgrade

TOTAL RESOURCE COST TESTS
PROGRAM: Commercial - Chiller Upgrade

PSC FORM CE 2.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	INCREMENTAL PURCHASED P T & D BENEFITS \$(000)	BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2010	0.0	11.8	27.5	0.0	39.3	5.6	0.0	7.9	0.0	13.5	(25.8)	(25.8)
2011	0.0	12.1	28.2	0.0	40.3	5.7	0.0	23.9	0.0	29.6	(10.7)	(35.7)
2012	0.0	12.4	28.9	0.0	41.3	5.9	0.0	40.8	0.0	46.7	5.4	(31.1)
2013	0.0	12.7	29.6	0.0	42.3	6.0	0.0	56.8	0.0	62.8	20.4	(14.7)
2014	0.0	13.0	30.4	0.0	43.4	6.1	0.0	73.8	0.0	80.0	36.6	12.5
2015	0.0	13.3	31.1	0.0	44.5	6.3	0.0	92.4	0.0	98.7	54.2	50.1
2016	0.0	13.7	31.9	0.0	45.6	6.4	0.0	106.7	0.0	113.1	67.6	93.5
2017	0.0	14.0	32.7	0.0	46.7	6.6	0.0	122.3	0.0	128.9	82.2	142.6
2018	0.0	14.4	33.5	0.0	47.9	6.7	0.0	141.6	0.0	148.4	100.5	198.4
2019	0.0	14.7	34.3	0.0	49.1	6.9	0.0	162.8	0.0	169.7	120.6	260.6
NOMINAL	0.0	132.1	308.1	0.0	440.2	62.3	0.0	829.0	0.0	891.3	451.0	
NPV	0.0	95.6	222.8	0.0	318.4	45.1	0.0	533.9	0.0	579.0	260.6	

File Explorer window showing the contents of a folder on the D: drive. The address bar shows 'D:\'. The left sidebar contains 'File and Folder Tasks' and 'Other Places'. The main pane displays a list of files with columns for Name, Size, Type, and Date Modified.

Name	Size	Type	Date Modified
2010-06-04, 100158, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1B - Program and Individual Meas.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1C - Program and Individual Measu.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1D - PSC form CE 1.1 (Financial).xls	119 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 2 - Program Savings Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 3 - Program Cost Information.xls	25 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 4 - Program Cost Effectiveness I.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 5 - Measure Information.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 6 - Measure Savings Information.xls	19 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 7 - Measure Cost Information.xls	24 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 8 - Measure Cost Effectiveness I.xls	23 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 9 - Measure Information - Per Cu.xls	22 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 10 - Avoided Unit Information.xls	16 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 11 - Project Rate Information.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 12 - Line Loss Values.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, FPUC's Response to Staffs First Data Req.doc	341 KB	Microsoft Word...	6/4/2010 1:24 PM

Windows taskbar showing the Start button, taskbar icons for 'Inbox - Mikrosof...', '11 Reminders', 'Windows Media ...', 'G:\', 'L:\psc\library\fit...', 'D:\', and '2 CMS_EDIT'. The system tray shows the time as 8:58 AM and the date as Wednesday.

R Energy Survey

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Residential - Energy Survey

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN PARTICIPANTS BILL \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		13.7	0.0	0.0	0.0	13.7	0.0	0.0	0.0	0.0	13.7	13.7
2011		41.6	0.0	0.0	0.0	41.6	0.0	0.0	0.0	0.0	41.6	52.3
2012		71.1	0.0	0.0	0.0	71.1	0.0	0.0	0.0	0.0	71.1	113.7
2013		99.6	0.0	0.0	0.0	99.6	0.0	0.0	0.0	0.0	99.6	193.5
2014		129.9	0.0	0.0	0.0	129.9	0.0	0.0	0.0	0.0	129.9	290.2
2015		162.6	0.0	0.0	0.0	162.6	0.0	0.0	0.0	0.0	162.6	402.7
2016		189.9	0.0	0.0	0.0	189.9	0.0	0.0	0.0	0.0	189.9	524.8
2017		219.3	0.0	0.0	0.0	219.3	0.0	0.0	0.0	0.0	219.3	655.8
2018		254.2	0.0	0.0	0.0	254.2	0.0	0.0	0.0	0.0	254.2	796.9
2019		291.9	0.0	0.0	0.0	291.9	0.0	0.0	0.0	0.0	291.9	947.3
NOMINAL	1,473.6		0.0	0.0	0.0	1,473.6	0.0	0.0	0.0	0.0	1,473.6	
NPV	947.3		0.0	0.0	0.0	947.3	0.0	0.0	0.0	0.0	947.3	

R Heating and Cooling Eff

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Residential - Heating and Cooling Efficiency

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN PARTICIPANTS TAX BILL \$(000)	CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		25.2	0.0	20.6	0.0	45.8	166.6	0.0	0.0	166.6	(120.8)	(120.8)
2011		76.7	0.0	20.6	0.0	97.4	170.8	0.0	0.0	170.8	(73.4)	(189.0)
2012		131.1	0.0	20.6	0.0	151.7	175.1	0.0	0.0	175.1	(23.3)	(209.1)
2013		183.6	0.0	20.6	0.0	204.2	179.4	0.0	0.0	179.4	24.8	(189.2)
2014		239.5	0.0	20.6	0.0	260.1	183.9	0.0	0.0	183.9	76.2	(132.5)
2015		299.9	0.0	20.6	0.0	320.5	188.5	0.0	0.0	188.5	132.0	(41.1)
2016		350.2	0.0	20.6	0.0	370.8	193.2	0.0	0.0	193.2	177.6	73.1
2017		404.5	0.0	20.6	0.0	425.1	198.1	0.0	0.0	198.1	227.1	208.7
2018		468.8	0.0	20.6	0.0	489.4	203.0	0.0	0.0	203.0	286.4	367.6
2019		538.4	0.0	20.6	0.0	559.0	208.1	0.0	0.0	208.1	350.9	548.5
NOMINAL	2,718.0		0.0	206.3	0.0	2,924.2	1,866.7	0.0	0.0	1,866.7	1,057.5	
NPV	1,747.3		0.0	151.4	0.0	1,898.7	1,350.2	0.0	0.0	1,350.2	548.5	

