

Residential Air Conditioning

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	7.43	3.27	3.34	3.35	3.40	3.85
TRC Test	10.84	4.71	4.82	4.83	4.90	5.58
RIM Test	6.16	2.75	2.77	2.78	2.82	3.16
RIM (Net Fuel)	6.36	2.83	2.86	2.87	2.91	3.27
Societal Test	10.84	4.71	4.82	4.83	4.90	5.58
Participant Test	65535.00	65535.00	65535.00	65535.00	65535.00	65535.00

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$377.25	100.00%
Total Costs / kWh Savings	\$0.3703	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$368.10	97.58%
Allocated Costs / kWh Savings	\$0.0090	2.42%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/ Cost Ratio	
\$7,772.27	\$57,721.27	\$49,949.00	7.43	Utility (PAC) Test
\$7,772.27	\$84,282.21	\$76,509.94	10.84	TRC Test
\$9,370.20	\$57,721.27	\$48,351.07	6.16	RIM Test
\$9,072.67	\$57,721.27	\$48,648.60		RIM (Net Fuel)
\$7,772.27	\$84,282.21	\$76,509.94	10.84	Societal Test
\$0.00	\$1,764.04	\$1,764.04	inf.	Participant Test

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Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$803.84	\$649.29	\$1,042.19	\$1,113.92	\$1,367.24	\$3,990.73
Avoided Electric Production Adders	\$0.00	\$227.25	\$364.77	\$389.87	\$478.53	\$1,396.76
Avoided Electric Capacity	\$32,345.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$24,568.86	\$24,568.86	\$24,568.86	\$24,568.86	\$24,568.86	\$24,568.86
Avoided Ancillary	\$2.77	\$2.59	\$2.77	\$2.77	\$2.77	\$2.96
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$57,721.27</b>	<b>\$25,447.99</b>	<b>\$25,978.59</b>	<b>\$26,075.43</b>	<b>\$26,417.40</b>	<b>\$29,959.30</b>
Administration Costs	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67
Implementation / Participation Costs	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$1,194.72	\$965.02	\$1,548.98	\$1,655.59	\$2,032.09	\$5,931.30
Avoided Electric Production Adders	\$0.00	\$337.76	\$542.14	\$579.46	\$711.23	\$2,075.96
Avoided Electric Capacity	\$47,749.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$35,333.91	\$35,333.91	\$35,333.91	\$35,333.91	\$35,333.91	\$35,333.91
Avoided Ancillary	\$3.86	\$3.60	\$3.86	\$3.86	\$3.86	\$4.13
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$84,282.21</b>	<b>\$36,640.29</b>	<b>\$37,428.89</b>	<b>\$37,572.82</b>	<b>\$38,081.08</b>	<b>\$43,345.29</b>
Administration Costs	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67
Implementation / Participation Costs	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$803.84	\$649.29	\$1,042.19	\$1,113.92	\$1,367.24	\$3,990.73
Avoided Electric Production Adders	\$0.00	\$227.25	\$364.77	\$389.87	\$478.53	\$1,396.76
Avoided Electric Capacity	\$32,345.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$24,568.86	\$24,568.86	\$24,568.86	\$24,568.86	\$24,568.86	\$24,568.86
Avoided Ancillary	\$2.77	\$2.59	\$2.77	\$2.77	\$2.77	\$2.96
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$57,721.27</b>	<b>\$25,447.99</b>	<b>\$25,978.59</b>	<b>\$26,075.43</b>	<b>\$26,417.40</b>	<b>\$29,959.30</b>
Administration Costs	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67
Implementation / Participation Costs	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$1,597.93	\$1,491.05	\$1,597.93	\$1,597.93	\$1,597.93	\$1,706.82
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$1,597.93</b>	<b>\$1,491.05</b>	<b>\$1,597.93</b>	<b>\$1,597.93</b>	<b>\$1,597.93</b>	<b>\$1,706.82</b>
Net Fuel Lost Revenue (Electric)	\$1,300.40	\$1,213.42	\$1,300.40	\$1,300.40	\$1,300.40	\$1,389.02
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$1,300.40</b>	<b>\$1,213.42</b>	<b>\$1,300.40</b>	<b>\$1,300.40</b>	<b>\$1,300.40</b>	<b>\$1,389.02</b>
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
29	1,399	20.602	0.000	Generator
	1,292	19.028	0.000	Meter

Check: 1,300.07 Loss Factor: 7.640%

Administration Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs
\$6,170.67	\$1,601.60	\$0.00	\$0.00	\$7,772.27

Residential Air Conditioning

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$1,194.72	\$965.02	\$1,548.98	\$1,655.59	\$2,032.09	\$5,931.30	
Avoided Electric Production Adders	\$0.00	\$337.76	\$542.14	\$579.46	\$711.23	\$2,075.96	
Avoided Electric Capacity	\$47,749.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$35,333.91	\$35,333.91	\$35,333.91	\$35,333.91	\$35,333.91	\$35,333.91	
Avoided Ancillary	\$3.86	\$3.60	\$3.86	\$3.86	\$3.86	\$4.13	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$84,282.21</b>	<b>\$36,640.29</b>	<b>\$37,428.89</b>	<b>\$37,572.82</b>	<b>\$38,081.08</b>	<b>\$43,345.29</b>	
Administration Costs	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	\$6,170.67	
Implementation / Participation Costs	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	\$1,601.60	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	<b>\$7,772.27</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$1,764.04	\$1,646.05	\$1,764.04	\$1,764.04	\$1,764.04	\$1,884.25	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$1,764.04</b>	<b>\$1,646.05</b>	<b>\$1,764.04</b>	<b>\$1,764.04</b>	<b>\$1,764.04</b>	<b>\$1,884.25</b>	

Residential Air Conditioning

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	29	0	29	0	29	29	\$0.00	\$0.00	\$0.00
2	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
3	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
4	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
5	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
6	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
7	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
8	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
9	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
10	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
11	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
12	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
13	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
14	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
15	0	0	29	0	29	29	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	29	0	435	0	435	435	\$0	\$0	\$0

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
2	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
3	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
4	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
5	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
6	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
7	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
8	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
9	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
10	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
11	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
12	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
13	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
14	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
15	0.000	0.000	0.710	0.710	0.000	0.000	48.26	48.26	0	0	21	21	0	0	1,399	1,399
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							724	724							20,991	20,991

Residential Air Conditioning

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist Electric	Net Free/Persist Gas	Net Free/Persist Total	Net Fuel Net Free/Persist Electric	Net Fuel Net Free/Persist Gas	Net Fuel Net Free/Persist Total
1	\$5.02	\$0.00	\$5.02	\$145.69	\$0.00	\$145.69	\$112.67	\$0.00	\$112.67
2	\$5.28	\$0.00	\$5.28	\$152.98	\$0.00	\$152.98	\$119.96	\$0.00	\$119.96
3	\$5.54	\$0.00	\$5.54	\$160.63	\$0.00	\$160.63	\$127.61	\$0.00	\$127.61
4	\$5.82	\$0.00	\$5.82	\$168.66	\$0.00	\$168.66	\$135.64	\$0.00	\$135.64
5	\$6.11	\$0.00	\$6.11	\$177.09	\$0.00	\$177.09	\$144.07	\$0.00	\$144.07
6	\$6.41	\$0.00	\$6.41	\$185.95	\$0.00	\$185.95	\$152.92	\$0.00	\$152.92
7	\$6.48	\$0.00	\$6.48	\$187.81	\$0.00	\$187.81	\$154.78	\$0.00	\$154.78
8	\$6.54	\$0.00	\$6.54	\$189.68	\$0.00	\$189.68	\$156.66	\$0.00	\$156.66
9	\$6.61	\$0.00	\$6.61	\$191.58	\$0.00	\$191.58	\$158.56	\$0.00	\$158.56
10	\$6.67	\$0.00	\$6.67	\$193.50	\$0.00	\$193.50	\$160.47	\$0.00	\$160.47
11	\$6.74	\$0.00	\$6.74	\$195.43	\$0.00	\$195.43	\$162.41	\$0.00	\$162.41
12	\$6.81	\$0.00	\$6.81	\$197.39	\$0.00	\$197.39	\$164.36	\$0.00	\$164.36
13	\$6.87	\$0.00	\$6.87	\$199.36	\$0.00	\$199.36	\$166.34	\$0.00	\$166.34
14	\$6.94	\$0.00	\$6.94	\$201.35	\$0.00	\$201.35	\$168.33	\$0.00	\$168.33
15	\$7.01	\$0.00	\$7.01	\$203.37	\$0.00	\$203.37	\$170.34	\$0.00	\$170.34
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$94.84	\$0.00	\$94.84	\$2,750.46	\$0.00	\$2,750.46	\$2,255.13	\$0.00	\$2,255.13

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kWh (net)	\$/kWh (net)	\$/CCF	\$/CCF (net)	
1	\$6,170.67	\$1,601.60	\$0.00	\$0.00	\$7,772.27	\$377.25	\$377.25	\$5.55	\$5.55	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,170.67	\$1,601.60	\$0.00	\$0.00	\$7,772.27	\$377.25	\$377.25	\$5.55	\$5.55	\$0.00	\$0.00

Residential Air Conditioning

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$62.59	\$21.91	\$2,265.43	\$0.31	\$2,350.24	\$0.00	\$0.00	\$0.00
2	\$68.36	\$23.93	\$2,338.98	\$0.31	\$2,431.57	\$0.00	\$0.00	\$0.00
3	\$99.40	\$34.79	\$2,415.00	\$0.31	\$2,549.49	\$0.00	\$0.00	\$0.00
4	\$100.20	\$35.07	\$2,493.50	\$0.31	\$2,629.07	\$0.00	\$0.00	\$0.00
5	\$108.37	\$37.93	\$2,574.67	\$0.31	\$2,721.27	\$0.00	\$0.00	\$0.00
6	\$109.09	\$38.18	\$2,658.31	\$0.31	\$2,805.89	\$0.00	\$0.00	\$0.00
7	\$126.35	\$44.22	\$2,744.64	\$0.31	\$2,915.52	\$0.00	\$0.00	\$0.00
8	\$134.00	\$46.90	\$2,833.85	\$0.31	\$3,015.05	\$0.00	\$0.00	\$0.00
9	\$144.42	\$50.55	\$2,925.94	\$0.31	\$3,121.21	\$0.00	\$0.00	\$0.00
10	\$146.14	\$51.15	\$3,021.12	\$0.31	\$3,218.71	\$0.00	\$0.00	\$0.00
11	\$150.74	\$52.76	\$3,119.19	\$0.31	\$3,323.00	\$0.00	\$0.00	\$0.00
12	\$157.43	\$55.10	\$3,220.55	\$0.31	\$3,433.40	\$0.00	\$0.00	\$0.00
13	\$162.16	\$56.76	\$3,325.21	\$0.31	\$3,544.43	\$0.00	\$0.00	\$0.00
14	\$167.02	\$58.46	\$3,433.37	\$0.31	\$3,659.16	\$0.00	\$0.00	\$0.00
15	\$172.03	\$60.21	\$3,545.04	\$0.31	\$3,777.59	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,908.29	\$667.90	\$42,914.79	\$4.62	\$45,495.60	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Persistence)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$48.28	\$1,725.56	\$2,265.43	\$0.31	\$4,039.57	\$0.00	\$0.00	\$0.00
2	\$52.73	\$1,462.53	\$2,338.98	\$0.31	\$3,854.54	\$0.00	\$0.00	\$0.00
3	\$76.66	\$1,533.36	\$2,415.00	\$0.31	\$4,025.33	\$0.00	\$0.00	\$0.00
4	\$77.28	\$4,483.07	\$2,493.50	\$0.31	\$7,054.15	\$0.00	\$0.00	\$0.00
5	\$83.58	\$4,483.07	\$2,574.67	\$0.31	\$7,141.63	\$0.00	\$0.00	\$0.00
6	\$84.14	\$4,483.07	\$2,658.31	\$0.31	\$7,225.83	\$0.00	\$0.00	\$0.00
7	\$97.45	\$4,483.07	\$2,744.64	\$0.31	\$7,325.46	\$0.00	\$0.00	\$0.00
8	\$103.35	\$4,483.07	\$2,833.85	\$0.31	\$7,420.57	\$0.00	\$0.00	\$0.00
9	\$111.39	\$4,483.07	\$2,925.94	\$0.31	\$7,520.70	\$0.00	\$0.00	\$0.00
10	\$112.71	\$4,483.07	\$3,021.12	\$0.31	\$7,617.21	\$0.00	\$0.00	\$0.00
11	\$116.27	\$4,483.07	\$3,119.19	\$0.31	\$7,718.83	\$0.00	\$0.00	\$0.00
12	\$121.43	\$4,483.07	\$3,220.55	\$0.31	\$7,825.35	\$0.00	\$0.00	\$0.00
13	\$125.07	\$4,483.07	\$3,325.21	\$0.31	\$7,933.66	\$0.00	\$0.00	\$0.00
14	\$128.82	\$4,483.07	\$3,433.37	\$0.31	\$8,045.57	\$0.00	\$0.00	\$0.00
15	\$132.69	\$4,483.07	\$3,545.04	\$0.31	\$8,161.10	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,471.86	\$58,518.23	\$42,914.79	\$4.62	\$102,909.50	\$102,909.50	\$0.00	\$0.00

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	48.28	1,725.56	2,265.43	0.31
0.92	48.59	1,347.96	2,155.74	0.28
0.85	65.12	1,302.52	2,051.44	0.26
0.78	60.51	3,509.83	1,952.18	0.24
0.72	60.31	3,234.86	1,857.81	0.22
0.67	55.96	2,981.44	1,767.90	0.20
0.61	59.73	2,747.87	1,682.31	0.19
0.56	58.39	2,532.60	1,600.91	0.17
0.52	58.00	2,334.20	1,523.45	0.16
0.48	54.09	2,151.33	1,449.77	0.15
0.44	51.42	1,982.79	1,379.57	0.14
0.41	49.50	1,827.46	1,312.81	0.13
0.38	46.99	1,684.30	1,249.29	0.12
0.35	44.61	1,552.35	1,188.87	0.11
0.32	42.35	1,430.73	1,131.37	0.10
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	803.84	32,345.79	24,568.86	2.77
	-	-	-	-

Residential Air Source Heat Pumps

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	27.04	16.51	19.43	19.77	22.81	41.86
TRC Test	8.88	5.38	6.35	6.46	7.46	13.76
RIM Test	1.79	1.11	1.28	1.31	1.51	2.70
RIM (Net Fuel)	2.27	1.41	1.63	1.66	1.91	3.43
Societal Test	8.88	5.38	6.35	6.46	7.46	13.76
Participant Test	4.29	4.21	4.29	4.29	4.29	4.39

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$120.82	100.00%
Total Cost / kWh Savings	\$0.0049	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$70.48	58.34%
Allocated Costs / kWh Savings	\$0.0020	41.66%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS					
Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio		
Total	\$9,101.98	\$246,080.13	\$236,978.16	27.04	Utility (PAC) Test
\$37,841.98	\$335,952.42	\$298,110.44	8.88		TRC Test
\$137,674.51	\$246,080.13	\$108,405.63	1.79		RIM Test
\$108,583.01	\$246,080.13	\$137,497.12			RIM (Net Fuel)
\$37,841.98	\$335,952.42	\$298,110.44	8.88		Societal Test
\$35,700.00	\$153,019.67	\$117,319.67	4.29		Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$72,282.39	\$57,570.86	\$77,243.14	\$79,496.97	\$100,031.73	\$228,451.15
Avoided Electric Production Adders	\$0.00	\$20,149.80	\$27,035.10	\$27,823.94	\$35,011.11	\$79,957.90
Avoided Electric Capacity	\$101,213.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$72,313.17	\$72,313.17	\$72,313.17	\$72,313.17	\$72,313.17	\$72,313.17
Avoided Ancillary	\$271.22	\$266.37	\$271.22	\$271.22	\$271.22	\$278.19
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$246,080.13</b>	<b>\$150,300.19</b>	<b>\$176,862.63</b>	<b>\$179,905.30</b>	<b>\$207,627.23</b>	<b>\$381,000.41</b>
Administration Costs	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95
Implementation / Participation Costs	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00
<b>Total</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$99,343.26	\$79,124.06	\$106,161.19	\$109,258.81	\$137,481.31	\$313,978.00
Avoided Electric Production Adders	\$0.00	\$27,693.42	\$37,156.42	\$38,240.58	\$48,118.46	\$109,892.30
Avoided Electric Capacity	\$139,729.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$96,525.41	\$96,525.41	\$96,525.41	\$96,525.41	\$96,525.41	\$96,525.41
Avoided Ancillary	\$354.60	\$348.25	\$354.60	\$354.60	\$354.60	\$363.71
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$335,952.42</b>	<b>\$203,691.14</b>	<b>\$240,197.62</b>	<b>\$244,379.40</b>	<b>\$282,479.78</b>	<b>\$520,759.42</b>
Administration Costs	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95
Implementation / Participation Costs	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00
<b>Total</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$72,282.39	\$57,570.86	\$77,243.14	\$79,496.97	\$100,031.73	\$228,451.15
Avoided Electric Production Adders	\$0.00	\$20,149.80	\$27,035.10	\$27,823.94	\$35,011.11	\$79,957.90
Avoided Electric Capacity	\$101,213.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$72,313.17	\$72,313.17	\$72,313.17	\$72,313.17	\$72,313.17	\$72,313.17
Avoided Ancillary	\$271.22	\$266.37	\$271.22	\$271.22	\$271.22	\$278.19
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$246,080.13</b>	<b>\$150,300.19</b>	<b>\$176,862.63</b>	<b>\$179,905.30</b>	<b>\$207,627.23</b>	<b>\$381,000.41</b>
Administration Costs	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95
Implementation / Participation Costs	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00
<b>Total</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>	<b>\$9,101.98</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$128,572.53	\$126,266.49	\$128,572.53	\$128,572.53	\$128,572.53	\$131,884.50
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$128,572.53</b>	<b>\$126,266.49</b>	<b>\$128,572.53</b>	<b>\$128,572.53</b>	<b>\$128,572.53</b>	<b>\$131,884.50</b>
Net Fuel Lost Revenue (Electric)	\$99,481.04	\$97,696.13	\$99,481.04	\$99,481.04	\$99,481.04	\$102,045.89
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$99,481.04</b>	<b>\$97,696.13</b>	<b>\$99,481.04</b>	<b>\$99,481.04</b>	<b>\$99,481.04</b>	<b>\$102,045.89</b>
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

Parts	kWh	Summer kW	Winter kW	
17	154,705	4.392	70.946	Generator
	142,885	4.056	65.526	Meter
Check:	143,724.00	Loss Factor:	7.640%	

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$527.95	\$1,614.02	\$0.00	\$6,960.00	\$9,101.98	

Residential Air Source Heat Pumps

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$99,343.26	\$79,124.06	\$106,161.19	\$109,258.81	\$137,481.31	\$313,978.00	
Avoided Electric Production Adders	\$0.00	\$27,693.42	\$37,156.42	\$38,240.58	\$48,118.46	\$109,892.30	
Avoided Electric Capacity	\$139,729.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$96,525.41	\$96,525.41	\$96,525.41	\$96,525.41	\$96,525.41	\$96,525.41	
Avoided Ancillary	\$354.60	\$348.25	\$354.60	\$354.60	\$354.60	\$363.71	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$335,952.42</b>	<b>\$203,691.14</b>	<b>\$240,197.62</b>	<b>\$244,379.40</b>	<b>\$282,479.78</b>	<b>\$520,759.42</b>	
Administration Costs	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95	\$527.95	
Implementation / Participation Costs	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	\$1,614.02	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	<b>\$2,141.98</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	\$6,960.00	
Participant Costs (gross)	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	\$35,700.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$146,059.67	\$143,439.98	\$146,059.67	\$146,059.67	\$146,059.67	\$149,822.10	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$146,059.67</b>	<b>\$143,439.98</b>	<b>\$146,059.67</b>	<b>\$146,059.67</b>	<b>\$146,059.67</b>	<b>\$149,822.10</b>	

Residential Air Source Heat Pumps

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	17	0	17	0	17	17	\$35,700.00	\$0.00	\$35,700.00
2	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
3	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
4	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
5	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
6	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
7	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
8	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
9	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
10	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
11	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
12	0	0	17	0	17	17	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	17	0	204	0	204	204	\$35,700	\$0	\$35,700

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
2	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
3	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
4	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
5	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
6	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
7	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
8	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
9	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
10	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
11	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
12	0.264	0.264	0.258	0.258	4.173	4.173	9,100.27	9,100.27	4	4	4	4	71	71	154,705	154,705
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							109,203	109,203							1,856,454	1,856,454



