PECO ENERGY COMPANY
STATEMENT NO. 2-S

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

PETITION OF PECO ENERGY COMPANY
FOR APPROVAL OF ITS ACT 129
ENERGY EFFICIENCY AND CONSERVATION PLAN
AND EXPEDITED APPROVAL OF ITS
COMPACT FLUORESCENT LAMP PROGRAM

DOCKET NO. M-2009-2093215

SUPPLEMENTAL TESTIMONY

WITNESS: GREGORY A. WIKLER

SUBJECT: PECO ENERGY COMPANY'S UPDATED
TOTAL RESOURCE COST ANALYSIS

DATED: JULY 31, 2009

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SUPPLEMENTAL TESTIMONY
OF
GREGORY A. WIKLER

I. INTRODUCTION

1. Q. Please state your name, professional position and business address.

A. My name is Gregory A. Wikler. I am employed by Global Energy Partners, LLC ("Global") as a Vice President and Senior Research Officer. My business address is 500 Ygnacio Valley Road, Suite 450, Walnut Creek, California.

2. Q. Have you previously submitted written testimony in this proceeding?

A. Yes, I submitted direct testimony that is marked as PECO Statement No. 2. My background and qualifications are set forth in that statement.

3. Q. What is the purpose of your supplemental testimony?

A. The purpose of my testimony is to address the effects that updated avoided costs projections have on the Total Resource Cost ("TRC") benefit-cost calculations for each individual program contained in the Energy Efficiency and Conservation Plan ("Plan") submitted by PECO Energy Company ("PECO" or the "Company"). The Company developed the updated avoided cost projections to comply with a recent Order issued by the Pennsylvania Public Utility Commission ("PUC") detailing the methodology that should be used to develop avoided cost data. *See Implementation of Act 129 of 2008 – Total Resource Cost (TRC) Test*, Docket No. M-2009-2108601 (order entered June 23, 2009) ("TRC Order"). In particular, I will describe how I applied the updated avoided costs to the TRC analysis framework presented in my

direct testimony. I will also summarize the results of the updated analysis and offer conclusions as to the effects of this change on the overall program portfolio.

4. Q. Do the updated avoided cost projections modify any aspects of your original testimony or any other parts of the original Plan filing?

A. Yes, they do. I describe the updates to my original testimony in this testimony. In terms of the original Plan filing, I am providing updated tables in the form of the following exhibits to this testimony:

- Exhibit GAW-1-S: Updated Table 1.3 (Volume II, Page 5)
- Exhibit GAW-2-S: Appendix D-1, Updated Table 1 (Volume III)
- Exhibit GAW-3-S: Appendix D-9, Updated Table 7A (Volume III)
- Exhibit GAW-4-S: Appendix D-9, Updated Table 7B (Volume III)
- Exhibit GAW-5-S: Appendix D-9, Updated Table 7C (Volume III)
- Exhibit GAW-6-S: Appendix D-9, Updated Table 7D (Volume III)
- Exhibit GAW-7-S: Appendix D-9, Updated Table 7E (Volume III)
- Exhibit GAW-8-S: Appendix E-2, Updated Detailed Cost-Effectiveness Results by Program (Volume III)

II. APPLICATION OF PECO'S UPDATED AVOIDED COSTS

5. Q. In what manner did you receive the updated avoided costs from PECO?

A. PECO provided me with avoided energy and capacity costs data in a format that I understood to be responsive to the TRC Order. I conducted additional data analysis to represent the avoided energy costs in the format that was necessary to run the TRC analysis in PECO's benefit-cost models. No additional data analysis was necessary to represent the avoided capacity costs.

6. Q. Can you describe the analysis that you performed for the avoided energy costs?

A. Yes. First, PECO developed its projections of Zone ATC around-the-clock energy prices on a monthly basis starting on January 1st, 2010. In order to represent the avoided energy costs on a yearly basis, I calculated the 12-month average. However, since PECO's Plan was based on Program Years ("PY") running from June 1st to May 31st, the average for each program year was calculated drawing on the 12 months starting with June 1st of each program year. In addition, because PECO only provided avoided energy costs starting on January 1st, 2010, I calculated the average avoided energy costs for PY 2009 based on the period January 1st, 2010 to May 31st, 2010 as a proxy for a full 12-month Program Year. For PY 2010, I calculated the avoided energy costs based on the period June 1st, 2010 to May 31st, 2011. The calculation for each subsequent program year was done in the same manner.

7. Q. Did you add any additional costs for avoided transmission and distribution ("T&D") to these new avoided energy costs?

A. Yes. I added the same avoided T&D costs that were included as part of the original avoided energy costs for PECO's submitted Plan.

8. Q. What are the updated avoided costs that were used in your TRC analysis?

A. Table 1 lists the updated avoided costs as they were used for PECO's TRC analysis.

Table 1: Updated Avoided Costs for TRC Analysis

Program Year	Avoided Energy Costs ($/kWh)			Avoided Capacity Costs ($/kW-yr)
	Residential	Commercial	Industrial	
2009	$0.114	$0.080	$0.068	$69.83
2010	$0.118	$0.084	$0.071	$63.62
2011	$0.121	$0.087	$0.074	$40.16
2012	$0.123	$0.090	$0.077	$51.03
2013	$0.126	$0.093	$0.080	$55.40
2014	$0.129	$0.095	$0.082	$60.14
2015	$0.130	$0.096	$0.083	$65.28
2016	$0.131	$0.098	$0.085	$70.86
2017	$0.132	$0.099	$0.086	$76.92
2018	$0.134	$0.100	$0.087	$83.50
2019	$0.132	$0.099	$0.086	$90.64
2020	$0.132	$0.098	$0.086	$98.39
2021	$0.136	$0.103	$0.090	$106.80
2022	$0.139	$0.105	$0.093	$115.93
2023	$0.140	$0.107	$0.094	$125.85

9. Q. Why are there sector-specific avoided energy costs in Table 1?

A. The sector-specific avoided energy costs were calculated using the PECO avoided T&D costs, which vary for each of the three sectors – residential, commercial and industrial. We applied the sector-specific avoided energy costs for programs that were purely targeting that sector.

10. Q. What part of the Plan document does this Table update?

A. The table on Page 221 of Volume II of the Plan (Section 8.1.2) is updated by Table 1.

III. RESULTS

11. Q. What were the results of these new avoided cost calculations?

A. Table 2 summarizes the results of the TRC benefit-cost ratios by program and for the Plan as a whole. The Table shows that all programs pass except the Residential New Construction and Renewable Resources programs. Incidentally, these are the same programs that did not pass the TRC in the original Plan filing. Table 2, set forth below, is an update to Table 2 (Page 14) from PECO's Petition and Table 4 (Page 23, Line 1) from my direct testimony.

Table 2: PECO's Estimated TRC Results by Program
(UPDATED BASED ON NEW AVOIDED COSTS)

Program	TRC Analysis			
	Benefits (Million $)	Costs (Million $)	Net Benefits (Million $)	B/C Ratio
Energy Efficiency Programs				
1. CFL Initiative	$161	$47	$113	3.40
2. Residential Low-Income Energy Improvements	$43	$25	$18	1.73
3. Residential Whole Home Performance	$5	$4	$1	1.20
4. Residential Home Energy Incentives	$133	$82	$51	1.63
5. Residential New Construction	$1	$3	-$2	0.32
6. Residential Appliance Pickup	$64	$7	$57	9.34
7. Commercial/Industrial Equipment Incentives	$209	$137	$72	1.52
8. Commercial/Industrial New Construction	$18	$8	$10	2.23
9. Government/Public/Non-Profit/ Facility Energy Savings	$176	$103	$73	1.71
10. Renewable Resources	$2	$9	-$7	0.20
Subtotal Energy Efficiency Programs	***$811.0***	***$425.0***	***$385.9***	***1.91***
Demand Reduction Programs				
1. Residential Direct Load Control	$42	$41	$1	1.02
2. Residential Super Peak TOU	$17	$11	$6	1.50
3. Commercial/Industrial Direct Load Control	$10	$9	$1	1.09
4. Commercial/Industrial Super Peak TOU	$18	$10	$7	1.72
5. DR Aggregator Contracts	$99	$95	$3	1.04
6. Distributed Energy Resources	$57	$55	$2	1.04
7. Permanent Load Reduction	$28	$19	$9	1.50
8. Conservation Voltage Reduction	$113	$5	$108	24.15
Subtotal Demand Reduction Programs	***$383.2***	***$245.5***	***$137.7***	***1.56***
Grand Total -- All Programs	***$1,194.2***	***$670.5***	***$523.6***	***1.78***

12. Q. Overall, how do these results compare to the original Plan filing?

A. In general, the overall TRC benefit-cost ratio improves from 1.76 to 1.78 and the net benefits of $513 million improves to $524 million. For the energy efficiency

programs, the TRC benefit-cost ratio improves from 1.86 to 1.91. For the demand reduction programs, the TRC benefit-cost ratio decreases slightly from 1.59 to 1.56.

13. Q. How is it that the benefit-cost ratio improves for energy efficiency programs but declines for demand reduction programs?

A. This has to do with the fact that the new avoided energy costs appear higher than the original avoided energy costs, whereas the new avoided capacity costs appear lower than the original avoided capacity costs. Since energy efficiency program benefits are driven largely by avoided energy costs while demand reduction program benefits are driven largely by avoided capacity costs, I was not at all surprised to see these results.

IV. CONCLUSION

14. Q. Do you have any concluding thoughts regarding the changes that you describe?

A. Yes, I do. Given that my updated calculations did not result in any substantive changes in the economics of the various programs proposed in this Plan, I don't see any reason to modify my original conclusions about the Plan.