R Ceiling Insulation Upgrd

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Residential - Ceiling Insulation Upgrade

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN PARTICIPANTS TAX BILL \$(000)	CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		2.0	9.2	11.3	0.0	22.4	30.6	0.0	0.0	30.6	(8.2)	(8.2)
2011		6.1	9.2	11.3	0.0	26.5	31.4	0.0	0.0	31.4	(4.9)	(12.7)
2012		10.4	9.2	11.3	0.0	30.8	32.1	0.0	0.0	32.1	(1.3)	(13.8)
2013		14.6	9.2	11.3	0.0	35.0	33.0	0.0	0.0	33.0	2.0	(12.2)
2014		19.0	9.2	11.3	0.0	39.4	33.8	0.0	0.0	33.8	5.6	(8.0)
2015		23.8	9.2	11.3	0.0	44.2	34.6	0.0	0.0	34.6	9.6	(1.4)
2016		27.8	9.2	11.3	0.0	48.2	35.5	0.0	0.0	35.5	12.7	6.8
2017		32.1	9.2	11.3	0.0	52.5	36.4	0.0	0.0	36.4	16.1	16.4
2018		37.2	9.2	11.3	0.0	57.6	37.3	0.0	0.0	37.3	20.3	27.7
2019		42.7	9.2	11.3	0.0	63.1	38.2	0.0	0.0	38.2	24.9	40.5
NOMINAL	215.4	91.8	112.5	0.0	419.7	342.8	0.0	0.0	342.8	76.9		
NPV	138.5	67.4	82.6	0.0	288.5	248.0	0.0	0.0	248.0	40.5		

C Energy Survey

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Commercial - Energy Survey

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS TAX BILL \$(000)	CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2010		4.1	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	4.1
2011		12.6	0.0	0.0	0.0	12.6	0.0	0.0	0.0	0.0	15.8
2012		21.5	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	34.4
2013		30.1	0.0	0.0	0.0	30.1	0.0	0.0	0.0	0.0	58.6
2014		39.3	0.0	0.0	0.0	39.3	0.0	0.0	0.0	0.0	87.9
2015		49.2	0.0	0.0	0.0	49.2	0.0	0.0	0.0	0.0	122.0
2016		57.5	0.0	0.0	0.0	57.5	0.0	0.0	0.0	0.0	158.9
2017		66.4	0.0	0.0	0.0	66.4	0.0	0.0	0.0	0.0	198.6
2018		77.0	0.0	0.0	0.0	77.0	0.0	0.0	0.0	0.0	241.3
2019		88.4	0.0	0.0	0.0	88.4	0.0	0.0	0.0	0.0	286.9
NOMINAL	446.3		0.0	0.0	0.0	446.3	0.0	0.0	0.0	0.0	446.3
NPV	286.9		0.0	0.0	0.0	286.9	0.0	0.0	0.0	0.0	286.9

C Indoor Efficient Ltg Prog

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Commercial - Indoor Efficient Lighting Program

PSC FORM CE 2.4

(1) YEAR	(2) SAVINGS IN PARTICIPANTS TAX BILL \$(000)	(3) CREDITS \$(000)	(4) UTILITY REBATES \$(000)	(5) OTHER BENEFITS \$(000)	(6) TOTAL BENEFITS \$(000)	(7) CUSTOMER EQUIPMENT COSTS \$(000)	(8) CUSTOMER O & M COSTS \$(000)	(9) OTHER COSTS \$(000)	(10) TOTAL COSTS \$(000)	(11) NET BENEFITS \$(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		8.7	0.0	3.8	0.0	12.5	7.0	0.0	0.0	7.0	5.6	5.6
2011		26.4	0.0	3.8	0.0	30.3	7.1	0.0	0.0	7.1	23.1	27.0
2012		45.1	0.0	3.8	0.0	49.0	7.3	0.0	0.0	7.3	41.7	63.0
2013		63.2	0.0	3.8	0.0	67.1	7.5	0.0	0.0	7.5	59.6	110.8
2014		82.5	0.0	3.8	0.0	86.3	7.7	0.0	0.0	7.7	78.6	169.3
2015		103.2	0.0	3.8	0.0	107.1	7.9	0.0	0.0	7.9	99.2	238.0
2016		120.6	0.0	3.8	0.0	124.4	8.1	0.0	0.0	8.1	116.3	312.8
2017		139.3	0.0	3.8	0.0	143.1	8.3	0.0	0.0	8.3	134.8	393.3
2018		161.4	0.0	3.8	0.0	165.2	8.5	0.0	0.0	8.5	156.8	480.3
2019		185.4	0.0	3.8	0.0	189.2	8.7	0.0	0.0	8.7	180.5	573.4
NOMINAL		935.8	0.0	38.4	0.0	974.2	78.0	0.0	0.0	78.0	896.2	
NPV		601.6	0.0	28.2	0.0	629.8	56.4	0.0	0.0	56.4	573.4	

C Heating and Cooling Eff

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Commercial - Heating and Cooling Efficiency

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN BILL \$(000)	PARTICIPANTS TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		8.4	75.0	6.9	0.0	90.3	55.5	0.0	0.0	55.5	34.7	34.7
2011		25.6	75.0	6.9	0.0	107.5	56.9	0.0	0.0	56.9	50.5	81.7
2012		43.7	75.0	6.9	0.0	125.6	58.4	0.0	0.0	58.4	67.2	139.7
2013		61.2	75.0	6.9	0.0	143.1	59.8	0.0	0.0	59.8	83.3	206.5
2014		79.8	75.0	6.9	0.0	161.7	61.3	0.0	0.0	61.3	100.4	281.3
2015		100.0	75.0	6.9	0.0	181.8	62.8	0.0	0.0	62.8	119.0	363.6
2016		116.7	75.0	6.9	0.0	198.6	64.4	0.0	0.0	64.4	134.2	449.9
2017		134.8	75.0	6.9	0.0	216.7	66.0	0.0	0.0	66.0	150.7	539.9
2018		156.3	75.0	6.9	0.0	238.1	67.7	0.0	0.0	67.7	170.5	634.5
2019		179.5	75.0	6.9	0.0	261.3	69.4	0.0	0.0	69.4	192.0	733.5
NOMINAL		906.0	750.0	68.8	0.0	1,724.7	622.2	0.0	0.0	622.2	1,102.5	
NPV		582.4	550.6	50.5	0.0	1,183.5	450.1	0.0	0.0	450.1	733.5	

