Appendix F
Technical and Economic Potential
Non-Additive Measure Level Results

DSM ASSYST SUMMARY						Year	2011													
Vintage Batch Segment	1 Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	100	Base, 13 SEER Split-System Air Conditioner	Single Family	0%	0%	$ -	3,402	3,402	3,049	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	101	15 SEER Split-System Air Conditioner	Single Family	13%	13%	$ 468	2,824	2,447	2,193	18	433	388	461	$ 0.13	$ 145	1.72	0.60	14.02	2.94
1	102	17 SEER Split-System Air Conditioner	Single Family	24%	24%	$ 1,120	2,807	2,146	1,924	18	802	719	855	$ 0.18	$ 198	1.26	0.44	19.14	2.94
1	103	Programmable Thermostat	Single Family	2%	2%	$ 38	3,446	3,377	3,033	10	30	24	35	$ 0.09	$ 111	2.31	1.04	6.25	2.71
1	104	Ceiling Fans	Single Family	5%	5%	$ 377	3,516	3,341	2,994	15	75	68	80	$ 0.25	$ 277	0.90	0.33	24.19	2.94
1	105	Whole House Fans	Single Family	20%	20%	$ 513	3,559	2,847	2,552	15	169	152	180	$ 0.08	$ 93	2.67	0.99	8.14	2.94
1	106	Attic Venting	Single Family	11%	11%	$ 141	3,458	3,078	2,758	10	36	32	39	$ 0.06	$ 66	3.74	1.55	4.18	2.94
1	107	Proper Refrigerant Charging and Air Flow	Single Family	13%	13%	$ 127	3,550	3,102	2,781	10	368	330	392	$ 0.05	$ 51	4.88	2.03	3.21	2.94
1	108	Duct Repair	Single Family	8%	8%	$ 239	3,415	3,151	2,824	18	309	277	329	$ 0.09	$ 105	2.36	0.83	10.19	2.94
1	109	Duct Insulation	Single Family	4%	4%	$ 189	3,472	3,333	2,987	18	85	76	90	$ 0.14	$ 158	1.57	0.55	15.33	2.94
1	110	AC maintenance and repair	Single Family	4%	4%	$ 125	3,456	3,318	2,974	5	103	93	110	$ 0.26	$ 288	0.86	0.41	10.21	2.94
1	111	Single Pane Windows to Double Pane with Gas	Single Family	16%	16%	$ 431	3,795	3,188	2,857	25	263	236	280	$ 0.07	$ 73	3.14	1.07	8.02	2.94
1	112	Double Pane with Glazing to Energy Star	Single Family	6%	6%	$ 452	3,510	3,299	2,957	25	126	113	135	$ 0.20	$ 220	1.04	0.35	24.21	2.94
1	113	Sealed Attic w/Sprayed Foam Insulated Roof Deck	Single Family	9%	9%	$ 2,596	3,411	3,104	2,782	30	33	30	36	$ 0.73	$ 819	0.26	0.09	95.49	2.94
1	114	Ceiling R-0 to R-38 Insulation	Single Family	25%	25%	$ 2,065	4,490	3,361	3,013	30	16	15	18	$ 0.16	$ 177	1.22	0.41	20.66	2.94
1	115	Ceiling R-11 to R-38 Insulaton	Single Family	9%	4%	$ 1,893	3,670	3,358	3,173	30	27	10	29	$ 0.53	$ 1,412	0.37	0.12	68.47	2.94
1	115	Ceiling R-11 to R-38 Insulaton	Single Family	9%	4%	$ 1,893	3,670	3,358	3,173	30	27	10	29	$ 0.53	$ 1,412	0.37	0.12	68.47	2.94
1	116	Ceiling R-0 to R-49 Insulation	Single Family	27%	27%	$ 2,796	4,572	3,358	3,010	30	18	16	19	$ 0.20	$ 223	0.97	0.33	26.00	2.94
1	117	Ceiling R-19 to R-49 Insulation	Single Family	5%	5%	$ 1,570	3,559	3,368	3,019	30	21	19	22	$ 0.71	$ 796	0.27	0.09	92.82	2.94
1	118	Ceiling R-11 to R-49 Insulation	Single Family	10%	10%	$ 1,635	3,729	3,349	3,001	30	33	29	35	$ 0.37	$ 416	0.52	0.18	48.52	2.94
1	119	Wall 2x4 R-0 to Blow-In R-13 Insulation	Single Family	6%	6%	$ 887	3,585	3,385	3,034	30	17	15	18	$ 0.38	$ 429	0.50	0.17	49.99	2.94