15. Q. Does this conclude your supplemental testimony?

A. Yes, it does.

Exhibit GAW-1-S

Updated 1.3 Summary Tables of Portfolio Savings Goals, Budget and Cost-Effectiveness

Program	Energy Savings (MWh)				Peak Demand Savings (MW)				Budget (Million $)						Total Participants (Cumulative by Year 4)	TRC Analysis					
	PY 2009	PY 2010	PY 2011	PY 2012	PY 2009	PY 2010	PY 2011	PY 2012	PY 2009	PY 2010	PY 2011	PY 2012	4-Year Total	Average Annual		Benefits (Million $)	Costs (Million $)	Net Benefits (Million $)	B/C Ratio	Levelized Cost of Saved Energy ($/kWh)	Levelized Cost of Reduced Peak Demand ($/kW-yr)
Energy Efficiency Programs																					
1. CFL Initiative	73,492	161,793	251,933	290,297	4.0	8.8	13.7	15.8	$5.5	$5.7	$5.8	$2.7	$19.7	$4.9	2,362,500	$161	$47	$113	3.40	$0.029	$537
2. Residential Low-Income Energy	6,096	22,239	49,479	79,660	0.4	1.5	3.2	5.3	$1.9	$4.8	$8.6	$12.1	$27.4	$6.9	218,627	$43	$25	$18	1.73	$0.055	$767
3. Residential Whole Home Performance	0	792	2,375	5,542	0.0	0.0	0.1	0.1	$0.3	$0.9	$1.1	$1.6	$4.0	$1.0	2,100	$5	$4	$1	1.20	$0.068	$2,660
4. Residential Home Energy Incentives	9,810	44,267	83,801	123,514	0.4	1.8	3.3	4.9	$3.1	$9.3	$11.6	$11.6	$35.5	$8.9	177,351	$133	$82	$51	1.63	$0.049	$1,220
5. Residential New Construction	0	100	502	904	0.0	0.0	0.0	0.1	$0.2	$0.7	$1.1	$1.1	$3.1	$0.8	216	$1	$3	-$2	0.32	$0.245	$2,820
6. Residential Appliance Pickup	7,494	29,977	52,460	74,944	1.4	5.8	10.1	14.4	$1.0	$2.8	$2.9	$3.0	$9.7	$2.4	55,500	$64	$7	$57	9.34	$0.010	$54
7. Commercial/Industrial Equipment Incentives	14,321	109,547	191,471	273,012	3.3	25.1	43.7	62.3	$3.3	$16.1	$19.2	$23.0	$61.7	$15.4	72,549	$209	$137	$72	1.52	$0.042	$197
8. Commercial/Industrial New Construction	0	0	8,750	25,000	0.0	0.0	1.1	3.0	$0.1	$0.1	$1.8	$2.8	$4.8	$1.2	100	$18	$8	$10	2.23	$0.024	$198
9. Government/Public Facility Energy Savings	11,800	80,011	148,222	216,792	2.4	15.8	29.3	42.9	$2.7	$12.0	$14.3	$16.8	$45.8	$11.4	275	$176	$103	$73	1.71	$0.036	$192
10. Renewable Resources	0	194	516	1,097	0.0	0.3	0.7	1.4	$0.1	$1.2	$1.6	$2.2	$5.1	$1.3	335	$2	$9	-$7	0.20	$0.580	$446
Subtotal Energy Efficiency Programs	***123,013***	***448,921***	***789,511***	***1,090,762***	***11.9***	***59.0***	***105.2***	***150.2***	***$18.3***	***$53.7***	***$67.9***	***$76.9***	***$216.9***	***$54.2***	***2,889,553***	***$811.0***	***$425.0***	***$385.9***	***1.91***	***$0.030***	***$264***
Demand Reduction Programs																					
1. Residential Direct Load Control	0	2,612	3,845	5,086	0.0	31.1	46.0	60.9	$1.7	$9.4	$13.1	$17.1	$41.3	$10.3	114,425	$42	$41	$1	1.02	$0.563	$47
2. Residential Super Peak TOU	0	0	1,322	2,546	0.0	0.0	13.2	25.5	$0.1	$1.1	$3.1	$4.4	$8.8	$2.2	52,500	$17	$11	$6	1.50	$0.318	$32
3. Commercial/Industrial Direct Load Control	0	584	1,095	1,460	0.0	5.8	11.0	14.6	$1.3	$3.0	$4.2	$4.7	$13.1	$3.3	10,000	$10	$9	$1	1.09	$0.432	$43
4. Commercial/Industrial Super Peak TOU	0	0	1,306	2,822	0.0	0.0	13.1	28.2	$0.1	$1.8	$3.3	$4.9	$10.1	$2.5	10,000	$18	$10	$7	1.72	$0.263	$26
5. DR Aggregator Contracts	0	5,000	10,000	15,000	0.0	50.0	100.0	150.0	$0.2	$3.7	$7.3	$11.2	$22.4	$5.6	NA	$99	$95	$3	1.04	$0.444	$44
6. Distributed Energy Resources	0	15,600	27,300	39,000	0.0	20.0	35.0	50.0	$1.8	$4.1	$5.7	$6.7	$18.3	$4.6	NA	$57	$55	$2	1.04	$0.098	$76
7. Permanent Load Reduction	451	8,325	17,607	28,888	0.0	3.9	9.3	14.7	$0.4	$1.3	$2.0	$2.4	$6.2	$1.5	NA	$28	$19	$9	1.50	$0.046	$90
8. Conservation Voltage Reduction	0	110,000	110,000	110,000	0.0	11.3	11.3	11.3	$2.1	$2.1	$0.2	$0.2	$4.6	$1.1	NA	$113	$5	$108	24.15	$0.003	$27
Subtotal Demand Reduction Programs	***451***	***140,121***	***172,474***	***204,803***	***0.0***	***122.1***	***238.8***	***355.2***	***$7.7***	***$26.5***	***$38.9***	***$51.6***	***$124.7***	***$31.2***	***186,925***	***$383.2***	***$245.5***	***$137.7***	***1.56***	***$0.080***	***$48***
Grand Total -- All Programs	***123,464***	***589,042***	***961,985***	***1,295,565***	***11.9***	***181.1***	***344.0***	***505.4***	***$26.0***	***$80.2***	***$106.9***	***$128.5***	***$341.6***	***$85.4***	***3,076,478***	***$1,194.2***	***$670.5***	***$523.6***	***1.78***	***$0.048***	***$100***
PECO Goals		***393,850***		***1,181,550***				***355.0***	***$85.5***	***$85.5***	***$85.5***	***$85.5***	***$341.9***	***$85.5***							
Percent of Goal		***150%***		***110%***				***142%***	***30%***	***94%***	***125%***	***150%***	***100%***	***100%***							

Exhibit GAW-2-S

Updated Table 1: Portfolio Summary of Lifetime Costs and Benefits

Notes:

o Net Lifetime Benefits, and TRC per the California Standard Practice Manual

Portfolio	**Discount Rate**	**Total Discounted Lifetime Costs ($000)**	**Total Discounted Lifetime Benefits ($000)**	**Total Discounted Net Lifetime Benefits ($000)**	**Cost- Benefit Ratio**	TRC[1]
Residential *(exclusive of Low-Income)*	**7.45%**	**$194,988**	**$421,505**	**$226,517**	**0.46**	**2.16**
Residential Low Income	**7.45%**	**$24,927**	**$43,228**	**$18,301**	**0.58**	**1.73**
Commercial/ Industrial	**7.45%**	**$334,144**	**$439,332**	**$105,188**	**0.76**	**1.31**
Governmental/ Non-Profit	**7.45%**	**$102,956**	**$175,727**	**$72,771**	**0.59**	**1.71**
Programs Common to All Sectors	**7.45%**	**$13,535**	**$114,394**	**$100,858**	**0.12**	**8.45**
Total	**7.45%**	**$670,550**	**$1,194,186**	**$523,636**	**0.56**	**1.78**

[1] See Commission instructions on definition of TRC

Exhibit GAW-3-S

Updated Table 7A: TRC Benefits Table

o Submit yearly projections for each program thru final year of that program for TRC evaluation.

Residential	TRC Benefits By Class Per Program Year ($000)									
Program	Program Year	TRC	Program Costs ($000)	Program Benefits ($000)	Capacity ($000)	Energy ($000)	Load Reductions in kW *		MWh Saved *	
							PY	Maximum Over Lifetime	PY Annual	Lifetime
CFL Initiative	*2009*	3.40	$10,000	$9,550	$308	$9,242	4,407	17,408	81,072	1,615,937
	2010		$13,058	$21,603	$617	$20,986	9,702		178,481	
	2011		$14,700	$34,192	$607	$33,585	15,108		277,919	
	2012		$7,619	$40,354	$888	$39,466	17,408		320,239	
Whole Home Performance	*2009*	1.20	$343	$0	$0	$0	0	137	0	59,922
	2010		$1,023	$104	$1	$103	20		873	
	2011		$1,337	$319	$2	$317	59		2,620	
	2012		$1,980	$760	$7	$753	137		6,114	
Home Energy Incentives	*2009*	1.63	$7,424	$1,264	$30	$1,234	430	5,421	10,822	1,680,075
	2010		$25,030	$5,865	$124	$5,742	1,943		48,833	
	2011		$30,184	$11,319	$148	$11,172	3,678		92,445	
	2012		$30,908	$17,068	$277	$16,792	5,421		136,254	
Residential New Construction	*2009*	0.32	$151	$0	$0	$0	0	87	0	12,634
	2010		$744	$14	$1	$13	10		111	
	2011		$1,331	$69	$2	$67	48		554	
	2012		$1,371	$127	$4	$123	87		997	
Appliance Pickup	*2009*	9.34	$843	$1,053	$111	$942	1,590	15,897	8,267	661,388
	2010		$2,230	$4,293	$405	$3,888	6,359		33,069	
	2011		$2,297	$7,440	$447	$6,993	11,128		57,871	
	2012		$2,366	$11,000	$811	$10,189	15,897		82,674	
Residential Direct Load Control	*2009*	1.02	$1,652	$0	$0	$0	0	67,175	0	72,634
	2010		$3,854	$2,738	$2,400	$339	34,362		2,881	
	2011		$4,668	$3,739	$3,226	$513	50,710		4,241	
	2012		$5,640	$3,390	$2,698	$692	67,175		5,611	
Residential Super Peak TOU	*2009*	1.50	$128	$0	$0	$0	0	28,089	0	35,165
	2010		$1,105	$0	$0	$0	0		0	
	2011		$1,817	$1,104	$928	$176	14,584		1,458	
	2012		$2,154	$1,474	$1,128	$346	28,089		2,809	
Total		2.16	$175,956	$178,841	$15,169	$163,672	n/a	134,213	1,356,217	4,137,755

* Note: The load reduction and energy savings figures reported in this table include a system loss factor of 9.35% (electric loss factor = 1.1).