C Ceiling Insulation Upgrd

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Commercial - Ceiling Insulation Upgrade

PSC FORM CE 2.4

(1) YEAR	(2) SAVINGS IN PARTICIPANTS TAX BILL \$(000)	(3) CREDITS \$(000)	(4) UTILITY REBATES \$(000)	(5) OTHER BENEFITS \$(000)	(6) TOTAL BENEFITS \$(000)	(7) CUSTOMER EQUIPMENT COSTS \$(000)	(8) CUSTOMER O & M COSTS \$(000)	(9) OTHER COSTS \$(000)	(10) TOTAL COSTS \$(000)	(11) NET BENEFITS \$(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		0.8	3.7	4.5	0.0	9.0	12.2	0.0	0.0	12.2	(3.3)	(3.3)
2011		2.4	3.7	4.5	0.0	10.6	12.5	0.0	0.0	12.5	(1.9)	(5.1)
2012		4.2	3.7	4.5	0.0	12.3	12.9	0.0	0.0	12.9	(0.5)	(5.5)
2013		5.8	3.7	4.5	0.0	14.0	13.2	0.0	0.0	13.2	0.8	(4.9)
2014		7.6	3.7	4.5	0.0	15.8	13.5	0.0	0.0	13.5	2.3	(3.2)
2015		9.5	3.7	4.5	0.0	17.7	13.8	0.0	0.0	13.8	3.8	(0.6)
2016		11.1	3.7	4.5	0.0	19.3	14.2	0.0	0.0	14.2	5.1	2.7
2017		12.8	3.7	4.5	0.0	21.0	14.5	0.0	0.0	14.5	6.4	6.6
2018		14.9	3.7	4.5	0.0	23.0	14.9	0.0	0.0	14.9	8.1	11.1
2019		17.1	3.7	4.5	0.0	25.2	15.3	0.0	0.0	15.3	10.0	16.2
NOMINAL		86.2	36.7	45.0	0.0	167.9	137.1	0.0	0.0	137.1	30.7	
NPV		55.4	27.0	33.0	0.0	115.4	99.2	0.0	0.0	99.2	16.2	

C Window Film Installation

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Commercial - Window Film Installation

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN PARTICIPANTS TAX BILL \$(000)	CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		2.0	0.0	1.2	0.0	3.2	4.2	0.0	0.0	4.2	(1.0)	(1.0)
2011		6.0	0.0	1.2	0.0	7.2	4.3	0.0	0.0	4.3	2.9	1.6
2012		10.2	0.0	1.2	0.0	11.4	4.4	0.0	0.0	4.4	7.0	7.6
2013		14.3	0.0	1.2	0.0	15.5	4.5	0.0	0.0	4.5	10.9	16.4
2014		18.6	0.0	1.2	0.0	19.8	4.6	0.0	0.0	4.6	15.2	27.7
2015		23.3	0.0	1.2	0.0	24.5	4.8	0.0	0.0	4.8	19.8	41.4
2016		27.2	0.0	1.2	0.0	28.4	4.9	0.0	0.0	4.9	23.5	56.5
2017		31.4	0.0	1.2	0.0	32.6	5.0	0.0	0.0	5.0	27.6	73.0
2018		36.4	0.0	1.2	0.0	37.6	5.1	0.0	0.0	5.1	32.5	91.1
2019		41.8	0.0	1.2	0.0	43.0	5.2	0.0	0.0	5.2	37.8	110.6
NOMINAL		211.2	0.0	12.0	0.0	223.2	47.1	0.0	0.0	47.1	176.2	
NPV		135.8	0.0	8.8	0.0	144.6	34.0	0.0	0.0	34.0	110.6	

I Chiller Upgrade

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Commercial - Chiller Upgrade

PSC FORM CE 2.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN PARTICIPANTS TAX BILL \$(000)	CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2010		9.6	0.0	6.3	0.0	16.0	27.5	0.0	0.0	27.5	(11.5)	(11.5)
2011		29.3	0.0	6.3	0.0	35.6	28.2	0.0	0.0	28.2	7.5	(4.6)
2012		50.1	0.0	6.3	0.0	56.4	28.9	0.0	0.0	28.9	27.5	19.1
2013		70.2	0.0	6.3	0.0	76.5	29.6	0.0	0.0	29.6	46.9	56.7
2014		91.5	0.0	6.3	0.0	97.8	30.4	0.0	0.0	30.4	67.5	107.0
2015		114.6	0.0	6.3	0.0	120.9	31.1	0.0	0.0	31.1	89.8	169.1
2016		133.8	0.0	6.3	0.0	140.1	31.9	0.0	0.0	31.9	108.3	238.7
2017		154.6	0.0	6.3	0.0	160.9	32.7	0.0	0.0	32.7	128.2	315.3
2018		179.1	0.0	6.3	0.0	185.5	33.5	0.0	0.0	33.5	152.0	399.6
2019		205.7	0.0	6.3	0.0	212.0	34.3	0.0	0.0	34.3	177.7	491.2
NOMINAL	1,038.6		0.0	63.2	0.0	1,101.8	308.1	0.0	0.0	308.1	793.7	
NPV	667.7		0.0	46.4	0.0	714.0	222.8	0.0	0.0	222.8	491.2	

