

**PENNSYLVANIA POWER COMPANY
EE&C PLAN**

**Revised Pages 97 and 98
(Revised, July 31, 2009)**

8. Cost Effectiveness

8.1. Explain and demonstrate how the proposed plan will be cost effective as defined by the Total Resource Cost Test (TRC) specified by the Commission.

The EE&C plan is based upon the requirements and guidance of the Total Resource Cost Test Manual (May 28, 2009), with some minor changes that were requested during the comment period. Notable changes were the use of a marginal transmission and distribution costs instead of the full transmission and distribution rates. As stated in the FirstEnergy Companies' Comments to the draft TRC test order, dated June 5, 2009, the Companies acknowledged that they would not have the ability to address changes at this late date but would review the final TRC Order and, if necessary, make any necessary changes in a filing by August 1, 2009.

The TRC method utilized by the Company takes into account the combined effects of the EE&C Plan on both participating and non-participating customers. The sum of costs incurred by both the Company and any participating customers was used to calculate the costs. The benefits calculated in the TRC test include the avoided supply costs, including generation, transmission and distribution capacity costs valued at marginal cost, and the avoided energy supply costs calculated using the Commission requested third stage approach.

On the benefits side the approach requires during the first five-year period that the avoided energy costs be calculated using the wholesale electric generation prices as reflected in the NYMEX PJM futures price, to reflect both on- and off-peak prices on a 50% on- and 50% off-peak basis. FirstEnergy assumes the 5 years as 2009 through 2013 as PJM West Hub forward contracts are not yet traded beyond 2013, and the 2009 data reflects actual settlement prices through May 22 and forward contracts thereafter. FirstEnergy chose a forward market data point of May 22, 2009, and applied an exponentially weighted moving average (EMA) method to the forward data to normalize for daily volatility. The EMA provides a balance between transmitting changes in market expectations as reflected by futures prices while dampening any possible influence of illiquidity (10 days of trades provides more available observations) and large swings due to few traders moving the market.

The Commission approach called for in the second five-year period has the avoided energy costs calculated using the NYMEX natural gas futures price. The natural gas futures price was then converted into an estimated wholesale energy price through the use of a standard spark spread method expanded to reflect monthly spreads for the "prompt year" applied to the entire 5 year period. The PJM West Hub price was derived based on the forward market price at Henry Hub and the relationship between PJM West Hub Power and Henry Hub Natural gas forwards in 2013. Specifically, heat rates for the Spark Spread calculation are based on the annual on peak and off peak forward market implied heat rate for 2013 (Off Peak On Peak) similar to the first 5 year period, this calculation used the natural gas forward market observation date of May 22, 2009 utilizing an averaging method to normalize for daily volatility.

The Commission approach in the third five-year period requires that the avoided energy costs use the EIA Annual Energy Outlook. The prices during this timeframe are based on the US Department of Energy's (DOE) Energy Information Administration's (EIA) Annual Energy Outlook (AEO) published in May 2009. The EIA AEO does not directly include price for PJM West Hub, rather, the AEO publishes national average retail "end user" prices. To derive wholesale prices for PJM West Hub, PJM on peak, off peak, and around the clock actual annual average PJM West Hub prices from 2006, 2007, and 2008 were compared to the EIA AEO national retail price averages in those years and a multiplier was calculated to convert EIA AEO nominal generation prices from AEO 2009 Low Price Case tables (table 8, line 90) prices to PJM West Hub wholesale prices for these 5 forecast years.

For the avoided ancillary services cost, yield curves were created based on monthly average on peak and off peak ancillary service price / PJM West Hub day ahead price relationships for 2006 - 2008. These historic relationships were applied to the provided power prices to create the associated ancillary service prices.

For the avoided capacity cost the Company used a price forecast based on the FirstEnergy latest official and confidential long term price capacity price forecast. It reflects Regional Pricing Model Auction (RPM) assumptions from the second quarter of 2008.

The retail transmission and distribution rates for Penn Power are based on the most recent retail electric tariff rates. The tariff rate schedules were rolled up into rate classes in order to align with the Commission's Act 129 Implementation Orders. The distribution rates were escalated as defined by the Commission in the final TRC test Order entered on June 23, 2009. The escalator is the Producer Price Index Industry data as of July 14, 2009.

The inclusion of full retail distribution rates as avoided costs has changed the total plan TRC results from 1.74 to 2.13 but this change has no effect on the budgetary program costs nor the stated kWh or KW savings presented in the July 1 filing.