Residential Air Source Heat Pumps

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$793.64	\$0.00	\$793.64	\$13,491.94	\$0.00	\$13,491.94	\$9,841.35	\$0.00	\$9,841.35
2	\$833.33	\$0.00	\$833.33	\$14,166.54	\$0.00	\$14,166.54	\$10,515.95	\$0.00	\$10,515.95
3	\$874.99	\$0.00	\$874.99	\$14,874.86	\$0.00	\$14,874.86	\$11,224.27	\$0.00	\$11,224.27
4	\$918.74	\$0.00	\$918.74	\$15,618.61	\$0.00	\$15,618.61	\$11,968.02	\$0.00	\$11,968.02
5	\$964.68	\$0.00	\$964.68	\$16,399.54	\$0.00	\$16,399.54	\$12,748.95	\$0.00	\$12,748.95
6	\$1,012.91	\$0.00	\$1,012.91	\$17,219.51	\$0.00	\$17,219.51	\$13,568.92	\$0.00	\$13,568.92
7	\$1,023.04	\$0.00	\$1,023.04	\$17,391.71	\$0.00	\$17,391.71	\$13,741.12	\$0.00	\$13,741.12
8	\$1,033.27	\$0.00	\$1,033.27	\$17,565.63	\$0.00	\$17,565.63	\$13,915.04	\$0.00	\$13,915.04
9	\$1,043.60	\$0.00	\$1,043.60	\$17,741.28	\$0.00	\$17,741.28	\$14,090.69	\$0.00	\$14,090.69
10	\$1,054.04	\$0.00	\$1,054.04	\$17,918.70	\$0.00	\$17,918.70	\$14,268.11	\$0.00	\$14,268.11
11	\$1,064.58	\$0.00	\$1,064.58	\$18,097.88	\$0.00	\$18,097.88	\$14,447.29	\$0.00	\$14,447.29
12	\$1,075.23	\$0.00	\$1,075.23	\$18,278.86	\$0.00	\$18,278.86	\$14,628.27	\$0.00	\$14,628.27
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$11,692.06	\$0.00	\$11,692.06	\$198,765.05	\$0.00	\$198,765.05	\$154,957.98	\$0.00	\$154,957.98

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$527.95	\$1,614.02	\$6,960.00	\$0.00	\$9,101.98	\$120.82	\$120.82	\$0.06	\$0.06	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$527.95	\$1,614.02	\$6,960.00	\$0.00	\$9,101.98	\$120.82	\$120.82	\$0.06	\$0.06	\$0.00	\$0.00

Residential Air Source Heat Pumps

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$5,566.81	\$1,948.39	\$7,801.22	\$34.03	\$15,350.45	\$0.00	\$0.00	\$0.00	
2	\$6,079.54	\$2,127.84	\$8,054.49	\$34.03	\$16,295.90	\$0.00	\$0.00	\$0.00	
3	\$8,839.75	\$3,093.91	\$8,316.28	\$34.03	\$20,283.99	\$0.00	\$0.00	\$0.00	
4	\$8,911.23	\$3,118.93	\$8,586.59	\$34.03	\$20,650.79	\$0.00	\$0.00	\$0.00	
5	\$9,637.76	\$3,373.21	\$8,866.11	\$34.03	\$21,911.12	\$0.00	\$0.00	\$0.00	
6	\$9,701.88	\$3,395.66	\$9,154.16	\$34.03	\$22,285.73	\$0.00	\$0.00	\$0.00	
7	\$11,236.86	\$3,932.90	\$9,451.42	\$34.03	\$24,655.22	\$0.00	\$0.00	\$0.00	
8	\$11,916.92	\$4,170.92	\$9,758.61	\$34.03	\$25,880.49	\$0.00	\$0.00	\$0.00	
9	\$12,843.75	\$4,495.31	\$10,075.74	\$34.03	\$27,448.84	\$0.00	\$0.00	\$0.00	
10	\$12,996.56	\$4,548.80	\$10,403.51	\$34.03	\$27,982.91	\$0.00	\$0.00	\$0.00	
11	\$13,406.37	\$4,692.23	\$10,741.22	\$34.03	\$28,873.85	\$0.00	\$0.00	\$0.00	
12	\$14,001.52	\$4,900.53	\$11,090.27	\$34.03	\$30,026.36	\$0.00	\$0.00	\$0.00	
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$125,138.95	\$43,798.63	\$112,299.63	\$408.42	\$281,645.64	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$5,209.30	\$6,309.94	\$7,801.22	\$34.03	\$19,354.49	\$0.00	\$0.00	\$0.00	
2	\$5,689.09	\$5,348.13	\$8,054.49	\$34.03	\$19,125.75	\$0.00	\$0.00	\$0.00	
3	\$8,272.04	\$5,607.12	\$8,316.28	\$34.03	\$22,229.48	\$0.00	\$0.00	\$0.00	
4	\$8,338.93	\$16,393.50	\$8,586.59	\$34.03	\$33,353.05	\$0.00	\$0.00	\$0.00	
5	\$9,018.80	\$16,393.50	\$8,866.11	\$34.03	\$34,312.44	\$0.00	\$0.00	\$0.00	
6	\$9,078.80	\$16,393.50	\$9,154.16	\$34.03	\$34,660.49	\$0.00	\$0.00	\$0.00	
7	\$10,515.20	\$16,393.50	\$9,451.42	\$34.03	\$36,394.15	\$0.00	\$0.00	\$0.00	
8	\$11,151.59	\$16,393.50	\$9,758.61	\$34.03	\$37,337.73	\$0.00	\$0.00	\$0.00	
9	\$12,018.89	\$16,393.50	\$10,075.74	\$34.03	\$38,522.16	\$0.00	\$0.00	\$0.00	
10	\$12,161.89	\$16,393.50	\$10,403.51	\$34.03	\$38,992.93	\$0.00	\$0.00	\$0.00	
11	\$12,545.38	\$16,393.50	\$10,741.22	\$34.03	\$39,714.13	\$0.00	\$0.00	\$0.00	
12	\$13,102.31	\$16,393.50	\$11,090.27	\$34.03	\$40,620.11	\$0.00	\$0.00	\$0.00	
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$117,102.22	\$164,806.64	\$112,299.63	\$408.42	\$394,616.91	\$394,616.91	\$0.00	\$0.00	

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	5,209.30	6,309.94	7,801.22	34.03
0.92	5,243.41	4,929.15	7,423.50	31.37
0.85	7,026.73	4,763.00	7,064.31	28.91
0.78	6,528.62	12,834.60	6,722.51	26.65
0.72	6,507.73	11,829.12	6,397.56	24.56
0.67	6,037.81	10,902.42	6,087.93	22.63
0.61	6,445.24	10,048.31	5,793.20	20.86
0.56	6,299.83	9,261.12	5,512.90	19.23
0.52	6,257.87	8,535.59	5,246.13	17.72
0.48	5,836.24	7,866.91	4,992.43	16.33
0.44	5,548.64	7,250.60	4,750.68	15.05
0.41	5,340.98	6,682.58	4,520.80	13.87
0.38	-	-	-	-
0.35	-	-	-	-
0.32	-	-	-	-
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	72,282.39	101,213.35	72,313.17	271.22
	-	-	-	-

Residential Geothermal Heat Pumps

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	18.12	11.23	13.51	13.78	16.16	31.09
TRC Test	4.47	2.76	3.33	3.40	4.00	7.72
RIM Test	1.56	0.98	1.16	1.19	1.39	2.61
RIM (Net Fuel)	1.96	1.23	1.46	1.49	1.75	3.28
Societal Test	4.47	2.76	3.33	3.40	4.00	7.72
Participant Test	2.23	2.20	2.23	2.23	2.23	2.29

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$213.32	100.00%
Total Cost / kWh Savings	\$0.0060	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$115.58	54.18%
Allocated Costs / kWh Savings	\$0.0028	45.82%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/ Cost Ratio	
\$11,579.72	\$209,800.58	\$198,220.86	18.12	Utility (PAC) Test
\$68,979.72	\$308,426.30	\$239,446.59	4.47	TRC Test
\$134,529.14	\$209,800.58	\$75,271.44	1.56	RIM Test
\$107,199.81	\$209,800.58	\$102,600.77		RIM (Net Fuel)
\$68,979.72	\$308,426.30	\$239,446.59	4.47	Societal Test
\$67,200.00	\$150,166.10	\$82,966.10	2.23	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$72,066.15	\$57,398.63	\$77,012.06	\$79,259.15	\$99,732.48	\$227,767.72
Avoided Electric Production Adders	\$0.00	\$20,089.52	\$26,954.22	\$27,740.70	\$34,906.37	\$79,718.70
Avoided Electric Capacity	\$85,223.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$52,256.13	\$52,256.13	\$52,256.13	\$52,256.13	\$52,256.13	\$52,256.13
Avoided Ancillary	\$254.80	\$250.23	\$254.80	\$254.80	\$254.80	\$261.34
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$209,800.58</b>	<b>\$129,994.51</b>	<b>\$156,477.21</b>	<b>\$159,510.78</b>	<b>\$187,149.77</b>	<b>\$360,003.89</b>
Administration Costs	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66
Implementation / Participation Costs	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00
<b>Total</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$107,109.74	\$85,309.84	\$114,460.69	\$117,800.47	\$148,229.36	\$338,524.24
Avoided Electric Production Adders	\$0.00	\$29,858.44	\$40,061.24	\$41,230.16	\$51,880.27	\$118,483.49
Avoided Electric Capacity	\$125,809.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$75,152.60	\$75,152.60	\$75,152.60	\$75,152.60	\$75,152.60	\$75,152.60
Avoided Ancillary	\$354.80	\$348.44	\$354.80	\$354.80	\$354.80	\$363.91
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$308,426.30</b>	<b>\$190,669.32</b>	<b>\$230,029.32</b>	<b>\$234,538.03</b>	<b>\$275,617.03</b>	<b>\$532,524.24</b>
Administration Costs	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66
Implementation / Participation Costs	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$72,066.15	\$57,398.63	\$77,012.06	\$79,259.15	\$99,732.48	\$227,767.72
Avoided Electric Production Adders	\$0.00	\$20,089.52	\$26,954.22	\$27,740.70	\$34,906.37	\$79,718.70
Avoided Electric Capacity	\$85,223.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$52,256.13	\$52,256.13	\$52,256.13	\$52,256.13	\$52,256.13	\$52,256.13
Avoided Ancillary	\$254.80	\$250.23	\$254.80	\$254.80	\$254.80	\$261.34
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$209,800.58</b>	<b>\$129,994.51</b>	<b>\$156,477.21</b>	<b>\$159,510.78</b>	<b>\$187,149.77</b>	<b>\$360,003.89</b>
Administration Costs	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66
Implementation / Participation Costs	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00
<b>Total</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>	<b>\$11,579.72</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$122,949.42	\$120,744.23	\$122,949.42	\$122,949.42	\$122,949.42	\$126,116.54
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$122,949.42</b>	<b>\$120,744.23</b>	<b>\$122,949.42</b>	<b>\$122,949.42</b>	<b>\$122,949.42</b>	<b>\$126,116.54</b>
Net Fuel Lost Revenue (Electric)	\$95,620.09	\$93,904.47	\$95,620.09	\$95,620.09	\$95,620.09	\$98,085.34
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$95,620.09</b>	<b>\$93,904.47</b>	<b>\$95,620.09</b>	<b>\$95,620.09</b>	<b>\$95,620.09</b>	<b>\$98,085.34</b>
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
6	128,540	10.463	43.820	Generator
	118,720	9.663	40.472	Meter
Check:	119,416.92	Loss Factor:	7.640%	

  

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$438.66	\$1,341.05	\$0.00	\$9,800.00	\$11,579.72	

Residential Geothermal Heat Pumps

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$107,109.74	\$85,309.84	\$114,460.69	\$117,800.47	\$148,229.36	\$338,524.24	
Avoided Electric Production Adders	\$0.00	\$29,858.44	\$40,061.24	\$41,230.16	\$51,880.27	\$118,483.49	
Avoided Electric Capacity	\$125,809.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$75,152.60	\$75,152.60	\$75,152.60	\$75,152.60	\$75,152.60	\$75,152.60	
Avoided Ancillary	\$354.80	\$348.44	\$354.80	\$354.80	\$354.80	\$363.91	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$308,426.30</b>	<b>\$190,669.32</b>	<b>\$230,029.32</b>	<b>\$234,538.03</b>	<b>\$275,617.03</b>	<b>\$532,524.24</b>	
Administration Costs	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66	\$438.66	
Implementation / Participation Costs	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	\$1,341.05	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	<b>\$1,779.72</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	\$9,800.00	
Participant Costs (gross)	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	\$67,200.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$140,366.10	\$137,848.53	\$140,366.10	\$140,366.10	\$140,366.10	\$143,981.86	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$140,366.10</b>	<b>\$137,848.53</b>	<b>\$140,366.10</b>	<b>\$140,366.10</b>	<b>\$140,366.10</b>	<b>\$143,981.86</b>	

Residential Geothermal Heat Pumps

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	6	0	6	0	6	6	\$67,200.00	\$0.00	\$67,200.00
2	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
3	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
4	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
5	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
6	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
7	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
8	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
9	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
10	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
11	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
12	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
13	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
14	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
15	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
16	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
17	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
18	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
19	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
20	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
21	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
22	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
23	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
24	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
25	0	0	6	0	6	6	\$0.00	\$0.00	\$0.00
Totals	6	0	90	0	90	90	\$67,200	\$0	\$67,200

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
2	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
3	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
4	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
5	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
6	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
7	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
8	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
9	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
10	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
11	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
12	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
13	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
14	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
15	1.808	1.808	1.744	1.744	7.303	7.303	21,423.40	21,423.40	11	11	10	10	44	44	128,540	128,540
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
Totals							321,351	321,351							1,928,106	1,928,106

Residential Geothermal Heat Pumps

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$1,868.36	\$0.00	\$1,868.36	\$11,210.14	\$0.00	\$11,210.14	\$8,176.95	\$0.00	\$8,176.95
2	\$1,961.77	\$0.00	\$1,961.77	\$11,770.64	\$0.00	\$11,770.64	\$8,737.46	\$0.00	\$8,737.46
3	\$2,059.86	\$0.00	\$2,059.86	\$12,359.18	\$0.00	\$12,359.18	\$9,325.99	\$0.00	\$9,325.99
4	\$2,162.86	\$0.00	\$2,162.86	\$12,977.14	\$0.00	\$12,977.14	\$9,943.95	\$0.00	\$9,943.95
5	\$2,271.00	\$0.00	\$2,271.00	\$13,625.99	\$0.00	\$13,625.99	\$10,592.80	\$0.00	\$10,592.80
6	\$2,384.55	\$0.00	\$2,384.55	\$14,307.29	\$0.00	\$14,307.29	\$11,274.10	\$0.00	\$11,274.10
7	\$2,408.39	\$0.00	\$2,408.39	\$14,450.37	\$0.00	\$14,450.37	\$11,417.18	\$0.00	\$11,417.18
8	\$2,432.48	\$0.00	\$2,432.48	\$14,594.87	\$0.00	\$14,594.87	\$11,561.68	\$0.00	\$11,561.68
9	\$2,456.80	\$0.00	\$2,456.80	\$14,740.82	\$0.00	\$14,740.82	\$11,707.63	\$0.00	\$11,707.63
10	\$2,481.37	\$0.00	\$2,481.37	\$14,888.23	\$0.00	\$14,888.23	\$11,855.04	\$0.00	\$11,855.04
11	\$2,506.18	\$0.00	\$2,506.18	\$15,037.11	\$0.00	\$15,037.11	\$12,003.92	\$0.00	\$12,003.92
12	\$2,531.25	\$0.00	\$2,531.25	\$15,187.48	\$0.00	\$15,187.48	\$12,154.29	\$0.00	\$12,154.29
13	\$2,556.56	\$0.00	\$2,556.56	\$15,339.35	\$0.00	\$15,339.35	\$12,306.16	\$0.00	\$12,306.16
14	\$2,582.12	\$0.00	\$2,582.12	\$15,492.75	\$0.00	\$15,492.75	\$12,459.56	\$0.00	\$12,459.56
15	\$2,607.95	\$0.00	\$2,607.95	\$15,647.67	\$0.00	\$15,647.67	\$12,614.49	\$0.00	\$12,614.49
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$35,271.50	\$0.00	\$35,271.50	\$211,629.02	\$0.00	\$211,629.02	\$166,131.18	\$0.00	\$166,131.18

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$438.66	\$1,341.05	\$9,800.00	\$0.00	\$11,579.72	\$213.32	\$213.32	\$0.09	\$0.09	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$438.66	\$1,341.05	\$9,800.00	\$0.00	\$11,579.72	\$213.32	\$213.32	\$0.09	\$0.09	\$0.00	\$0.00

Residential Geothermal Heat Pumps

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$4,625.34	\$1,618.87	\$4,818.40	\$28.28	\$11,090.88	\$0.00	\$0.00	\$0.00	
2	\$5,051.35	\$1,767.97	\$4,974.83	\$28.28	\$11,822.43	\$0.00	\$0.00	\$0.00	
3	\$7,344.74	\$2,570.66	\$5,136.53	\$28.28	\$15,080.21	\$0.00	\$0.00	\$0.00	
4	\$7,404.14	\$2,591.45	\$5,303.48	\$28.28	\$15,327.34	\$0.00	\$0.00	\$0.00	
5	\$8,007.79	\$2,802.73	\$5,476.13	\$28.28	\$16,314.92	\$0.00	\$0.00	\$0.00	
6	\$8,061.07	\$2,821.37	\$5,654.04	\$28.28	\$16,564.75	\$0.00	\$0.00	\$0.00	
7	\$9,336.44	\$3,267.76	\$5,837.64	\$28.28	\$18,470.12	\$0.00	\$0.00	\$0.00	
8	\$9,901.49	\$3,465.52	\$6,027.38	\$28.28	\$19,422.67	\$0.00	\$0.00	\$0.00	
9	\$10,671.57	\$3,735.05	\$6,223.25	\$28.28	\$20,658.15	\$0.00	\$0.00	\$0.00	
10	\$10,798.54	\$3,779.49	\$6,425.70	\$28.28	\$21,032.01	\$0.00	\$0.00	\$0.00	
11	\$11,139.04	\$3,898.66	\$6,634.28	\$28.28	\$21,700.26	\$0.00	\$0.00	\$0.00	
12	\$11,633.54	\$4,071.74	\$6,849.87	\$28.28	\$22,583.42	\$0.00	\$0.00	\$0.00	
13	\$11,982.54	\$4,193.89	\$7,072.48	\$28.28	\$23,277.19	\$0.00	\$0.00	\$0.00	
14	\$12,342.02	\$4,319.71	\$7,302.53	\$28.28	\$23,992.53	\$0.00	\$0.00	\$0.00	
15	\$12,712.28	\$4,449.30	\$7,540.03	\$28.28	\$24,729.89	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$141,011.88	\$49,354.16	\$91,276.57	\$424.18	\$282,066.79	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$4,328.29	\$4,546.43	\$4,818.40	\$28.28	\$13,721.39	\$0.00	\$0.00	\$0.00	
2	\$4,726.94	\$3,853.42	\$4,974.83	\$28.28	\$13,583.47	\$0.00	\$0.00	\$0.00	
3	\$6,873.05	\$4,040.03	\$5,136.53	\$28.28	\$16,077.89	\$0.00	\$0.00	\$0.00	
4	\$6,928.62	\$11,811.81	\$5,303.48	\$28.28	\$24,072.20	\$0.00	\$0.00	\$0.00	
5	\$7,493.51	\$11,811.81	\$5,476.13	\$28.28	\$24,809.73	\$0.00	\$0.00	\$0.00	
6	\$7,543.36	\$11,811.81	\$5,654.04	\$28.28	\$25,037.49	\$0.00	\$0.00	\$0.00	
7	\$8,736.84	\$11,811.81	\$5,837.64	\$28.28	\$26,414.57	\$0.00	\$0.00	\$0.00	
8	\$9,265.59	\$11,811.81	\$6,027.38	\$28.28	\$27,133.07	\$0.00	\$0.00	\$0.00	
9	\$9,986.22	\$11,811.81	\$6,223.25	\$28.28	\$28,049.56	\$0.00	\$0.00	\$0.00	
10	\$10,105.03	\$11,811.81	\$6,425.70	\$28.28	\$28,370.82	\$0.00	\$0.00	\$0.00	
11	\$10,423.66	\$11,811.81	\$6,634.28	\$28.28	\$28,898.04	\$0.00	\$0.00	\$0.00	
12	\$10,886.40	\$11,811.81	\$6,849.87	\$28.28	\$29,576.37	\$0.00	\$0.00	\$0.00	
13	\$11,212.99	\$11,811.81	\$7,072.48	\$28.28	\$30,125.56	\$0.00	\$0.00	\$0.00	
14	\$11,549.38	\$11,811.81	\$7,302.53	\$28.28	\$30,692.00	\$0.00	\$0.00	\$0.00	
15	\$11,895.86	\$11,811.81	\$7,540.03	\$28.28	\$31,275.99	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$131,955.74	\$154,181.65	\$91,276.57	\$424.18	\$377,838.14	\$377,838.14	\$0.00	\$0.00	