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R Energy Survey

RATE IMPACT TEST
PROGRAM: Residential - Energy Survey

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	117.5	0.0	13.7	0.0	131.2	21.1	0.0	0.0	0.0	21.1	(110.0)	(110.0)
2011	0.0	120.4	0.0	41.6	0.0	162.0	44.1	0.0	0.0	0.0	44.1	(117.9)	(219.6)
2012	0.0	123.4	0.0	71.1	0.0	194.5	68.4	0.0	0.0	0.0	68.4	(126.2)	(328.5)
2013	0.0	126.5	0.0	99.6	0.0	226.1	91.2	0.0	0.0	0.0	91.2	(134.9)	(436.6)
2014	0.0	129.7	0.0	129.9	0.0	259.6	115.7	0.0	0.0	0.0	115.7	(143.9)	(543.8)
2015	0.0	132.9	0.0	162.6	0.0	295.5	142.3	0.0	0.0	0.0	142.3	(153.2)	(649.8)
2016	0.0	136.3	0.0	189.9	0.0	326.1	162.9	0.0	0.0	0.0	162.9	(163.3)	(754.8)
2017	0.0	139.7	0.0	219.3	0.0	359.0	185.3	0.0	0.0	0.0	185.3	(173.7)	(858.5)
2018	0.0	143.2	0.0	254.2	0.0	397.3	213.0	0.0	0.0	0.0	213.0	(184.3)	(960.8)
2019	0.0	146.7	0.0	291.9	0.0	438.6	243.3	0.0	0.0	0.0	243.3	(195.3)	(1,061.5)
NOMINAL	0.0	1,316.4	0.0	1,473.6	0.0	2,790.0	1,287.4	0.0	0.0	0.0	1,287.4	(1,502.6)	
NPV	0.0	952.1	0.0	947.3	0.0	1,899.5	838.0	0.0	0.0	0.0	838.0	(1,061.5)	

R Heating and Cooling Eff

RATE IMPACT TEST
PROGRAM: Residential - Heating and Cooling Efficiency

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	34.4	20.6	25.2	0.0	80.2	45.3	0.0	0.0	0.0	45.3	(34.9)	(34.9)
2011	0.0	35.2	20.6	76.7	0.0	132.6	87.8	0.0	0.0	0.0	87.8	(44.8)	(76.5)
2012	0.0	36.1	20.6	131.1	0.0	187.8	132.7	0.0	0.0	0.0	132.7	(55.1)	(124.1)
2013	0.0	37.0	20.6	183.6	0.0	241.2	175.0	0.0	0.0	0.0	175.0	(66.2)	(177.2)
2014	0.0	37.9	20.6	239.5	0.0	298.1	220.3	0.0	0.0	0.0	220.3	(77.8)	(235.1)
2015	0.0	38.9	20.6	299.9	0.0	359.4	269.6	0.0	0.0	0.0	269.6	(89.8)	(297.2)
2016	0.0	39.8	20.6	350.2	0.0	410.7	307.6	0.0	0.0	0.0	307.6	(103.0)	(363.5)
2017	0.0	40.8	20.6	404.5	0.0	466.0	349.2	0.0	0.0	0.0	349.2	(116.8)	(433.2)
2018	0.0	41.9	20.6	468.8	0.0	531.3	400.5	0.0	0.0	0.0	400.5	(130.8)	(505.8)
2019	0.0	42.9	20.6	538.4	0.0	601.9	456.6	0.0	0.0	0.0	456.6	(145.3)	(580.7)
NOMINAL	0.0	384.8	206.3	2,718.0	0.0	3,309.1	2,444.6	0.0	0.0	0.0	2,444.6	(864.5)	
NPV	0.0	278.3	151.4	1,747.3	0.0	2,177.0	1,596.3	0.0	0.0	0.0	1,596.3	(580.7)	

R Ceiling Insulation Upgrd

RATE IMPACT TEST
PROGRAM: Residential - Ceiling Insulation Upgrade

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	9.3	11.3	2.0	0.0	22.5	3.0	0.0	0.0	0.0	3.0	(19.6)	(19.6)
2011	0.0	9.5	11.3	6.1	0.0	26.9	6.3	0.0	0.0	0.0	6.3	(20.6)	(38.7)
2012	0.0	9.8	11.3	10.4	0.0	31.4	9.9	0.0	0.0	0.0	9.9	(21.6)	(57.3)
2013	0.0	10.0	11.3	14.6	0.0	35.8	13.2	0.0	0.0	0.0	13.2	(22.6)	(75.4)
2014	0.0	10.3	11.3	19.0	0.0	40.5	16.8	0.0	0.0	0.0	16.8	(23.7)	(93.1)
2015	0.0	10.5	11.3	23.8	0.0	45.5	20.7	0.0	0.0	0.0	20.7	(24.9)	(110.3)
2016	0.0	10.8	11.3	27.8	0.0	49.8	23.7	0.0	0.0	0.0	23.7	(26.1)	(127.1)
2017	0.0	11.1	11.3	32.1	0.0	54.4	26.9	0.0	0.0	0.0	26.9	(27.4)	(143.5)
2018	0.0	11.3	11.3	37.2	0.0	59.7	31.0	0.0	0.0	0.0	31.0	(28.8)	(159.5)
2019	0.0	11.6	11.3	42.7	0.0	65.5	35.4	0.0	0.0	0.0	35.4	(30.1)	(175.0)
NOMINAL	0.0	104.2	112.5	215.4	0.0	432.1	186.7	0.0	0.0	0.0	186.7	(245.4)	
NPV	0.0	75.4	82.6	138.5	0.0	296.4	121.4	0.0	0.0	0.0	121.4	(175.0)	

C Energy Survey

RATE IMPACT TEST
PROGRAM: Commercial - Energy Survey

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	19.5	0.0	4.1	0.0	23.6	5.7	0.0	0.0	0.0	5.7	(17.8)	(17.8)
2011	0.0	19.9	0.0	12.6	0.0	32.5	12.7	0.0	0.0	0.0	12.7	(19.9)	(36.3)
2012	0.0	20.4	0.0	21.5	0.0	42.0	20.0	0.0	0.0	0.0	20.0	(21.9)	(55.2)
2013	0.0	20.9	0.0	30.1	0.0	51.1	26.9	0.0	0.0	0.0	26.9	(24.2)	(74.6)
2014	0.0	21.5	0.0	39.3	0.0	60.8	34.3	0.0	0.0	0.0	34.3	(26.5)	(94.3)
2015	0.0	22.0	0.0	49.2	0.0	71.2	42.4	0.0	0.0	0.0	42.4	(28.9)	(114.3)
2016	0.0	22.6	0.0	57.5	0.0	80.1	48.6	0.0	0.0	0.0	48.6	(31.5)	(134.6)
2017	0.0	23.1	0.0	66.4	0.0	89.5	55.3	0.0	0.0	0.0	55.3	(34.2)	(155.0)
2018	0.0	23.7	0.0	77.0	0.0	100.7	63.7	0.0	0.0	0.0	63.7	(37.0)	(175.5)
2019	0.0	24.3	0.0	88.4	0.0	112.7	72.9	0.0	0.0	0.0	72.9	(39.8)	(196.0)
NOMINAL	0.0	217.9	0.0	446.3	0.0	664.2	382.5	0.0	0.0	0.0	382.5	(281.6)	
NPV	0.0	157.6	0.0	286.9	0.0	444.5	248.5	0.0	0.0	0.0	248.5	(196.0)	