Exhibit GAW-4-S

Updated Table 7B: TRC Benefits Table

o Submit yearly projections for each program thru final year of that program for TRC evaluation.

Residential Low Income	TRC Benefits By Class Per Program Year ($000)									
Program	Program Year	TRC	Program Costs ($000)	Program Benefits ($000)	Capacity ($000)	Energy ($000)	Load Reductions in kW *		MWh Saved *	
							Maximum	Last PY	Maximum Annual	Lifetime
Low-Income Energy Efficiency	*2009*	1.73	$1,929	$798	$31	$767	446	5,853	6,725	456,453
	2010		$4,793	$2,987	$102	$2,885	1,603		24,533	
	2011		$8,577	$6,739	$143	$6,596	3,559		54,582	
	2012		$12,111	$11,129	$299	$10,830	5,853		87,877	
Total		1.73	$27,410	$21,652	$575	$21,077	n/a	5,853	173,717	456,453

* Note: The load reduction and energy savings figures reported in this table include a system loss factor of 9.35% (electric loss factor = 1.1).

Exhibit GAW-5-S

Updated Table 7C: TRC Benefits Table

o Submit yearly projections for each program thru final year of that program for TRC evaluation.

Commercial/Industrial	TRC Benefits By Class Per Program Year ($000)									
Program	Program Year	TRC	Program Costs ($000)	Program Benefits ($000)	Capacity ($000)	Energy ($000)	Load Reductions in kW *		MWh Saved *	
							Maximum	Last PY	Maximum Annual	Lifetime
Commercial/Industrial Equipment Incentives	*2009*	1.52	$8,275	$1,425	$255	$1,170	3,650	68,681	15,798	3,296,523
	2010		$45,469	$11,143	$1,762	$9,381	27,691		120,846	
	2011		$49,437	$19,024	$1,937	$17,087	48,237		211,221	
	2012		$54,167	$28,589	$3,505	$25,084	68,681		301,172	
Commercial/Industrial New Construction	*2009*	2.23	$121	$0	$0	$0	0	3,309	0	340,596
	2010		$137	$0	$0	$0	0		0	
	2011		$3,470	$765	$47	$719	1,158		9,653	
	2012		$6,027	$2,288	$169	$2,119	3,309		27,579	
Commercial/Industrial Direct Load Control	*2009*	1.09	$1,253	$0	$0	$0	0	16,106	0	21,179
	2010		$1,978	$504	$450	$54	6,442		644	
	2011		$2,326	$874	$768	$106	12,079		1,208	
	2012		$2,033	$791	$647	$145	16,106		1,611	
Commercial/Industrial Super Peak TOU	*2009*	1.72	$121	$0	$0	$0	0	31,133	0	38,801
	2010		$1,765	$0	$0	$0	0		0	
	2011		$3,069	$1,033	$916	$117	14,404		1,440	
	2012		$4,232	$1,510	$1,250	$259	31,133		3,113	
DR Aggregator Contracts	*2009*	1.04	$212	$0	$0	$0	0	165,472	0	215,113
	2010		$3,696	$4,244	$3,852	$393	55,157		5,516	
	2011		$7,324	$7,839	$7,018	$821	110,314		11,031	
	2012		$11,166	$7,918	$6,646	$1,271	165,472		16,547	
Distributed Energy Resources	*2009*	1.04	$7,766	$0	$0	$0	0	55,157	0	563,596
	2010		$14,313	$2,766	$1,541	$1,225	22,063		17,209	
	2011		$18,231	$4,698	$2,456	$2,242	38,610		30,116	
	2012		$19,622	$5,521	$2,215	$3,306	55,157		43,023	
Permanent Load Reduction	*2009*	1.50	$1,668	$34	$0	$34	0	16,259	498	409,310
	2010		$4,658	$793	$297	$497	4,248		6,978	
	2011		$7,488	$2,098	$652	$1,446	10,253		19,423	
	2012		$8,020	$3,102	$653	$2,449	16,259		31,868	
Total		1.31	$288,045	$106,959	$37,036	$69,923	n/a	356,118	876,491	4,885,118

* Note: The load reduction and energy savings figures reported in this table include a system loss factor of 9.35% (electric loss factor = 1.1).

Exhibit GAW-6-S

Updated Table 7D: TRC Benefits Table

o Submit yearly projections for each program thru final year of that program for TRC evaluation.

Governmental/Non-Profit	TRC Benefits By Class Per Program Year ($000)									
Program	Program Year	TRC	Program Costs ($000)	Program Benefits ($000)	Capacity ($000)	Energy ($000)	Load Reductions in kW *		MWh Saved *	
							Maximum	Last PY	Maximum Annual	Lifetime
Government/Public/ Non-Profit Facility Energy Savings	*2009*	1.71	$6,327	$1,145	$181	$964	2,596	47,356	13,018	2,843,756
	2010		$34,178	$7,962	$1,110	$6,852	17,449		88,264	
	2011		$37,067	$14,525	$1,297	$13,227	32,303		163,511	
	2012		$40,557	$22,335	$2,417	$19,919	47,356		239,153	
Total		1.71	$118,129	$45,967	$5,006	$40,962	n/a	47,356	503,945	2,843,756

* Note: The load reduction and energy savings figures reported in this table include a system loss factor of 9.35% (electric loss factor = 1.1).

Exhibit GAW-7-S

Updated Table 7E: TRC Benefits Table

o Submit yearly projections for each program thru final year of that program for TRC evaluation.

Programs Common to All Sectors	TRC Benefits By Class Per Program Year ($000)									
							Load Reductions in kW *		MWh Saved *	
Program	Program Year	TRC	Program Costs ($000)	Program Benefits ($000)	Capacity ($000)	Energy ($000)	Maximum	Last PY	Maximum Annual	Lifetime
Renewable Resources	*2009*	0.20	$125	$0	$0	$0	0	1,572	0	15,306
	2010		$2,133	$37	$18	$19	276		214	
	2011		$3,134	$84	$30	$54	745		569	
	2012		$5,020	$197	$80	$117	1,572		1,210	
Conservation Voltage Reduction	*2009*	24.15	$2,060	$0	$0	$0	0	12,466	0	1,698,842
	2010		$2,144	$11,907	$870	$11,036	12,466		121,346	
	2011		$186	$12,225	$793	$11,432	12,466		121,346	
	2012		$192	$12,223	$501	$11,723	12,466		121,346	
Total		8.45	$14,994	$36,673	$2,292	$34,381	n/a	14,038	366,030	1,714,147

* Note: The load reduction and energy savings figures reported in this table include a system loss factor of 9.35% (electric loss factor = 1.1).

Exhibit GAW-8-S

APPENDIX E-2.

UPDATED DETAILED COST-EFFECTIVENESS RESULTS BY PROGRAM

PECO ENERGY EFFICIENCY & CONSERVATION PLAN
TRC Results -- 15-YEAR PLANNING HORIZON (2009-2023)
Energy Efficiency Programs

	Program	Dollars			B/C Ratio
		Lifetime Benefits	Lifetime Costs	Net Benefits	
1	CFL INITIATIVE	$160,551,287	$47,171,233	$113,380,054	3.40
2	RESIDENTIAL LOW-INCOME ENERGY	$43,228,224	$24,926,920	$18,301,304	1.73
3	RESIDENTIAL WHOLE HOME PERFORMANCE	$4,858,030	$4,060,087	$797,943	1.20
4	RESIDENTIAL HOME ENERGY INCENTIVES	$132,973,457	$81,775,759	$51,197,698	1.63
5	RESIDENTIAL NEW CONSTRUCTION	$995,001	$3,100,997	($2,105,996)	0.32
6	RESIDENTIAL APPLIANCE PICKUP	$63,664,255	$6,815,231	$56,849,024	9.34
7	COMMERCIAL/INDUSTRIAL EQUIPMENT INCENTIVES	$209,128,822	$137,242,444	$71,886,378	1.52
8	COMMERCIAL/INDUSTRIAL NEW CONSTRUCTION	$18,051,801	$8,112,621	$9,939,180	2.23
9	GOVERNMENT/PUBLIC FACILITY ENERGY SAVINGS	$175,726,984	$102,955,692	$72,771,292	1.71
10	RENEWABLE RESOURCES	$1,775,965	$8,871,626	($7,095,662)	0.20
TOTAL		**$810,953,826**	**$425,032,610**	**$385,921,216**	**1.91**

COST EFFECTIVENESS ANALYSIS INPUT SUMMARY TABLE

General Data

Discount Rate (%)	7.45%
General Escalation Rate (%)	3.00%
Avoided Costs Escalation Rate	3.78%
Program Year Start	2009
Analysis Framework	15 YEAR PLANNING HORIZON
Externality Factor	0%
Table Titles	DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 - 15 YEAR PLANNING HORIZON SUMMARY
Customer to Generation Ratio	9.35%

Program-Specific Data (from linked individual program files)