1	120	Self Install Weatherization	Single Family	2%	2%	$ 5	3,428	3,360	3,011	10	52	47	56	$ 0.01	$ 14	17.49	7.25	0.90	2.94
1	121	Infiltration Reduction	Single Family	20%	20%	$ 123	3,619	2,895	2,595	10	622	557	662	$ 0.03	$ 31	8.14	3.38	1.92	2.94
1	130	Base Early Replacement 10 SEER Split-System AC	Single Family	0%	0%	$ -	4,403	4,403	3,947	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	131	15 SEER Split-System AC Early Replacement	Single Family	20%	20%	$ 514	4,403	3,513	3,149	18	194	173	206	$ 0.06	$ 67	3.69	1.29	6.52	2.94
1	140	Base Room Air Conditioner - EER 9.7	Single Family	0%	0%	$ -	2,160	2,160	1,936	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	142	HE Room Air Conditioner - CEE Tier 1 EER 11.3	Single Family	14%	14%	$ 85	2,163	1,857	1,664	12	26	23	27	$ 0.04	$ 42	5.86	2.33	3.15	2.94
1	143	Ceiling Fans	Single Family	5%	5%	$ 377	2,233	2,121	1,901	15	3	3	4	$ 0.39	$ 436	0.57	0.21	38.10	2.94
1	144	Whole House Fans	Single Family	20%	20%	$ 243	2,235	1,788	1,603	10	8	7	8	$ 0.09	$ 98	2.55	1.06	6.14	2.94
1	145	Single Pane Windows to Double Pane with Gas	Single Family	16%	16%	$ 431	2,410	2,024	1,814	25	12	10	12	$ 0.10	$ 115	1.99	0.68	12.63	2.94
1	146	Double Pane with Glazing to Energy Star	Single Family	6%	6%	$ 452	2,229	2,095	1,878	25	6	5	6	$ 0.31	$ 346	0.66	0.22	38.13	2.94
1	147	Ceiling R-0 to R-38 Insulation	Single Family	25%	25%	$ 2,065	2,851	2,135	1,913	30	1	1	1	$ 0.25	$ 279	0.77	0.26	32.53	2.94
1	148	Ceiling R-11 to R-38 Insulaton	Single Family	9%	9%	$ 1,893	2,331	2,133	1,911	30	1	1	1	$ 0.83	$ 925	0.23	0.08	107.83	2.94
1	149	Ceiling R-19 to R-38 Insulation	Single Family	4%	4%	$ 1,269	2,225	2,146	1,924	30	1	1	1	$ 1.40	$ 1,562	0.14	0.05	182.06	2.94
1	150	Ceiling R-0 to R-49 Insulation	Single Family	27%	27%	$ 2,796	2,903	2,133	1,911	30	1	1	1	$ 0.31	$ 351	0.61	0.21	40.95	2.94
1	151	Ceiling R-19 to R-49 Insulation	Single Family	5%	5%	$ 1,570	2,260	2,139	1,917	30	1	1	1	$ 1.12	$ 1,254	0.17	0.06	146.17	2.94
1	152	Ceiling R-11 to R-49 Insulation	Single Family	10%	10%	$ 1,635	2,368	2,127	1,906	30	1	1	2	$ 0.59	$ 655	0.33	0.11	76.40	2.94
1	153	Wall 2x4 R-0 to Blow-In R-13 Insulation	Single Family	6%	6%	$ 887	2,277	2,149	1,927	30	1	1	1	$ 0.61	$ 675	0.32	0.11	78.73	2.94
1	154	Self Install Weatherization	Single Family	2%	2%	$ 5	2,177	2,133	1,912	10	2	2	2	$ 0.02	$ 22	11.11	4.61	1.41	2.94
1	155	Infiltration Reduction	Single Family	6%	6%	$ 123	2,203	2,062	1,848	10	8	7	9	$ 0.14	$ 157	1.58	0.66	9.88	2.94
1	156	Ductless Split Heat Pump	Single Family	32%	32%	$ 239	2,167	1,481	1,327	18	2	2	2	$ 0.04	$ 41	6.13	2.15	3.93	2.94
1	160	Base Early Replacement Room Air Conditioner- EER 9.0	Single Family	0%	0%	$ -	2,328	2,328	2,086	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	161	EER 8.5 AC Early Replacement, CEE Tier 1 EER 11.3	Single Family	18%	18%	$ 109	2,328	1,904	1,707	12	6	6	7	$ 0.04	$ 39	6.34	2.52	2.91	2.94