Cost Based NPV				
	Energy	Capacity	T&D	Ancillary
1.00	4,328.29	4,546.43	4,818.40	28.28
0.92	4,356.62	3,551.54	4,585.10	26.06
0.85	5,838.35	3,431.83	4,363.25	24.02
0.78	5,424.48	9,247.56	4,152.14	22.14
0.72	5,407.12	8,523.10	3,951.43	20.41
0.67	5,016.68	7,855.39	3,760.19	18.81
0.61	5,355.20	7,239.99	3,578.15	17.33
0.56	5,234.38	6,672.80	3,405.03	15.98
0.52	5,199.52	6,150.05	3,240.26	14.72
0.48	4,849.20	5,668.25	3,083.56	13.57
0.44	4,610.23	5,224.19	2,934.25	12.51
0.41	4,437.69	4,814.92	2,792.26	11.53
0.38	4,212.74	4,437.72	2,657.14	10.62
0.35	3,999.19	4,090.06	2,528.64	9.79
0.32	3,796.47	3,769.64	2,406.34	9.02
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	72,066.15	85,223.50	52,256.13	254.80
	-	-	-	-

Residential Lighting

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	5.08	4.93	6.48	6.66	8.28	18.42
TRC Test	6.52	6.32	8.31	8.54	10.62	23.65
RIM Test	0.57	0.56	0.73	0.75	0.93	2.03
RIM (Net Fuel)	0.72	0.71	0.92	0.94	1.17	2.56
Societal Test	6.52	6.32	8.31	8.54	10.62	23.65
Participant Test	34.89	34.29	34.89	34.89	34.89	35.77

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$2,350.50	100.00%
Total Cost / kWh Savings	\$0.0094	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$235.54	10.02%
Allocated Costs / kWh Savings	\$0.0084	89.98%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio	
\$8,603.37	\$43,692.09	\$35,088.73	5.08	Utility (PAC) Test
\$8,631.50	\$56,280.56	\$47,649.06	6.52	TRC Test
\$76,229.77	\$43,692.09	(\$32,537.68)	0.57	RIM Test
\$60,625.09	\$43,692.09	(\$16,932.99)		RIM (Net Fuel)
\$8,631.50	\$56,280.56	\$47,649.06	6.52	Societal Test
\$2,256.00	\$78,719.27	\$76,463.27	34.89	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$36,367.95	\$28,966.03	\$38,863.88	\$39,997.87	\$50,329.67	\$114,942.23
Avoided Electric Production Adders	\$0.00	\$10,138.11	\$13,602.36	\$13,999.25	\$17,615.38	\$40,229.78
Avoided Electric Capacity	\$4,050.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$3,128.33	\$3,128.33	\$3,128.33	\$3,128.33	\$3,128.33	\$3,128.33
Avoided Ancillary	\$145.48	\$142.88	\$145.48	\$145.48	\$145.48	\$149.22
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$43,692.09	\$42,375.35	\$55,740.06	\$57,270.94	\$71,218.86	\$158,449.56
Administration Costs	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30
Implementation / Participation Costs	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87
Total	\$8,603.37	\$8,603.37	\$8,603.37	\$8,603.37	\$8,603.37	\$8,603.37
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>						
Avoided Electric Production	\$46,878.24	\$37,337.17	\$50,095.49	\$51,557.20	\$64,874.88	\$148,160.39
Avoided Electric Production Adders	\$0.00	\$13,068.01	\$17,533.42	\$18,045.02	\$22,706.21	\$51,856.14
Avoided Electric Capacity	\$5,286.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$3,935.21	\$3,935.21	\$3,935.21	\$3,935.21	\$3,935.21	\$3,935.21
Avoided Ancillary	\$180.30	\$177.07	\$180.30	\$180.30	\$180.30	\$184.93
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$56,280.56	\$54,517.46	\$71,744.43	\$73,717.73	\$91,696.59	\$204,136.66
Administration Costs	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30
Implementation / Participation Costs	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$6,375.50	\$6,375.50	\$6,375.50	\$6,375.50	\$6,375.50	\$6,375.50
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>RIM Test</b>						
Avoided Electric Production	\$36,367.95	\$28,966.03	\$38,863.88	\$39,997.87	\$50,329.67	\$114,942.23
Avoided Electric Production Adders	\$0.00	\$10,138.11	\$13,602.36	\$13,999.25	\$17,615.38	\$40,229.78
Avoided Electric Capacity	\$4,050.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$3,128.33	\$3,128.33	\$3,128.33	\$3,128.33	\$3,128.33	\$3,128.33
Avoided Ancillary	\$145.48	\$142.88	\$145.48	\$145.48	\$145.48	\$149.22
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$43,692.09	\$42,375.35	\$55,740.06	\$57,270.94	\$71,218.86	\$158,449.56
Administration Costs	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30
Implementation / Participation Costs	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87
Total	\$8,603.37	\$8,603.37	\$8,603.37	\$8,603.37	\$8,603.37	\$8,603.37
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$67,626.40	\$66,413.47	\$67,626.40	\$67,626.40	\$67,626.40	\$69,368.43
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$67,626.40	\$66,413.47	\$67,626.40	\$67,626.40	\$67,626.40	\$69,368.43
Net Fuel Lost Revenue (Electric)	\$52,021.72	\$51,088.33	\$52,021.72	\$52,021.72	\$52,021.72	\$53,362.99
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$52,021.72	\$51,088.33	\$52,021.72	\$52,021.72	\$52,021.72	\$53,362.99
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
651	96,292	3,660	0,000	Generator
	88,935	3,381	0,000	Meter
Check:	89,457.56	Loss Factor:	7.640%	

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$1,784.30	\$4,591.20	\$0.00	\$2,227.87	\$8,603.37	



Residential Lighting

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$46,878.24	\$37,337.17	\$50,095.49	\$51,557.20	\$64,874.88	\$148,160.39	
Avoided Electric Production Adders	\$0.00	\$13,068.01	\$17,533.42	\$18,045.02	\$22,706.21	\$51,856.14	
Avoided Electric Capacity	\$5,286.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$3,935.21	\$3,935.21	\$3,935.21	\$3,935.21	\$3,935.21	\$3,935.21	
Avoided Ancillary	\$180.30	\$177.07	\$180.30	\$180.30	\$180.30	\$184.93	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$56,280.56</b>	<b>\$54,517.46</b>	<b>\$71,744.43</b>	<b>\$73,717.73</b>	<b>\$91,696.59</b>	<b>\$204,136.66</b>	
Administration Costs	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	\$1,784.30	
Implementation / Participation Costs	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	\$4,591.20	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$6,375.50</b>	<b>\$6,375.50</b>	<b>\$6,375.50</b>	<b>\$6,375.50</b>	<b>\$6,375.50</b>	<b>\$6,375.50</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	\$2,227.87	
Participant Costs (gross)	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	\$2,256.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$76,491.40	\$75,119.47	\$76,491.40	\$76,491.40	\$76,491.40	\$78,461.78	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$76,491.40</b>	<b>\$75,119.47</b>	<b>\$76,491.40</b>	<b>\$76,491.40</b>	<b>\$76,491.40</b>	<b>\$78,461.78</b>	

Residential Lighting

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	651	0	651	0	651	651	\$2,256.00	\$0.00	\$2,256.00
2	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
3	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
4	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
5	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
6	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
7	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
8	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
9	0	0	651	0	651	651	\$0.00	\$0.00	\$0.00
10	0	0	53	0	53	53	\$0.00	\$0.00	\$0.00
11	0	0	53	0	53	53	\$0.00	\$0.00	\$0.00
12	0	0	53	0	53	53	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	651	0	6,018	0	6,018	6,018	\$2,256	\$0	\$2,256

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
2	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
3	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
4	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
5	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
6	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
7	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
8	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
9	0.059	0.059	0.006	0.006	0.000	0.000	147.91	147.91	39	39	4	4	4	0	96,292	96,292
10	0.132	0.132	0.013	0.013	0.000	0.000	312.06	312.06	7	7	1	1	0	0	16,539	16,539
11	0.132	0.132	0.013	0.013	0.000	0.000	312.06	312.06	7	7	1	1	0	0	16,539	16,539
12	0.132	0.132	0.013	0.013	0.000	0.000	312.06	312.06	7	7	1	1	0	0	16,539	16,539
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							2,267	2,267							916,246	916,246

Residential Lighting

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$12.90	\$0.00	\$12.90	\$8,397.73	\$0.00	\$8,397.73	\$6,125.51	\$0.00	\$6,125.51
2	\$13.54	\$0.00	\$13.54	\$8,817.62	\$0.00	\$8,817.62	\$6,545.40	\$0.00	\$6,545.40
3	\$14.22	\$0.00	\$14.22	\$9,258.50	\$0.00	\$9,258.50	\$6,986.28	\$0.00	\$6,986.28
4	\$14.93	\$0.00	\$14.93	\$9,721.43	\$0.00	\$9,721.43	\$7,449.21	\$0.00	\$7,449.21
5	\$15.68	\$0.00	\$15.68	\$10,207.50	\$0.00	\$10,207.50	\$7,935.28	\$0.00	\$7,935.28
6	\$16.46	\$0.00	\$16.46	\$10,717.87	\$0.00	\$10,717.87	\$8,445.65	\$0.00	\$8,445.65
7	\$16.63	\$0.00	\$16.63	\$10,825.05	\$0.00	\$10,825.05	\$8,552.83	\$0.00	\$8,552.83
8	\$16.79	\$0.00	\$16.79	\$10,933.30	\$0.00	\$10,933.30	\$8,661.08	\$0.00	\$8,661.08
9	\$16.96	\$0.00	\$16.96	\$11,042.64	\$0.00	\$11,042.64	\$8,770.41	\$0.00	\$8,770.41
10	\$36.14	\$0.00	\$36.14	\$1,915.63	\$0.00	\$1,915.63	\$1,525.36	\$0.00	\$1,525.36
11	\$36.51	\$0.00	\$36.51	\$1,934.79	\$0.00	\$1,934.79	\$1,544.52	\$0.00	\$1,544.52
12	\$36.87	\$0.00	\$36.87	\$1,954.14	\$0.00	\$1,954.14	\$1,563.87	\$0.00	\$1,563.87
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$247.65	\$0.00	\$247.65	\$95,726.22	\$0.00	\$95,726.22	\$74,105.40	\$0.00	\$74,105.40

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$1,784.30	\$4,591.20	\$2,227.87	\$0.00	\$8,603.37	\$2,350.50	\$2,350.50	\$0.09	\$0.09	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,784.30	\$4,591.20	\$2,227.87	\$0.00	\$8,603.37	\$2,350.50	\$2,350.50	\$0.09	\$0.09	\$0.00	\$0.00

Residential Lighting

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$3,464.93	\$1,212.73	\$402.48	\$21.18	\$5,101.32	\$0.00	\$0.00	\$0.00	\$0.00
2	\$3,784.06	\$1,324.42	\$415.55	\$21.18	\$5,545.21	\$0.00	\$0.00	\$0.00	\$0.00
3	\$5,502.09	\$1,925.73	\$429.05	\$21.18	\$7,878.06	\$0.00	\$0.00	\$0.00	\$0.00
4	\$5,546.58	\$1,941.30	\$443.00	\$21.18	\$7,952.07	\$0.00	\$0.00	\$0.00	\$0.00
5	\$5,998.79	\$2,099.58	\$457.42	\$21.18	\$8,576.97	\$0.00	\$0.00	\$0.00	\$0.00
6	\$6,038.70	\$2,113.55	\$472.28	\$21.18	\$8,645.71	\$0.00	\$0.00	\$0.00	\$0.00
7	\$6,994.11	\$2,447.94	\$487.61	\$21.18	\$9,950.85	\$0.00	\$0.00	\$0.00	\$0.00
8	\$7,417.40	\$2,596.09	\$503.46	\$21.18	\$10,538.14	\$0.00	\$0.00	\$0.00	\$0.00
9	\$7,994.28	\$2,798.00	\$519.82	\$21.18	\$11,333.29	\$0.00	\$0.00	\$0.00	\$0.00
10	\$1,389.42	\$486.30	\$97.35	\$3.64	\$1,976.71	\$0.00	\$0.00	\$0.00	\$0.00
11	\$1,433.24	\$501.63	\$100.51	\$3.64	\$2,039.01	\$0.00	\$0.00	\$0.00	\$0.00
12	\$1,496.86	\$523.90	\$103.77	\$3.64	\$2,128.18	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$57,060.48	\$19,971.17	\$4,432.30	\$201.57	\$81,665.53	\$0.00	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$3,242.40	\$306.56	\$402.48	\$21.18	\$3,972.63	\$0.00	\$0.00	\$0.00	\$0.00
2	\$3,541.04	\$259.83	\$415.55	\$21.18	\$4,237.60	\$0.00	\$0.00	\$0.00	\$0.00
3	\$5,148.73	\$272.42	\$429.05	\$21.18	\$5,871.39	\$0.00	\$0.00	\$0.00	\$0.00
4	\$5,190.37	\$796.47	\$443.00	\$21.18	\$6,451.02	\$0.00	\$0.00	\$0.00	\$0.00
5	\$5,613.53	\$796.47	\$457.42	\$21.18	\$6,888.60	\$0.00	\$0.00	\$0.00	\$0.00
6	\$5,650.88	\$796.47	\$472.28	\$21.18	\$6,940.81	\$0.00	\$0.00	\$0.00	\$0.00
7	\$6,544.93	\$796.47	\$487.61	\$21.18	\$7,850.20	\$0.00	\$0.00	\$0.00	\$0.00
8	\$6,941.04	\$796.47	\$503.46	\$21.18	\$8,262.15	\$0.00	\$0.00	\$0.00	\$0.00
9	\$7,480.87	\$796.47	\$519.82	\$21.18	\$8,818.34	\$0.00	\$0.00	\$0.00	\$0.00
10	\$1,300.19	\$144.46	\$97.35	\$3.64	\$1,545.63	\$0.00	\$0.00	\$0.00	\$0.00
11	\$1,341.19	\$144.46	\$100.51	\$3.64	\$1,589.79	\$0.00	\$0.00	\$0.00	\$0.00
12	\$1,400.73	\$144.46	\$103.77	\$3.64	\$1,652.60	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$53,395.92	\$6,050.98	\$4,432.30	\$201.57	\$64,080.77	\$64,080.77	\$0.00	\$0.00	\$0.00

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	3,242.40	306.56	402.48	21.18
0.92	3,263.63	239.48	382.99	19.52
0.85	4,373.62	231.41	364.46	18.00
0.78	4,063.58	623.56	346.83	16.59
0.72	4,060.58	574.71	330.06	15.29
0.67	3,758.09	529.69	314.09	14.09
0.61	4,011.69	488.19	298.88	12.98
0.56	3,921.18	449.94	284.42	11.97
0.52	3,895.06	414.70	270.66	11.03
0.48	623.94	69.32	46.72	1.75
0.44	593.19	63.89	44.45	1.61
0.41	570.99	58.89	42.30	1.48
0.38	-	-	-	-
0.35	-	-	-	-
0.32	-	-	-	-
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	36,367.95	4,050.33	3,128.33	145.48
	-	-	-	-

Residential All Programs

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	15.04	9.39	11.20	11.41	13.29	25.08
TRC Test	6.37	3.94	4.70	4.79	5.58	10.56
RIM Test	1.56	0.99	1.16	1.18	1.38	2.54
RIM (Net Fuel)	1.95	1.24	1.45	1.48	1.72	3.18
Societal Test	6.37	3.94	4.70	4.79	5.58	10.56
Participant Test	3.65	3.59	3.65	3.65	3.65	3.74

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$240.82	100.00%
Total Cost / kWh Savings	\$0.0078	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$132.71	55.11%
Allocated Costs / kWh Savings	\$0.0035	44.89%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio	
\$37,057.33	\$557,294.07	\$520,236.74	15.04	Utility (PAC) Test
\$123,225.46	\$784,941.49	\$661,716.03	6.37	TRC Test
\$357,803.61	\$557,294.07	\$199,490.46	1.56	RIM Test
\$285,480.57	\$557,294.07	\$271,813.50		RIM (Net Fuel)
\$123,225.46	\$784,941.49	\$661,716.03	6.37	Societal Test
\$105,156.00	\$383,669.07	\$278,513.07	3.65	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$181,520.33	\$144,584.80	\$194,161.27	\$199,867.91	\$251,461.11	\$575,151.82
Avoided Electric Production Adders	\$0.00	\$50,604.68	\$67,956.44	\$69,953.77	\$88,011.39	\$201,303.14
Avoided Electric Capacity	\$222,832.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$152,266.49	\$152,266.49	\$152,266.49	\$152,266.49	\$152,266.49	\$152,266.49
Avoided Ancillary	\$674.28	\$662.06	\$674.28	\$674.28	\$674.28	\$691.71
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$557,294.07	\$348,118.04	\$415,058.49	\$422,762.45	\$492,413.27	\$929,413.16
Administration Costs	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58
Implementation / Participation Costs	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87
Total	\$37,057.33	\$37,057.33	\$37,057.33	\$37,057.33	\$37,057.33	\$37,057.33
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>						
Avoided Electric Production	\$254,525.95	\$202,736.09	\$272,266.35	\$280,272.06	\$352,617.63	\$806,593.93
Avoided Electric Production Adders	\$0.00	\$70,957.63	\$95,293.22	\$98,095.22	\$123,416.17	\$282,307.88
Avoided Electric Capacity	\$318,574.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$210,947.12	\$210,947.12	\$210,947.12	\$210,947.12	\$210,947.12	\$210,947.12
Avoided Ancillary	\$893.57	\$877.37	\$893.57	\$893.57	\$893.57	\$916.68
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$784,941.49	\$485,518.22	\$579,400.26	\$590,207.97	\$687,874.48	\$1,300,765.60
Administration Costs	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58
Implementation / Participation Costs	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$18,069.46	\$18,069.46	\$18,069.46	\$18,069.46	\$18,069.46	\$18,069.46
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>RIM Test</b>						
Avoided Electric Production	\$181,520.33	\$144,584.80	\$194,161.27	\$199,867.91	\$251,461.11	\$575,151.82
Avoided Electric Production Adders	\$0.00	\$50,604.68	\$67,956.44	\$69,953.77	\$88,011.39	\$201,303.14
Avoided Electric Capacity	\$222,832.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$152,266.49	\$152,266.49	\$152,266.49	\$152,266.49	\$152,266.49	\$152,266.49
Avoided Ancillary	\$674.28	\$662.06	\$674.28	\$674.28	\$674.28	\$691.71
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$557,294.07	\$348,118.04	\$415,058.49	\$422,762.45	\$492,413.27	\$929,413.16
Administration Costs	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58
Implementation / Participation Costs	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87
Total	\$37,057.33	\$37,057.33	\$37,057.33	\$37,057.33	\$37,057.33	\$37,057.33
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$320,746.28	\$314,915.24	\$320,746.28	\$320,746.28	\$320,746.28	\$329,076.29
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$320,746.28	\$314,915.24	\$320,746.28	\$320,746.28	\$320,746.28	\$329,076.29
Net Fuel Lost Revenue (Electric)	\$248,423.24	\$243,902.35	\$248,423.24	\$248,423.24	\$248,423.24	\$254,883.23
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$248,423.24	\$243,902.35	\$248,423.24	\$248,423.24	\$248,423.24	\$254,883.23
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
703	380,936	39.117	114.766	Generator
	351,833	36.128	105.997	Meter
Check:	353,898.55	Loss Factor:	7.640%	

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$8,921.58	\$9,147.88	\$0.00	\$18,987.87	\$37,057.33	

Residential All Programs

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$254,525.95	\$202,736.09	\$272,266.35	\$280,272.06	\$352,617.63	\$806,593.93	
Avoided Electric Production Adders	\$0.00	\$70,957.63	\$95,293.22	\$98,095.22	\$123,416.17	\$282,307.88	
Avoided Electric Capacity	\$318,574.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$210,947.12	\$210,947.12	\$210,947.12	\$210,947.12	\$210,947.12	\$210,947.12	
Avoided Ancillary	\$893.57	\$877.37	\$893.57	\$893.57	\$893.57	\$916.68	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$784,941.49</b>	<b>\$485,518.22</b>	<b>\$579,400.26</b>	<b>\$590,207.97</b>	<b>\$687,874.48</b>	<b>\$1,300,765.60</b>	
Administration Costs	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	\$8,921.58	
Implementation / Participation Costs	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	\$9,147.88	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$18,069.46</b>	<b>\$18,069.46</b>	<b>\$18,069.46</b>	<b>\$18,069.46</b>	<b>\$18,069.46</b>	<b>\$18,069.46</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	\$18,987.87	
Participant Costs (gross)	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	\$105,156.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$364,681.20	\$358,054.03	\$364,681.20	\$364,681.20	\$364,681.20	\$374,150.00	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$364,681.20</b>	<b>\$358,054.03</b>	<b>\$364,681.20</b>	<b>\$364,681.20</b>	<b>\$364,681.20</b>	<b>\$374,150.00</b>	

Residential All Programs

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	703	0	703	0	703	703	\$105,156.00	\$0.00	\$105,156.00
2	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
3	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
4	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
5	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
6	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
7	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
8	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
9	0	0	703	0	703	703	\$0.00	\$0.00	\$0.00
10	0	0	105	0	105	105	\$0.00	\$0.00	\$0.00
11	0	0	105	0	105	105	\$0.00	\$0.00	\$0.00
12	0	0	105	0	105	105	\$0.00	\$0.00	\$0.00
13	0	0	35	0	35	35	\$0.00	\$0.00	\$0.00
14	0	0	35	0	35	35	\$0.00	\$0.00	\$0.00
15	0	0	35	0	35	35	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	703	0	6,747	0	6,747	6,747	\$105,156	\$0	\$105,156