Program Number	Program Name	Measure Lifetime	Net to Gross Ratio		Avoided Cost Scenario
			Energy	Demand	
1	CFL INITIATIVE	6	1.0000	1.0000	Residential
2	RESIDENTIAL LOW-INCOME ENERGY	12	1.0000	1.0000	Residential
3	RESIDENTIAL WHOLE HOME PERFORMANCE	15	1.0000	1.0000	Residential
4	RESIDENTIAL HOME ENERGY INCENTIVES	15	1.0000	1.0000	Residential
5	RESIDENTIAL NEW CONSTRUCTION	15	1.0000	1.0000	Residential
6	RESIDENTIAL APPLIANCE PICKUP	8	1.0000	1.0000	Residential
7	COMMERCIAL/INDUSTRIAL EQUIPMENT INCENTIVES	15	1.0000	1.0000	C&I
8	COMMERCIAL/INDUSTRIAL NEW CONSTRUCTION	15	1.0000	1.0000	C&I
9	GOVERNMENT/PUBLIC FACILITY ENERGY SAVINGS	15	1.0000	1.0000	Blended
10	RENEWABLE RESOURCES	15	1.0000	1.0000	C&I

Net System Energy Savings (kWh)

Program Number	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	81,072,267	176,480,761	277,018,599	320,238,870	267,125,029	208,261,383	156,513,127	94,618,147	31,708,494	0	0	0	0	0	0	0	0	0	0	0
2	6,724,692	24,532,781	54,582,422	87,876,781	77,031,208	61,019,151	55,554,451	42,651,447	21,546,398	4,865,194	4,865,194	4,865,194	4,500,747	3,648,516	2,188,705	0	0	0	0	0
3	0	873,456	2,620,307	6,114,049	6,013,427	5,872,557	5,872,557	5,872,557	5,872,557	5,872,557	5,872,557	5,872,557	5,071,191	3,468,460	262,997	262,997	250,702	226,111	176,931	176,931
4	10,821,677	48,833,331	92,444,943	136,253,750	135,619,961	134,732,655	134,732,655	134,732,655	134,732,655	134,732,655	134,732,655	135,272,947	127,722,161	120,263,487	108,499,529	92,679,920	75,421,173	56,693,268	53,262,568	48,756,932
5	0	110,827	554,135	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443
6	8,267,351	33,069,405	57,871,458	82,673,511	82,673,511	82,673,511	82,673,511	82,673,511	74,406,160	49,604,107	24,802,053	0	0	0	0	0	0	0	0	0
7	15,797,745	120,845,882	211,220,531	301,171,841	285,627,316	280,336,008	272,625,275	260,174,888	247,626,972	239,474,656	236,448,080	223,112,616	210,214,178	197,085,245	196,761,398	187,536,679	134,728,526	81,920,372	29,295,071	29,295,071
8	0	0	9,632,510	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	27,578,599	17,926,089	0	0
9	13,017,518	88,264,097	163,510,676	239,152,533	258,186,741	236,926,648	233,162,793	225,879,050	218,575,547	213,527,819	211,735,686	202,335,359	193,063,260	183,210,355	183,210,355	178,054,964	125,273,429	75,491,894	25,710,360	25,710,360
10	0	213,789	568,891	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	0	0	0	0	0

Net System Peak Demand Savings (kW)

Program Number	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	4,407	9,702	15,108	17,408	14,521	11,321	8,508	5,143	1,724	0	0	0	0	0	0	0	0	0	0	0
2	446	1,603	3,559	5,855	5,264	4,337	3,909	2,984	1,500	594	594	594	549	445	267	0	0	0	0	0
3	0	20	59	137	132	124	124	124	124	124	124	121	114	101	101	91	72	34	34	34
4	430	1,943	3,678	5,421	5,389	5,345	5,345	5,345	5,345	5,345	5,345	5,312	5,156	4,872	4,421	3,662	2,590	1,494	834	834
5	0	10	48	87	87	87	87	87	87	87	87	87	87	87	87	87	87	79	47	8
6	1,590	6,359	11,128	15,897	15,897	15,897	15,897	15,897	14,307	9,538	4,769	0	0	0	0	0	0	0	0	0
7	3,650	27,691	48,237	68,081	64,502	63,350	59,665	54,851	50,015	48,078	47,360	44,179	41,094	37,943	37,833	35,986	25,995	16,005	6,157	6,157
8	0	0	1,158	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	3,309	2,151	0	0
9	2,596	17,449	32,303	47,356	47,126	46,643	44,974	43,024	41,070	40,568	39,997	36,925	33,882	30,595	30,595	29,925	20,107	11,120	2,132	2,132
10	0	276	745	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	0	0	0	0	0

Implementation Costs

Program Number	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	3,209,001	3,399,000	3,288,790	3,365,909	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	799,083	1,804,037	3,501,828	5,351,336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	343,040	847,526	975,045	1,233,641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1,608,613	3,984,605	5,309,847	5,172,638	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	150,604	638,473	898,503	925,458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	843,292	2,250,030	2,296,951	2,365,839	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1,611,574	5,928,906	9,018,154	13,532,008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	121,438	137,047	1,130,507	1,552,340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1,144,817	3,047,688	5,002,520	7,086,406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	125,081	845,983	879,717	922,090	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Incentive Costs

Program Number	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	2,299,999	2,266,000	2,546,160	1,365,909	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1,129,822	2,898,882	5,075,039	6,760,129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	79,990	164,779	339,445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1,459,913	5,283,115	6,244,131	6,460,065	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	52,524	216,398	222,890	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	189,250	584,783	602,326	620,396	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1,700,987	10,201,460	10,199,843	10,505,838	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	649,801	1,242,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1,545,547	8,996,356	9,266,246	9,691,752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	386,250	676,524	1,229,318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Equipment/Participant Costs

Program Number	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	6,799,999	9,659,340	11,411,040	6,253,130	0	0	2,837,361	3,074,685	3,166,925	1,630,966	0	0	0	0	0	0	0	0	0	0
2	1,129,822	2,898,882	5,075,039	6,760,129	0	0	173,138	484,263	839,235	893,770	0	0	0	0	0	0	0	0	0	0
3	0	175,657	362,266	746,267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	5,814,968	21,045,424	24,874,132	25,734,902	0	0	0	0	0	0	0	3,461	7,129	14,685	0	0	0	0	0	0
5	0	105,048	432,796	445,780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186	850	1,052
7	6,663,801	39,540,335	40,418,874	41,634,869	140,801	18,954	23,269	19,570	20,157	20,762	0	0	0	0	0	0	0	0	0	0
8	0	0	2,339,285	4,474,717	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	5,180,442	31,150,473	32,064,387	33,470,376	6,190	6,376	7,403	5,071	5,225	5,382	0	0	0	0	0	0	0	0	0	0
10	0	1,287,500	2,254,413	4,097,726	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 1: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: CFL INITIATIVE

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	6

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$160,551,287	**$47,171,233**	**$113,380,054**	**3.40**

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		4,407	9,702	15,108	17,408	14,521	11,321	8,508	5,343	1,724	0	0	0	0	0	0
Energy Savings (kWh)		81,072,267	178,480,761	277,918,599	320,238,870	267,125,029	208,261,383	156,513,127	94,618,147	$1,708,494	0	0	0	0	0	0
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$307,753	$617,211	$606,789	$888,409	$804,429	$680,796	$555,384	$364,461	$132,583	$0	$0	$0	$0	$0	$0
Energy		$9,242,051	$20,986,047	$33,585,123	$39,465,755	$33,686,901	$26,772,038	$20,309,934	$12,396,864	$4,194,498	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Benefits	$160,551,287	$9,549,804	$21,603,257	$34,191,912	$40,354,164	$34,491,331	$27,452,834	$20,865,318	$12,761,325	$4,327,081	$0	$0	$0	$0	$0	$0
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$3,200,001	$3,399,000	$3,288,798	$1,365,909	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$2,299,999	$2,266,000	$2,546,160	$1,365,909	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$6,799,999	$9,659,340	$11,431,040	$6,253,130	$0	$0	$2,537,361	$3,074,685	$3,166,925	$1,630,966	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$47,171,233	$10,000,000	$13,058,340	$14,699,830	$7,619,039	$0	$0	$2,537,361	$3,074,685	$3,166,925	$1,630,966	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.029														
Levelized Cost of Saved Capacity ($/kW-yr):		$537														
Total UTILITY Costs	$18,028,169	$5,500,000	$5,665,000	$5,834,950	$2,731,818	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.011														
Levelized Cost of Saved Capacity ($/kW-yr):		$205														

TABLE 2: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL LOW-INCOME ENERGY

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	12

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$43,228,224	**$24,926,920**	**$18,301,304**	**1.73**

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		446	1,603	3,559	5,853	5,264	4,337	3,099	2,084	1,500	594	594	594	519	445	267
Energy Savings (kWh)		6,724,692	24,532,781	54,582,422	87,876,781	77,031,208	61,019,151	55,554,451	42,651,447	21,546,398	4,865,194	4,865,194	4,865,194	4,508,747	3,648,516	2,188,705
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$31,161	$101,957	$142,951	$298,720	$291,604	$260,828	$255,203	$211,438	$115,405	$49,560	$53,798	$58,398	$58,643	$51,604	$33,604
Energy		$766,599	$2,884,603	$6,596,023	$10,829,802	$9,714,338	$7,844,023	$7,209,026	$5,588,190	$2,850,225	$649,735	$644,621	$641,961	$613,596	$506,906	$306,940
	NPV															
Total TRC Benefits	$43,228,224	$797,760	$2,986,560	$6,738,973	$11,128,522	$10,005,941	$8,104,851	$7,464,229	$5,799,629	$2,965,630	$699,294	$698,419	$700,359	$672,240	$558,511	$340,544
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$799,083	$1,894,037	$3,501,828	$5,351,336	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$1,129,822	$2,898,882	$5,075,039	$6,760,129	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$1,129,822	$2,898,882	$5,075,039	$6,760,129	$0	$0	$173,138	$484,263	$839,235	$893,770	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$24,926,920	$1,928,905	$4,792,919	$8,576,867	$12,111,465	$0	$0	$173,138	$484,263	$839,235	$893,770	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.055														
Levelized Cost of Saved Capacity ($/kW-yr):		$767														
Total UTILITY Costs	$23,581,129	$1,928,905	$4,792,919	$8,576,867	$12,111,465	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.052														
Levelized Cost of Saved Capacity ($/kW-yr):		$726														