1	170	Base Dehumidifier- New Federal Standard	Single Family	0%	0%	$ -	1,145	1,145	1,026	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	171	Energy Star Dehumidifier (ROB)	Single Family	20%	20%	$ 10	918	734	658	12	81	73	87	$ 0.01	$ 8	29.95	11.91	0.62	2.94
1	180	Base Furnace Fans	Single Family	0%	0%	$ -	1,190	1,190	359	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	181	Variable speed furnace fans (RET)	Single Family	39%	30%	$ 200	1,201	738	254	18	653	153	188	$ 0.05	$ 192	2.23	1.73	4.87	1.33
1	200	Base Resistance Space Heating	Single Family	0%	0%	$ -	17,921	17,921	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Single Pane Windows to Double Pane with Gas	Single Family	32%	32%	$ 362	22,602	15,369	0	25	164	0	0	$ 0.00	N/A	11.77	15.14	0.56	0.78
1	202	Double Pane with Glazing to Energy Star	Single Family	6%	6%	$ 606	18,488	17,379	0	25	35	0	0	$ 0.05	N/A	1.08	1.39	6.17	0.78
1	203	Single Pane- Add storm windows	Single Family	5%	5%	$ 8,226	18,636	17,640	0	25	18	0	0	$ 0.76	N/A	0.07	0.09	93.26	0.78
1	204	Double Pane- Add storm windows	Single Family	13%	13%	$ 8,226	19,369	16,784	0	25	73	0	0	$ 0.29	N/A	0.18	0.24	35.93	0.78
1	205	Ceiling R-0 to R-38 Insulation	Single Family	24%	24%	$ 1,635	23,300	17,721	0	30	4	0	0	$ 0.03	N/A	2.01	2.59	3.31	0.78
1	206	Ceiling R-11 to R-38 Insulaton	Single Family	8%	8%	$ 1,269	19,214	17,711	0	30	7	0	0	$ 0.07	N/A	0.70	0.90	9.53	0.78
1	207	Ceiling R-19 to R-38 Insulation	Single Family	4%	4%	$ 968	18,461	17,804	0	30	6	0	0	$ 0.13	N/A	0.40	0.51	16.63	0.78
1	208	Ceiling R-0 to R-49 Insulation	Single Family	25%	25%	$ 1,979	23,493	17,713	0	30	4	0	0	$ 0.03	N/A	1.72	2.21	3.86	0.78
1	209	Ceiling R-19 to R-49 Insulation	Single Family	4%	4%	$ 1,355	18,592	17,776	0	30	5	0	0	$ 0.14	N/A	0.35	0.46	18.75	0.78
1	210	Ceiling R-11 to R-49 Insulation	Single Family	9%	9%	$ 1,291	19,353	17,688	0	30	7	0	0	$ 0.07	N/A	0.76	0.98	8.75	0.78
1	211	Wall Blow-in R-0 to R-13 Insulation	Single Family	9%	9%	$ 1,171	19,452	17,741	0	30	9	0	0	$ 0.06	N/A	0.86	1.11	7.73	0.78
1	212	Floor R-0 to R-19 Insulation	Single Family	10%	10%	$ 2,028	17,977	16,179	0	30	24	0	0	$ 0.10	N/A	0.52	0.67	12.73	0.78
1	213	Basement Insulation	Single Family	35%	35%	$ 1,089	21,052	13,705	0	30	101	0	0	$ 0.01	N/A	3.97	5.11	1.67	0.78
1	214	Programmable Thermostat	Single Family	7%	6%	$ 112	18,767	17,452	0	10	30	0	0	$ 0.01	N/A	4.29	6.73	0.96	0.78
1	215	Infiltration Reduction	Single Family	6%	6%	$ 229	18,272	17,103	0	10	52	0	0	$ 0.03	N/A	1.87	2.94	2.21	0.78
1	216	Self Install Weatherization	Single Family	2%	2%	$ 5	18,059	17,697	0	10	14	0	0	$ 0.00	N/A	24.34	38.21	0.17	0.78
1	217	Ductless Split Heat Pump	Single Family	60%	60%	$ 5,734	18,030	7,214	0	18	1	0	0	$ 0.06	N/A	1.06	1.41	5.98	0.78
1	220	Base Electric Furnace	Single Family	0%	0%	$ -	14,156	14,156	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	221	Single Pane Windows to Double Pane with Gas	Single Family	32%	32%	$ 362	17,853	12,140	0	25	500	0	0	$ 0.01	N/A	9.30	11.96	0.71	0.78