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
2	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
3	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
4	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
5	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
6	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
7	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
8	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
9	0.077	0.077	0.056	0.056	0.163	0.163	541.87	541.87	54	54	39	39	115	115	380,936	380,936
10	0.213	0.213	0.344	0.344	1.093	1.093	2,868.41	2,868.41	22	22	36	36	115	115	301,183	301,183
11	0.213	0.213	0.344	0.344	1.093	1.093	2,868.41	2,868.41	22	22	36	36	115	115	301,183	301,183
12	0.213	0.213	0.344	0.344	1.093	1.093	2,868.41	2,868.41	22	22	36	36	115	115	301,183	301,183
13	0.310	0.310	0.888	0.888	1.252	1.252	3,712.56	3,712.56	11	11	31	31	44	44	129,940	129,940
14	0.310	0.310	0.888	0.888	1.252	1.252	3,712.56	3,712.56	11	11	31	31	44	44	129,940	129,940
15	0.310	0.310	0.888	0.888	1.252	1.252	3,712.56	3,712.56	11	11	31	31	44	44	129,940	129,940
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							24,620	24,620							4,721,797	4,721,797

Residential All Programs

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Gas	Total
1	\$47.29	\$0.00	\$47.29	\$33,245.51	\$0.00	\$33,245.51	\$24,256.48	\$0.00	\$24,256.48
2	\$49.66	\$0.00	\$49.66	\$34,907.78	\$0.00	\$34,907.78	\$25,918.76	\$0.00	\$25,918.76
3	\$52.14	\$0.00	\$52.14	\$36,653.17	\$0.00	\$36,653.17	\$27,664.15	\$0.00	\$27,664.15
4	\$54.75	\$0.00	\$54.75	\$38,485.83	\$0.00	\$38,485.83	\$29,496.81	\$0.00	\$29,496.81
5	\$57.48	\$0.00	\$57.48	\$40,410.12	\$0.00	\$40,410.12	\$31,421.10	\$0.00	\$31,421.10
6	\$60.36	\$0.00	\$60.36	\$42,430.63	\$0.00	\$42,430.63	\$33,441.60	\$0.00	\$33,441.60
7	\$60.96	\$0.00	\$60.96	\$42,854.93	\$0.00	\$42,854.93	\$33,865.91	\$0.00	\$33,865.91
8	\$61.57	\$0.00	\$61.57	\$43,283.48	\$0.00	\$43,283.48	\$34,294.46	\$0.00	\$34,294.46
9	\$62.19	\$0.00	\$62.19	\$43,716.32	\$0.00	\$43,716.32	\$34,727.29	\$0.00	\$34,727.29
10	\$332.53	\$0.00	\$332.53	\$34,916.05	\$0.00	\$34,916.05	\$27,808.98	\$0.00	\$27,808.98
11	\$335.86	\$0.00	\$335.86	\$35,265.21	\$0.00	\$35,265.21	\$28,158.14	\$0.00	\$28,158.14
12	\$339.22	\$0.00	\$339.22	\$35,617.87	\$0.00	\$35,617.87	\$28,510.79	\$0.00	\$28,510.79
13	\$443.96	\$0.00	\$443.96	\$15,538.71	\$0.00	\$15,538.71	\$12,472.50	\$0.00	\$12,472.50
14	\$448.40	\$0.00	\$448.40	\$15,694.10	\$0.00	\$15,694.10	\$12,627.89	\$0.00	\$12,627.89
15	\$452.89	\$0.00	\$452.89	\$15,851.04	\$0.00	\$15,851.04	\$12,784.83	\$0.00	\$12,784.83
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$2,859.25	\$0.00	\$2,859.25	\$508,870.75	\$0.00	\$508,870.75	\$397,449.68	\$0.00	\$397,449.68

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$8,921.58	\$9,147.88	\$18,987.87	\$0.00	\$37,057.33	\$240.82	\$240.82	\$0.10	\$0.10	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$8,921.58	\$9,147.88	\$18,987.87	\$0.00	\$37,057.33	\$240.82	\$240.82	\$0.10	\$0.10	\$0.00	\$0.00



Residential All Programs

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$13,719.68	\$4,801.89	\$15,287.52	\$83.81	\$33,892.89	\$0.00	\$0.00	\$0.00	
2	\$14,983.31	\$5,244.16	\$15,783.85	\$83.81	\$36,095.12	\$0.00	\$0.00	\$0.00	
3	\$21,785.99	\$7,625.09	\$16,296.86	\$83.81	\$45,791.75	\$0.00	\$0.00	\$0.00	
4	\$21,962.16	\$7,686.75	\$16,826.56	\$83.81	\$46,559.28	\$0.00	\$0.00	\$0.00	
5	\$23,752.70	\$8,313.45	\$17,374.33	\$83.81	\$49,524.28	\$0.00	\$0.00	\$0.00	
6	\$23,910.74	\$8,368.76	\$17,938.79	\$83.81	\$50,302.08	\$0.00	\$0.00	\$0.00	
7	\$27,693.77	\$9,692.82	\$18,521.31	\$83.81	\$55,991.71	\$0.00	\$0.00	\$0.00	
8	\$29,369.81	\$10,279.43	\$19,123.30	\$83.81	\$58,856.36	\$0.00	\$0.00	\$0.00	
9	\$31,654.02	\$11,078.91	\$19,744.76	\$83.81	\$62,561.49	\$0.00	\$0.00	\$0.00	
10	\$25,330.66	\$8,865.73	\$19,947.68	\$66.26	\$54,210.34	\$0.00	\$0.00	\$0.00	
11	\$26,129.39	\$9,145.29	\$20,595.19	\$66.26	\$55,936.13	\$0.00	\$0.00	\$0.00	
12	\$27,289.35	\$9,551.27	\$21,264.47	\$66.26	\$58,171.35	\$0.00	\$0.00	\$0.00	
13	\$12,144.70	\$4,250.64	\$10,397.69	\$28.59	\$26,821.62	\$0.00	\$0.00	\$0.00	
14	\$12,509.04	\$4,378.16	\$10,735.90	\$28.59	\$27,651.69	\$0.00	\$0.00	\$0.00	
15	\$12,884.31	\$4,509.51	\$11,085.07	\$28.59	\$28,507.48	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$325,119.61	\$113,791.86	\$250,923.29	\$1,038.80	\$690,873.56	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$12,828.27	\$12,888.49	\$15,287.52	\$83.81	\$41,088.09	\$0.00	\$0.00	\$0.00	
2	\$14,009.80	\$10,923.92	\$15,783.85	\$83.81	\$40,801.37	\$0.00	\$0.00	\$0.00	
3	\$20,370.49	\$11,452.93	\$16,296.86	\$83.81	\$48,204.08	\$0.00	\$0.00	\$0.00	
4	\$20,535.21	\$33,484.84	\$16,826.56	\$83.81	\$70,930.42	\$0.00	\$0.00	\$0.00	
5	\$22,209.42	\$33,484.84	\$17,374.33	\$83.81	\$73,152.40	\$0.00	\$0.00	\$0.00	
6	\$22,357.19	\$33,484.84	\$17,938.79	\$83.81	\$73,864.62	\$0.00	\$0.00	\$0.00	
7	\$25,894.42	\$33,484.84	\$18,521.31	\$83.81	\$77,984.38	\$0.00	\$0.00	\$0.00	
8	\$27,461.57	\$33,484.84	\$19,123.30	\$83.81	\$80,153.52	\$0.00	\$0.00	\$0.00	
9	\$29,597.36	\$33,484.84	\$19,744.76	\$83.81	\$82,910.77	\$0.00	\$0.00	\$0.00	
10	\$23,679.83	\$32,832.83	\$19,947.68	\$66.26	\$76,526.60	\$0.00	\$0.00	\$0.00	
11	\$24,426.50	\$32,832.83	\$20,595.19	\$66.26	\$77,920.78	\$0.00	\$0.00	\$0.00	
12	\$25,510.87	\$32,832.83	\$21,264.47	\$66.26	\$79,674.42	\$0.00	\$0.00	\$0.00	
13	\$11,338.06	\$16,294.88	\$10,397.69	\$28.59	\$38,059.22	\$0.00	\$0.00	\$0.00	
14	\$11,678.21	\$16,294.88	\$10,735.90	\$28.59	\$38,737.57	\$0.00	\$0.00	\$0.00	
15	\$12,028.55	\$16,294.88	\$11,085.07	\$28.59	\$39,437.09	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$303,925.74	\$383,557.50	\$250,923.29	\$1,038.80	\$939,445.32	\$939,445.32	\$0.00	\$0.00	

Cost Based NPV				
	Energy	Capacity	T&D	Ancillary
1.00	12,828.27	12,888.49	15,287.52	83.81
0.92	12,912.26	10,068.13	14,547.33	77.24
0.85	17,303.82	9,728.75	13,843.46	71.19
0.78	16,077.18	26,215.55	13,173.65	66.61
0.72	16,025.75	24,161.80	12,536.87	60.47
0.67	14,868.54	22,268.94	11,930.11	55.73
0.61	15,871.86	20,524.37	11,352.55	51.37
0.56	15,513.76	18,916.47	10,803.26	47.34
0.52	15,410.44	17,434.53	10,280.49	43.64
0.48	11,363.47	15,755.81	9,572.49	31.80
0.44	10,803.48	14,521.48	9,108.95	29.31
0.41	10,399.16	13,383.85	8,668.17	27.01
0.38	4,259.73	6,122.01	3,906.43	10.74
0.35	4,043.80	5,642.41	3,717.51	9.90
0.32	3,838.81	5,200.38	3,537.71	9.12
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	181,520.33	222,832.97	152,266.49	674.28
	-	-	-	-

Commercial Air Source Heat Pumps

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	23.26	15.39	18.50	18.98	22.33	42.68
TRC Test	11.30	7.44	8.96	9.19	10.83	20.78
RIM Test	1.62	1.08	1.29	1.32	1.56	2.93
RIM (Net Fuel)	2.09	1.39	1.66	1.70	2.01	3.78
Societal Test	11.30	7.44	8.96	9.19	10.83	20.78
Participant Test	6.18	6.14	6.18	6.18	6.18	6.27

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$155.89	100.00%
Total Cost / kWh Savings	\$0.0049	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based /</b>	<b>0</b>	
Allocated Costs / kW Savings	\$78.94	50.64%
Allocated Costs / kWh Savings	\$0.0024	49.36%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio	
\$11,417.27	\$265,619.34	\$254,202.06	23.26	Utility (PAC) Test
\$32,097.27	\$362,837.95	\$330,740.68	11.30	TRC Test
\$163,737.17	\$265,619.34	\$101,882.17	1.62	RIM Test
\$127,103.88	\$265,619.34	\$138,515.45		RIM (Net Fuel)
\$32,097.27	\$362,837.95	\$330,740.68	11.30	Societal Test
\$29,400.00	\$181,756.92	\$152,356.92	6.18	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$95,921.67	\$77,381.35	\$103,628.88	\$107,660.34	\$136,061.72	\$308,156.88
Avoided Electric Production Adders	\$0.00	\$27,083.47	\$36,270.11	\$37,681.12	\$47,621.60	\$107,854.91
Avoided Electric Capacity	\$98,392.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$70,963.25	\$70,963.25	\$70,963.25	\$70,963.25	\$70,963.25	\$70,963.25
Avoided Ancillary	\$341.54	\$338.97	\$341.54	\$341.54	\$341.54	\$346.83
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$265,619.34</b>	<b>\$175,767.05</b>	<b>\$211,203.77</b>	<b>\$216,646.24</b>	<b>\$254,988.11</b>	<b>\$487,321.87</b>
Administration Costs	\$664.82	\$664.82	\$664.82	\$664.82	\$664.82	\$664.82
Implementation / Participation Costs	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$8,720.00	\$8,720.00	\$8,720.00	\$8,720.00	\$8,720.00	\$8,720.00
<b>Total</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>						
Avoided Electric Production	\$131,832.53	\$106,351.15	\$142,425.14	\$147,965.89	\$187,000.09	\$423,523.72
Avoided Electric Production Adders	\$0.00	\$37,222.90	\$49,848.80	\$51,788.06	\$65,450.03	\$148,233.30
Avoided Electric Capacity	\$135,835.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$94,723.51	\$94,723.51	\$94,723.51	\$94,723.51	\$94,723.51	\$94,723.51
Avoided Ancillary	\$446.53	\$443.18	\$446.53	\$446.53	\$446.53	\$453.45
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$362,837.95</b>	<b>\$238,740.74</b>	<b>\$287,443.98</b>	<b>\$294,923.99</b>	<b>\$347,620.17</b>	<b>\$666,933.98</b>
Administration Costs	\$664.82	\$664.82	\$664.82	\$664.82	\$664.82	\$664.82
Implementation / Participation Costs	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,697.27</b>	<b>\$2,697.27</b>	<b>\$2,697.27</b>	<b>\$2,697.27</b>	<b>\$2,697.27</b>	<b>\$2,697.27</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$29,400.00	\$29,400.00	\$29,400.00	\$29,400.00	\$29,400.00	\$29,400.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>						
Avoided Electric Production	\$95,921.67	\$77,381.35	\$103,628.88	\$107,660.34	\$136,061.72	\$308,156.88
Avoided Electric Production Adders	\$0.00	\$27,083.47	\$36,270.11	\$37,681.12	\$47,621.60	\$107,854.91
Avoided Electric Capacity	\$98,392.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$70,963.25	\$70,963.25	\$70,963.25	\$70,963.25	\$70,963.25	\$70,963.25
Avoided Ancillary	\$341.54	\$338.97	\$341.54	\$341.54	\$341.54	\$346.83
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$265,619.34</b>	<b>\$175,767.05</b>	<b>\$211,203.77</b>	<b>\$216,646.24</b>	<b>\$254,988.11</b>	<b>\$487,321.87</b>
Administration Costs	\$664.82	\$664.82	\$664.82	\$664.82	\$664.82	\$664.82
Implementation / Participation Costs	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45	\$2,032.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$8,720.00	\$8,720.00	\$8,720.00	\$8,720.00	\$8,720.00	\$8,720.00
<b>Total</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>	<b>\$11,417.27</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$152,319.90	\$151,156.10	\$152,319.90	\$152,319.90	\$152,319.90	\$154,630.08
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$152,319.90</b>	<b>\$151,156.10</b>	<b>\$152,319.90</b>	<b>\$152,319.90</b>	<b>\$152,319.90</b>	<b>\$154,630.08</b>
Net Fuel Lost Revenue (Electric)	\$115,686.61	\$114,793.06	\$115,686.61	\$115,686.61	\$115,686.61	\$117,429.25
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$115,686.61</b>	<b>\$114,793.06</b>	<b>\$115,686.61</b>	<b>\$115,686.61</b>	<b>\$115,686.61</b>	<b>\$117,429.25</b>
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
14	194,811	3.617	69.622	Generator
	179,927	3.340	64.302	Meter
Check:	180,983.60	Loss Factor:	7.640%	

  

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$664.82	\$2,032.45	\$0.00	\$8,720.00	\$11,417.27	



Commercial Air Source Heat Pumps

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	14	0	14	0	14	14	\$29,400.00	\$0.00	\$29,400.00
2	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
3	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
4	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
5	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
6	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
7	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
8	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
9	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
10	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
11	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
12	0	0	14	0	14	14	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	14	0	168	0	168	168	\$29,400	\$0	\$29,400

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
2	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
3	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
4	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
5	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
6	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
7	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
8	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
9	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
10	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
11	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
12	0.402	0.402	0.258	0.258	4.973	4.973	13,915.05	13,915.05	6	6	4	4	70	70	194,811	194,811
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							166,981	166,981							2,337,729	2,337,729

Commercial Air Source Heat Pumps

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$1,141.71	\$0.00	\$1,141.71	\$15,983.90	\$0.00	\$15,983.90	\$11,386.92	\$0.00	\$11,386.92
2	\$1,198.79	\$0.00	\$1,198.79	\$16,783.10	\$0.00	\$16,783.10	\$12,186.12	\$0.00	\$12,186.12
3	\$1,258.73	\$0.00	\$1,258.73	\$17,622.25	\$0.00	\$17,622.25	\$13,025.27	\$0.00	\$13,025.27
4	\$1,321.67	\$0.00	\$1,321.67	\$18,503.37	\$0.00	\$18,503.37	\$13,906.38	\$0.00	\$13,906.38
5	\$1,387.75	\$0.00	\$1,387.75	\$19,428.53	\$0.00	\$19,428.53	\$14,831.55	\$0.00	\$14,831.55
6	\$1,457.14	\$0.00	\$1,457.14	\$20,399.96	\$0.00	\$20,399.96	\$15,802.98	\$0.00	\$15,802.98
7	\$1,471.71	\$0.00	\$1,471.71	\$20,603.96	\$0.00	\$20,603.96	\$16,006.98	\$0.00	\$16,006.98
8	\$1,486.43	\$0.00	\$1,486.43	\$20,810.00	\$0.00	\$20,810.00	\$16,213.02	\$0.00	\$16,213.02
9	\$1,501.29	\$0.00	\$1,501.29	\$21,018.10	\$0.00	\$21,018.10	\$16,421.12	\$0.00	\$16,421.12
10	\$1,516.31	\$0.00	\$1,516.31	\$21,228.28	\$0.00	\$21,228.28	\$16,631.30	\$0.00	\$16,631.30
11	\$1,531.47	\$0.00	\$1,531.47	\$21,440.56	\$0.00	\$21,440.56	\$16,843.58	\$0.00	\$16,843.58
12	\$1,546.78	\$0.00	\$1,546.78	\$21,654.97	\$0.00	\$21,654.97	\$17,057.99	\$0.00	\$17,057.99
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$16,819.79	\$0.00	\$16,819.79	\$235,476.99	\$0.00	\$235,476.99	\$180,313.19	\$0.00	\$180,313.19

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$664.82	\$2,032.45	\$8,720.00	\$0.00	\$11,417.27	\$155.89	\$155.89	\$0.06	\$0.06	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$664.82	\$2,032.45	\$8,720.00	\$0.00	\$11,417.27	\$155.89	\$155.89	\$0.06	\$0.06	\$0.00	\$0.00

Commercial Air Source Heat Pumps

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$7,468.40	\$2,613.94	\$7,655.59	\$42.86	\$17,780.79	\$0.00	\$0.00	\$0.00	
2	\$8,156.27	\$2,854.69	\$7,904.13	\$42.86	\$18,957.95	\$0.00	\$0.00	\$0.00	
3	\$11,859.35	\$4,150.77	\$8,161.04	\$42.86	\$24,214.02	\$0.00	\$0.00	\$0.00	
4	\$11,955.25	\$4,184.34	\$8,426.30	\$42.86	\$24,608.75	\$0.00	\$0.00	\$0.00	
5	\$12,929.95	\$4,525.48	\$8,700.61	\$42.86	\$26,198.89	\$0.00	\$0.00	\$0.00	
6	\$13,015.98	\$4,555.59	\$8,983.27	\$42.86	\$26,597.69	\$0.00	\$0.00	\$0.00	
7	\$15,075.30	\$5,276.35	\$9,274.98	\$42.86	\$29,669.49	\$0.00	\$0.00	\$0.00	
8	\$15,987.66	\$5,595.68	\$9,576.44	\$42.86	\$31,202.65	\$0.00	\$0.00	\$0.00	
9	\$17,231.08	\$6,030.88	\$9,887.65	\$42.86	\$33,192.48	\$0.00	\$0.00	\$0.00	
10	\$17,436.10	\$6,102.64	\$10,209.30	\$42.86	\$33,790.90	\$0.00	\$0.00	\$0.00	
11	\$17,985.90	\$6,295.06	\$10,540.70	\$42.86	\$34,864.52	\$0.00	\$0.00	\$0.00	
12	\$18,784.34	\$6,574.52	\$10,883.24	\$42.86	\$36,284.96	\$0.00	\$0.00	\$0.00	
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$167,885.58	\$58,759.95	\$110,203.26	\$514.30	\$337,363.09	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$6,912.95	\$6,134.11	\$7,655.59	\$42.86	\$20,745.50	\$0.00	\$0.00	\$0.00	
2	\$7,549.66	\$5,199.09	\$7,904.13	\$42.86	\$20,695.75	\$0.00	\$0.00	\$0.00	
3	\$10,977.34	\$5,450.87	\$8,161.04	\$42.86	\$24,632.10	\$0.00	\$0.00	\$0.00	
4	\$11,066.10	\$15,936.66	\$8,426.30	\$42.86	\$35,471.92	\$0.00	\$0.00	\$0.00	
5	\$11,968.31	\$15,936.66	\$8,700.61	\$42.86	\$36,648.44	\$0.00	\$0.00	\$0.00	
6	\$12,047.94	\$15,936.66	\$8,983.27	\$42.86	\$37,010.73	\$0.00	\$0.00	\$0.00	
7	\$13,954.10	\$15,936.66	\$9,274.98	\$42.86	\$39,208.60	\$0.00	\$0.00	\$0.00	
8	\$14,798.61	\$15,936.66	\$9,576.44	\$42.86	\$40,354.58	\$0.00	\$0.00	\$0.00	
9	\$15,949.55	\$15,936.66	\$9,887.65	\$42.86	\$41,816.73	\$0.00	\$0.00	\$0.00	
10	\$16,139.32	\$15,936.66	\$10,209.30	\$42.86	\$42,328.15	\$0.00	\$0.00	\$0.00	
11	\$16,648.23	\$15,936.66	\$10,540.70	\$42.86	\$43,168.45	\$0.00	\$0.00	\$0.00	
12	\$17,387.29	\$15,936.66	\$10,883.24	\$42.86	\$44,250.06	\$0.00	\$0.00	\$0.00	
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$155,399.40	\$160,214.05	\$110,203.26	\$514.30	\$426,331.00	\$426,331.00	\$0.00	\$0.00	