TABLE 3: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL WHOLE HOME PERFORMANCE

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$4,858,030	$4,060,087	$797,943	1.20

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	20	59	137	132	124	124	124	124	124	124	121	114	101	101
Energy Savings (kWh)		0	873,436	2,620,307	6,114,049	6,013,427	5,872,557	5,872,557	5,872,557	5,872,557	5,872,557	5,872,557	5,971,191	5,468,460	262,997	262,997
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$1,245	$2,359	$6,993	$7,288	$7,451	$8,088	$8,779	$9,530	$10,345	$11,229	$11,864	$12,172	$11,678	$12,677
Energy		$0	$102,700	$316,651	$753,486	$758,348	$754,918	$762,053	$769,422	$776,840	$781,265	$778,093	$669,143	$472,862	$36,539	$36,882
	NPV															
Total TRC Benefits	$4,858,030	$0	$103,945	$319,010	$760,479	$765,636	$762,369	$770,140	$778,201	$786,370	$794,610	$789,323	$681,007	$485,034	$48,217	$49,559
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$343,040	$847,526	$975,045	$1,233,641	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$0	$79,990	$164,779	$339,445	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$0	$175,857	$362,266	$746,267	$0	$0	$0	$0	$0	$0	$0	$3,461	$7,129	$14,685	$0
	NPV															
Total TRC Costs	$4,060,087	$343,040	$1,023,383	$1,337,310	$1,979,908	$0	$0	$0	$0	$0	$0	$0	$3,461	$7,129	$14,685	$0
Levelized Cost of Saved Energy ($/kWh):		$0.068														
Levelized Cost of Saved Capacity ($/kW-yr):		$2,660														
Total UTILITY Costs	$3,461,533	$343,040	$927,516	$1,139,824	$1,573,086	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.058														
Levelized Cost of Saved Capacity ($/kW-yr):		$2,268														

TABLE 4: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL HOME ENERGY INCENTIVES

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$132,973,457	$81,775,759	$51,197,698	1.63

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		430	1,943	3,678	5,421	5,389	5,345	5,345	5,345	5,345	5,345	5,312	5,156	4,872	4,421	3,662
Energy Savings (kWh)		10,823,677	48,833,331	92,444,943	136,253,750	135,619,961	134,732,655	134,732,655	134,732,655	134,732,655	134,732,655	133,272,047	127,722,161	120,263,487	108,499,529	92,679,920
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$30,058	$123,576	$147,714	$276,639	$298,547	$321,421	$348,906	$378,742	$411,129	$446,285	$481,419	$507,287	$520,343	$512,579	$460,790
Energy		$1,233,646	$5,741,899	$11,171,526	$16,791,707	$17,102,913	$17,319,907	$17,483,590	$17,652,665	$17,822,856	$17,993,211	$17,658,196	$16,852,913	$16,395,775	$15,074,375	$12,997,254
	NPV															
Total TRC Benefits	$132,973,457	$1,263,704	$5,865,476	$11,319,240	$17,068,345	$17,401,460	$17,641,328	$17,832,496	$18,031,406	$18,233,984	$18,439,496	$18,139,616	$17,360,199	$16,916,117	$15,586,955	$13,458,040
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$1,608,613	$3,984,605	$5,309,847	$5,172,638	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$1,459,913	$5,283,315	$6,244,131	$6,460,065	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$5,814,968	$21,045,424	$24,874,132	$25,734,902	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$81,775,759	$7,423,581	$25,030,029	$30,183,980	$30,907,540	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.049														
Levelized Cost of Saved Capacity ($/kW-yr):		$1,220														
Total UTILITY Costs	$31,077,960	$3,068,526	$9,267,720	$11,553,979	$11,632,704	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.018														
Levelized Cost of Saved Capacity ($/kW-yr):		$464														

TABLE 5: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL NEW CONSTRUCTION

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$995,001	$3,100,997	($2,105,996)	0.32

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	10	48	87	87	87	87	87	87	87	87	87	87	87	87
Energy Savings (kWh)		0	110,827	554,133	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443	997,443
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$614	$1,937	$4,430	$4,809	$5,220	$5,666	$6,151	$6,676	$7,247	$7,867	$8,540	$9,270	$10,063	$10,923
Energy		$0	$13,031	$66,963	$122,923	$125,787	$128,222	$129,433	$130,685	$131,945	$133,206	$132,158	$131,612	$135,984	$138,580	$139,880
	NPV															
Total TRC Benefits	$995,001	$0	$13,645	$68,901	$127,353	$130,595	$133,441	$135,099	$136,836	$138,621	$140,453	$140,025	$140,152	$145,254	$148,643	$150,803
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$150,604	$638,473	$898,503	$925,458	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$0	$52,524	$216,398	$222,890	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$0	$195,048	$432,796	$445,780	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$3,100,997	$150,604	$743,521	$1,331,299	$1,371,238	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.245														
Levelized Cost of Saved Capacity ($/kW-yr):		$2,820														
Total UTILITY Costs	$2,685,016	$150,604	$690,997	$1,114,901	$1,148,348	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.213														
Levelized Cost of Saved Capacity ($/kW-yr):		$2,442														

TABLE 6: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL APPLIANCE PICKUP

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	8

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$63,664,255	$6,815,231	$56,849,024	9.34

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		1,590	6,359	11,128	15,897	15,897	15,897	15,897	15,897	14,307	9,538	4,769	0	0	0	0
Energy Savings (kWh)		8,267,351	33,069,405	57,871,458	82,673,511	82,673,511	82,673,511	82,673,511	82,673,511	74,406,160	49,604,107	24,802,053	0	0	0	0
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$111,010	$404,513	$446,939	$811,277	$880,651	$955,958	$1,037,703	$1,126,439	$1,100,487	$796,395	$432,248	$0	$0	$0	$0
Energy		$942,459	$3,888,352	$6,993,487	$10,188,559	$10,425,883	$10,627,695	$10,728,132	$10,831,879	$9,842,679	$6,624,505	$3,286,185	$0	$0	$0	$0
	NPV															
Total TRC Benefits	$63,664,255	$1,053,468	$4,292,865	$7,440,426	$10,999,836	$11,306,535	$11,583,652	$11,765,836	$11,958,318	$10,943,166	$7,420,900	$3,718,433	$0	$0	$0	$0
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$843,292	$2,230,030	$2,296,931	$2,365,839	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$189,250	$584,783	$602,326	$620,396	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$6,815,231	$843,292	$2,230,030	$2,296,931	$2,365,839	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.010														
Levelized Cost of Saved Capacity ($/kW-yr):		$54														
Total UTILITY Costs	$8,570,507	$1,032,542	$2,814,813	$2,899,257	$2,986,235	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.013														
Levelized Cost of Saved Capacity ($/kW-yr):		$67														

TABLE 7: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: COMMERCIAL/INDUSTRIAL EQUIPMENT INCENTIVES

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$209,128,822	$137,242,444	$71,886,378	1.52

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		3,650	27,693	48,237	68,681	64,592	63,350	59,665	54,831	50,015	48,078	47,360	44,379	41,094	37,943	37,833
Energy Savings (kWh)		15,797,745	120,845,882	211,220,531	301,171,841	283,627,316	280,336,008	272,623,273	260,174,888	247,626,972	239,474,656	236,448,080	223,112,616	210,214,178	197,085,245	196,761,398
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$254,882	$1,761,606	$1,937,413	$3,505,112	$3,573,285	$3,809,609	$3,894,819	$3,886,733	$3,847,081	$4,014,351	$4,292,602	$4,346,672	$4,388,834	$4,398,811	$4,761,123
Energy (used blended C&I avoided energy cost)		$1,169,786	$9,381,454	$17,086,723	$25,084,148	$24,437,079	$24,837,820	$24,485,852	$23,694,112	$22,864,170	$22,414,232	$21,882,438	$20,526,314	$20,260,886	$19,508,471	$19,732,816
	NPV															
Total TRC Benefits	$209,128,822	$1,424,669	$11,143,060	$19,024,136	$28,589,260	$28,010,363	$28,647,429	$28,380,672	$27,580,844	$26,711,251	$26,428,584	$26,175,040	$24,872,986	$24,649,719	$23,907,282	$24,493,938
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$1,611,574	$5,928,996	$9,018,154	$12,532,008	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$1,700,987	$10,201,469	$10,199,843	$10,505,838	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$6,663,801	$30,340,325	$40,418,874	$41,634,869	$140,801	$18,954	$23,269	$19,570	$20,157	$20,762	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$137,242,444	$8,275,374	$45,469,231	$49,437,029	$54,166,877	$140,801	$18,954	$23,269	$19,570	$20,157	$20,762	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.042														
Levelized Cost of Saved Capacity ($/kW-yr):		$197														
Total UTILITY Costs	$53,540,432	$3,312,561	$16,130,366	$19,217,997	$23,037,846	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.016														
Levelized Cost of Saved Capacity ($/kW-yr):		$77														

TABLE 9: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: GOVERNMENT/PUBLIC/NON-PROFIT/ FACILITY ENERGY SAVINGS

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$175,726,984	$102,955,692	$72,771,292	1.71