C Indoor Efficient Ltg Prog

RATE IMPACT TEST
PROGRAM: Commercial - Indoor Efficient Lighting Program

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	21.3	3.8	8.7	0.0	33.8	10.5	0.0	0.0	0.0	10.5	(23.3)	(23.3)
2011	0.0	21.8	3.8	26.4	0.0	52.1	25.0	0.0	0.0	0.0	25.0	(27.1)	(48.5)
2012	0.0	22.4	3.8	45.1	0.0	71.3	40.3	0.0	0.0	0.0	40.3	(31.0)	(75.2)
2013	0.0	22.9	3.8	63.2	0.0	90.0	54.8	0.0	0.0	0.0	54.8	(35.2)	(103.5)
2014	0.0	23.5	3.8	82.5	0.0	109.8	70.2	0.0	0.0	0.0	70.2	(39.6)	(132.9)
2015	0.0	24.1	3.8	103.2	0.0	131.2	87.1	0.0	0.0	0.0	87.1	(44.1)	(163.5)
2016	0.0	24.7	3.8	120.6	0.0	149.1	100.0	0.0	0.0	0.0	100.0	(49.1)	(195.0)
2017	0.0	25.3	3.8	139.3	0.0	168.4	114.2	0.0	0.0	0.0	114.2	(54.2)	(227.4)
2018	0.0	25.9	3.8	161.4	0.0	191.2	131.7	0.0	0.0	0.0	131.7	(59.5)	(260.4)
2019	0.0	26.6	3.8	185.4	0.0	215.8	150.9	0.0	0.0	0.0	150.9	(64.9)	(293.8)
NOMINAL	0.0	238.5	38.4	935.8	0.0	1,212.7	784.8	0.0	0.0	0.0	784.8	(427.9)	
NPV	0.0	172.5	28.2	601.6	0.0	802.3	508.4	0.0	0.0	0.0	508.4	(293.8)	

C Heating and Cooling Eff

RATE IMPACT TEST
PROGRAM: Commercial - Heating and Cooling Efficiency

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	11.5	6.9	8.4	0.0	26.7	15.1	0.0	0.0	0.0	15.1	(11.6)	(11.6)
2011	0.0	11.7	6.9	25.6	0.0	44.2	29.3	0.0	0.0	0.0	29.3	(14.9)	(25.5)
2012	0.0	12.0	6.9	43.7	0.0	62.6	44.2	0.0	0.0	0.0	44.2	(18.4)	(41.4)
2013	0.0	12.3	6.9	61.2	0.0	80.4	58.3	0.0	0.0	0.0	58.3	(22.1)	(59.1)
2014	0.0	12.6	6.9	79.8	0.0	99.4	73.4	0.0	0.0	0.0	73.4	(25.9)	(78.4)
2015	0.0	13.0	6.9	100.0	0.0	119.8	89.9	0.0	0.0	0.0	89.9	(29.9)	(99.1)
2016	0.0	13.3	6.9	116.7	0.0	136.9	102.5	0.0	0.0	0.0	102.5	(34.3)	(121.2)
2017	0.0	13.6	6.9	134.8	0.0	155.3	116.4	0.0	0.0	0.0	116.4	(38.9)	(144.4)
2018	0.0	14.0	6.9	156.3	0.0	177.1	133.5	0.0	0.0	0.0	133.5	(43.6)	(168.6)
2019	0.0	14.3	6.9	179.5	0.0	200.6	152.2	0.0	0.0	0.0	152.2	(48.4)	(193.6)
NOMINAL	0.0	128.3	68.8	906.0	0.0	1,103.0	814.9	0.0	0.0	0.0	814.9	(288.2)	
NPV	0.0	92.8	50.5	582.4	0.0	725.7	532.1	0.0	0.0	0.0	532.1	(193.6)	

C Ceiling Insulation Upgrd

RATE IMPACT TEST
PROGRAM: Commercial - Ceiling Insulation Upgrade

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	3.7	4.5	0.8	0.0	9.0	1.2	0.0	0.0	0.0	1.2	(7.8)	(7.8)
2011	0.0	3.8	4.5	2.4	0.0	10.7	2.5	0.0	0.0	0.0	2.5	(8.2)	(15.5)
2012	0.0	3.9	4.5	4.2	0.0	12.6	3.9	0.0	0.0	0.0	3.9	(8.6)	(22.9)
2013	0.0	4.0	4.5	5.8	0.0	14.3	5.3	0.0	0.0	0.0	5.3	(9.0)	(30.2)
2014	0.0	4.1	4.5	7.6	0.0	16.2	6.7	0.0	0.0	0.0	6.7	(9.5)	(37.2)
2015	0.0	4.2	4.5	9.5	0.0	18.2	8.3	0.0	0.0	0.0	8.3	(10.0)	(44.1)
2016	0.0	4.3	4.5	11.1	0.0	19.9	9.5	0.0	0.0	0.0	9.5	(10.5)	(50.8)
2017	0.0	4.4	4.5	12.8	0.0	21.7	10.8	0.0	0.0	0.0	10.8	(11.0)	(57.4)
2018	0.0	4.5	4.5	14.9	0.0	23.9	12.4	0.0	0.0	0.0	12.4	(11.5)	(63.8)
2019	0.0	4.6	4.5	17.1	0.0	26.2	14.2	0.0	0.0	0.0	14.2	(12.1)	(70.0)
NOMINAL	0.0	41.7	45.0	86.2	0.0	172.8	74.7	0.0	0.0	0.0	74.7	(98.1)	
NPV	0.0	30.1	33.0	55.4	0.0	118.6	48.6	0.0	0.0	0.0	48.6	(70.0)	