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	6,912.95	6,134.11	7,655.59	42.86
0.92	6,958.21	4,791.79	7,284.92	39.50
0.85	9,324.76	4,630.27	6,932.44	36.41
0.78	8,663.74	12,476.94	6,597.02	33.55
0.72	8,636.02	11,499.49	6,278.13	30.93
0.67	8,012.43	10,598.61	5,974.28	28.50
0.61	8,553.10	9,768.30	5,685.06	26.27
0.56	8,360.12	9,003.04	5,409.99	24.21
0.52	8,304.45	8,297.73	5,148.20	22.32
0.48	7,744.93	7,647.68	4,899.24	20.57
0.44	7,363.27	7,048.55	4,662.00	18.96
0.41	7,087.69	6,496.36	4,436.40	17.47
0.38	-	-	-	-
0.35	-	-	-	-
0.32	-	-	-	-
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	95,921.67	98,392.88	70,963.25	341.54
	-	-	-	-

Commercial Custom Efficiency Projects

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	0.00	0.00	0.00	0.00	0.00	0.00
TRC Test	0.00	0.00	0.00	0.00	0.00	0.00
RIM Test	0.00	0.00	0.00	0.00	0.00	0.00
RIM (Net Fuel)	0.00	0.00	0.00	0.00	0.00	0.00
Societal Test	0.00	0.00	0.00	0.00	0.00	0.00
Participant Test	65535.00	65535.00	65535.00	65535.00	65535.00	65535.00

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$0.00	100.00%
Total Cost / kWh Savings	\$0.0000	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based /</b>	<b>0</b>	
Allocated Costs / kW Savings	\$0.00	0.00%
Allocated Costs / kWh Savings	\$0.0000	0.00%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio	
\$8,794.01	\$0.00	(\$8,794.01)	inf.	Utility (PAC) Test
\$8,794.01	\$0.00	(\$8,794.01)	inf.	TRC Test
\$8,794.01	\$0.00	(\$8,794.01)	inf.	RIM Test
\$8,794.01	\$0.00	(\$8,794.01)	inf.	RIM (Net Fuel)
\$8,794.01	\$0.00	(\$8,794.01)	inf.	Societal Test
\$0.00	\$0.00	\$0.00	inf.	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49
Implementation / Participation Costs	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TRC Test	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49
Implementation / Participation Costs	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RIM Test	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49	\$2,197.49
Implementation / Participation Costs	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52	\$6,596.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01	\$8,794.01
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Net Fuel Lost Revenue (Electric)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
1	0	0.000	0.000	Generator
	0	0.000	0.000	Meter

Check: 0.00 Loss Factor: 7.640%

Administration				
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs
\$2,197.49	\$6,596.52	\$0.00	\$0.00	\$8,794.01







Commercial Custom Efficiency Projects

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$2,197.49	\$6,596.52	\$0.00	\$0.00	\$8,794.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$2,197.49	\$6,596.52	\$0.00	\$0.00	\$8,794.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Commercial Custom Efficiency Projects

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Persistence)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	-	-	-	-
0.92	-	-	-	-
0.85	-	-	-	-
0.78	-	-	-	-
0.72	-	-	-	-
0.67	-	-	-	-
0.61	-	-	-	-
0.56	-	-	-	-
0.52	-	-	-	-
0.48	-	-	-	-
0.44	-	-	-	-
0.41	-	-	-	-
0.38	-	-	-	-
0.35	-	-	-	-
0.32	-	-	-	-
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	-	-	-	-

Commercial Drive Power

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	15.03	11.87	14.63	14.96	18.30	36.76
TRC Test	9.07	7.17	8.84	9.05	11.08	22.31
RIM Test	1.00	0.80	0.98	1.00	1.22	2.44
RIM (Net Fuel)	1.30	1.03	1.26	1.29	1.58	3.15
Societal Test	9.07	7.17	8.84	9.05	11.08	22.31
Participant Test	7.02	6.99	7.02	7.02	7.02	7.06

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$448.26	100.00%
Total Cost / kWh Savings	\$0.0042	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$127.26	28.39%
Allocated Costs / kWh Savings	\$0.0030	71.61%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/ Cost Ratio	
\$173,902.36	\$2,613,537.83	\$2,439,635.47	15.03	Utility (PAC) Test
\$424,855.86	\$3,855,530.09	\$3,430,674.23	9.07	TRC Test
\$2,608,055.78	\$2,613,537.83	\$5,482.05	1.00	RIM Test
\$2,017,199.19	\$2,613,537.83	\$596,338.64		RIM (Net Fuel)
\$424,855.86	\$3,855,530.09	\$3,430,674.23	9.07	Societal Test
\$404,675.00	\$2,840,917.98	\$2,436,242.98	7.02	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$1,536,310.84	\$1,182,152.95	\$1,537,322.83	\$1,580,819.81	\$2,010,879.82	\$4,388,455.02
Avoided Electric Production Adders	\$0.00	\$413,753.53	\$538,062.99	\$553,286.93	\$703,807.94	\$1,535,959.26
Avoided Electric Capacity	\$609,080.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$462,638.24	\$462,638.24	\$462,638.24	\$462,638.24	\$462,638.24	\$462,638.24
Avoided Ancillary	\$5,508.64	\$5,475.98	\$5,508.64	\$5,508.64	\$5,508.64	\$5,543.34
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,613,537.83</b>	<b>\$2,064,020.71</b>	<b>\$2,543,532.71</b>	<b>\$2,602,253.62</b>	<b>\$3,182,834.64</b>	<b>\$6,392,595.86</b>
Administration Costs	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76
Implementation / Participation Costs	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50
<b>Total</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$2,283,372.18	\$1,756,998.06	\$2,284,876.27	\$2,349,524.50	\$2,988,709.65	\$6,522,427.52
Avoided Electric Production Adders	\$0.00	\$614,949.32	\$799,706.70	\$822,333.58	\$1,046,048.38	\$2,282,849.63
Avoided Electric Capacity	\$899,140.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$665,347.05	\$665,347.05	\$665,347.05	\$665,347.05	\$665,347.05	\$665,347.05
Avoided Ancillary	\$7,670.73	\$7,625.25	\$7,670.73	\$7,670.73	\$7,670.73	\$7,719.05
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$3,855,530.09</b>	<b>\$3,044,919.69</b>	<b>\$3,757,600.76</b>	<b>\$3,844,875.87</b>	<b>\$4,707,775.82</b>	<b>\$9,478,343.26</b>
Administration Costs	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76
Implementation / Participation Costs	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$1,536,310.84	\$1,182,152.95	\$1,537,322.83	\$1,580,819.81	\$2,010,879.82	\$4,388,455.02
Avoided Electric Production Adders	\$0.00	\$413,753.53	\$538,062.99	\$553,286.93	\$703,807.94	\$1,535,959.26
Avoided Electric Capacity	\$609,080.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$462,638.24	\$462,638.24	\$462,638.24	\$462,638.24	\$462,638.24	\$462,638.24
Avoided Ancillary	\$5,508.64	\$5,475.98	\$5,508.64	\$5,508.64	\$5,508.64	\$5,543.34
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,613,537.83</b>	<b>\$2,064,020.71</b>	<b>\$2,543,532.71</b>	<b>\$2,602,253.62</b>	<b>\$3,182,834.64</b>	<b>\$6,392,595.86</b>
Administration Costs	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76
Implementation / Participation Costs	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50
<b>Total</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>	<b>\$173,902.36</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$2,434,153.42	\$2,421,537.16	\$2,434,153.42	\$2,434,153.42	\$2,434,153.42	\$2,447,636.76
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,434,153.42</b>	<b>\$2,421,537.16</b>	<b>\$2,434,153.42</b>	<b>\$2,434,153.42</b>	<b>\$2,434,153.42</b>	<b>\$2,447,636.76</b>
Net Fuel Lost Revenue (Electric)	\$1,843,296.83	\$1,834,184.08	\$1,843,296.83	\$1,843,296.83	\$1,843,296.83	\$1,853,058.23
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$1,843,296.83</b>	<b>\$1,834,184.08</b>	<b>\$1,843,296.83</b>	<b>\$1,843,296.83</b>	<b>\$1,843,296.83</b>	<b>\$1,853,058.23</b>
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
79	2,779,026	387,947	0.000	Generator
	2,566,708	358,308	0.000	Meter

Check: 2,581,778.12      Loss Factor: 7.640%

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$6,433.76	\$13,747.10	\$0.00	\$153,721.50	\$173,902.36	

Commercial Drive Power

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$2,283,372.18	\$1,756,998.06	\$2,284,876.27	\$2,349,524.50	\$2,988,709.65	\$6,522,427.52	
Avoided Electric Production Adders	\$0.00	\$614,949.32	\$799,706.70	\$822,333.58	\$1,046,048.38	\$2,282,849.63	
Avoided Electric Capacity	\$899,140.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$665,347.05	\$665,347.05	\$665,347.05	\$665,347.05	\$665,347.05	\$665,347.05	
Avoided Ancillary	\$7,670.73	\$7,625.25	\$7,670.73	\$7,670.73	\$7,670.73	\$7,719.05	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$3,855,530.09</b>	<b>\$3,044,919.69</b>	<b>\$3,757,600.76</b>	<b>\$3,844,875.87</b>	<b>\$4,707,775.82</b>	<b>\$9,478,343.26</b>	
Administration Costs	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	\$6,433.76	
Implementation / Participation Costs	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	\$13,747.10	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	<b>\$20,180.86</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	\$153,721.50	
Participant Costs (gross)	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	\$404,675.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$2,687,196.48	\$2,673,268.69	\$2,687,196.48	\$2,687,196.48	\$2,687,196.48	\$2,702,081.49	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$2,687,196.48</b>	<b>\$2,673,268.69</b>	<b>\$2,687,196.48</b>	<b>\$2,687,196.48</b>	<b>\$2,687,196.48</b>	<b>\$2,702,081.49</b>	

Commercial Drive Power

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	79	0	79	0	79	79	\$404,675.00	\$0.00	\$404,675.00
2	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
3	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
4	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
5	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
6	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
7	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
8	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
9	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
10	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
11	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
12	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
13	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
14	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
15	0	0	79	0	79	79	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	79	0	1,185	0	1,185	1,185	\$404,675	\$0	\$404,675

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
2	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
3	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
4	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
5	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
6	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
7	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
8	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
9	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
10	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
11	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
12	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
13	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
14	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
15	4.988	4.988	4.911	4.911	0.000	0.000	35,177.54	35,177.54	394	394	388	388	0	0	2,779,026	2,779,026
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							527,663	527,663							41,685,390	41,685,390

Commercial Drive Power

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$2,809.35	\$0.00	\$2,809.35	\$221,938.39	\$0.00	\$221,938.39	\$156,361.22	\$0.00	\$156,361.22
2	\$2,949.81	\$0.00	\$2,949.81	\$233,035.31	\$0.00	\$233,035.31	\$167,458.14	\$0.00	\$167,458.14
3	\$3,097.30	\$0.00	\$3,097.30	\$244,687.07	\$0.00	\$244,687.07	\$179,109.91	\$0.00	\$179,109.91
4	\$3,252.17	\$0.00	\$3,252.17	\$256,921.42	\$0.00	\$256,921.42	\$191,344.26	\$0.00	\$191,344.26
5	\$3,414.78	\$0.00	\$3,414.78	\$269,767.50	\$0.00	\$269,767.50	\$204,190.33	\$0.00	\$204,190.33
6	\$3,585.52	\$0.00	\$3,585.52	\$283,255.87	\$0.00	\$283,255.87	\$217,678.71	\$0.00	\$217,678.71
7	\$3,621.37	\$0.00	\$3,621.37	\$286,088.43	\$0.00	\$286,088.43	\$220,511.26	\$0.00	\$220,511.26
8	\$3,657.59	\$0.00	\$3,657.59	\$288,949.31	\$0.00	\$288,949.31	\$223,372.15	\$0.00	\$223,372.15
9	\$3,694.16	\$0.00	\$3,694.16	\$291,838.81	\$0.00	\$291,838.81	\$226,261.64	\$0.00	\$226,261.64
10	\$3,731.10	\$0.00	\$3,731.10	\$294,757.19	\$0.00	\$294,757.19	\$229,180.03	\$0.00	\$229,180.03
11	\$3,768.41	\$0.00	\$3,768.41	\$297,704.77	\$0.00	\$297,704.77	\$232,127.60	\$0.00	\$232,127.60
12	\$3,806.10	\$0.00	\$3,806.10	\$300,681.81	\$0.00	\$300,681.81	\$235,104.65	\$0.00	\$235,104.65
13	\$3,844.16	\$0.00	\$3,844.16	\$303,688.63	\$0.00	\$303,688.63	\$238,111.47	\$0.00	\$238,111.47
14	\$3,882.60	\$0.00	\$3,882.60	\$306,725.52	\$0.00	\$306,725.52	\$241,148.35	\$0.00	\$241,148.35
15	\$3,921.43	\$0.00	\$3,921.43	\$309,792.77	\$0.00	\$309,792.77	\$244,215.61	\$0.00	\$244,215.61
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$53,035.86	\$0.00	\$53,035.86	\$4,189,832.80	\$0.00	\$4,189,832.80	\$3,206,175.34	\$0.00	\$3,206,175.34

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$6,433.76	\$13,747.10	\$153,721.50	\$0.00	\$173,902.36	\$448.26	\$448.26	\$0.06	\$0.06	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,433.76	\$13,747.10	\$153,721.50	\$0.00	\$173,902.36	\$448.26	\$448.26	\$0.06	\$0.06	\$0.00	\$0.00

Commercial Drive Power

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$92,331.45	\$32,316.01	\$42,658.63	\$611.39	\$167,917.48	\$0.00	\$0.00	\$0.00
2	\$100,835.51	\$35,292.43	\$44,043.60	\$611.39	\$180,782.92	\$0.00	\$0.00	\$0.00
3	\$146,616.57	\$51,315.80	\$45,475.13	\$611.39	\$244,018.88	\$0.00	\$0.00	\$0.00
4	\$147,802.16	\$51,730.76	\$46,953.21	\$611.39	\$247,097.51	\$0.00	\$0.00	\$0.00
5	\$159,852.28	\$55,948.30	\$48,481.72	\$611.39	\$264,893.68	\$0.00	\$0.00	\$0.00
6	\$160,915.83	\$56,320.54	\$50,056.78	\$611.39	\$267,904.54	\$0.00	\$0.00	\$0.00
7	\$186,375.10	\$65,231.28	\$51,682.28	\$611.39	\$303,900.05	\$0.00	\$0.00	\$0.00
8	\$197,654.64	\$69,179.12	\$53,362.09	\$611.39	\$320,807.23	\$0.00	\$0.00	\$0.00
9	\$213,027.01	\$74,559.45	\$55,096.21	\$611.39	\$343,294.05	\$0.00	\$0.00	\$0.00
10	\$215,561.61	\$75,446.56	\$56,888.52	\$611.39	\$348,508.08	\$0.00	\$0.00	\$0.00
11	\$222,358.69	\$77,825.54	\$58,735.15	\$611.39	\$359,530.77	\$0.00	\$0.00	\$0.00
12	\$232,229.86	\$81,280.45	\$60,643.85	\$611.39	\$374,765.54	\$0.00	\$0.00	\$0.00
13	\$239,196.75	\$83,718.86	\$62,614.62	\$611.39	\$386,141.62	\$0.00	\$0.00	\$0.00
14	\$246,372.65	\$86,230.43	\$64,651.34	\$611.39	\$397,865.81	\$0.00	\$0.00	\$0.00
15	\$253,763.83	\$88,817.34	\$66,754.01	\$611.39	\$409,946.57	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$2,814,893.94	\$985,212.88	\$808,097.14	\$9,170.79	\$4,617,374.74	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Persistence)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$92,270.67	\$32,492.68	\$42,658.63	\$611.39	\$168,033.37	\$0.00	\$0.00	\$0.00
2	\$100,769.13	\$27,539.86	\$44,043.60	\$611.39	\$172,963.98	\$0.00	\$0.00	\$0.00
3	\$146,520.05	\$28,873.53	\$45,475.13	\$611.39	\$221,480.10	\$0.00	\$0.00	\$0.00
4	\$147,704.87	\$84,417.34	\$46,953.21	\$611.39	\$279,686.80	\$0.00	\$0.00	\$0.00
5	\$159,747.06	\$84,417.34	\$48,481.72	\$611.39	\$293,257.49	\$0.00	\$0.00	\$0.00
6	\$160,809.90	\$84,417.34	\$50,056.78	\$611.39	\$295,895.41	\$0.00	\$0.00	\$0.00
7	\$186,252.41	\$84,417.34	\$51,682.28	\$611.39	\$322,963.41	\$0.00	\$0.00	\$0.00
8	\$197,524.52	\$84,417.34	\$53,362.09	\$611.39	\$335,915.33	\$0.00	\$0.00	\$0.00
9	\$212,886.77	\$84,417.34	\$55,096.21	\$611.39	\$353,011.71	\$0.00	\$0.00	\$0.00
10	\$215,419.71	\$84,417.34	\$56,888.52	\$611.39	\$357,336.95	\$0.00	\$0.00	\$0.00
11	\$222,212.31	\$84,417.34	\$58,735.15	\$611.39	\$365,976.19	\$0.00	\$0.00	\$0.00
12	\$232,076.98	\$84,417.34	\$60,643.85	\$611.39	\$377,749.56	\$0.00	\$0.00	\$0.00
13	\$239,039.29	\$84,417.34	\$62,614.62	\$611.39	\$386,682.64	\$0.00	\$0.00	\$0.00
14	\$246,210.47	\$84,417.34	\$64,651.34	\$611.39	\$395,890.54	\$0.00	\$0.00	\$0.00
15	\$253,596.79	\$84,417.34	\$66,754.01	\$611.39	\$405,379.52	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$2,813,040.94	\$1,101,914.13	\$808,097.14	\$9,170.79	\$4,732,222.99	\$4,732,222.99	\$0.00	\$0.00

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	\$2,270.67	\$2,492.68	\$2,658.63	\$11.39
0.92	\$2,874.77	\$2,382.36	\$2,593.18	\$63.49
0.85	\$24,462.23	\$24,526.77	\$28,629.09	\$19.34
0.78	\$115,639.34	\$66,091.02	\$36,760.04	\$78.66
0.72	\$115,269.37	\$60,913.38	\$34,983.16	\$41.16
0.67	\$106,945.89	\$56,141.36	\$33,290.03	\$46.60
0.61	\$114,162.50	\$51,743.19	\$31,678.40	\$74.75
0.56	\$111,586.81	\$47,689.58	\$30,145.65	\$45.39
0.52	\$110,843.64	\$43,953.53	\$28,686.91	\$18.33
0.48	\$103,375.54	\$40,510.16	\$27,299.65	\$29.39
0.44	\$98,281.27	\$37,336.56	\$25,977.70	\$70.41
0.41	\$94,603.01	\$34,411.57	\$24,720.64	\$249.22
0.38	\$89,807.47	\$31,715.74	\$23,524.42	\$229.70
0.35	\$85,255.01	\$29,231.09	\$22,386.74	\$211.70
0.32	\$80,933.33	\$26,941.10	\$21,303.99	\$195.12
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	\$1,536,310.84	\$609,080.10	\$462,638.24	\$5,508.64
	-	-	-	-



Commercial Geothermal Heat Pumps

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	11.09	8.65	11.16	11.55	14.27	30.75
TRC Test	14.05	10.97	14.17	14.66	18.13	39.12
RIM Test	0.96	0.76	0.97	1.00	1.24	2.64
RIM (Net Fuel)	1.23	0.96	1.23	1.28	1.58	3.35
Societal Test	14.05	10.97	14.17	14.66	18.13	39.12
Participant Test	12.73	12.65	12.73	12.73	12.73	12.91