1	222	Double Pane with Glazing to Energy Star	Single Family	6%	6%	$ 606	14,604	13,727	0	25	106	0	0	$ 0.06	N/A	0.85	1.10	7.81	0.78
1	223	Single Pane- Add storm windows	Single Family	5%	5%	$ 8,226	14,720	13,934	0	25	55	0	0	$ 0.96	N/A	0.06	0.07	118.07	0.78
1	224	Double Pane- Add storm windows	Single Family	13%	13%	$ 8,226	15,299	13,257	0	25	223	0	0	$ 0.37	N/A	0.15	0.19	45.49	0.78
1	225	Ceiling R-0 to R-38 Insulation	Single Family	24%	24%	$ 1,635	18,404	13,997	0	30	13	0	0	$ 0.03	N/A	1.59	2.04	4.19	0.78

DSM ASSYST SUMMARY — Year 2011

Vintage Batch Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	226	Ceiling R-11 to R-38 Insulaton	Single Family	8%	8%	$ 1,269	15,177	13,989	0	30	21	0	0	$ 0.09	N/A	0.55	0.71	12.07	0.78
1	227	Ceiling R-19 to R-38 Insulation	Single Family	4%	4%	$ 968	14,582	14,063	0	30	19	0	0	$ 0.16	N/A	0.32	0.41	21.06	0.78
1	228	Ceiling R-0 to R-49 Insulation	Single Family	25%	25%	$ 1,979	18,557	13,991	0	30	13	0	0	$ 0.04	N/A	1.36	1.75	4.89	0.78
1	229	Ceiling R-19 to R-49 Insulation	Single Family	4%	4%	$ 1,355	14,686	14,041	0	30	14	0	0	$ 0.18	N/A	0.28	0.36	23.73	0.78
1	230	Ceiling R-11 to R-49 Insulation	Single Family	9%	9%	$ 1,291	15,286	13,972	0	30	23	0	0	$ 0.09	N/A	0.60	0.77	11.08	0.78
1	231	Wall Blow-in R-0 to R-13 Insulation	Single Family	9%	9%	$ 1,171	15,365	14,013	0	30	26	0	0	$ 0.08	N/A	0.68	0.87	9.78	0.78
1	232	Floor R-0 to R-19 Insulation	Single Family	10%	10%	$ 2,483	14,200	12,780	0	30	73	0	0	$ 0.15	N/A	0.34	0.43	19.74	0.78
1	233	Basement Insulation	Single Family	35%	35%	$ 1,089	16,628	10,826	0	30	308	0	0	$ 0.02	N/A	3.14	4.04	2.12	0.78
1	234	Programmable Thermostat	Single Family	7%	6%	$ 112	14,823	13,785	0	10	92	0	0	$ 0.02	N/A	3.39	5.32	1.22	0.78
1	235	Infiltration Reduction	Single Family	6%	6%	$ 229	14,433	13,509	0	10	161	0	0	$ 0.04	N/A	1.48	2.32	2.80	0.78
1	236	Self Install Weatherization	Single Family	2%	2%	$ 5	14,264	13,979	0	10	44	0	0	$ 0.00	N/A	19.23	30.18	0.22	0.78
1	237	Ductless Split Heat Pump	Single Family	60%	60%	$ 5,734	14,241	5,698	0	18	107	0	0	$ 0.07	N/A	0.84	1.11	7.58	0.78
1	250	Base Lighting 60-Watt incandescent, 1.8 hr/hday	Single Family	0%	0%	$ -	1,644	1,644	107	2	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	251	CFL (15-Watt integral ballast), 1.8 hr/day	Single Family	75%	75%	$ 47	1,644	411	27	12	1,842	120	423	$ 0.01	$ 78	15.25	17.45	0.42	1.02
1	252	LEDs w/ Incandescent Baseline	Single Family	90%	90%	$ 335	1,659	166	11	53	2,453	160	564	$ 0.02	$ 271	3.47	3.39	2.52	1.02
1	255	Base Lighting 15 Watt CFL, 1.8 hours per day	Single Family	0%	0%	$ -	185	185	12	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	256	LEDs w/ CFL Baseline	Single Family	60%	60%	$ 112	186	74	5	53	183	12	42	$ 0.08	$ 1,211	0.77	0.76	11.28	1.02
1	260	Base Lighting Fluorescent Tube, 1.8 hrs/day	Single Family	0%	0%	$ -	89	89	6	68	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	261	RET 2L4'T8, 1EB	Single Family	28%	28%	$ 358	94	68	4	107	35	2	8	$ 1.06	$ 16,237	0.06	0.06	154.10	1.02