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		2,596	17,449	32,303	47,356	47,126	46,643	44,974	43,024	41,070	40,568	39,997	36,925	33,882	30,595	30,595
Energy Savings (kWh)		13,017,518	88,264,097	163,540,676	239,152,533	238,186,741	236,926,648	233,162,793	225,879,050	218,573,547	213,527,819	211,735,686	202,335,359	193,063,260	183,210,355	183,210,355
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$181,289	$1,110,062	$1,297,431	$2,416,760	$2,610,676	$2,804,893	$2,935,777	$3,048,708	$3,159,106	$3,387,329	$3,625,208	$3,632,932	$3,618,575	$3,546,957	$3,850,264
Energy (used blended C&I avoided energy cost)		$963,917	$6,852,880	$13,227,226	$19,918,654	$20,521,959	$20,991,743	$20,941,528	$20,570,792	$20,181,577	$19,985,673	$19,595,393	$18,614,811	$18,607,844	$18,135,065	$18,373,808
	NPV															
Total TRC Benefits	$175,726,984	$1,145,206	$7,962,142	$14,524,656	$22,335,414	$23,132,634	$23,796,636	$23,877,305	$23,619,500	$23,340,682	$23,373,002	$23,220,601	$22,247,743	$22,226,419	$21,682,022	$22,224,072
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$1,144,817	$3,047,688	$5,082,520	$7,986,406	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$1,545,547	$8,996,356	$9,266,246	$9,691,752	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$5,182,442	$31,130,473	$32,084,387	$33,470,376	$6,190	$6,376	$7,403	$5,073	$5,225	$5,382	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$102,955,692	$6,327,259	$34,178,161	$37,066,907	$40,556,781	$6,190	$6,376	$7,403	$5,073	$5,225	$5,382	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.036														
Levelized Cost of Saved Capacity ($/kW-yr):		$192														
Total UTILITY Costs	$39,782,679	$2,690,363	$12,044,044	$14,268,766	$16,778,157	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.014														
Levelized Cost of Saved Capacity ($/kW-yr):		$74														

TABLE 10: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RENEWABLE RESOURCES

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$1,775,965	$8,871,626	($7,095,662)	0.20

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	276	745	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572	1,572
Energy Savings (kWh)		0	213,789	568,891	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259	1,210,259
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$17,544	$29,907	$80,225	$87,085	$94,532	$102,616	$111,390	$120,916	$131,255	$142,479	$154,663	$167,888	$182,245	$197,829
Energy (used Blended (average of Res/C&I) avoi		$0	$19,444	$53,596	$116,917	$120,391	$123,346	$124,816	$126,335	$127,864	$129,394	$128,122	$127,461	$132,764	$135,914	$137,491
	NPV															
Total TRC Benefits	$1,775,965	$0	$36,988	$83,504	$197,142	$207,477	$217,878	$227,432	$237,725	$248,779	$260,649	$270,601	$282,123	$300,652	$318,159	$335,320
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$125,081	$845,983	$879,717	$922,099	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$0	$386,250	$676,324	$1,229,318	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$0	$1,287,500	$2,254,413	$4,097,726	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$8,871,626	$125,081	$2,133,483	$3,134,130	$5,019,816	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.580														
Levelized Cost of Saved Capacity ($/kW-yr):		$446														
Total UTILITY Costs	$4,353,841	$125,081	$1,232,233	$1,556,041	$2,151,408	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.284														
Levelized Cost of Saved Capacity ($/kW-yr):		$219														

PECO ENERGY EFFICIENCY & CONSERVATION PLAN
TRC Results -- 15-YEAR PLANNING HORIZON (2009-2023)
Demand Reduction Programs

	Program	Dollars			B/C Ratio
		Lifetime Benefits	Lifetime Costs	Net Benefits	
1	RESIDENTIAL DIRECT LOAD CONTROL	$41,672,325	$40,876,238	$796,087	1.02
2	RESIDENTIAL SUPER PEAK TOU	$16,790,666	$11,188,012	$5,602,653	1.50
3	COMMERCIAL/INDUSTRIAL DIRECT LOAD CONTROL	$9,942,985	$9,146,895	$796,090	1.09
4	COMMERCIAL/INDUSTRIAL SUPER PEAK TOU	$17,609,936	$10,219,213	$7,390,724	1.72
5	DR AGGREGATOR CONTRACTS	$98,863,213	$95,471,677	$3,391,536	1.04
6	DISTRIBUTED ENERGY RESOURCES	$57,315,403	$54,997,391	$2,318,012	1.04
7	PERMANENT LOAD REDUCTION	$28,420,262	$18,954,006	$9,466,257	1.50
8	CONSERVATION VOLTAGE REDUCTION	$112,617,562	$4,663,656	$107,953,906	24.15
TOTAL		**$383,232,353**	**$245,517,087**	**$137,715,265**	**1.56**

COST EFFECTIVENESS ANALYSIS INPUT SUMMARY TABLE

General Data

Discount Rate (%)	7.45%
General Escalation Rate (%)	3.00%
Avoided Costs Escalation Ra	1.78%
Program Year Start	2009
Analysis Framework	15-YEAR PLANNING HORIZON
Externality Factor	0%
Table Titles	DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 - 15-YEAR PLANNING HORIZON SUMMARY
Customer to Generation Rati	9.35%

Program-Specific Data (from linked individual program files)

Program Number	Program Name	Measure Lifetime	Net to Gross Ratio		Avoided Cost Scenario
			Energy	Demand	
1	RESIDENTIAL DIRECT LOAD CONTROL	15	1.0000	1.0000	Residential
2	RESIDENTIAL SUPER PEAK TOU	15	1.0000	1.0000	Residential
3	COMMERCIAL/INDUSTRIAL DIRECT LOAD CONTROL	15	1.0000	1.0000	Small C&I
4	COMMERCIAL/INDUSTRIAL SUPER PEAK TOU	15	1.0000	1.0000	Blended C&I
5	DR AGGREGATOR CONTRACTS	15	1.0000	1.0000	Large C&I
6	DISTRIBUTED ENERGY RESOURCES	15	1.0000	1.0000	Large C&I
7	PERMANENT LOAD REDUCTION	15	1.0000	1.0000	Large C&I
8	CONSERVATION VOLTAGE REDUCTION	15	1.0000	1.0000	Blended Res/C&I

Program Number	Net System Energy Savings (kWh)														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	0	2,881,191	4,241,236	5,611,076	5,583,020	5,555,105	5,527,330	5,499,693	5,472,194	5,444,833	5,417,609	5,390,521	5,363,569	5,336,751	5,310,067
2	0	0	1,458,356	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880
3	0	644,236	1,207,943	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590
4	0	0	1,440,430	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348
5	0	5,815,720	11,031,440	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159
6	0	17,209,046	30,115,830	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614
7	492,571	6,977,564	19,422,629	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695
8	0	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836

Program Number	Net System Peak Demand Savings (kW)														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	0	34,362	50,719	67,175	66,839	66,505	66,172	65,841	65,512	65,185	64,859	64,534	64,212	63,891	63,571
2	0	0	14,584	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089
3	0	6,442	12,079	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106
4	0	0	14,404	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133
5	0	58,157	110,314	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472
6	0	22,063	38,610	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157
7	0	4,248	10,253	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259
8	0	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466

Program Number	Implementation Costs														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	1,190,775	2,282,173	2,296,506	2,421,504	704,289	724,206	744,690	765,758	787,426	809,712	832,633	856,208	880,455	905,393	931,044
2	127,509	1,031,749	1,516,236	1,610,896	438,374	451,525	465,071	479,023	493,394	508,195	523,441	539,144	555,319	571,978	589,138
3	728,320	1,076,696	1,026,459	1,076,922	356,024	366,704	377,705	389,037	400,709	412,729	425,111	437,864	451,000	464,530	478,466
4	121,438	1,031,749	1,465,313	1,528,941	353,961	364,579	375,517	386,782	398,386	410,337	422,647	435,327	448,387	461,838	475,693
5	211,841	3,696,069	7,323,835	11,165,940	11,348,168	11,688,613	12,039,271	12,400,449	12,772,463	13,155,637	13,550,306	13,956,815	14,375,519	14,806,785	15,250,988
6	266,081	1,437,671	2,317,056	3,230,699	374,232	385,459	397,022	408,933	421,201	433,837	0	460,258	474,065	488,287	502,936
7	225,534	522,324	848,042	1,180,070	0	0	0	0	0	0	0	0	0	0	0
8	2,059,549	2,143,607	186,371	191,962	43,473	44,777	46,120	47,504	48,929	50,397	51,909	53,466	55,070	56,722	58,424

Program Number	Incentive Costs														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	0	5,553,039	8,423,652	11,481,501	11,766,816	12,059,222	12,358,893	12,666,012	12,980,762	13,303,334	13,633,922	13,972,725	14,319,947	14,675,798	15,040,492
2	0	0	1,273,080	2,294,727	2,363,569	2,434,476	2,507,510	2,582,735	2,660,217	2,740,024	2,822,224	2,906,891	2,994,098	3,083,921	3,176,438
3	0	988,800	1,909,620	2,622,545	2,701,221	2,782,258	2,865,726	2,951,697	3,040,248	3,131,456	3,225,399	3,322,161	3,421,826	3,524,481	3,630,215
4	0	0	254,616	655,636	675,305	695,564	716,431	737,924	760,062	782,864	806,350	830,540	855,457	881,120	907,554
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1,575,000	2,703,750	3,341,835	3,442,090	0	0	0	0	0	0	0	0	0	0	0
7	223,428	747,372	1,190,037	1,233,180	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program Number	Equipment/Participant Costs														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	461,277	1,571,535	2,371,555	3,218,163	3,314,708	3,414,149	3,516,573	3,622,071	3,730,733	3,842,655	3,957,934	4,076,672	4,198,973	4,324,942	4,454,690
2	0	73,095	301,150	542,823	559,107	575,881	593,157	610,952	629,280	648,159	667,603	687,631	708,260	729,508	751,393
3	525,000	901,250	1,299,603	956,136	0	0	0	0	0	0	0	0	0	0	0
4	0	733,360	1,603,550	2,703,407	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	7,500,000	12,875,000	15,913,500	16,390,905	0	0	0	0	0	0	0	0	0	0	0
7	1,442,845	4,135,969	6,640,250	6,839,457	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE I: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL DIRECT LOAD CONTROL