The benefits were then calculated using the measure kWh and kW savings multiplied by the assumed number of measure units⁹ and the avoided capacity and energy costs. This value per year was then discounted by taking a Net Present Value (NPV) over the measure life-time using the post-tax weighted average cost of capital (WACC).

On the costs side the TRC test includes the costs of the various programs incurred by the Company and the participating customers, including, equipment, installation, operation, and maintenance costs, cost of removal (less salvage value) for turn-in programs, and administrative costs. The costs are in 2009 dollars and are "as spent" due to the fact that each year's program is evaluated separately by measure and the budgeted number of measure units. Program costs are budgeted by year in 2009 dollars, but operation and maintenance costs are based on measure life and are discounted using NPV back to the program year installed.

As a result, the Company's EE&C Plan is cost-effective based on the TRC test as described above. The results of the TRC test are presented in PUC Table 1 and are expressed as both a net present value and a benefit-cost ratio.

8.2. Provide data tables (see Tables 7A thru 7E).

The following tables present the summary TRC results by program, by year, in the five customer class segments outlined in the Commission Act 129 appendices.

⁹ Measure Unit refers to participants and/or number of items. The measure units, for example, can be a single customer participant (i.e. a customer get a new CAC system) or a count of lights bulbs as in the CFL rebate program.

**PENNSYLVANIA POWER COMPANY
EE&C PLAN**

**Tables 1 and 7 to Appendix G
Revised, July 31, 2009**

Appendix G

Table 1: Portfolio Summary of Lifetime Costs and Benefits

Portfolio Summary of Lifetime Costs and Benefits 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
Residential <i>(exclusive of Low-Income)</i>	11.14%	18,815,383	48,487,950	29,672,566	2.58
Residential Low Income	11.14%	144,882	467,585	322,704	3.23
Commercial/Industrial Small	11.14%	15,184,697	41,094,480	25,909,783	2.71
Commercial/Industrial Large	11.14%	12,705,934	11,746,455	(959,479)	0.92
Governmental/Non-Profit	11.14%	7,214,708	13,495,068	6,280,359	1.87
Total	11.14%	54,065,604	115,291,538	61,225,933	2.13

Table 7A: TRC Benefits Table

Residential		TRC Benefits By Program Per Year (\$000)										Load Reductions in kW		MWh Saved	
Program	Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/L&D	Energy Annual Benefits	Energy Annual On/OH Peak	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	
Demand Reduction	2010	0.74	206,518	153,190	175,234	See footnote 1	(22,045)	See footnote 2	243	2,755	12	1,516			
	2011	0.86	1,254,369	1,075,207	1,221,409		(146,202)		1,841	2,755	87	1,516			
	2012	0.91	724,461	660,835	745,690		(84,854)		2,755	2,755	131	1,516			
	2013	0.00	-	-	-		-		2,755	2,755	131	1,516			
Home Energy Audits	2010	4.33	189,570	821,403	49,393		772,010		97	1,479	1,323	170,544			
	2011	5.03	789,044	3,971,712	252,935		3,718,777		557	1,479	7,408	170,544			
	2012	5.23	789,044	4,127,873	274,168		3,853,705		1,018	1,479	13,492	170,544			
	2013	5.41	789,044	4,268,428	286,933		3,981,495		1,479	1,479	19,577	170,544			
Appliance Turn-In	2010	4.99	97,331	485,714	59,852		423,862		117	1,869	828	94,174			
	2011	5.87	434,680	2,553,286	321,804		2,231,482		701	1,869	4,968	94,174			
	2012	6.14	434,680	2,670,581	348,755		2,321,826		1,285	1,869	9,107	94,174			
	2013	6.37	434,680	2,768,238	364,983		2,403,255		1,869	1,869	13,247	94,174			
EE HVAC	2010	0.85	300,936	256,556	139,115		117,440		234	3,749	231	34,947			
	2011	0.92	1,481,902	1,561,480	742,440		619,040		1,406	3,749	1,384	34,947			
	2012	0.97	1,481,902	1,438,683	798,158		640,525		2,577	3,749	2,537	34,947			
	2013	1.01	1,481,902	1,493,127	831,765		661,362		3,749	3,749	3,691	34,947			
EE Products	2010	2.69	326,507	877,909	94,600		783,310		162	2,530	1,579	177,483			
	2011	2.91	1,596,067	4,638,313	492,389		4,145,924		951	2,530	9,509	177,483			
	2012	3.03	1,596,067	4,832,314	529,927		4,302,386		1,740	2,530	17,439	177,483			
	2013	3.14	1,596,067	5,014,469	552,668		4,461,801		2,530	2,530	25,369	177,483			
New Construction	2010	1.79	180,813	324,305	152,026		172,279		194	2,333	258	41,333			
	2011	1.99	937,244	1,866,755	882,496		984,259		1,264	2,333	1,677	41,333			
	2012	2.08	937,244	1,951,908	936,757		1,015,151		2,333	2,333	3,096	41,333			
	2013	0.00	525	-	-		-		2,333	2,333	3,096	41,333			
Whole Building	2010	0.80	109,848	87,845	19,563		68,282		27	189	104	7,873			
	2011	0.92	198,846	183,714	41,412		142,302		81	189	311	7,873			
	2012	0.96	198,846	190,860	44,105		146,755		135	189	519	7,873			
	2013	0.99	198,846	196,731	45,777		150,953		189	189	727	7,873			
Multiple Family	2010	1.62	7,666	12,389	925		11,464		2	32	24	2,431			
	2011	4.80	13,579	65,240	4,997		60,242		12	32	146	2,431			
	2012	5.01	13,579	68,070	5,448		62,622		22	32	268	2,431			
	2013	5.22	13,579	70,815	5,712		65,103		32	32	390	2,431			
Total		2.58	18,815,383	48,487,950	10,421,439		38,066,510		14,935	14,935	66,227	530,301			

1. Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component therefore the total avoided capacity costs for Generation, Transmission and Distribution are displayed here.

2. The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs are displayed here.

Table 7B: TRC Benefits Table

Residential Low-Income		TRC Benefits By Program Per Year (\$000)														
Program Year	TRC	Program Costs (\$000)		Program Benefits (\$000)	Capacity Annual Benefits		Capacity Annual Gen/T&D		Energy Annual Benefits		Energy Annual On/OffPeak		kW		MWh Saved	
		2010	2011		2012	2013	2010	2011	2012	2013	2010	2011	2012	2013	Annual	Lifetime
Low Income		1.46	31,200	45,674	1,605	See footnote 1 on PUC Table 7A	44,069	See footnote 1 on PUC Table 7A	130,947	See footnote 2 on PUC Table 7A	3	227	93	5,349		
		3.42	40,846	139,623	8,677						21	227	357	5,349		
		3.53	41,605	146,780	9,460						38	227	624	5,349		
		4.34	31,232	135,508	9,918						55	227	859	5,349		
Total	3.23	144,882	467,585	29,659	437,926	55	227	859	5,349							

Table 7C: TRC Benefits Table

Commercial/Industrial Small														
TRC Benefits By Program Per Year (\$000)														
Program	Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/T&D	Energy Annual Benefits	Energy Annual On/Off Peak	Load Reductions in kW			MWh Saved		
									Annual	Annual	Annual	Annual	Annual	Annual
Energy Audit	2010	2.39	141,433	337,959	84,141	See footnote	253,818	See footnote	181	2,896	641	63,882		
	2011	3.41	544,986	1,856,449	454,815	1 on PUC	1,401,634	2 on PUC	1,086	2,896	3,845	63,882		
	2012	1.61	1,258,166	2,021,748	495,856	Table 7A	1,525,892	Table 7A	1,991	2,896	7,050	63,882		
	2013	1.68	1,258,166	2,108,602	519,887		1,588,715		2,896	2,896	10,254	63,882		
Equipment Rebate	2010	2.03	997,478	2,026,344	644,894	See footnote	1,381,450	See footnote	991	14,352	2,423	398,017		
	2011	2.25	4,592,743	10,334,148	3,100,513	1 on PUC	7,233,635	2 on PUC	5,445	14,352	14,016	398,017		
	2012	2.40	4,592,743	11,022,760	3,313,115	Table 7A	7,709,646	Table 7A	9,898	14,352	25,608	398,017		
	2013	2.48	4,592,743	11,386,470	3,445,350		7,941,119		14,353	14,352	37,195	398,017		
Multiple Family	2010	0.67	21,606	14,543	3,333	See footnote	11,211	See footnote	4	68	15	3,223		
	2011	5.58	13,579	75,713	17,588	1 on PUC	58,125	2 on PUC	26	68	91	3,223		
	2012	5.79	13,579	78,566	18,670	Table 7A	59,896	Table 7A	47	68	166	3,223		
	2013	5.96	13,579	80,967	19,345		61,622		68	68	241	3,223		
Total		2.29	18,040,799	41,344,270	12,117,506		29,226,763		17,318	17,316	47,690	465,123		