1	262	ROB 2L4'T8, 1EB	Single Family	28%	28%	$ 48	94	68	4	107	35	2	8	$ 0.14	$ 2,165	0.43	0.42	20.55	1.02
1	265	Base Lighting Halogen and HID, 1.8 hrs/day	Single Family	0%	0%	$ -	125	125	8	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	266	LEDs w/ Halogen Baseline	Single Family	92%	92%	$ 71	125	10	1	24	191	12	44	$ 0.06	$ 866	1.28	1.25	6.85	1.02
1	300	Base Refrigerator	Single Family	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	301	HE Refrigerator - Energy Star	Single Family	20%	20%	$ 97	606	485	46	12	101	10	13	$ 0.11	$ 1,137	0.75	0.81	8.99	1.07
1	302	HE Refrigerator - CEE tier 2	Single Family	25%	25%	$ 219	558	419	40	12	195	19	25	$ 0.21	$ 2,239	0.38	0.41	17.70	1.07
1	310	Base Early Replacement Refrigerator	Single Family	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	311	Refrigerator - Early Replacement to 2008 Energy Star	Single Family	28%	28%	$ 250	773	560	54	5	53	5	7	$ 0.33	$ 3,490	0.24	0.32	13.19	1.07
1	340	Base Second Refrigerator	Single Family	0%	0%	$ -	852	852	81	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	341	Second Refrigerator Recycling	Single Family	100%	100%	$ 125	852	1	0	5	415	40	54	$ 0.04	$ 439	1.93	2.51	1.66	1.07
1	400	Base Freezer	Single Family	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Energy Star Freezer	Single Family	15%	15%	$ 60	614	522	51	12	53	5	7	$ 0.09	$ 914	0.92	1.00	7.35	1.08
1	410	Base Early Replacement Freezer	Single Family	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Early Replacement Freezer to 2008 Energy Star	Single Family	15%	15%	$ 75	591	501	49	12	12	1	2	$ 0.11	$ 1,176	0.71	0.77	9.46	1.08
1	500	Base 40 gal. Water Heating (EF=0.88)	Single Family	0%	0%	$ -	4,860	4,860	348	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Heat Pump Water Heater (EF=2.5)	Single Family	65%	65%	$ 1,411	4,891	1,722	123	12	320	23	29	$ 0.06	$ 849	1.26	1.46	5.02	1.01
1	502	HE Water Heater (EF=0.93)	Single Family	5%	5%	$ 72	4,891	4,627	331	10	95	7	9	$ 0.04	$ 614	1.74	2.10	3.09	1.01
1	503	Low Flow Showerhead	Single Family	7%	8%	$ 53	5,091	4,710	337	5	61	4	6	$ 0.04	$ 552	1.94	2.66	1.56	1.01
1	504	Pipe Wrap	Single Family	3%	3%	$ 3	4,951	4,802	344	15	20	1	2	$ 0.00	$ 32	33.26	35.88	0.22	1.01
1	505	Faucet Aerators	Single Family	3%	3%	$ 25	4,919	4,771	342	5	36	3	3	$ 0.05	$ 674	1.59	2.18	1.91	1.01
1	506	2011 Energy Star Clotheswasher (MEF 2.00)	Single Family	3%	3%	$ 166	4,884	4,732	460	11	51	5	4	$ 0.16	$ 1,652	0.53	0.56	12.31	1.13
1	507	Tier 3 CW (MEF=2.20)	Single Family	3%	3%	$ 393	4,861	4,703	457	11	63	6	5	$ 0.36	$ 3,756	0.23	0.25	27.97	1.13
1	508	Energy Star Dishwasher (EF=0.68)	Single Family	2%	2%	$ 143	4,877	4,773	496	11	27	3	4	$ 0.20	$ 1,947	0.43	0.45	15.52	1.15
1	509	CEE Tier 2 DW (EF=0.72)	Single Family	2%	2%	$ 223	4,861	4,745	494	11	36	4	5	$ 0.28	$ 2,720	0.31	0.32	21.69	1.15
1	510	Solar Water Heater	Single Family	50%	50%	$ 3,500	4,884	2,442	159	15	988	64	227	$ 0.17	$ 2,543	0.47	0.50	16.18	1.02