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$41,672,325	$40,876,238	$796,087	1.02

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	34,362	50,710	67,175	66,839	66,505	66,172	65,841	65,512	65,185	64,859	64,534	64,212	63,891	63,571
Energy Savings (kWh)		0	2,881,191	4,241,236	5,611,076	5,583,020	5,555,105	5,527,330	5,499,693	5,472,194	5,444,833	5,417,609	5,390,521	5,363,569	5,336,751	5,310,067
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$2,399,549	$3,225,987	$2,698,651	$3,411,080	$3,684,255	$3,979,306	$4,297,986	$4,642,188	$5,013,955	$5,415,494	$5,849,191	$6,317,620	$6,823,563	$7,370,024
Energy		$0	$338,775	$512,533	$691,508	$704,070	$711,110	$717,254	$720,569	$723,879	$727,144	$717,814	$711,278	$731,227	$741,461	$744,673
	NPV															
Total TRC Benefits	$41,672,325	$0	$2,738,324	$3,738,520	$3,389,551	$4,115,150	$4,398,364	$4,696,560	$5,018,556	$5,366,067	$5,741,099	$6,133,308	$6,560,469	$7,048,846	$7,565,024	$8,114,697
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$1,190,775	$2,382,173	$2,296,506	$2,421,504	$704,289	$724,206	$744,690	$765,758	$787,426	$809,712	$832,633	$856,208	$880,455	$905,393	$931,044
Incentive Costs (paid by Utility)		$0	$5,553,959	$8,423,652	$11,481,561	$11,766,816	$12,059,222	$12,358,893	$12,666,012	$12,980,762	$13,303,334	$13,633,922	$13,972,725	$14,319,947	$14,675,798	$15,040,492
Equipment (paid by Utility)		$461,277	$1,571,535	$2,371,553	$3,218,163	$3,314,708	$3,414,149	$3,516,573	$3,622,071	$3,730,733	$3,842,655	$3,957,934	$4,076,672	$4,198,973	$4,324,942	$4,454,690
	NPV															
Total TRC Costs	$40,876,238	$1,652,052	$3,853,707	$4,668,062	$5,639,667	$4,018,997	$4,138,355	$4,261,264	$4,387,829	$4,518,159	$4,652,367	$4,790,567	$4,932,880	$5,079,427	$5,230,335	$5,385,734
Levelized Cost of Saved Energy ($/kWh):		$0.563														
Levelized Cost of Saved Capacity ($/kW-yr):		$47														
Total UTILITY Costs	$111,192,965	$1,190,775	$7,835,212	$10,720,158	$13,903,005	$12,471,106	$12,783,428	$13,103,584	$13,431,770	$13,768,189	$14,113,046	$14,466,555	$14,828,933	$15,200,402	$15,581,192	$15,971,535
Levelized Cost of Saved Energy ($/kWh):		$1.531														
Levelized Cost of Saved Capacity ($/kW-yr):		$128														

TABLE 2: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: RESIDENTIAL SUPER PEAK TOU

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$16,790,666	$11,188,012	$5,602,653	1.50

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	0	14,584	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089	28,089
Energy Savings (kWh)		0	0	1,458,356	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880	2,808,880
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$0	$927,746	$1,128,176	$1,433,492	$1,536,073	$1,689,136	$1,833,577	$1,990,370	$2,160,571	$2,345,325	$2,545,879	$2,763,582	$2,999,901	$3,256,428
Energy		$0	$0	$176,235	$346,162	$354,225	$361,082	$364,494	$368,019	$371,567	$375,139	$373,167	$370,631	$382,941	$390,252	$393,912
	NPV															
Total TRC Benefits	$16,790,666	$0	$0	$1,103,981	$1,474,338	$1,787,718	$1,917,155	$2,053,631	$2,201,597	$2,361,938	$2,535,690	$2,717,492	$2,916,510	$3,146,522	$3,390,153	$3,650,340
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$127,509	$1,031,749	$1,516,236	$1,630,896	$438,574	$451,525	$465,071	$479,023	$493,394	$508,195	$523,441	$539,144	$555,319	$571,978	$589,138
Incentive Costs (paid by Utility)		$0	$0	$1,273,080	$2,294,727	$2,363,569	$2,434,476	$2,507,510	$2,582,735	$2,660,217	$2,740,023	$2,822,224	$2,906,891	$2,994,098	$3,083,921	$3,176,438
Participant (paid by Participant)		$0	$73,095	$301,150	$542,823	$559,107	$575,881	$593,157	$610,952	$629,280	$648,159	$667,603	$687,631	$708,260	$729,508	$751,393
	NPV															
Total TRC Costs	$11,188,012	$127,509	$1,104,843	$1,817,386	$2,153,718	$997,481	$1,027,406	$1,058,228	$1,089,975	$1,122,674	$1,156,354	$1,191,045	$1,226,776	$1,263,579	$1,301,487	$1,340,531
Levelized Cost of Saved Energy ($/kWh):		$0.318														
Levelized Cost of Saved Capacity ($/kW-yr):		$32														
Total UTILITY Costs	$25,534,351	$127,509	$1,031,749	$2,789,316	$3,905,622	$2,801,942	$2,886,601	$2,972,581	$3,061,758	$3,153,611	$3,248,219	$3,345,666	$3,446,036	$3,549,417	$3,655,899	$3,765,576
Levelized Cost of Saved Energy ($/kWh):		$0.726														
Levelized Cost of Saved Capacity ($/kW-yr):		$73														

TABLE 3: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: COMMERCIAL/INDUSTRIAL DIRECT LOAD CONTROL

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$9,942,985	$9,146,895	$796,090	1.09

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	6,442	12,079	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106	16,106
Energy Savings (kWh)		0	644,236	1,207,943	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590	1,610,590
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$449,882	$768,443	$646,887	$821,953	$892,240	$968,537	$1,051,359	$1,141,263	$1,238,854	$1,344,791	$1,459,787	$1,584,616	$1,720,120	$1,867,211
Energy (used Small C&I avoided energy cost)		$0	$54,168	$105,508	$144,532	$149,155	$153,087	$155,044	$157,065	$159,099	$161,136	$159,443	$158,562	$165,620	$169,812	$171,911
	NPV															
Total TRC Benefits	$9,942,985	$0	$504,050	$873,951	$791,419	$971,109	$1,045,327	$1,123,581	$1,208,424	$1,300,362	$1,399,990	$1,504,234	$1,618,349	$1,750,237	$1,889,932	$2,039,122
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$728,320	$1,076,696	$1,026,459	$1,076,922	$356,024	$366,704	$377,705	$389,037	$400,708	$412,729	$425,111	$437,864	$451,000	$464,530	$478,466
Incentive Costs (paid by Utility)		$0	$988,800	$1,909,620	$2,622,545	$2,701,221	$2,782,258	$2,865,726	$2,951,697	$3,040,248	$3,131,456	$3,225,399	$3,322,161	$3,421,826	$3,524,481	$3,630,215
Participant (paid by Participant)		$525,000	$901,250	$1,299,603	$956,136	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$9,146,895	$1,253,320	$1,977,946	$2,326,062	$2,033,058	$356,024	$366,704	$377,705	$389,037	$400,708	$412,729	$425,111	$437,864	$451,000	$464,530	$478,466
Levelized Cost of Saved Energy ($/kWh):		$0.432														
Levelized Cost of Saved Capacity ($/kW-yr):		$43														
Total UTILITY Costs	$28,778,669	$728,320	$2,065,496	$2,936,079	$3,699,467	$3,057,245	$3,148,962	$3,243,431	$3,340,734	$3,440,956	$3,544,185	$3,650,510	$3,760,025	$3,872,826	$3,989,011	$4,108,681
Levelized Cost of Saved Energy ($/kWh):		$1.359														
Levelized Cost of Saved Capacity ($/kW-yr):		$136														

TABLE 4: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: COMMERCIAL/INDUSTRIAL SUPER PEAK TOU

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$17,609,936	$10,219,213	$7,390,724	1.72

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	0	14,464	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133	31,133
Energy Savings (kWh)		0	0	1,440,430	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348	3,113,348
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$0	$916,342	$1,250,464	$1,588,875	$1,724,743	$1,872,229	$2,032,327	$2,206,116	$2,394,765	$2,599,546	$2,821,838	$3,063,139	$3,325,074	$3,609,408
Energy (used blended C&I avoided energy cost)		$0	$0	$116,524	$259,306	$268,243	$275,843	$279,626	$283,532	$287,465	$291,402	$288,129	$286,427	$300,071	$308,175	$312,232
	NPV															
Total TRC Benefits	$17,609,936	$0	$0	$1,032,866	$1,509,770	$1,857,119	$2,000,586	$2,151,855	$2,315,860	$2,493,581	$2,686,167	$2,887,675	$3,108,266	$3,363,210	$3,633,249	$3,921,639
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$121,438	$1,031,749	$1,465,313	$1,528,941	$353,961	$364,579	$375,517	$386,782	$398,386	$410,337	$422,647	$435,327	$448,387	$461,838	$475,693
Incentive Costs (paid by Utility)		$0	$0	$254,616	$655,636	$675,305	$695,564	$716,431	$737,924	$760,062	$782,864	$806,350	$830,540	$855,457	$881,120	$907,554
Participant (paid by Participant)		$0	$733,360	$1,603,550	$2,703,407	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$10,219,213	$121,438	$1,765,109	$3,068,863	$4,232,348	$353,961	$364,579	$375,517	$386,782	$398,386	$410,337	$422,647	$435,327	$448,387	$461,838	$475,693
Levelized Cost of Saved Energy ($/kWh):		$0.263														
Levelized Cost of Saved Capacity ($/kW-yr):		$26														
Total UTILITY Costs	$11,268,577	$121,438	$1,031,749	$1,719,929	$2,184,577	$1,029,266	$1,060,144	$1,091,948	$1,124,707	$1,158,448	$1,193,201	$1,228,997	$1,265,867	$1,303,843	$1,342,959	$1,383,247
Levelized Cost of Saved Energy ($/kWh):		$0.290														
Levelized Cost of Saved Capacity ($/kW-yr):		$29														