Table 7D: TRC Benefits Table

Commercial/Industrial Large		TRC Benefits By Program Per Year (\$000)											
		Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/T&D	Energy Annual Benefits	Energy Annual On/Off Peak	Load Reductions in kW Annual	Load Reductions in kW Lifetime	MWh Saved Annual	MWh Saved Lifetime
Equipment Rebate	2010	0.9356	538,991	504,275	198,095		306,180		262	4,209	584	124,499	
	2011	1.0035	2,924,454	2,934,632	1,050,987		1,883,645		1,578	4,209	3,868	124,499	
	2012	1.1124	2,818,958	3,135,836	1,117,227		2,018,609		2,893	4,209	7,152	124,499	
	2013	1.1487	2,818,958	3,238,154	1,158,544		2,079,610		4,209	4,209	10,436	124,499	
Industrial Motors and VSD	2010	1.1406	94,429	107,706	3,643	See footnote 1 on PUC Table 7A	104,063	See footnote 2 on PUC Table 7A	5	75	166	35,408	
	2011	2.2062	261,771	577,528	19,222		558,305		28	75	995	35,408	
	2012	2.3493	261,771	614,988	20,404		594,584		51	75	1,823	35,408	
	2013	2.4194	261,771	633,336	21,142		612,193		75	75	2,652	35,408	
Total		1.18	9,981,104	11,746,455	3,589,264		8,157,191		4,283	4,283	13,088	159,906	

Table 7E: TRC Benefits Table

Governmental/Non-Profit Program	TRC Benefits By Program Per Year (\$000)											
	Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits		Energy Annual Benefits		Load Reductions in kW		MWh Saved	
					Gen/T&D	See footnote 1 on PUC Table 7A	Annual	On/Off Peak	Annual	Annual	Annual	Annual
2010	1.616	506,187	817,995	191,618	See footnote 1 on PUC Table 7A	626,377	See footnote 2 on PUC Table 7A	298	4,344	1,155	162,388	
2011	1.9429	2,355,028	4,575,683	1,021,790	3,553,894	1,777	7,186	1,777	4,344	7,186	162,388	
2012	1.9875	2,460,524	4,890,390	1,093,026	3,797,364	3,257	13,218	3,257	4,344	13,218	162,388	
2013	1.9073	1,552,601	2,961,210	835,282	2,125,928	4,344	16,499	4,344	4,344	16,499	162,388	
Total	1.93	6,874,339	13,245,278	3,141,716	10,103,562	4,344	4,344	4,344	4,344	16,499	162,388	

**PENNSYLVANIA ELECTRIC COMPANY
EE&C PLAN**

**Revised Pages 103 and 104
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The benefits were then calculated using the measure kWh and kW savings multiplied by the assumed number of measure units¹² and the avoided capacity and energy costs. This value per year was then discounted by taking a Net Present Value (NPV) over the measure life-time using the post-tax weighted average cost of capital (WACC).

On the costs side the TRC test includes the costs of the various programs incurred by the Company and the participating customers, including, equipment, installation, operation, and maintenance costs, cost of removal (less salvage value) for turn-in programs, and administrative costs. The costs are in 2009 dollars and are "as spent" due to the fact that each year's program is evaluated separately by measure and the budgeted number of measure units. Program costs are budgeted by year in 2009 dollars, but operation and maintenance costs are based on measure life and are discounted using NPV back to the program year installed.

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Appendix G

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Residential <i>(exclusive of Low-Income)</i>	7.92%	71,442,882	199,580,375	128,137,493	2.79
Residential Low Income	7.92%	472,997	1,991,999	1,519,002	4.21
Commercial/Industrial Small	7.92%	44,102,338	118,206,511	74,104,173	2.68
Commercial/Industrial Large	7.92%	29,014,837	35,310,406	6,295,569	1.22
Governmental/Non-Profit	7.92%	21,487,728	43,257,145	21,769,417	2.01
Total	7.92%	166,520,783	398,346,436	231,825,653	2.39

