

**DSMore 2012**      **Program:** Purchase Energy Star Refrigerator

<b>Run Setup</b>		<b>Notes:</b> Baseline: Refrigerator needs to be replaced
3	Mode (1=% Savings, 2=Loadshapes, 3=Targets, 4=Peak Clipping, 5=TOU, 6=Snapback)	
12	Measure Life (Years)	
<b>Quick Reference Tests (Today's Value)</b>		<b>Last Run:</b> 10/9/14 8:51 AM <b>XLS Version:</b> 6.0.1 <b>GCG Version:</b> 6.0.6
0.64	Utility Test	
0.70	TRC Test	
0.40	RIM Test	

<b>Loads</b>		January	February	March	April	May	June	July	August	September	October	November	December
ResAvg	Electric Pre-Load Directory												
ResAvg	Gas Pre-Load/Price Directory												
<b>% Loadshape Pre-Adjustments</b>													
(Scales pre-loadshape for all modes)	Electric kWh	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	Electric kW Peak	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	Gas	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
<b>Mode 1 - Monthly % Savings</b>													
(Mode 2 found at bottom of Loadshapes worksheet)	Electric kWh	/	/	/	/	/	/	/	/	/	/	/	/
	Electric kW Peak	/	/	/	/	/	/	/	/	/	/	/	/
	Gas	/	/	/	/	/	/	/	/	/	/	/	/
<b>Mode 3 - Targets</b>													
118	kWh	1	1	1	1	1	1	1	1	1	1	1	1
0	Non-Coin kW	0	0	0	0	0	1	1	1	0	0	0	0
0	CCF	1	1	1	0	0	0	0	0	0	1	1	1
0.1778	Summer Coincident kW												
0	Winter Coincident kW												

<b>Savings Degradation</b>		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Electric														
Gas														

<b>Customer Participation</b>		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Incremental		2,328												
Free Ridership (Incremental) [%]														
Drop-Out Rate (Cumulative) [%]														
Cumulative		2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328
Cumulative (Net Free)		2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328
Cumulative (Net Free/Persistence)		2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328	2328

<b>Program Costs / Credits</b>		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
<b>Utility</b>														
Annual Administration Costs (Total)	\$	1,928												
Implementation / Participation Costs (Total)	\$	142,603												
Incentives (Total)	\$	232,800												
Other / Miscellaneous Costs (Total)	\$	35,115												
Sum	\$	412,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Customer</b>														
One-Time Costs (Per Customer)	\$	83.51												
Annual Costs (Per Customer)														
One-Time Tax Credits (Per Customer)														

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC) Test	1.23	0.44	0.64	0.78	0.67	1.17
TRC Test	1.35	0.48	0.70	0.86	0.74	1.29
RIM Test	0.77	0.28	0.40	0.49	0.42	0.72
RIM (Net Fuel)	0.85	0.31	0.44	0.54	0.47	0.80
Societal Test	1.45	0.58	0.80	0.95	0.83	1.39
Participant Test	2.29	2.22	2.29	2.29	2.29	2.37

Cost / Benefit Test Matrix By Weather / Price Scenarios						
Usage/Weather Scenarios	Test	Cost Based	Market-Based			kWh Savings
			Low	Median	High	
Mild Year	Utility (PAC)	1.20	0.44	0.63	1.03	119.0
Normal Year	Utility (PAC)	1.23	0.46	0.67	1.11	126.3
Extreme Year	Utility (PAC)	1.25	0.47	0.70	1.17	133.2
Mild Year	TRC	1.32	0.48	0.69	1.13	119.0
Normal Year	TRC	1.35	0.50	0.74	1.22	126.3
Extreme Year	TRC	1.38	0.52	0.77	1.29	133.2
Mild Year	RIM	0.77	0.28	0.40	0.66	119.0
Normal Year	RIM	0.77	0.29	0.42	0.70	126.3
Extreme Year	RIM	0.78	0.29	0.43	0.72	133.2
Mild Year	Societal	1.42	0.58	0.79	1.23	119.0
Normal Year	Societal	1.45	0.60	0.83	1.32	126.3
Extreme Year	Societal	1.47	0.61	0.87	1.39	133.2
Mild Year	Participant	2.22	2.22	2.22	2.22	119.0
Normal Year	Participant	2.29	2.29	2.29	2.29	126.3
Extreme Year	Participant	2.37	2.37	2.37	2.37	133.2