TABLE 5: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: DR AGGREGATOR CONTRACTS

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$98,863,213	$95,471,677	$3,391,536	1.04

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	55,157	110,314	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472	165,472
Energy Savings (kWh)		0	5,515,720	11,031,440	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159	16,547,159
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$3,851,726	$7,017,744	$6,646,100	$8,444,727	$9,166,852	$9,950,728	$10,801,634	$11,725,303	$12,727,956	$13,816,349	$14,997,812	$16,280,304	$17,672,465	$19,183,672
Energy (used large C&I avoided energy cost)		$0	$392,618	$821,238	$1,271,459	$1,318,959	$1,359,352	$1,379,455	$1,400,220	$1,421,122	$1,442,044	$1,424,652	$1,415,606	$1,488,121	$1,531,190	$1,562,753
	NPV															
Total TRC Benefits	$98,863,213	$0	$4,244,344	$7,838,982	$7,917,559	$9,763,686	$10,526,204	$11,330,182	$12,201,854	$13,146,424	$14,170,000	$15,241,001	$16,413,418	$17,768,425	$19,203,655	$20,736,425
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$211,841	$3,696,069	$7,323,835	$11,165,940	$11,348,168	$11,688,613	$12,039,271	$12,400,449	$12,772,463	$13,155,637	$13,550,306	$13,956,815	$14,375,519	$14,806,785	$15,250,988
Incentive Costs (paid by Utility)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$95,471,677	$211,841	$3,696,069	$7,323,835	$11,165,940	$11,348,168	$11,688,613	$12,039,271	$12,400,449	$12,772,463	$13,155,637	$13,550,306	$13,956,815	$14,375,519	$14,806,785	$15,250,988
Levelized Cost of Saved Energy ($/kWh):		$0.444														
Levelized Cost of Saved Capacity ($/kW-yr):		$44														
Total UTILITY Costs	$95,471,677	$211,841	$3,696,069	$7,323,835	$11,165,940	$11,348,168	$11,688,613	$12,039,271	$12,400,449	$12,772,463	$13,155,637	$13,550,306	$13,956,815	$14,375,519	$14,806,785	$15,250,988
Levelized Cost of Saved Energy ($/kWh):		$0.444														
Levelized Cost of Saved Capacity ($/kW-yr):		$44														

TABLE 6: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: DISTRIBUTED ENERGY RESOURCES

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$57,315,403	$54,997,391	$2,318,012	1.04

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	22,063	38,610	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157	55,157
Energy Savings (kWh)		0	17,209,046	30,115,830	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614	43,022,614
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$1,540,691	$2,456,210	$2,215,367	$2,814,909	$3,055,617	$3,316,909	$3,600,545	$3,908,434	$4,242,652	$4,605,450	$4,999,271	$5,426,768	$5,890,822	$6,394,557
Energy (used large C&I avoided energy cost)		$0	$1,224,967	$2,241,978	$3,305,793	$3,429,295	$3,534,315	$3,586,582	$3,640,571	$3,694,916	$3,749,314	$3,704,096	$3,680,576	$3,869,114	$3,981,095	$4,037,158
	NPV															
Total TRC Benefits	$57,315,403	$0	$2,765,657	$4,698,189	$5,521,160	$6,244,204	$6,589,933	$6,903,492	$7,241,116	$7,603,350	$7,991,966	$8,309,545	$8,679,846	$9,295,882	$9,871,917	$10,431,715
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$266,081	$1,437,671	$2,317,056	$3,230,699	$374,232	$385,459	$397,022	$408,933	$421,201	$433,837	$0	$460,258	$474,065	$488,287	$502,936
Incentive Costs (paid by Utility)		$1,575,000	$2,703,750	$3,341,835	$3,442,090	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$7,500,000	$12,875,000	$15,913,500	$16,390,905	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$54,997,391	$7,766,081	$14,312,671	$18,230,556	$19,621,604	$374,232	$385,459	$397,022	$408,933	$421,201	$433,837	$0	$460,258	$474,065	$488,287	$502,936
Levelized Cost of Saved Energy ($/kWh):		$0.098														
Levelized Cost of Saved Capacity ($/kW-yr):		$76														
Total UTILITY Costs	$18,279,719	$1,841,081	$4,141,421	$5,658,891	$6,672,789	$374,232	$385,459	$397,022	$408,933	$421,201	$433,837	$0	$460,258	$474,065	$488,287	$502,936
Levelized Cost of Saved Energy ($/kWh):		$0.032														
Levelized Cost of Saved Capacity ($/kW-yr):		$25														

TABLE 7: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: PERMANENT LOAD REDUCTION

Discount Rate	7.45%
Cost Escalation Rate	3.0%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$28,420,262	$18,954,006	$9,466,257	1.50

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	4,248	10,253	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259	16,259
Energy Savings (kWh)		497,571	6,977,564	19,422,629	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695	31,867,695
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$296,614	$652,257	$653,019	$829,745	$900,698	$977,719	$1,061,325	$1,152,081	$1,250,598	$1,357,539	$1,473,625	$1,599,638	$1,736,426	$1,884,911
Energy (used large C&I avoided energy cost)		$33,635	$496,674	$1,445,921	$2,448,666	$2,540,146	$2,617,937	$2,656,652	$2,696,642	$2,736,897	$2,777,190	$2,743,696	$2,726,275	$2,865,929	$2,948,875	$2,990,402
	NPV															
Total TRC Benefits	$28,420,262	$33,635	$793,288	$2,098,178	$3,101,685	$3,369,891	$3,518,635	$3,634,371	$3,757,968	$3,888,978	$4,027,788	$4,101,236	$4,199,900	$4,465,567	$4,685,301	$4,875,313
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$225,534	$522,324	$848,042	$1,180,070	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Incentive Costs (paid by Utility)		$223,428	$747,372	$1,190,037	$1,233,180	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$1,142,845	$4,155,969	$6,640,250	$6,839,457	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$18,954,006	$1,668,379	$4,658,294	$7,488,292	$8,019,527	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.046														
Levelized Cost of Saved Capacity ($/kW-yr):		$90														
Total UTILITY Costs	$5,341,165	$448,961	$1,269,696	$2,038,078	$2,413,250	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Levelized Cost of Saved Energy ($/kWh):		$0.013														
Levelized Cost of Saved Capacity ($/kW-yr):		$25														

TABLE 8: **DETAILED TRC SUMMARY FOR PROGRAM YEAR 2009 -- 15-YEAR PLANNING HORIZON SUMMARY**
PROGRAM NAME: CONSERVATION VOLTAGE REDUCTION

Discount Rate	7.45%
Cost Escalation Rate	3.09%
Measure Lifetime (years)	15

TRC Summary	Benefits	Costs	Net Benefits	B/C Ratio
	$112,617,562	$4,663,656	$107,953,906	24.15

		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Cumulative Savings (Net System Level)																
Peak Demand Reduction (kW)		0	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466	12,466
Energy Savings (kWh)		0	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836	121,345,836
		2009	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
BENEFIT CALCULATIONS:																
Avoided Cost Elements:																
Demand		$0	$870,490	$793,005	$500,673	$636,169	$690,570	$749,621	$813,723	$883,306	$958,839	$1,040,832	$1,129,835	$1,226,450	$1,331,326	$1,445,170
Energy (used Blended (average of Res/C&I) avo		$0	$11,036,189	$11,432,215	$11,722,634	$12,070,972	$12,367,185	$12,514,604	$12,666,880	$12,829,161	$12,973,591	$12,846,052	$12,779,714	$13,311,489	$13,627,332	$13,785,458
	NPV															
Total TRC Benefits	$112,617,562	$0	$11,906,679	$12,225,220	$12,223,306	$12,707,141	$13,057,754	$13,264,226	$13,480,603	$13,703,467	$13,932,430	$13,886,884	$13,909,549	$14,537,939	$14,958,658	$15,230,628
COST CALCULATIONS:																
Program Cost Elements:																
Implementation Costs (paid by Utility)		$2,059,549	$2,143,607	$186,371	$191,962	$43,473	$44,777	$46,120	$47,504	$48,929	$50,397	$51,909	$53,466	$55,070	$56,722	$58,424
Incentive Costs (paid by Utility)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Participant (paid by Participant)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	NPV															
Total TRC Costs	$4,663,656	$2,059,549	$2,143,607	$186,371	$191,962	$43,473	$44,777	$46,120	$47,504	$48,929	$50,397	$51,909	$53,466	$55,070	$56,722	$58,424
Levelized Cost of Saved Energy ($/kWh):		$0.003														
Levelized Cost of Saved Capacity ($/kW-yr):		$27														
Total UTILITY Costs	$4,663,656	$2,059,549	$2,143,607	$186,371	$191,962	$43,473	$44,777	$46,120	$47,504	$48,929	$50,397	$51,909	$53,466	$55,070	$56,722	$58,424
Levelized Cost of Saved Energy ($/kWh):		$0.003														
Levelized Cost of Saved Capacity ($/kW-yr):		$27														