C Window Film Installation

RATE IMPACT TEST
PROGRAM: Commercial - Window Film Installation

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	3.7	1.2	2.0	0.0	6.9	2.5	0.0	0.0	0.0	2.5	(4.4)	(4.4)
2011	0.0	3.8	1.2	6.0	0.0	11.0	5.8	0.0	0.0	0.0	5.8	(5.2)	(9.2)
2012	0.0	3.9	1.2	10.2	0.0	15.3	9.2	0.0	0.0	0.0	9.2	(6.1)	(14.5)
2013	0.0	4.0	1.2	14.3	0.0	19.5	12.5	0.0	0.0	0.0	12.5	(7.0)	(20.0)
2014	0.0	4.1	1.2	18.6	0.0	23.9	16.0	0.0	0.0	0.0	16.0	(7.9)	(26.0)
2015	0.0	4.2	1.2	23.3	0.0	28.7	19.8	0.0	0.0	0.0	19.8	(8.9)	(32.1)
2016	0.0	4.3	1.2	27.2	0.0	32.7	22.7	0.0	0.0	0.0	22.7	(10.0)	(38.6)
2017	0.0	4.4	1.2	31.4	0.0	37.1	25.9	0.0	0.0	0.0	25.9	(11.1)	(45.2)
2018	0.0	4.5	1.2	36.4	0.0	42.2	29.9	0.0	0.0	0.0	29.9	(12.3)	(52.0)
2019	0.0	4.6	1.2	41.8	0.0	47.7	34.2	0.0	0.0	0.0	34.2	(13.5)	(59.0)
NOMINAL	0.0	41.7	12.0	211.2	0.0	264.9	178.5	0.0	0.0	0.0	178.5	(86.4)	
NPV	0.0	30.1	8.8	135.8	0.0	174.7	115.8	0.0	0.0	0.0	115.8	(59.0)	

I Chiller Upgrade

RATE IMPACT TEST
PROGRAM: Commercial - Chiller Upgrade

PSC Form CE 2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	PURCHASED POWER BENEFITS \$(000)	T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2010	0.0	11.8	6.3	9.6	0.0	27.7	13.5	0.0	0.0	0.0	13.5	(14.3)	(14.3)
2011	0.0	12.1	6.3	29.3	0.0	47.7	29.6	0.0	0.0	0.0	29.6	(18.1)	(31.1)
2012	0.0	12.4	6.3	50.1	0.0	68.8	46.7	0.0	0.0	0.0	46.7	(22.1)	(50.2)
2013	0.0	12.7	6.3	70.2	0.0	89.2	62.8	0.0	0.0	0.0	62.8	(26.4)	(71.4)
2014	0.0	13.0	6.3	91.5	0.0	110.9	80.0	0.0	0.0	0.0	80.0	(30.9)	(94.4)
2015	0.0	13.3	6.3	114.6	0.0	134.3	98.7	0.0	0.0	0.0	98.7	(35.6)	(119.0)
2016	0.0	13.7	6.3	133.8	0.0	153.8	113.1	0.0	0.0	0.0	113.1	(40.7)	(145.2)
2017	0.0	14.0	6.3	154.6	0.0	174.9	128.9	0.0	0.0	0.0	128.9	(46.0)	(172.7)
2018	0.0	14.4	6.3	179.1	0.0	199.8	148.4	0.0	0.0	0.0	148.4	(51.4)	(201.2)
2019	0.0	14.7	6.3	205.7	0.0	226.8	169.7	0.0	0.0	0.0	169.7	(57.1)	(230.6)
NOMINAL	0.0	132.1	63.2	1,038.6	0.0	1,233.9	891.3	0.0	0.0	0.0	891.3	(342.6)	
NPV	0.0	95.6	46.4	667.7	0.0	809.6	579.0	0.0	0.0	0.0	579.0	(230.6)	

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2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 100158, Copy of 12 - Line Loss Values.xls	20 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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Program Information - Savings

Program Information - Savings										
Program Name		Energy Survey	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Energy Survey	Indoor Efficient Lighting	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Window Film	Chiller Upgrade
Customer Category	(Res/Com/Ind)	Residential			Commercial					
Program Type	(EE/DR/RE)	EE	EE	EE	EE	EE	EE	EE	EE	EE
Program Estimate										
Summer Demand	(MW)	1.18	2.92	0.16	0.28	0.40	0.97	0.06	0.11	0.66
Winter Demand	(MW)	1.18	1.60	0.16	0.28	0.26	0.53	0.06	0.00	0.42
Annual Energy	(GWh)	3.22	5.94	0.47	0.97	2.04	1.98	0.19	0.46	2.27
% of Commission Authorized Customer Category (Residential/Commercial) Goal										
Summer Demand	(%)	59.0%	146.1%	7.9%	12.2%	17.5%	42.4%	2.7%	4.6%	28.8%
Winter Demand	(%)	90.8%	123.3%	12.1%	46.6%	43.6%	89.0%	10.5%	0.0%	69.7%
Annual Energy	(%)	63.1%	116.4%	9.2%	12.5%	26.2%	25.4%	2.4%	5.9%	29.1%
% of Commission Authorized Total Goal										
Summer Demand	(%)	27.5%	68.0%	3.7%	6.5%	9.4%	22.7%	1.5%	2.5%	15.4%
Winter Demand	(%)	62.2%	84.3%	8.3%	14.7%	13.8%	28.1%	3.3%	0.0%	22.0%
Annual Energy	(%)	24.9%	46.0%	3.6%	7.6%	15.8%	15.3%	1.5%	3.6%	17.6%

Goals										
Summer Demand	2	2	2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Winter Demand	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Annual Energy	5.1	5.1	5.1	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Total Goals										
Summer Demand	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Winter Demand	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Annual Energy	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

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Program Information - Savings