Table 7A: TRC Benefits Table

Residential		TRC Benefits By Program Per Year (\$000)										
Program	Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/F&D	Energy Annual Benefits	Energy Annual On/Off Peak	Load Reductions in kW		MWh Saved	
									Annual	Lifetime	Annual	Lifetime
Demand Reduction	2010	0.86	876,536	750,110	852,586	See footnote 1	(102,476)	See footnote 2	978	27,729	47	15,405
	2011	0.92	12,075,218	11,130,140	12,567,598		(1,437,458)		14,656	27,729	701	15,405
	2012	0.98	11,599,534	11,334,614	12,728,052		(1,393,438)		27,729	27,729	1,331	15,405
	2013	0.00	-	-	-		-		27,729	27,729	1,331	15,405
Home Energy Audits	2010	5.49	457,704	2,512,611	196,258		2,316,352		339	5,283	3,598	394,084
	2011	6.06	2,037,167	12,344,402	1,023,241		11,321,161		1,987	5,283	20,531	394,084
	2012	6.31	2,037,167	12,844,726	1,103,291		11,741,434		3,655	5,283	37,463	394,084
	2013	6.52	2,037,167	13,288,779	1,151,460		12,137,318		5,283	5,283	54,395	394,084
Appliance Turn-In	2010	6.58	322,225	2,120,009	244,884		1,875,125		419	6,711	2,973	338,108
	2011	7.12	1,559,151	11,104,524	1,312,281		9,792,242		2,516	6,711	17,836	338,108
	2012	7.43	1,559,151	11,584,184	1,414,371		10,169,813		4,614	6,711	32,699	338,108
	2013	7.69	1,559,151	11,983,277	1,475,990		10,507,287		6,711	6,711	47,562	338,108
EE HVAC	2010	0.99	449,658	447,022	225,035		221,987		301	4,823	318	51,061
	2011	1.06	2,225,509	2,352,819	1,192,589		1,160,230		1,809	4,823	1,906	51,061
	2012	1.11	2,225,509	2,466,493	1,270,143		1,196,350		3,316	4,823	3,494	51,061
	2013	1.15	2,225,509	2,549,018	1,317,492		1,231,526		4,823	4,823	5,082	51,061
EE Products	2010	3.35	1,192,054	3,990,908	466,860		3,524,048		674	10,431	5,841	653,524
	2011	3.51	6,012,058	21,112,065	2,409,697		18,702,368		3,926	10,431	35,250	653,524
	2012	3.63	6,012,058	21,943,657	2,575,060		19,368,597		7,179	10,431	64,659	653,524
	2013	3.78	6,012,058	22,726,508	2,675,946		20,050,562		10,431	10,431	94,068	653,524
New Construction	2010	2.41	578,208	1,392,246	624,377		767,869		648	7,776	860	137,775
	2011	2.55	3,122,921	7,975,661	3,607,104		4,368,557		4,212	7,776	5,590	137,775
	2012	2.66	3,122,921	8,298,223	3,803,296		4,494,927		7,776	7,776	10,320	137,775
	2013	0.00	525	-	-		-		7,776	7,776	10,320	137,775
Whole Building	2010	1.12	425,839	475,617	97,795		377,822		111	526	440	22,973
	2011	1.19	519,468	618,797	128,770		490,028		249	526	989	22,973
	2012	1.23	519,468	640,473	136,223		504,250		387	526	1,538	22,973
	2013	1.27	519,468	638,639	140,897		517,742		526	526	2,088	22,973
Multiple Family	2010	3.68	14,608	53,782	3,754		50,028		7	115	88	8,764
	2011	5.84	48,292	282,236	20,229		262,007		43	115	528	8,764
	2012	6.08	48,292	293,768	21,938		271,830		79	115	967	8,764
	2013	6.32	48,292	305,066	22,935		282,130		115	115	1,407	8,764
Total		2.79	71,442,882	199,580,375	54,810,156		144,770,219		63,394	63,394	216,253	1,621,693

1: Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component therefore the total avoided capacity costs for Generation, Transmission and Distribution are displayed here.

2: The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs are displayed here.

Table 7B: TRC Benefits Table

Residential Low-Income		TRC Benefits By Program Per Year (\$000)									
Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/T&D	Energy Annual Benefits	Energy Annual On/Off Peak	kW Annual	Lifetime	MWh Saved Annual	Lifetime
2010	2.35	80,162	188,037	6,555	See footnote 1 on PUC Table 7A	181,482	See footnote 2 on PUC Table 7A	13	757	316	18,972
2011	4.25	140,306	596,071	35,325	1 on PUC Table 7A	560,746		75	757	1,255	18,972
2012	4.37	142,836	624,902	38,309		586,593		138	757	2,200	18,972
2013	5.31	109,693	582,989	40,051		542,938		200	757	3,045	18,972
Total	4.21	472,997	1,991,999	120,240		1,871,759		200	757	3,045	18,972