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$515.95	100.00%
Total Cost / kWh Savings	\$0.0058	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$159.43	30.90%
Allocated Costs / kWh Savings	\$0.0040	69.10%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio	
\$44,482.13	\$493,121.04	\$448,638.91	11.09	Utility (PAC) Test
\$51,893.03	\$728,854.95	\$676,961.92	14.05	TRC Test
\$511,462.73	\$493,121.04	(\$18,341.70)	0.96	RIM Test
\$402,542.23	\$493,121.04	\$90,578.80		RIM (Net Fuel)
\$51,893.03	\$728,854.95	\$676,961.92	14.05	Societal Test
\$44,800.00	\$570,520.89	\$525,720.89	12.73	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$302,681.73	\$244,177.59	\$327,001.90	\$339,723.21	\$429,344.04	\$972,391.96
Avoided Electric Production Adders	\$0.00	\$85,462.16	\$114,450.66	\$118,903.12	\$150,270.41	\$340,337.18
Avoided Electric Capacity	\$135,356.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$54,066.89	\$54,066.89	\$54,066.89	\$54,066.89	\$54,066.89	\$54,066.89
Avoided Ancillary	\$1,015.48	\$1,007.85	\$1,015.48	\$1,015.48	\$1,015.48	\$1,031.21
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$493,121.04	\$384,714.49	\$496,534.93	\$513,708.70	\$634,696.82	\$1,367,827.24
Administration Costs	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29
Implementation / Participation Costs	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10
Total	\$44,482.13	\$44,482.13	\$44,482.13	\$44,482.13	\$44,482.13	\$44,482.13
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TRC Test	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$449,866.67	\$362,913.75	\$486,013.00	\$504,920.29	\$638,121.02	\$1,445,236.66
Avoided Electric Production Adders	\$0.00	\$127,019.81	\$170,104.55	\$176,722.10	\$223,342.36	\$505,832.83
Avoided Electric Capacity	\$199,817.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$77,756.75	\$77,756.75	\$77,756.75	\$77,756.75	\$77,756.75	\$77,756.75
Avoided Ancillary	\$1,414.05	\$1,403.42	\$1,414.05	\$1,414.05	\$1,414.05	\$1,435.96
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$728,854.95	\$569,093.73	\$735,288.34	\$760,813.19	\$940,634.17	\$2,030,262.19
Administration Costs	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29
Implementation / Participation Costs	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,093.03	\$7,093.03	\$7,093.03	\$7,093.03	\$7,093.03	\$7,093.03
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RIM Test	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$302,681.73	\$244,177.59	\$327,001.90	\$339,723.21	\$429,344.04	\$972,391.96
Avoided Electric Production Adders	\$0.00	\$85,462.16	\$114,450.66	\$118,903.12	\$150,270.41	\$340,337.18
Avoided Electric Capacity	\$135,356.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$54,066.89	\$54,066.89	\$54,066.89	\$54,066.89	\$54,066.89	\$54,066.89
Avoided Ancillary	\$1,015.48	\$1,007.85	\$1,015.48	\$1,015.48	\$1,015.48	\$1,031.21
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$493,121.04	\$384,714.49	\$496,534.93	\$513,708.70	\$634,696.82	\$1,367,827.24
Administration Costs	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29
Implementation / Participation Costs	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10
Total	\$44,482.13	\$44,482.13	\$44,482.13	\$44,482.13	\$44,482.13	\$44,482.13
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$466,980.60	\$463,458.31	\$466,980.60	\$466,980.60	\$466,980.60	\$473,972.51
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$466,980.60	\$463,458.31	\$466,980.60	\$466,980.60	\$466,980.60	\$473,972.51
Net Fuel Lost Revenue (Electric)	\$358,060.10	\$355,341.34	\$358,060.10	\$358,060.10	\$358,060.10	\$363,364.54
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$358,060.10	\$355,341.34	\$358,060.10	\$358,060.10	\$358,060.10	\$363,364.54
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
4	512,295	40,876	45,338	Generator
	473,156	37,753	41,874	Meter
Check:	475,933.70	Loss Factor:	7.640%	

  

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$1,748.29	\$5,344.74	\$0.00	\$37,389.10	\$44,482.13	

Commercial Geothermal Heat Pumps

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$449,866.67	\$362,913.75	\$486,013.00	\$504,920.29	\$638,121.02	\$1,445,236.66	
Avoided Electric Production Ad ders	\$0.00	\$127,019.81	\$170,104.55	\$176,722.10	\$223,342.36	\$505,832.83	
Avoided Electric Capacity	\$199,817.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$77,756.75	\$77,756.75	\$77,756.75	\$77,756.75	\$77,756.75	\$77,756.75	
Avoided Ancillary	\$1,414.05	\$1,403.42	\$1,414.05	\$1,414.05	\$1,414.05	\$1,435.96	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$728,854.95</b>	<b>\$569,093.73</b>	<b>\$735,288.34</b>	<b>\$760,813.19</b>	<b>\$940,634.17</b>	<b>\$2,030,262.19</b>	
Administration Costs	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	\$1,748.29	
Implementation / Participation Costs	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	\$5,344.74	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$7,093.03</b>	<b>\$7,093.03</b>	<b>\$7,093.03</b>	<b>\$7,093.03</b>	<b>\$7,093.03</b>	<b>\$7,093.03</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	\$37,389.10	
Participant Costs (gross)	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	\$44,800.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$533,131.79	\$529,110.54	\$533,131.79	\$533,131.79	\$533,131.79	\$541,114.15	

Commercial Geothermal Heat Pumps

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	4	0	4	0	4	4	\$44,800.00	\$0.00	\$44,800.00
2	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
3	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
4	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
5	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
6	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
7	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
8	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
9	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
10	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
11	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
12	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
13	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
14	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
15	0	0	4	0	4	4	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	4	0	60	0	60	60	\$44,800	\$0	\$44,800

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
2	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
3	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
4	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
5	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
6	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
7	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
8	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
9	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
10	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
11	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
12	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
13	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
14	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
15	10.656	10.656	10.219	10.219	11.334	11.334	128,073.76	128,073.76	43	43	41	41	45	45	512,295	512,295
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
Totals							1,921,106	1,921,106							7,684,426	7,684,426

Commercial Geothermal Heat Pumps

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$10,644.45	\$0.00	\$10,644.45	\$42,577.81	\$0.00	\$42,577.81	\$30,489.09	\$0.00	\$30,489.09
2	\$11,176.68	\$0.00	\$11,176.68	\$44,706.70	\$0.00	\$44,706.70	\$32,617.98	\$0.00	\$32,617.98
3	\$11,735.51	\$0.00	\$11,735.51	\$46,942.04	\$0.00	\$46,942.04	\$34,853.32	\$0.00	\$34,853.32
4	\$12,322.28	\$0.00	\$12,322.28	\$49,289.14	\$0.00	\$49,289.14	\$37,200.42	\$0.00	\$37,200.42
5	\$12,938.40	\$0.00	\$12,938.40	\$51,753.59	\$0.00	\$51,753.59	\$39,664.88	\$0.00	\$39,664.88
6	\$13,585.32	\$0.00	\$13,585.32	\$54,341.27	\$0.00	\$54,341.27	\$42,252.56	\$0.00	\$42,252.56
7	\$13,721.17	\$0.00	\$13,721.17	\$54,884.69	\$0.00	\$54,884.69	\$42,795.97	\$0.00	\$42,795.97
8	\$13,858.38	\$0.00	\$13,858.38	\$55,433.53	\$0.00	\$55,433.53	\$43,344.82	\$0.00	\$43,344.82
9	\$13,996.97	\$0.00	\$13,996.97	\$55,987.87	\$0.00	\$55,987.87	\$43,899.15	\$0.00	\$43,899.15
10	\$14,136.94	\$0.00	\$14,136.94	\$56,547.75	\$0.00	\$56,547.75	\$44,459.03	\$0.00	\$44,459.03
11	\$14,278.31	\$0.00	\$14,278.31	\$57,113.22	\$0.00	\$57,113.22	\$45,024.51	\$0.00	\$45,024.51
12	\$14,421.09	\$0.00	\$14,421.09	\$57,684.36	\$0.00	\$57,684.36	\$45,595.64	\$0.00	\$45,595.64
13	\$14,565.30	\$0.00	\$14,565.30	\$58,261.20	\$0.00	\$58,261.20	\$46,172.48	\$0.00	\$46,172.48
14	\$14,710.95	\$0.00	\$14,710.95	\$58,843.81	\$0.00	\$58,843.81	\$46,755.10	\$0.00	\$46,755.10
15	\$14,858.06	\$0.00	\$14,858.06	\$59,432.25	\$0.00	\$59,432.25	\$47,343.53	\$0.00	\$47,343.53
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$200,949.81	\$0.00	\$200,949.81	\$803,799.23	\$0.00	\$803,799.23	\$622,468.49	\$0.00	\$622,468.49

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$1,748.29	\$5,344.74	\$37,389.10	\$0.00	\$44,482.13	\$515.95	\$515.95	\$0.09	\$0.09	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,748.29	\$5,344.74	\$37,389.10	\$0.00	\$44,482.13	\$515.95	\$515.95	\$0.09	\$0.09	\$0.00	\$0.00

Commercial Geothermal Heat Pumps

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$19,639.70	\$6,873.90	\$4,985.36	\$112.70	\$31,611.66	\$0.00	\$0.00	\$0.00	
2	\$21,448.59	\$7,507.01	\$5,147.22	\$112.70	\$34,215.52	\$0.00	\$0.00	\$0.00	
3	\$31,186.62	\$10,915.32	\$5,314.52	\$112.70	\$47,529.15	\$0.00	\$0.00	\$0.00	
4	\$31,438.80	\$11,003.58	\$5,487.25	\$112.70	\$48,042.34	\$0.00	\$0.00	\$0.00	
5	\$34,001.97	\$11,900.69	\$5,665.89	\$112.70	\$51,681.25	\$0.00	\$0.00	\$0.00	
6	\$34,228.19	\$11,979.87	\$5,849.96	\$112.70	\$52,170.72	\$0.00	\$0.00	\$0.00	
7	\$39,643.60	\$13,875.26	\$6,039.92	\$112.70	\$59,671.49	\$0.00	\$0.00	\$0.00	
8	\$42,042.86	\$14,715.00	\$6,236.24	\$112.70	\$63,106.80	\$0.00	\$0.00	\$0.00	
9	\$45,312.69	\$15,859.44	\$6,438.90	\$112.70	\$67,723.74	\$0.00	\$0.00	\$0.00	
10	\$45,851.82	\$16,048.14	\$6,648.36	\$112.70	\$68,661.03	\$0.00	\$0.00	\$0.00	
11	\$47,297.62	\$16,554.17	\$6,864.17	\$112.70	\$70,828.66	\$0.00	\$0.00	\$0.00	
12	\$49,397.30	\$17,289.06	\$7,087.23	\$112.70	\$73,886.30	\$0.00	\$0.00	\$0.00	
13	\$50,879.22	\$17,807.73	\$7,317.55	\$112.70	\$76,117.20	\$0.00	\$0.00	\$0.00	
14	\$52,405.60	\$18,341.96	\$7,555.57	\$112.70	\$78,415.84	\$0.00	\$0.00	\$0.00	
15	\$53,977.77	\$18,892.22	\$7,801.30	\$112.70	\$80,784.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$598,752.35	\$209,563.32	\$94,439.44	\$1,690.57	\$904,445.69	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$18,179.03	\$7,220.91	\$4,985.36	\$112.70	\$30,498.01	\$0.00	\$0.00	\$0.00	
2	\$19,853.39	\$6,120.23	\$5,147.22	\$112.70	\$31,233.54	\$0.00	\$0.00	\$0.00	
3	\$28,867.17	\$6,416.62	\$5,314.52	\$112.70	\$40,711.00	\$0.00	\$0.00	\$0.00	
4	\$29,100.60	\$18,760.21	\$5,487.25	\$112.70	\$53,460.77	\$0.00	\$0.00	\$0.00	
5	\$31,473.13	\$18,760.21	\$5,665.89	\$112.70	\$56,011.94	\$0.00	\$0.00	\$0.00	
6	\$31,682.53	\$18,760.21	\$5,849.96	\$112.70	\$56,405.41	\$0.00	\$0.00	\$0.00	
7	\$36,695.18	\$18,760.21	\$6,039.92	\$112.70	\$61,608.02	\$0.00	\$0.00	\$0.00	
8	\$38,915.99	\$18,760.21	\$6,236.24	\$112.70	\$64,025.15	\$0.00	\$0.00	\$0.00	
9	\$41,942.64	\$18,760.21	\$6,438.90	\$112.70	\$67,254.46	\$0.00	\$0.00	\$0.00	
10	\$42,441.68	\$18,760.21	\$6,648.36	\$112.70	\$67,962.95	\$0.00	\$0.00	\$0.00	
11	\$43,779.95	\$18,760.21	\$6,864.17	\$112.70	\$69,517.03	\$0.00	\$0.00	\$0.00	
12	\$45,723.47	\$18,760.21	\$7,087.23	\$112.70	\$71,683.62	\$0.00	\$0.00	\$0.00	
13	\$47,095.17	\$18,760.21	\$7,317.55	\$112.70	\$73,285.64	\$0.00	\$0.00	\$0.00	
14	\$48,508.03	\$18,760.21	\$7,555.57	\$112.70	\$74,936.52	\$0.00	\$0.00	\$0.00	
15	\$49,963.27	\$18,760.21	\$7,801.30	\$112.70	\$76,637.49	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$554,221.24	\$244,880.31	\$94,439.44	\$1,690.57	\$895,231.56	\$895,231.56	\$0.00	\$0.00	

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	18,179.03	7,220.91	4,985.36	112.70
0.92	18,298.05	5,640.77	4,743.98	103.88
0.85	24,521.37	5,450.63	4,514.44	95.74
0.78	22,783.09	14,687.52	4,296.02	88.24
0.72	22,710.20	13,536.89	4,088.36	81.32
0.67	21,070.32	12,476.39	3,890.49	74.95
0.61	22,492.13	11,498.98	3,702.14	69.08
0.56	21,984.67	10,598.14	3,523.01	63.67
0.52	21,838.25	9,767.87	3,352.54	58.68
0.48	20,366.90	9,002.65	3,190.41	54.08
0.44	19,363.23	8,297.37	3,035.92	49.85
0.41	18,638.55	7,647.34	2,889.01	45.94
0.38	17,693.74	7,048.24	2,749.22	42.34
0.35	16,796.82	6,496.08	2,616.26	39.03
0.32	15,945.37	5,987.17	2,489.72	35.97
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	302,681.73	135,356.94	54,066.89	1,015.48
	-	-	-	-

Commercial Lighting

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	6.84	4.66	5.54	5.64	6.70	12.57
TRC Test	12.61	8.56	10.18	10.38	12.35	23.23
RIM Test	1.10	0.75	0.89	0.91	1.08	2.02
RIM (Net Fuel)	1.35	0.92	1.09	1.12	1.33	2.48
Societal Test	12.61	8.56	10.18	10.38	12.35	23.23
Participant Test	18.83	18.75	18.83	18.83	18.83	18.91

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$587.92	100.00%
Total Cost / kWh Savings	\$0.0137	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based /</b>	<b>0</b>	
Allocated Costs / kW Savings	\$263.82	44.87%
Allocated Costs / kWh Savings	\$0.0075	55.13%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/ Cost Ratio	
\$61,099.29	\$417,721.94	\$356,622.65	6.84	Utility (PAC) Test
\$45,249.15	\$570,734.63	\$525,485.47	12.61	TRC Test
\$379,025.41	\$417,721.94	\$38,696.53	1.10	RIM Test
\$309,015.53	\$417,721.94	\$108,706.42		RIM (Net Fuel)
\$45,249.15	\$570,734.63	\$525,485.47	12.61	Societal Test
\$20,599.00	\$387,801.31	\$367,202.31	18.83	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$171,522.30	\$131,982.14	\$171,635.29	\$176,491.53	\$224,505.83	\$489,951.58
Avoided Electric Production Adders	\$0.00	\$46,193.75	\$60,072.35	\$61,772.04	\$78,577.04	\$171,483.05
Avoided Electric Capacity	\$139,619.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$105,927.68	\$105,927.68	\$105,927.68	\$105,927.68	\$105,927.68	\$105,927.68
Avoided Ancillary	\$652.71	\$648.84	\$652.71	\$652.71	\$652.71	\$656.82
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$417,721.94</b>	<b>\$284,752.41</b>	<b>\$338,288.03</b>	<b>\$344,843.96</b>	<b>\$409,663.26</b>	<b>\$768,019.13</b>
Administration Costs	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78
Implementation / Participation Costs	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14
<b>Total</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>						
Avoided Electric Production	\$235,736.30	\$181,393.22	\$235,891.59	\$242,565.90	\$308,555.64	\$673,378.16
Avoided Electric Production Adders	\$0.00	\$63,487.63	\$82,562.06	\$84,898.06	\$107,994.47	\$235,682.36
Avoided Electric Capacity	\$192,750.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$141,394.89	\$141,394.89	\$141,394.89	\$141,394.89	\$141,394.89	\$141,394.89
Avoided Ancillary	\$853.37	\$848.31	\$853.37	\$853.37	\$853.37	\$858.74
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$570,734.63</b>	<b>\$387,124.04</b>	<b>\$460,701.90</b>	<b>\$469,712.22</b>	<b>\$558,798.37</b>	<b>\$1,051,314.15</b>
Administration Costs	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78
Implementation / Participation Costs	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$24,650.15	\$24,650.15	\$24,650.15	\$24,650.15	\$24,650.15	\$24,650.15
<b>Total</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>						
Avoided Electric Production	\$171,522.30	\$131,982.14	\$171,635.29	\$176,491.53	\$224,505.83	\$489,951.58
Avoided Electric Production Adders	\$0.00	\$46,193.75	\$60,072.35	\$61,772.04	\$78,577.04	\$171,483.05
Avoided Electric Capacity	\$139,619.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$105,927.68	\$105,927.68	\$105,927.68	\$105,927.68	\$105,927.68	\$105,927.68
Avoided Ancillary	\$652.71	\$648.84	\$652.71	\$652.71	\$652.71	\$656.82
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$417,721.94</b>	<b>\$284,752.41</b>	<b>\$338,288.03</b>	<b>\$344,843.96</b>	<b>\$409,663.26</b>	<b>\$768,019.13</b>
Administration Costs	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78
Implementation / Participation Costs	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14
<b>Total</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>	<b>\$61,099.29</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$317,926.12	\$316,457.56	\$317,926.12	\$317,926.12	\$317,926.12	\$319,495.61
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$317,926.12</b>	<b>\$316,457.56</b>	<b>\$317,926.12</b>	<b>\$317,926.12</b>	<b>\$317,926.12</b>	<b>\$319,495.61</b>
Net Fuel Lost Revenue (Electric)	\$247,916.23	\$246,862.80	\$247,916.23	\$247,916.23	\$247,916.23	\$249,044.72
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$247,916.23</b>	<b>\$246,862.80</b>	<b>\$247,916.23</b>	<b>\$247,916.23</b>	<b>\$247,916.23</b>	<b>\$249,044.72</b>
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Parts	kWh	Summer kW	Winter kW	
22	372,303	103,925	0,000	Generator
	343,859	95,985	0,000	Meter

Check: 345,877.79      Loss Factor: 7.640%

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$6,898.78	\$17,751.37	\$0.00	\$36,449.14	\$61,099.29	

Commercial Lighting

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$235,736.30	\$181,393.22	\$235,891.59	\$242,565.90	\$308,555.64	\$673,378.16	
Avoided Electric Production Adders	\$0.00	\$63,487.63	\$82,562.06	\$84,898.06	\$107,994.47	\$235,682.36	
Avoided Electric Capacity	\$192,750.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$141,394.89	\$141,394.89	\$141,394.89	\$141,394.89	\$141,394.89	\$141,394.89	
Avoided Ancillary	\$853.37	\$848.31	\$853.37	\$853.37	\$853.37	\$858.74	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$570,734.63</b>	<b>\$387,124.04</b>	<b>\$460,701.90</b>	<b>\$469,712.22</b>	<b>\$558,798.37</b>	<b>\$1,051,314.15</b>	
Administration Costs	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	\$6,898.78	
Implementation / Participation Costs	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	\$17,751.37	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	<b>\$24,650.15</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	\$36,449.14	
Participant Costs (gross)	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	\$20,599.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$351,352.17	\$349,729.21	\$351,352.17	\$351,352.17	\$351,352.17	\$353,086.68	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$351,352.17</b>	<b>\$349,729.21</b>	<b>\$351,352.17</b>	<b>\$351,352.17</b>	<b>\$351,352.17</b>	<b>\$353,086.68</b>	

Commercial Lighting

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	22	0	22	0	22	22	\$20,599.00	\$0.00	\$20,599.00
2	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
3	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
4	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
5	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
6	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
7	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
8	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
9	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
10	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
11	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
12	0	0	22	0	22	22	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	22	0	264	0	264	264	\$20,599	\$0	\$20,599

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
2	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
3	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
4	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
5	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
6	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
7	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
8	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
9	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
10	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
11	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
12	4.798	4.798	4.724	4.724	0.000	0.000	16,922.86	16,922.86	106	106	104	104	0	0	372,303	372,303
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							203,074	203,074							4,467,634	4,467,634