1	550	Base Early Replacement Water Heating to Heat Pump Water Heater	Single Family	0%	0%	$ -	4,860	4,860	348	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	551	Early Replacement Water Heating to Heat Pump Water Heater	Single Family	64%	64%	$ 1,374	4,860	1,770	127	10	7	0	1	$ 0.07	$ 998	1.07	1.29	5.02	1.01
1	600	Base Clotheswasher (MEF=1.26)	Single Family	0%	0%	$ -	87	87	8	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	601	Energy Star Clotheswasher (MEF 2.00)	Single Family	29%	29%	$ 129	91	64	6	11	37	4	3	$ 0.71	$ 7,281	0.12	0.13	54.23	1.13
1	602	Tier 3 CW (MEF=2.20)	Single Family	32%	32%	$ 175	87	59	6	11	45	4	4	$ 0.93	$ 9,599	0.09	0.10	71.49	1.13
1	700	Base Clothes Dryer (EF=3.01)	Single Family	0%	0%	$ -	1,043	1,043	96	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	710	High Efficiency CD (EF=3.01 w/moisture sensor)	Single Family	15%	15%	$ 238	1,118	950	88	12	135	12	15	$ 0.19	$ 2,100	0.44	0.46	16.04	1.12
1	711	Heat Pump Dryer	Single Family	60%	60%	$ 1,681	1,049	420	39	12	907	84	102	$ 0.36	$ 3,947	0.23	0.24	30.15	1.12
1	800	Base Dishwasher (EF=0.65)	Single Family	0%	0%	$ 293	174	174	18	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	900	Base Single Speed Pool Pump (RET)	Single Family	0%	0%	$ 630	884	884	69	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Variable Speed Pool Pump (1.5 hp)	Single Family	90%	90%	$ 792	1,004	100	8	10	3	0	0	$ 0.14	$ 1,809	0.59	0.66	9.89	1.10
1	905	Base Two Speed Pool Pump (1.5 hp) (ROB)	Single Family	0%	0%	$ -	384	384	30	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	906	Variable Speed Pool Pump (1.5 hp)	Single Family	33%	33%	$ 752	402	269	21	10	0	0	0	$ 0.91	$ 11,701	0.09	0.10	63.97	1.10
1	910	Base Plasma Screen TV	Single Family	0%	0%	$ -	1,002	1,002	91	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Energy Star Plasma Screen TV	Single Family	30%	30%	$ 2	1,200	840	76	6	70	6	24	$ 0.00	$ 18	52.34	64.48	0.07	1.10
1	912	TV Occupancy Sensor Power Strip	Single Family	5%	5%	$ 200	1,002	950	86	8	22	2	8	$ 0.73	$ 8,040	0.11	0.13	43.28	1.10
1	920	Base LCD Screen TV	Single Family	0%	0%	$ -	484	484	44	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	921	Energy Star LCD TV	Single Family	30%	30%	$ 2	580	406	37	6	54	5	18	$ 0.00	$ 36	25.27	31.13	0.15	1.10
1	922	TV Occupancy Sensor Power Strip	Single Family	3%	3%	$ 200	484	469	42	8	10	1	3	$ 2.54	$ 28,146	0.03	0.04	151.50	1.10
1	930	Base Other TV	Single Family	0%	0%	$ -	136	136	12	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	931	Energy Star LCD TV	Single Family	40%	40%	$ 2	136	82	7	6	79	7	27	$ 0.01	$ 116	7.93	9.77	0.49	1.10
1	932	TV Occupancy Sensor Power Strip	Single Family	5%	5%	$ 200	136	129	12	8	11	1	4	$ 5.09	$ 56,279	0.02	0.02	302.92	1.10
1	940	Base Laptop Computer	Single Family	0%	0%	$ -	207	207	19	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	941	Energy Star Laptop Computer	Single Family	13%	13%	$ 2	220	191	17	4	12	1	4	$ 0.02	$ 239	3.84	5.01	0.70	1.10