Program Information - Savings										
Program Name		Energy Survey	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Energy Survey	Indoor Efficient Lighting	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Window Film	Chiller Upgrade
Customer Category	(Res/Com/Ind)	Residential			Commercial					
Program Type	(EE/DR/RE)	EE	EE	EE	EE	EE	EE	EE	EE	EE
Program Cost (Cumulative NPV)										
Labor/Payroll	(\$)	448,404	53,081	57,419	2,374	95,050	17,694	22,968	22,968	8,103
Advertising	(\$)	288,825	-	-	51,505	-	-	-	-	-
Legal	(\$)	-	-	-	-	-	-	-	-	-
Outside Contract Services	(\$)	59,283	-	-	66,702	-	-	-	-	-
Vehicle Cost	(\$)	-	-	-	-	-	-	-	-	-
Materials & Supplies	(\$)	86,886	-	-	11,344	-	-	-	-	-
Travel	(\$)	-	-	-	-	-	-	-	-	-
General & Administrative	(\$)	121,996	225,012	17,832	36,946	77,469	75,004	7,133	7,133	861,303
Incentives	(\$)	-	166,529	19,448	-	31,116	55,510	7,779	7,779	-
Other	(\$)	2,486	-	-	-	-	-	-	-	-
Total	(\$)	1,007,878	444,622	94,699	168,872	203,636	148,207	37,879	37,879	869,406
Program Cost (% of Program)										
Labor/Payroll	(%)	44.5%	11.9%	60.6%	1.4%	46.7%	11.9%	60.6%	60.6%	0.9%
Advertising	(%)	28.7%	0.0%	0.0%	30.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Legal	(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outside Contract Services	(%)	5.9%	0.0%	0.0%	39.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Cost	(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Materials & Supplies	(%)	8.6%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Travel	(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
General & Administrative	(%)	12.1%	50.6%	18.8%	21.9%	38.0%	50.6%	18.8%	18.8%	99.1%
Incentives	(%)	0.0%	37.5%	20.5%	0.0%	15.3%	37.5%	20.5%	20.5%	0.0%
Other	(%)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Program Rate Impact										
Residential Rate Impact	(\$/mo)	0.39	0.18	0.04	N/A	N/A	N/A	N/A	N/A	N/A
Percentage of Total ECCR Rate	(%)	33.5%	14.8%	3.1%	5.6%	6.8%	4.9%	1.3%	1.3%	28.9%
Lost Revenues	(\$)	947,332	1,747,283	138,469	286,897	601,569	582,428	55,388	135,787	667,665

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Program Information - Savings

Program Information - Savings										
Program Name		Energy Survey	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Energy Survey	Indoor Efficient Lighting	Heating and Cooling Efficiency	Ceiling Insulation Upgrade	Window Film	Chiller Upgrade
Customer Category	(Res/Com/Ind)	Residential			Commercial					
Program Type	(EE/DR/RE)	EE	EE	EE	EE	EE	EE	EE	EE	EE
E-TRC Test Results										
Total Benefits	(\$)	1,214,837	2,291,388	176,513	362,595	747,741	763,796	70,605	169,789	844,566
Total Costs	(\$)	952,125	1,628,498	323,317	157,607	228,899	542,833	129,327	64,177	318,415
Ratio	-	1.276	1.407	0.546	2.301	3.267	1.407	0.546	2.646	2.652
E-RIM Test Results										
Total Benefits	(\$)	1,214,837	2,291,388	176,513	362,595	747,741	763,796	70,605	169,789	844,566
Total Costs	(\$)	2,259,234	2,711,288	278,459	553,462	1,006,643	903,763	111,384	218,784	1,023,569
Ratio	-	0.538	0.845	0.634	0.655	0.743	0.845	0.634	0.776	0.825
Participants Test Results										
Total Benefits	(\$)	947,332	1,898,702	288,456	286,897	629,760	1,183,513	115,382	144,597	714,041
Total Costs	(\$)	947,332	1,350,154	247,958	286,897	56,398	450,051	99,183	34,033	222,838
Ratio	-	1.000	1.406	1.163	1.000	11.166	2.630	1.163	4.249	3.204
Payback Period										
E-TRC Test	(Yrs)	8	6	*	4	3	7	*	4	4
E-RIM Test	(Yrs)	*	*	*	*	*	*	*	*	*
Participants Test	(Yrs)	1	7	7	1	1	1	7	2	3

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Measure Information

Program Name	Measure 1	Measure 2
Residential Energy Survey	Residential Audit	CFL Installation
Residential Heating and Cooling Efficiency	Install Energy Efficient Central A/C or Heat Pump	N/A
Residential Ceiling Insulation Upgrade	Add Ceiling Insulation to Reach at least R-30 in attics or R-11 under raised flooring	N/A
Commercial Energy Survey	Commercial Audit	CFL Installation
Commercial Indoor Efficient Lighting	Minimum 1,000 Watt Savings via ballast and lamp or lamp only replacement	N/A
Commercial Heating and Cooling Efficiency	Install Energy Efficient Central A/C or Heat Pump	N/A
Commercial Ceiling Insulation Upgrade	Add Ceiling Insulation to Reach at least R-30 in attics or R-11 under raised flooring	N/A
Commercial Window Film	Install window film or solar screens	N/A
Commercial Chiller Upgrade	Install energy efficient chiller	N/A

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Measure Information - Savings

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
Program Estimate					
Summer Demand	(MW)	0.17	1.01	0.08	0.20
Winter Demand	(MW)	0.17	1.01	0.08	0.20
Annual Energy	(GWh)	0.57	2.65	0.44	0.53
% of Commission Authorized Customer Category (Residential/Commercial) Goal					
Summer Demand	(%)	8.6%	50.4%	3.9%	8.8%
Winter Demand	(%)	13.3%	77.5%	6.0%	33.6%
Annual Energy	(%)	11.1%	52.0%	8.7%	6.8%
% of Commission Authorized Total Goal					
Summer Demand	(%)	4.0%	23.4%	1.8%	4.7%
Winter Demand	(%)	9.1%	53.1%	4.1%	10.6%
Annual Energy	(%)	4.4%	20.5%	3.4%	4.1%

Goals

Summer Demand	2	2	2	2.3
Winter Demand	1.3	1.3	1.3	0.6
Annual Energy	5.1	5.1	5.1	7.8