Commercial Lighting

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$1,516.46	\$0.00	\$1,516.46	\$33,362.03	\$0.00	\$33,362.03	\$24,576.73	\$0.00	\$24,576.73
2	\$1,592.28	\$0.00	\$1,592.28	\$35,030.13	\$0.00	\$35,030.13	\$26,244.83	\$0.00	\$26,244.83
3	\$1,671.89	\$0.00	\$1,671.89	\$36,781.63	\$0.00	\$36,781.63	\$27,996.34	\$0.00	\$27,996.34
4	\$1,755.49	\$0.00	\$1,755.49	\$38,620.71	\$0.00	\$38,620.71	\$29,835.42	\$0.00	\$29,835.42
5	\$1,843.26	\$0.00	\$1,843.26	\$40,551.75	\$0.00	\$40,551.75	\$31,766.45	\$0.00	\$31,766.45
6	\$1,935.42	\$0.00	\$1,935.42	\$42,579.34	\$0.00	\$42,579.34	\$33,794.04	\$0.00	\$33,794.04
7	\$1,954.78	\$0.00	\$1,954.78	\$43,005.13	\$0.00	\$43,005.13	\$34,219.84	\$0.00	\$34,219.84
8	\$1,974.33	\$0.00	\$1,974.33	\$43,435.18	\$0.00	\$43,435.18	\$34,649.89	\$0.00	\$34,649.89
9	\$1,994.07	\$0.00	\$1,994.07	\$43,869.53	\$0.00	\$43,869.53	\$35,084.24	\$0.00	\$35,084.24
10	\$2,014.01	\$0.00	\$2,014.01	\$44,308.23	\$0.00	\$44,308.23	\$35,522.93	\$0.00	\$35,522.93
11	\$2,034.15	\$0.00	\$2,034.15	\$44,751.31	\$0.00	\$44,751.31	\$35,966.02	\$0.00	\$35,966.02
12	\$2,054.49	\$0.00	\$2,054.49	\$45,198.83	\$0.00	\$45,198.83	\$36,413.53	\$0.00	\$36,413.53
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$22,340.63	\$0.00	\$22,340.63	\$491,493.81	\$0.00	\$491,493.81	\$386,070.26	\$0.00	\$386,070.26

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$6,898.78	\$17,751.37	\$36,449.14	\$0.00	\$61,099.29	\$587.92	\$587.92	\$0.16	\$0.16	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,898.78	\$17,751.37	\$36,449.14	\$0.00	\$61,099.29	\$587.92	\$587.92	\$0.16	\$0.16	\$0.00	\$0.00

Commercial Lighting

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adverse	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$12,369.54	\$4,329.34	\$11,427.58	\$81.91	\$28,208.36	\$0.00	\$0.00	\$0.00	
2	\$13,508.81	\$4,728.09	\$11,798.59	\$81.91	\$30,117.40	\$0.00	\$0.00	\$0.00	
3	\$19,642.05	\$6,874.72	\$12,182.08	\$81.91	\$38,780.75	\$0.00	\$0.00	\$0.00	
4	\$19,800.88	\$6,930.31	\$12,578.03	\$81.91	\$39,391.13	\$0.00	\$0.00	\$0.00	
5	\$21,415.22	\$7,495.33	\$12,987.50	\$81.91	\$41,979.95	\$0.00	\$0.00	\$0.00	
6	\$21,557.71	\$7,545.20	\$13,409.43	\$81.91	\$42,594.24	\$0.00	\$0.00	\$0.00	
7	\$24,968.45	\$8,738.96	\$13,844.88	\$81.91	\$47,634.19	\$0.00	\$0.00	\$0.00	
8	\$26,479.56	\$9,267.85	\$14,294.87	\$81.91	\$50,124.18	\$0.00	\$0.00	\$0.00	
9	\$28,538.98	\$9,988.64	\$14,759.41	\$81.91	\$53,368.94	\$0.00	\$0.00	\$0.00	
10	\$28,878.54	\$10,107.49	\$15,239.55	\$81.91	\$54,307.48	\$0.00	\$0.00	\$0.00	
11	\$29,789.13	\$10,426.20	\$15,734.23	\$81.91	\$56,031.47	\$0.00	\$0.00	\$0.00	
12	\$31,111.56	\$10,889.05	\$16,245.54	\$81.91	\$58,328.06	\$0.00	\$0.00	\$0.00	
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$278,060.43	\$97,321.15	\$164,501.69	\$982.88	\$540,866.16	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$12,361.39	\$8,704.28	\$11,427.58	\$81.91	\$32,575.17	\$0.00	\$0.00	\$0.00	
2	\$13,499.92	\$7,377.50	\$11,798.59	\$81.91	\$32,757.92	\$0.00	\$0.00	\$0.00	
3	\$19,629.12	\$7,734.77	\$12,182.08	\$81.91	\$39,627.87	\$0.00	\$0.00	\$0.00	
4	\$19,787.85	\$22,614.09	\$12,578.03	\$81.91	\$55,061.87	\$0.00	\$0.00	\$0.00	
5	\$21,401.13	\$22,614.09	\$12,987.50	\$81.91	\$57,084.62	\$0.00	\$0.00	\$0.00	
6	\$21,543.51	\$22,614.09	\$13,409.43	\$81.91	\$57,648.94	\$0.00	\$0.00	\$0.00	
7	\$24,952.02	\$22,614.09	\$13,844.88	\$81.91	\$61,492.89	\$0.00	\$0.00	\$0.00	
8	\$26,462.13	\$22,614.09	\$14,294.87	\$81.91	\$63,452.99	\$0.00	\$0.00	\$0.00	
9	\$28,520.19	\$22,614.09	\$14,759.41	\$81.91	\$65,975.60	\$0.00	\$0.00	\$0.00	
10	\$28,859.53	\$22,614.09	\$15,239.55	\$81.91	\$66,795.07	\$0.00	\$0.00	\$0.00	
11	\$29,769.52	\$22,614.09	\$15,734.23	\$81.91	\$68,199.75	\$0.00	\$0.00	\$0.00	
12	\$31,091.08	\$22,614.09	\$16,245.54	\$81.91	\$70,032.62	\$0.00	\$0.00	\$0.00	
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$277,877.39	\$227,343.34	\$164,501.69	\$982.88	\$670,705.30	\$670,705.30	\$0.00	\$0.00	

Cost Based NPV				
	Energy	Capacity	T&D	Ancillary
1.00	12,361.39	8,704.28	11,427.58	81.91
0.92	12,442.32	6,799.54	10,874.28	75.49
0.85	16,674.06	6,570.34	10,348.13	69.58
0.78	15,492.07	17,704.75	9,847.44	64.13
0.72	15,442.50	16,317.74	9,371.44	59.10
0.67	14,327.42	15,039.40	8,917.88	54.47
0.61	15,294.22	13,861.19	8,486.15	50.20
0.56	14,949.15	12,775.29	8,075.55	46.27
0.52	14,849.59	11,774.46	7,684.78	42.65
0.48	13,849.10	10,852.04	7,313.15	39.31
0.44	13,166.63	10,001.88	6,959.02	36.23
0.41	12,673.85	9,218.32	6,622.27	33.39
0.38	-	-	-	-
0.35	-	-	-	-
0.32	-	-	-	-
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	171,522.30	139,619.25	105,927.68	652.71
	-	-	-	-

Commercial All Programs

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	12.65	9.71	11.98	12.27	14.96	30.08
TRC Test	9.80	7.53	9.31	9.54	11.64	23.50
RIM Test	1.03	0.80	0.98	1.00	1.22	2.44
RIM (Net Fuel)	1.32	1.02	1.25	1.28	1.56	3.13
Societal Test	9.80	7.53	9.31	9.54	11.64	23.50
Participant Test	7.97	7.93	7.97	7.97	7.97	8.02

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$460.13	100.00%
Total Cost / kWh Savings	\$0.0053	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$146.35	31.81%
Allocated Costs / kWh Savings	\$0.0036	68.19%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/ Cost Ratio	
\$299,695.07	\$3,790,000.15	\$3,490,305.08	12.65	Utility (PAC) Test
\$562,889.33	\$5,517,957.61	\$4,955,068.29	9.80	TRC Test
\$3,671,075.11	\$3,790,000.15	\$118,925.04	1.03	RIM Test
\$2,864,654.85	\$3,790,000.15	\$925,345.30		RIM (Net Fuel)
\$562,889.33	\$5,517,957.61	\$4,955,068.29	9.80	Societal Test
\$499,474.00	\$3,980,997.10	\$3,481,523.10	7.97	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$2,106,436.54	\$1,635,694.05	\$2,139,588.90	\$2,204,694.88	\$2,800,791.41	\$6,158,955.43
Avoided Electric Production Adders	\$0.00	\$572,492.92	\$748,856.11	\$771,643.21	\$980,276.99	\$2,155,634.40
Avoided Electric Capacity	\$982,449.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$693,596.06	\$693,596.06	\$693,596.06	\$693,596.06	\$693,596.06	\$693,596.06
Avoided Ancillary	\$7,518.38	\$7,471.64	\$7,518.38	\$7,518.38	\$7,518.38	\$7,578.21
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$3,790,000.15</b>	<b>\$2,909,254.66</b>	<b>\$3,589,559.44</b>	<b>\$3,677,452.52</b>	<b>\$4,482,182.83</b>	<b>\$9,015,764.11</b>
Administration Costs	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15
Implementation / Participation Costs	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74
<b>Total</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$3,100,807.68	\$2,407,656.18	\$3,149,206.00	\$3,244,976.58	\$4,122,386.40	\$9,064,566.06
Avoided Electric Production Adders	\$0.00	\$842,679.66	\$1,102,222.10	\$1,135,741.80	\$1,442,835.24	\$3,172,598.12
Avoided Electric Capacity	\$1,427,543.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$979,222.19	\$979,222.19	\$979,222.19	\$979,222.19	\$979,222.19	\$979,222.19
Avoided Ancillary	\$10,384.68	\$10,320.16	\$10,384.68	\$10,384.68	\$10,384.68	\$10,467.21
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$5,517,957.61</b>	<b>\$4,239,878.19</b>	<b>\$5,241,034.98</b>	<b>\$5,370,325.26</b>	<b>\$6,554,828.53</b>	<b>\$13,226,853.58</b>
Administration Costs	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15
Implementation / Participation Costs	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$2,106,436.54	\$1,635,694.05	\$2,139,588.90	\$2,204,694.88	\$2,800,791.41	\$6,158,955.43
Avoided Electric Production Adders	\$0.00	\$572,492.92	\$748,856.11	\$771,643.21	\$980,276.99	\$2,155,634.40
Avoided Electric Capacity	\$982,449.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$693,596.06	\$693,596.06	\$693,596.06	\$693,596.06	\$693,596.06	\$693,596.06
Avoided Ancillary	\$7,518.38	\$7,471.64	\$7,518.38	\$7,518.38	\$7,518.38	\$7,578.21
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$3,790,000.15</b>	<b>\$2,909,254.66</b>	<b>\$3,589,559.44</b>	<b>\$3,677,452.52</b>	<b>\$4,482,182.83</b>	<b>\$9,015,764.11</b>
Administration Costs	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15
Implementation / Participation Costs	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74
<b>Total</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>	<b>\$299,695.07</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$3,371,380.04	\$3,352,609.13	\$3,371,380.04	\$3,371,380.04	\$3,371,380.04	\$3,395,734.97
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$3,371,380.04</b>	<b>\$3,352,609.13</b>	<b>\$3,371,380.04</b>	<b>\$3,371,380.04</b>	<b>\$3,371,380.04</b>	<b>\$3,395,734.97</b>
Net Fuel Lost Revenue (Electric)	\$2,564,959.78	\$2,551,181.28	\$2,564,959.78	\$2,564,959.78	\$2,564,959.78	\$2,582,896.74
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,564,959.78</b>	<b>\$2,551,181.28</b>	<b>\$2,564,959.78</b>	<b>\$2,564,959.78</b>	<b>\$2,564,959.78</b>	<b>\$2,582,896.74</b>
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

Parts	kWh	Summer kW	Winter kW	
120	3,858,435	536.365	114.960	Generator
	3,563,650	495.386	106.177	Meter
Check:	3,584,573.21	Loss Factor:	7.640%	

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$17,943.15	\$45,472.18	\$0.00	\$236,279.74	\$299,695.07	

Commercial All Programs

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$3,100,807.68	\$2,407,656.18	\$3,149,206.00	\$3,244,976.58	\$4,122,386.40	\$9,064,566.06	
Avoided Electric Production Adders	\$0.00	\$842,679.66	\$1,102,222.10	\$1,135,741.80	\$1,442,835.24	\$3,172,598.12	
Avoided Electric Capacity	\$1,427,543.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$979,222.19	\$979,222.19	\$979,222.19	\$979,222.19	\$979,222.19	\$979,222.19	
Avoided Ancillary	\$10,384.68	\$10,320.16	\$10,384.68	\$10,384.68	\$10,384.68	\$10,467.21	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$5,517,957.61</b>	<b>\$4,239,878.19</b>	<b>\$5,241,034.98</b>	<b>\$5,370,325.26</b>	<b>\$6,554,828.53</b>	<b>\$13,226,853.58</b>	
Administration Costs	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	\$17,943.15	
Implementation / Participation Costs	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	\$45,472.18	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	<b>\$63,415.33</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	\$236,279.74	
Participant Costs (gross)	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	\$499,474.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$3,744,717.36	\$3,723,823.27	\$3,744,717.36	\$3,744,717.36	\$3,744,717.36	\$3,771,943.62	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$3,744,717.36</b>	<b>\$3,723,823.27</b>	<b>\$3,744,717.36</b>	<b>\$3,744,717.36</b>	<b>\$3,744,717.36</b>	<b>\$3,771,943.62</b>	

Commercial All Programs

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	120	0	120	0	120	120	\$499,474.00	\$0.00	\$499,474.00
2	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
3	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
4	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
5	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
6	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
7	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
8	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
9	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
10	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
11	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
12	0	0	119	0	119	119	\$0.00	\$0.00	\$0.00
13	0	0	83	0	83	83	\$0.00	\$0.00	\$0.00
14	0	0	83	0	83	83	\$0.00	\$0.00	\$0.00
15	0	0	83	0	83	83	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	120	0	1,678	0	1,678	1,678	\$499,474	\$0	\$499,474

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	4.566	4.566	4.470	4.470	0.958	0.958	32,153.62	32,153.62	548	548	536	536	115	115	3,858,435	3,858,435
2	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
3	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
4	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
5	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
6	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
7	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
8	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
9	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
10	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
11	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
12	4.604	4.604	4.507	4.507	0.966	0.966	32,423.82	32,423.82	548	548	536	536	115	115	3,858,435	3,858,435
13	5.261	5.261	5.167	5.167	0.546	0.546	39,654.47	39,654.47	437	437	429	429	45	45	3,291,321	3,291,321
14	5.261	5.261	5.167	5.167	0.546	0.546	39,654.47	39,654.47	437	437	429	429	45	45	3,291,321	3,291,321
15	5.261	5.261	5.167	5.167	0.546	0.546	39,654.47	39,654.47	437	437	429	429	45	45	3,291,321	3,291,321
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0
Totals							507,779	507,779							56,175,178	56,175,178

Commercial All Programs

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Total
1	\$2,615.52	\$0.00	\$2,615.52	\$313,862.12	\$0.00	\$313,862.12	\$222,813.97	\$0.00	\$222,813.97
2	\$2,769.37	\$0.00	\$2,769.37	\$329,555.23	\$0.00	\$329,555.23	\$238,507.07	\$0.00	\$238,507.07
3	\$2,907.84	\$0.00	\$2,907.84	\$346,032.99	\$0.00	\$346,032.99	\$254,984.83	\$0.00	\$254,984.83
4	\$3,053.23	\$0.00	\$3,053.23	\$363,334.64	\$0.00	\$363,334.64	\$272,286.48	\$0.00	\$272,286.48
5	\$3,205.89	\$0.00	\$3,205.89	\$381,501.37	\$0.00	\$381,501.37	\$290,453.21	\$0.00	\$290,453.21
6	\$3,366.19	\$0.00	\$3,366.19	\$400,576.44	\$0.00	\$400,576.44	\$309,528.28	\$0.00	\$309,528.28
7	\$3,399.85	\$0.00	\$3,399.85	\$404,582.21	\$0.00	\$404,582.21	\$313,534.05	\$0.00	\$313,534.05
8	\$3,433.85	\$0.00	\$3,433.85	\$408,628.03	\$0.00	\$408,628.03	\$317,579.87	\$0.00	\$317,579.87
9	\$3,468.19	\$0.00	\$3,468.19	\$412,714.31	\$0.00	\$412,714.31	\$321,666.15	\$0.00	\$321,666.15
10	\$3,502.87	\$0.00	\$3,502.87	\$416,841.45	\$0.00	\$416,841.45	\$325,793.29	\$0.00	\$325,793.29
11	\$3,537.90	\$0.00	\$3,537.90	\$421,009.87	\$0.00	\$421,009.87	\$329,961.71	\$0.00	\$329,961.71
12	\$3,573.28	\$0.00	\$3,573.28	\$425,219.97	\$0.00	\$425,219.97	\$334,171.81	\$0.00	\$334,171.81
13	\$4,360.84	\$0.00	\$4,360.84	\$361,949.83	\$0.00	\$361,949.83	\$284,283.95	\$0.00	\$284,283.95
14	\$4,404.45	\$0.00	\$4,404.45	\$365,569.33	\$0.00	\$365,569.33	\$287,903.45	\$0.00	\$287,903.45
15	\$4,448.49	\$0.00	\$4,448.49	\$369,225.02	\$0.00	\$369,225.02	\$291,559.14	\$0.00	\$291,559.14
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$52,047.76	\$0.00	\$52,047.76	\$5,720,602.83	\$0.00	\$5,720,602.83	\$4,395,027.27	\$0.00	\$4,395,027.27

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$17,943.15	\$45,472.18	\$236,279.74	\$0.00	\$299,695.07	\$460.13	\$460.13	\$0.08	\$0.08	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$17,943.15	\$45,472.18	\$236,279.74	\$0.00	\$299,695.07	\$460.13	\$460.13	\$0.08	\$0.08	\$0.00	\$0.00

Commercial All Programs

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$131,809.09	\$46,133.18	\$66,727.17	\$848.86	\$245,518.29	\$0.00	\$0.00	\$0.00	
2	\$143,949.17	\$50,382.21	\$68,893.55	\$848.86	\$264,073.79	\$0.00	\$0.00	\$0.00	
3	\$209,304.58	\$73,256.60	\$71,132.76	\$848.86	\$354,542.81	\$0.00	\$0.00	\$0.00	
4	\$210,997.10	\$73,848.99	\$73,444.79	\$848.86	\$359,139.73	\$0.00	\$0.00	\$0.00	
5	\$228,199.42	\$79,869.80	\$75,835.70	\$848.86	\$384,753.78	\$0.00	\$0.00	\$0.00	
6	\$229,717.71	\$80,401.20	\$78,299.44	\$848.86	\$389,267.20	\$0.00	\$0.00	\$0.00	
7	\$266,062.45	\$93,121.86	\$80,842.06	\$848.86	\$440,875.22	\$0.00	\$0.00	\$0.00	
8	\$282,164.71	\$98,757.65	\$83,469.64	\$848.86	\$465,240.86	\$0.00	\$0.00	\$0.00	
9	\$304,109.76	\$106,438.42	\$86,182.18	\$848.86	\$497,579.21	\$0.00	\$0.00	\$0.00	
10	\$307,728.06	\$107,704.82	\$88,985.74	\$848.86	\$505,267.48	\$0.00	\$0.00	\$0.00	
11	\$317,431.34	\$111,100.97	\$91,874.25	\$848.86	\$521,255.41	\$0.00	\$0.00	\$0.00	
12	\$331,523.07	\$116,033.07	\$94,859.86	\$848.86	\$543,264.86	\$0.00	\$0.00	\$0.00	
13	\$290,075.98	\$101,526.59	\$69,932.17	\$724.09	\$462,258.82	\$0.00	\$0.00	\$0.00	
14	\$298,778.25	\$104,572.39	\$72,206.91	\$724.09	\$476,281.65	\$0.00	\$0.00	\$0.00	
15	\$307,741.60	\$107,709.56	\$74,555.32	\$724.09	\$490,730.57	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$3,859,592.30	\$1,350,857.30	\$1,177,241.53	\$12,358.54	\$6,400,049.67	\$0.00	\$0.00	\$0.00	