Present Values (PVs) of Costs and Benefits Per Test							
	Cost Based	Market-Based					Discount Rate Used
		Minimum	Today	Alternate	Option	Maximum	
<b>Utility (PAC) Test</b>							
Avoided Electric Production	129,947	75,389	156,249	214,683	170,314	377,806	7.06%
Avoided Electric Production Adders	0	0	0	0	0	0	7.06%
Avoided Electric Capacity	270,366	0	0	0	0	0	7.06%
Avoided T&D Electric	105,771	105,771	105,771	105,771	105,771	105,771	7.06%
Avoided Ancillary	0	0	0	0	0	0	7.06%
Avoided Gas Production	0	0	0	0	0	0	7.06%
Avoided Gas Capacity	0	0	0	0	0	0	7.06%
Total	506,084	181,161	262,020	320,454	276,085	483,577	
Administration Costs	1,928	1,928	1,928	1,928	1,928	1,928	7.06%
Implementation / Participation Costs	142,603	142,603	142,603	142,603	142,603	142,603	7.06%
Other / Miscellaneous Costs	35,115	35,115	35,115	35,115	35,115	35,115	7.06%
Incentives	232,800	232,800	232,800	232,800	232,800	232,800	7.06%
Total	412,446	412,446	412,446	412,446	412,446	412,446	
Reduced Arrears	0	0	0	0	0	0	7.06%
<b>TRC Test</b>							
Avoided Electric Production	129,947	75,389	156,249	214,683	170,314	377,806	7.06%
Avoided Electric Production Adders	0	0	0	0	0	0	7.06%
Avoided Electric Capacity	270,366	0	0	0	0	0	7.06%
Avoided T&D Electric	105,771	105,771	105,771	105,771	105,771	105,771	7.06%
Avoided Ancillary	0	0	0	0	0	0	7.06%
Avoided Gas Production	0	0	0	0	0	0	7.06%
Avoided Gas Capacity	0	0	0	0	0	0	7.06%
Total	506,084	181,161	262,020	320,454	276,085	483,577	
Administration Costs	1,928	1,928	1,928	1,928	1,928	1,928	7.06%
Implementation / Participation Costs	142,603	142,603	142,603	142,603	142,603	142,603	7.06%
Other / Miscellaneous Costs	35,115	35,115	35,115	35,115	35,115	35,115	7.06%
Total	179,646	179,646	179,646	179,646	179,646	179,646	
Reduced Arrears	0	0	0	0	0	0	7.06%
Participant Costs (net)	194,411	194,411	194,411	194,411	194,411	194,411	10.00%
Participant Tax Credits (net)	0	0	0	0	0	0	10.00%
<b>RIM Test</b>							
Avoided Electric Production	129,947	75,389	156,249	214,683	170,314	377,806	7.06%
Avoided Electric Production Adders	0	0	0	0	0	0	7.06%
Avoided Electric Capacity	270,366	0	0	0	0	0	7.06%
Avoided T&D Electric	105,771	105,771	105,771	105,771	105,771	105,771	7.06%
Avoided Ancillary	0	0	0	0	0	0	7.06%
Avoided Gas Production	0	0	0	0	0	0	7.06%

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Avoided Gas Capacity	0	0	0	0	0	0	7.06%
Total	506,084	181,161	262,020	320,454	276,085	483,577	
Administration Costs	1,928	1,928	1,928	1,928	1,928	1,928	7.06%
Implementation / Participation Costs	142,603	142,603	142,603	142,603	142,603	142,603	7.06%
Other / Miscellaneous Costs	35,115	35,115	35,115	35,115	35,115	35,115	7.06%
Incentives	232,800	232,800	232,800	232,800	232,800	232,800	7.06%
Total	412,446	412,446	412,446	412,446	412,446	412,446	
Reduced Arrears	0	0	0	0	0	0	7.06%
Lost Revenue (Electric)	242,970	226,824	242,970	242,970	242,970	259,079	7.06%
Lost Revenue (Gas)	0	0	0	0	0	0	7.06%
Total	242,970	226,824	242,970	242,970	242,970	259,079	
Net Fuel Lost Revenue (Electric)	179,690	167,202	179,690	179,690	179,690	192,302	7.06%
Net Fuel Lost Revenue (Gas)	0	0	0	0	0	0	7.06%
Total	179,690	167,202	179,690	179,690	179,690	192,302	
<b>Societal Test</b>							
Avoided Electric Production	129,947	75,389	156,249	214,683	170,314	377,806	7.06%
Avoided Electric Production Adders	0	0	0	0	0	0	7.06%
Avoided Electric Capacity	270,366	0	0	0	0	0	7.06%
Avoided T&D Electric	105,771	105,771	105,771	105,771	105,771	105,771	7.06%
Avoided Ancillary	0	0	0	0	0	0	7.06%
Avoided Gas Production	0	0	0	0	0	0	7.06%
Avoided Gas Capacity	0	0	0	0	0	0	7.06%
Total	506,084	181,161	262,020	320,454	276,085	483,577	
Administration Costs	1,928	1,928	1,928	1,928	1,928	1,928	7.06%
Implementation / Participation Costs	142,603	142,603	142,603	142,603	142,603	142,603	7.06%
Other / Miscellaneous Costs	35,115	35,115	35,115	35,115	35,115	35,115	7.06%
Total	179,646	179,646	179,646	179,646	179,646	179,646	
Reduced Arrears	0	0	0	0	0	0	7.06%
Participant Costs (net)	194,411	194,411	194,411	194,411	194,411	194,411	10.00%
Environmental Benefits	35,746	35,746	35,746	35,746	35,746	35,746	3.00%
Other Benefits	0	0	0	0	0	0	3.00%
Total	35,746	35,746	35,746	35,746	35,746	35,746	
<b>Participant Test</b>							
Incentives	232,800	232,800	232,800	232,800	232,800	232,800	10.00%
Participant Costs (gross)	194,411	194,411	194,411	194,411	194,411	194,411	10.00%
Participant Tax Credits (gross)	0	0	0	0	0	0	10.00%
Participant Bill Savings (Electric) (gross)	213,184	199,017	213,184	213,184	213,184	227,318	10.00%
Participant Bill Savings (Gas) (gross)	0	0	0	0	0	0	10.00%
Total	213,184	199,017	213,184	213,184	213,184	227,318	

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