Total Goals

Summer Demand	4.3	4.3	4.3	4.3
Winter Demand	1.9	1.9	1.9	1.9
Annual Energy	12.9	12.9	12.9	12.9

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Program Information - Savings

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
Measure Cost (Cumulative NPV)					
Labor/Payroll	(\$)	224,202	224,202	1,187	1,187
Advertising	(\$)	144,413	144,413	25,753	25,753
Legal	(\$)	0	0	0	0
Outside Contract Services	(\$)	29,641	29,641	33,351	33,351
Vehicle Cost	(\$)	0	0	0	0
Materials & Supplies	(\$)	15,082	71,804	0	11,344
Travel	(\$)	0	0	0	0
General & Administrative	(\$)	21,540	100,455	16,855	20,091
Incentives	(\$)	0	0	0	0
Other	(\$)	1,243	1,243	0	0
Total	(\$)	436,120	571,758	77,146	91,726
Measure Cost (% of Measure)					
Labor/Payroll	(\$)	51.4%	39.2%	1.5%	1.3%
Advertising	(\$)	33.1%	25.3%	33.4%	28.1%
Legal	(\$)	0.0%	0.0%	0.0%	0.0%
Outside Contract Services	(\$)	6.8%	5.2%	43.2%	36.4%
Vehicle Cost	(\$)	0.0%	0.0%	0.0%	0.0%
Materials & Supplies	(\$)	3.5%	12.6%	0.0%	12.4%
Travel	(\$)	0.0%	0.0%	0.0%	0.0%
General & Administrative	(\$)	4.9%	17.6%	21.8%	21.9%
Incentives	(\$)	0.0%	0.0%	0.0%	0.0%
Other	(\$)	0.3%	0.2%	0.0%	0.0%
Measure Rate Impact					
Residential Rate Impact	(\$/mo)	0.19	0.22	N/A	N/A
Percentage of Total ECCR Rate	(%)	14.47%	18.98%	2.56%	3.04%
Lost Revenues	(\$)	167,267	780,065	130,884	156,013

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Program Information - Savings

Measure Information - Savings					
Component Measure Name		Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure		Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
E-TRC Test Results					
Total Benefits	(\$)	212,067	1,002,770	162,041	200,554
Total Costs	(\$)	435,547	571,275	76,980	91,566
Ratio	-	0.487	1.755	2.105	2.190
E-RIM Test Results					
Total Benefits	(\$)	212,067	1,002,770	162,041	200,554
Total Costs	(\$)	666,338	1,647,593	257,572	306,830
Ratio	-	0.318	0.609	0.629	0.654
Participants Test Results					
Total Benefits	(\$)	167,267	780,065	130,884	156,013
Total Costs	(\$)	0	0	0	0
Ratio	-	1.000	1.000	1.000	1.000
Payback Period					
E-TRC Test	(Yrs)	*	6	5	5
E-RIM Test	(Yrs)	*	*	*	*
Participants Test	(Yrs)	1	1	1	1

*The length of the payback period exceeds the 10-year planning period for this test. Payback period is defined as the number of years that it takes for the cumulative present worth net benefits to become positive.

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Program Information - Savings

Measure Information - Savings					
Component Measure Name	-	Residential Energy Audit	Residential CFL Installation	Commercial Energy Audit	Commercial CFL Installation
Program Name with Measure	-	Residential Energy Survey	Residential Energy Survey	Commercial Energy Survey	Commercial Energy Survey
Measure Incentives & Duration					
Incentive / Rebate Rate	(\$)	0	0	0	0
Customer Equipment Cost	(\$)	0	0	0	0
Estimated Life of Measure	(Years)	N/A	6.1	N/A	6.1
Non-Recurring Measure Expenses					
Administrative	(\$/Customer)	9	40	34	40
Equipment	(\$/Customer)	6	29	0	23
Incentive / Rebate (Typical)	(\$/Customer)	0	0	0	0
Recurring Measure Expenses					
Administrative	(\$/Customer/Year)	0	0	0	0
Equipment	(\$/Customer/Year)	0	0	0	0
O&M	(\$/Customer/Year)	0	0	0	0
Incentive / Rebate (Typical)	(\$/Customer/Year)	0	0	0	0

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2010-06-04, 100158, Copy of 1A - Program Participation Value.xls	105 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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2010-06-04, 100158, Copy of 1C - Program and Individual Measu.xls	153 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1D - PSC form CE 1.1 (Finandial .xls	119 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1E - PSC form CE 2.3 (Total Reso.xls	120 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1F - PSC form CE 2.4 (Participan.xls	71 KB	Microsoft Excel ...	6/4/2010 1:24 PM
2010-06-04, 100158, Copy of 1G - PSC form CE 2.5 (Rate Impac.xls	121 KB	Microsoft Excel ...	6/4/2010 1:24 PM
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Avoided Unit Information

Avoided Unit Information*		
Plant Name		Purchased Power
Unit #		N/A
Technical Information		
Capacity	Winter	(MW)
	Summer	(MW)
Technology Type		N/A
Primary Fuel		N/A
Commercial In-Service Date		N/A
Performance Data		
Capacity Factor	(%)	N/A
Heat Rate	(Btu/kWh)	N/A
Financial Data		
Book Life	(Years)	N/A
Total Installed Cost	(\$/kW)	N/A
Fixed O&M Cost	(\$/kW-year)	N/A
Variable O&M Cost	(\$/MWh)	N/A
Avoided Fuel		
Avoided Energy Rate**	(\$/MWh)	69.40

*FPUC used its current and projected purchase power costs as the basis for the avoided costs since FPUC purchases all of its power

**2010 Value

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Projected Rate Information

Projected Rate Information		
Residential		
Non-Fuel Energy Rate	(cents/kWh)	1.958
Escalation Rate	(%)	2.5
Commercial		
Non-Fuel Energy Rate	(cents/kWh)	1.958
Escalation Rate	(%)	2.5
Demand Rate	(\$/kW-mo)	-
Escalation Rate	(%)	-

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Line Loss Values

Line Loss Values		
Residential		
Energy Percentage	(%)	4.53
Demand Percentage	(%)	4.53
Commercial		
Energy Percentage	(%)	4.53
Demand Percentage	(%)	4.53