Table 7C: TRC Benefits Table

Commercial/Industrial Small		TRC Benefits By Program Per Year (\$000)										
Program	Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/T&D	Energy Annual Benefits	Energy Annual On/Off Peak	Load Reductions in kW Annual	Load Reductions in kW Lifetime	MWh Saved Annual	MWh Saved Lifetime
Energy Audit	2010	4.18	328,687	1,375,343	349,434	See footnote 1 on PUC Table 7A	1,025,909	See footnote 2 on PUC Table 7A	667	10,678	2,363	235,522
	2011	4.37	1,670,794	7,305,866	1,883,152		5,422,714		4,004	10,678	14,177	235,522
	2012	4.61	1,670,794	7,696,948	2,042,243		5,654,705		7,341	10,678	25,991	235,522
	2013	4.81	1,670,794	8,033,055	2,135,088		5,897,967		10,678	10,678	37,804	235,522
Equipment Rebate	2010	2.04	2,771,711	5,666,072	1,743,027		3,923,044		2,193	31,774	6,141	990,603
	2011	2.12	13,335,193	28,300,395	8,395,378		19,905,017		12,053	31,774	35,485	990,603
	2012	2.21	13,335,193	29,451,937	8,915,883		20,536,055		21,914	31,774	64,830	990,603
	2013	2.28	13,335,193	30,376,895	9,242,916		21,133,978		31,774	31,774	94,157	990,603
Multiple Family	2010	1.05	64,853	68,346	14,801		53,545		15	246	54	11,617
	2011	7.34	48,292	354,337	77,735		276,602		92	246	326	11,617
	2012	7.59	48,292	366,390	81,963		284,427		169	246	598	11,617
	2013	7.80	48,292	376,733	84,632		292,101		246	246	870	11,617
Total	2.47	48,328,087	119,372,317	34,966,252		84,406,065		42,697	42,697	132,832	1,237,743	

Table 7D: TRC Benefits Table

Commercial/Industrial Large												
TRC Benefits By Program Per Year (\$000)												
Program	Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Capacity Annual Benefits	Capacity Annual Gen/T&D	Energy Annual Benefits	Energy Annual On/Off Peak	Load Reductions in kW		MWh Saved	
									Annual	Annual	Annual	Annual
Equipment Rebate	2010	1.1335	1,365,986	1,548,327	544,346		1,003,981		601	9,617	1,795	335,972
	2011	1.1914	6,846,423	8,156,957	2,863,489		5,293,468		3,607	9,617	10,836	335,972
	2012	1.2411	6,846,423	8,497,182	3,026,298		5,470,884		6,612	9,617	19,877	335,972
	2013	1.2805	6,846,423	8,767,055	3,128,821		5,638,234		9,617	9,617	28,919	335,972
Industrial Motors and VSD	2010	1.8978	256,845	487,445	19,785		467,660		21	329	688	146,970
	2011	2.3617	1,073,849	2,536,141	103,909		2,432,233		123	329	4,128	146,970
	2012	2.4396	1,073,849	2,619,779	109,560		2,510,218		226	329	7,569	146,970
	2013	2.512	1,073,849	2,697,519	113,128		2,584,392		329	329	11,009	146,970
Total		1.39	25,383,647	35,310,406	9,909,336		25,401,070		9,946	9,946	39,928	482,942

Table 7E: TRC Benefits Table

Governmental/Non-Profit Program	Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	TRC Benefits By Program Per Year (\$000)				Load Reductions in kW	MWh Saved		
					Capacity Annual Benefits	Capacity Annual Gen/T&D	Energy Annual Benefits	Energy Annual On/Off Peak			Annual	Annual
Governmental & Institutional	2010	1.9335	1,388,362	2,684,407	578,134	See footnote	2,106,273	See footnote	762	11,273	3,520	487,858
	2011	2.081	7,000,838	14,568,800	3,150,589	1 on PUC	11,418,211	2 on PUC	4,626	11,273	21,699	487,858
	2012	2.1687	6,968,057	15,111,677	3,330,080	Table 7A	11,781,597	Table 7A	8,470	11,273	39,860	487,858
	2013	2.0339	4,782,243	9,726,454	2,512,961		7,213,493		11,272	11,273	50,724	487,858
Total		2.09	20,139,501	42,091,338	9,571,764		32,519,574		11,272	11,273	50,724	487,858