Cost-Based Avoided Costs (Net Free Riders/Persistence)									
Year	Cumulative Electric					Cumulative Gas			
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total	
1	\$129,724.05	\$54,551.98	\$66,727.17	\$848.86	\$251,852.05	\$0.00	\$0.00	\$0.00	
2	\$141,672.10	\$46,236.69	\$68,893.55	\$848.86	\$257,651.19	\$0.00	\$0.00	\$0.00	
3	\$205,993.67	\$48,475.78	\$71,132.76	\$848.86	\$326,451.07	\$0.00	\$0.00	\$0.00	
4	\$207,659.42	\$141,728.30	\$73,444.79	\$848.86	\$423,681.36	\$0.00	\$0.00	\$0.00	
5	\$224,589.62	\$141,728.30	\$75,835.70	\$848.86	\$443,002.48	\$0.00	\$0.00	\$0.00	
6	\$226,083.89	\$141,728.30	\$78,299.44	\$848.86	\$446,960.49	\$0.00	\$0.00	\$0.00	
7	\$261,853.71	\$141,728.30	\$80,842.06	\$848.86	\$485,272.93	\$0.00	\$0.00	\$0.00	
8	\$277,701.26	\$141,728.30	\$83,469.64	\$848.86	\$503,748.06	\$0.00	\$0.00	\$0.00	
9	\$299,299.16	\$141,728.30	\$86,182.18	\$848.86	\$528,058.50	\$0.00	\$0.00	\$0.00	
10	\$302,860.23	\$141,728.30	\$88,985.74	\$848.86	\$534,423.12	\$0.00	\$0.00	\$0.00	
11	\$312,410.01	\$141,728.30	\$91,874.25	\$848.86	\$546,861.42	\$0.00	\$0.00	\$0.00	
12	\$326,278.83	\$141,728.30	\$94,859.86	\$848.86	\$563,715.85	\$0.00	\$0.00	\$0.00	
13	\$286,134.47	\$103,177.55	\$69,932.17	\$724.09	\$459,968.28	\$0.00	\$0.00	\$0.00	
14	\$294,718.50	\$103,177.55	\$72,206.91	\$724.09	\$470,827.06	\$0.00	\$0.00	\$0.00	
15	\$303,560.06	\$103,177.55	\$74,555.32	\$724.09	\$482,017.01	\$0.00	\$0.00	\$0.00	
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$3,800,538.97	\$1,734,351.83	\$1,177,241.53	\$12,358.54	\$6,724,490.86	\$6,724,490.86	\$0.00	\$0.00	

Cost Based NPV				
	Energy	Capacity	T&D	Ancillary
1.00	129,724.05	54,551.98	66,727.17	848.86
0.92	130,573.36	42,614.46	63,496.36	782.36
0.85	174,982.42	41,178.01	60,424.10	721.06
0.78	162,578.24	110,960.24	57,500.52	664.58
0.72	162,058.10	102,267.50	54,721.09	612.51
0.67	150,356.06	94,255.76	52,072.68	564.53
0.61	160,501.94	86,871.67	49,551.74	520.30
0.56	156,880.76	80,066.05	47,154.20	479.54
0.52	155,835.93	73,793.60	44,872.43	441.97
0.48	145,336.47	68,012.53	42,702.45	407.35
0.44	138,174.39	62,684.36	40,634.64	375.44
0.41	133,003.10	57,773.60	38,668.33	346.02
0.38	107,501.20	38,763.98	26,273.63	272.04
0.35	102,051.83	35,727.17	25,003.00	250.73
0.32	96,878.70	32,928.27	23,793.72	231.09
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	2,106,436.54	982,449.17	693,596.06	7,518.38
	-	-	-	-

All Programs

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	11.69	8.76	10.77	11.02	13.38	26.74
TRC Test	8.74	6.55	8.07	8.26	10.04	20.14
RIM Test	1.07	0.81	0.99	1.01	1.22	2.43
RIM (Net Fuel)	1.36	1.03	1.26	1.29	1.56	3.10
Societal Test	8.74	6.55	8.07	8.26	10.04	20.14
Participant Test	7.22	7.17	7.22	7.22	7.22	7.28

Cost of Conserved kWh, kW, and CCF		
100% Allocation	\$ / Savings	% Allocation
Total Costs / kW Savings	\$461.87	100.00%
Total Cost / kWh Savings	\$0.0061	100.00%
Total Costs / CCF Savings	\$0.00	100.00%
<b>Allocated By Cost-Based / 0</b>		
Allocated Costs / kW Savings	\$159.36	34.50%
Allocated Costs / kWh Savings	\$0.0040	65.50%
Allocated Costs / CCF Savings	\$0.00	0.00%

NET BENEFITS				
Total Costs	Total Benefits	Net Benefits	Benefit/Cost Ratio	
\$371,902.34	\$4,347,294.22	\$3,975,391.88	11.69	Utility (PAC) Test
\$721,264.73	\$6,302,899.11	\$5,581,634.38	8.74	TRC Test
\$4,064,028.66	\$4,347,294.22	\$283,265.56	1.07	RIM Test
\$3,185,285.36	\$4,347,294.22	\$1,162,008.86		RIM (Net Fuel)
\$721,264.73	\$6,302,899.11	\$5,581,634.38	8.74	Societal Test
\$604,630.00	\$4,364,666.17	\$3,760,036.17	7.22	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
<b>Utility (PAC) Test</b>						
Avoided Electric Production	\$2,287,956.87	\$1,780,278.85	\$2,333,750.17	\$2,404,562.79	\$3,052,252.52	\$6,734,107.26
Avoided Electric Production Adders	\$0.00	\$623,097.60	\$816,812.56	\$841,596.98	\$1,068,288.38	\$2,356,937.54
Avoided Electric Capacity	\$1,205,282.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$845,862.55	\$845,862.55	\$845,862.55	\$845,862.55	\$845,862.55	\$845,862.55
Avoided Ancillary	\$8,192.66	\$8,133.71	\$8,192.66	\$8,192.66	\$8,192.66	\$8,269.93
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$4,347,294.22</b>	<b>\$3,257,372.70</b>	<b>\$4,004,617.93</b>	<b>\$4,100,214.97</b>	<b>\$4,974,596.11</b>	<b>\$9,945,177.27</b>
Administration Costs	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52
Implementation / Participation Costs	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61
<b>Total</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TRC Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$3,355,333.64	\$2,610,392.27	\$3,421,472.35	\$3,525,248.64	\$4,475,004.03	\$9,871,159.99
Avoided Electric Production Adders	\$0.00	\$913,637.30	\$1,197,515.32	\$1,233,837.03	\$1,566,251.41	\$3,454,906.00
Avoided Electric Capacity	\$1,746,117.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32
Avoided Ancillary	\$11,278.25	\$11,197.53	\$11,278.25	\$11,278.25	\$11,278.25	\$11,383.88
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$6,302,899.11</b>	<b>\$4,725,396.41</b>	<b>\$5,820,435.24</b>	<b>\$5,960,533.24</b>	<b>\$7,242,703.01</b>	<b>\$14,527,619.19</b>
Administration Costs	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52
Implementation / Participation Costs	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Costs (net)	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00
Participant Tax Credits (net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>RIM Test</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
Avoided Electric Production	\$2,287,956.87	\$1,780,278.85	\$2,333,750.17	\$2,404,562.79	\$3,052,252.52	\$6,734,107.26
Avoided Electric Production Adders	\$0.00	\$623,097.60	\$816,812.56	\$841,596.98	\$1,068,288.38	\$2,356,937.54
Avoided Electric Capacity	\$1,205,282.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided T&D Electric	\$845,862.55	\$845,862.55	\$845,862.55	\$845,862.55	\$845,862.55	\$845,862.55
Avoided Ancillary	\$8,192.66	\$8,133.71	\$8,192.66	\$8,192.66	\$8,192.66	\$8,269.93
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$4,347,294.22</b>	<b>\$3,257,372.70</b>	<b>\$4,004,617.93</b>	<b>\$4,100,214.97</b>	<b>\$4,974,596.11</b>	<b>\$9,945,177.27</b>
Administration Costs	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52
Implementation / Participation Costs	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61
<b>Total</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>	<b>\$371,902.34</b>
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue (Electric)	\$3,692,126.32	\$3,667,524.37	\$3,692,126.32	\$3,692,126.32	\$3,692,126.32	\$3,724,811.26
Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$3,692,126.32</b>	<b>\$3,667,524.37</b>	<b>\$3,692,126.32</b>	<b>\$3,692,126.32</b>	<b>\$3,692,126.32</b>	<b>\$3,724,811.26</b>
Net Fuel Lost Revenue (Electric)	\$2,813,383.02	\$2,795,083.63	\$2,813,383.02	\$2,813,383.02	\$2,813,383.02	\$2,837,779.97
Net Fuel Lost Revenue (Gas)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,813,383.02</b>	<b>\$2,795,083.63</b>	<b>\$2,813,383.02</b>	<b>\$2,813,383.02</b>	<b>\$2,813,383.02</b>	<b>\$2,837,779.97</b>
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

Parts	kWh	Summer kW	Winter kW	
823	4,239,371	575,481	229,725	Generator
	3,915,483	531,515	212,174	Meter
Check:	3,938,471.76	Loss Factor:	7.640%	

Administration					
Costs	Implement. Costs	Other/Misc. Costs	Incentives	Total Costs	
\$46,179.52	\$70,455.21	\$0.00	\$255,267.61	\$371,902.34	



All Programs

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					
		Minimum	Today	Alternate	Option	Maximum	
<b>Societal Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production	\$3,355,333.64	\$2,610,392.27	\$3,421,472.35	\$3,525,248.64	\$4,475,004.03	\$9,871,159.99	
Avoided Electric Production Adders	\$0.00	\$913,637.30	\$1,197,515.32	\$1,233,837.03	\$1,566,251.41	\$3,454,906.00	
Avoided Electric Capacity	\$1,746,117.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided T&D Electric	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	\$1,190,169.32	
Avoided Ancillary	\$11,278.25	\$11,197.53	\$11,278.25	\$11,278.25	\$11,278.25	\$11,383.88	
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$6,302,899.11</b>	<b>\$4,725,396.41</b>	<b>\$5,820,435.24</b>	<b>\$5,960,533.24</b>	<b>\$7,242,703.01</b>	<b>\$14,527,619.19</b>	
Administration Costs	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	\$46,179.52	
Implementation / Participation Costs	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	\$70,455.21	
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	<b>\$116,634.73</b>	
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Costs (net)	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Participant Test</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Incentives	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	\$255,267.61	
Participant Costs (gross)	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	\$604,630.00	
Participant Tax Credits (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Participant Bill Savings (Electric) (gross)	\$4,109,398.56	\$4,081,877.30	\$4,109,398.56	\$4,109,398.56	\$4,109,398.56	\$4,146,093.61	
Participant Bill Savings (Gas) (gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>Total</b>	<b>\$4,109,398.56</b>	<b>\$4,081,877.30</b>	<b>\$4,109,398.56</b>	<b>\$4,109,398.56</b>	<b>\$4,109,398.56</b>	<b>\$4,146,093.61</b>	

All Programs

Participation and Total Participant Costs									
Year	Participation						Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/persist)	One-Time Investment	Annual Investment	Total Costs
1	823	0	823	0	823	823	\$604,630.00	\$0.00	\$604,630.00
2	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
3	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
4	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
5	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
6	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
7	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
8	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
9	0	0	822	0	822	822	\$0.00	\$0.00	\$0.00
10	0	0	224	0	224	224	\$0.00	\$0.00	\$0.00
11	0	0	224	0	224	224	\$0.00	\$0.00	\$0.00
12	0	0	224	0	224	224	\$0.00	\$0.00	\$0.00
13	0	0	118	0	118	118	\$0.00	\$0.00	\$0.00
14	0	0	118	0	118	118	\$0.00	\$0.00	\$0.00
15	0	0	118	0	118	118	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Totals	823	0	8,425	0	8,425	8,425	\$604,630	\$0	\$604,630

Impacts and Savings																
Year	Per Participant								Electric Impacts/Savings Cumulative							
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)
1	0.731	0.731	0.699	0.699	0.279	0.279	5,151.12	5,151.12	602	602	575	575	230	230	4,239,371	4,239,371
2	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
3	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
4	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
5	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
6	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
7	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
8	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
9	0.732	0.732	0.700	0.700	0.279	0.279	5,157.39	5,157.39	602	602	575	575	230	230	4,239,371	4,239,371
10	2.546	2.546	2.556	2.556	1.026	1.026	18,569.72	18,569.72	570	570	572	572	230	230	4,159,618	4,159,618
11	2.546	2.546	2.556	2.556	1.026	1.026	18,569.72	18,569.72	570	570	572	572	230	230	4,159,618	4,159,618
12	2.546	2.546	2.556	2.556	1.026	1.026	18,569.72	18,569.72	570	570	572	572	230	230	4,159,618	4,159,618
13	3.793	3.793	3.897	3.897	0.756	0.756	28,993.74	28,993.74	448	448	460	460	89	89	3,421,261	3,421,261
14	3.793	3.793	3.897	3.897	0.756	0.756	28,993.74	28,993.74	448	448	460	460	89	89	3,421,261	3,421,261
15	3.793	3.793	3.897	3.897	0.756	0.756	28,993.74	28,993.74	448	448	460	460	89	89	3,421,261	3,421,261
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							189,101	189,101							60,896,975	60,896,975

All Programs

Lost Revenue Dollars									
Year	Per Participant			Cumulative			Cumulative (Net Fuel)		
	Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist	Net Fuel	Net Fuel	Net Fuel
				Electric	Gas	Total	Net Free/Persist	Net Free/Persist	Net Free/Persist
1	\$421.76	\$0.00	\$421.76	\$347,107.63	\$0.00	\$347,107.63	\$247,070.45	\$0.00	\$247,070.45
2	\$443.39	\$0.00	\$443.39	\$364,463.01	\$0.00	\$364,463.01	\$264,425.83	\$0.00	\$264,425.83
3	\$465.55	\$0.00	\$465.55	\$382,686.16	\$0.00	\$382,686.16	\$282,648.98	\$0.00	\$282,648.98
4	\$488.83	\$0.00	\$488.83	\$401,820.47	\$0.00	\$401,820.47	\$301,783.29	\$0.00	\$301,783.29
5	\$513.27	\$0.00	\$513.27	\$421,911.49	\$0.00	\$421,911.49	\$321,874.31	\$0.00	\$321,874.31
6	\$538.94	\$0.00	\$538.94	\$443,007.07	\$0.00	\$443,007.07	\$342,969.89	\$0.00	\$342,969.89
7	\$544.33	\$0.00	\$544.33	\$447,437.14	\$0.00	\$447,437.14	\$347,399.96	\$0.00	\$347,399.96
8	\$549.77	\$0.00	\$549.77	\$451,911.51	\$0.00	\$451,911.51	\$351,874.33	\$0.00	\$351,874.33
9	\$555.27	\$0.00	\$555.27	\$456,430.63	\$0.00	\$456,430.63	\$356,393.44	\$0.00	\$356,393.44
10	\$2,016.77	\$0.00	\$2,016.77	\$451,757.51	\$0.00	\$451,757.51	\$353,602.27	\$0.00	\$353,602.27
11	\$2,036.94	\$0.00	\$2,036.94	\$456,275.08	\$0.00	\$456,275.08	\$358,119.85	\$0.00	\$358,119.85
12	\$2,057.31	\$0.00	\$2,057.31	\$460,837.83	\$0.00	\$460,837.83	\$362,682.60	\$0.00	\$362,682.60
13	\$3,199.06	\$0.00	\$3,199.06	\$377,488.55	\$0.00	\$377,488.55	\$296,756.45	\$0.00	\$296,756.45
14	\$3,231.05	\$0.00	\$3,231.05	\$381,263.43	\$0.00	\$381,263.43	\$300,531.34	\$0.00	\$300,531.34
15	\$3,263.36	\$0.00	\$3,263.36	\$385,076.07	\$0.00	\$385,076.07	\$304,343.97	\$0.00	\$304,343.97
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$20,325.60	\$0.00	\$20,325.60	\$6,229,473.58	\$0.00	\$6,229,473.58	\$4,792,476.96	\$0.00	\$4,792,476.96

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$46,179.52	\$70,455.21	\$255,267.61	\$0.00	\$371,902.34	\$461.87	\$461.87	\$0.09	\$0.09	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$46,179.52	\$70,455.21	\$255,267.61	\$0.00	\$371,902.34	\$461.87	\$461.87	\$0.09	\$0.09	\$0.00	\$0.00

All Programs

Market-Based Avoided Costs (Net Free Riders/Persistence) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$145,528.76	\$50,935.07	\$82,014.69	\$932.66	\$279,411.18	\$0.00	\$0.00	\$0.00
2	\$158,932.48	\$55,626.37	\$84,677.40	\$932.66	\$300,168.91	\$0.00	\$0.00	\$0.00
3	\$231,090.57	\$80,881.70	\$87,429.62	\$932.66	\$400,334.56	\$0.00	\$0.00	\$0.00
4	\$232,959.26	\$81,535.74	\$90,271.35	\$932.66	\$405,699.01	\$0.00	\$0.00	\$0.00
5	\$251,952.12	\$88,183.24	\$93,210.03	\$932.66	\$434,278.06	\$0.00	\$0.00	\$0.00
6	\$253,628.44	\$88,769.96	\$96,238.22	\$932.66	\$439,569.28	\$0.00	\$0.00	\$0.00
7	\$293,756.22	\$102,814.68	\$99,363.37	\$932.66	\$496,866.93	\$0.00	\$0.00	\$0.00
8	\$311,534.53	\$109,037.08	\$102,592.94	\$932.66	\$524,097.22	\$0.00	\$0.00	\$0.00
9	\$335,763.78	\$117,517.32	\$105,926.93	\$932.66	\$560,140.69	\$0.00	\$0.00	\$0.00
10	\$333,058.73	\$116,570.55	\$108,933.42	\$915.12	\$559,477.81	\$0.00	\$0.00	\$0.00
11	\$343,560.73	\$120,246.25	\$112,469.45	\$915.12	\$577,191.54	\$0.00	\$0.00	\$0.00
12	\$358,812.42	\$125,584.35	\$116,124.33	\$915.12	\$601,436.21	\$0.00	\$0.00	\$0.00
13	\$302,220.67	\$105,777.24	\$80,329.85	\$752.68	\$489,080.44	\$0.00	\$0.00	\$0.00
14	\$311,287.29	\$108,950.55	\$82,942.81	\$752.68	\$503,933.34	\$0.00	\$0.00	\$0.00
15	\$320,625.91	\$112,219.07	\$85,640.38	\$752.68	\$519,238.04	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$4,184,711.91	\$1,464,649.17	\$1,428,164.82	\$13,397.33	\$7,090,923.23	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Persistence)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Gas Distribution	Gas Fuel	Total
1	\$142,552.32	\$67,440.47	\$82,014.69	\$932.66	\$292,940.14	\$0.00	\$0.00	\$0.00
2	\$155,681.89	\$57,160.60	\$84,677.40	\$932.66	\$298,452.56	\$0.00	\$0.00	\$0.00
3	\$226,364.16	\$59,928.71	\$87,429.62	\$932.66	\$374,655.15	\$0.00	\$0.00	\$0.00
4	\$228,194.63	\$175,213.14	\$90,271.35	\$932.66	\$494,611.78	\$0.00	\$0.00	\$0.00
5	\$246,799.04	\$175,213.14	\$93,210.03	\$932.66	\$516,154.88	\$0.00	\$0.00	\$0.00
6	\$248,441.08	\$175,213.14	\$96,238.22	\$932.66	\$520,825.10	\$0.00	\$0.00	\$0.00
7	\$287,748.13	\$175,213.14	\$99,363.37	\$932.66	\$563,257.31	\$0.00	\$0.00	\$0.00
8	\$305,162.83	\$175,213.14	\$102,592.94	\$932.66	\$583,901.58	\$0.00	\$0.00	\$0.00
9	\$328,896.53	\$175,213.14	\$105,926.93	\$932.66	\$610,969.26	\$0.00	\$0.00	\$0.00
10	\$326,540.06	\$174,561.13	\$108,933.42	\$915.12	\$610,949.72	\$0.00	\$0.00	\$0.00
11	\$336,836.51	\$174,561.13	\$112,469.45	\$915.12	\$624,782.20	\$0.00	\$0.00	\$0.00
12	\$351,789.69	\$174,561.13	\$116,124.33	\$915.12	\$643,390.27	\$0.00	\$0.00	\$0.00
13	\$297,472.53	\$119,472.43	\$80,329.85	\$752.68	\$498,027.49	\$0.00	\$0.00	\$0.00
14	\$306,396.71	\$119,472.43	\$82,942.81	\$752.68	\$509,564.63	\$0.00	\$0.00	\$0.00
15	\$315,588.61	\$119,472.43	\$85,640.38	\$752.68	\$521,454.10	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$4,104,464.71	\$2,117,909.32	\$1,428,164.82	\$13,397.33	\$7,663,936.19	\$7,663,936.19	\$0.00	\$0.00

	Cost Based NPV			
	Energy	Capacity	T&D	Ancillary
1.00	142,552.32	67,440.47	82,014.69	932.66
0.92	143,485.62	52,682.58	78,043.69	859.60
0.85	192,286.23	50,906.76	74,267.56	792.25
0.78	178,655.42	137,175.79	70,674.17	730.19
0.72	178,083.84	126,429.30	67,257.96	672.98
0.67	165,224.60	116,524.70	64,002.79	620.26
0.61	176,373.80	107,396.04	60,904.29	571.67
0.56	172,394.52	98,982.52	57,957.46	526.89
0.52	171,246.37	91,228.13	55,152.92	485.61
0.48	156,699.94	83,768.34	52,274.93	439.15
0.44	148,977.88	77,205.84	49,743.60	404.74
0.41	143,402.26	71,157.46	47,336.50	373.03
0.38	111,760.93	44,885.99	30,180.06	282.78
0.35	106,095.63	41,369.58	28,720.51	260.63
0.32	100,717.51	38,128.64	27,331.42	240.21
0.29	-	-	-	-
0.27	-	-	-	-
0.25	-	-	-	-
0.23	-	-	-	-
0.21	-	-	-	-
	2,287,956.87	1,205,282.14	845,862.55	8,192.66
	-	-	-	-