1	945	Base Desktop Computer	Single Family	0%	0%	$ -	785	785	71	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	946	Energy Star Desktop Computer	Single Family	18%	18%	$ 2	861	707	64	4	61	5	21	$ 0.00	$ 46	20.09	26.19	0.13	1.10
1	950	Base Cooking	Single Family	0%	0%	$ -	340	340	65	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY						Year	2011													
Vintage Batch Segment	1 Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	960	Base Miscellaneous	Single Family	0%	0%	$ -	1,651	1,651	130	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	962	Plug Load Controls - Smart Power Strip	Single Family	2%	2%	$ 25	1,652	1,619	128	5	54	4	11	$ 0.22	$ 2,745	0.36	0.49	8.54	1.02
1	970	Base House Practices	Single Family	0%	0%	$ -	16,012	16,012	3,118	1	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	971	Indirect Feedback	Single Family	2%	2%	$ 7	16,012	15,692	3,056	1	531	103	161	$ 0.03	$ 146	3.54	4.19	0.25	1.33
1	100	Base, 13 SEER Split-System Air Conditioner	Multifamily	0%	0%	$ -	2,424	2,424	2,173	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	101	15 SEER Split-System Air Conditioner	Multifamily	13%	13%	$ 313	2,119	1,836	1,646	18	50	45	53	$ 0.12	$ 129	1.92	0.67	12.52	2.94
1	102	17 SEER Split-System Air Conditioner	Multifamily	24%	24%	$ 750	2,000	1,529	1,371	18	146	131	156	$ 0.17	$ 186	1.34	0.47	17.99	2.94
1	103	Programmable Thermostat	Multifamily	2%	2%	$ 38	2,449	2,399	2,155	10	8	6	9	$ 0.13	$ 156	1.64	0.74	8.80	2.71
1	104	Ceiling Fans	Multifamily	5%	5%	$ 377	2,506	2,380	2,133	15	14	12	15	$ 0.35	$ 388	0.64	0.24	33.95	2.94
1	107	Proper Refrigerant Charging and Air Flow	Multifamily	11%	11%	$ 85	2,514	2,240	2,008	10	58	52	61	$ 0.05	$ 55	4.49	1.86	3.49	2.94
1	108	Duct Repair	Multifamily	8%	8%	$ 239	2,433	2,245	2,012	18	56	50	60	$ 0.13	$ 148	1.68	0.59	14.31	2.94
1	109	Duct Insulation	Multifamily	4%	4%	$ 103	2,474	2,375	2,129	18	15	14	16	$ 0.11	$ 121	2.06	0.72	11.71	2.94
1	110	AC maintenance and repair	Multifamily	4%	4%	$ 125	2,444	2,346	2,103	5	25	22	26	$ 0.37	$ 408	0.61	0.29	14.44	2.94
1	111	Single Pane Windows to Double Pane with Gas	Multifamily	16%	16%	$ 79	2,717	2,282	2,045	25	45	40	48	$ 0.02	$ 19	12.26	4.17	2.05	2.94
1	112	Double Pane with Glazing to Energy Star	Multifamily	6%	6%	$ 83	2,478	2,329	2,088	25	30	27	32	$ 0.05	$ 57	4.01	1.36	6.28	2.94
1	114	Ceiling R-0 to R-38 Insulation	Multifamily	25%	25%	$ 530	3,199	2,395	2,147	30	1	1	1	$ 0.06	$ 64	3.38	1.15	7.45	2.94
1	115	Ceiling R-11 to R-38 Insulaton	Multifamily	9%	4%	$ 486	2,615	2,393	2,261	30	2	1	2	$ 0.19	$ 509	1.02	0.35	24.68	2.94
1	116	Ceiling R-0 to R-49 Insulation	Multifamily	27%	27%	$ 718	3,258	2,393	2,145	30	1	1	1	$ 0.07	$ 80	2.68	0.91	9.37	2.94
1	117	Ceiling R-19 to R-49 Insulation	Multifamily	5%	5%	$ 403	2,536	2,400	2,151	30	1	1	2	$ 0.26	$ 287	0.75	0.26	33.45	2.94
1	118	Ceiling R-11 to R-49 Insulation	Multifamily	10%	10%	$ 420	2,657	2,386	2,139	30	2	2	2	$ 0.13	$ 150	1.44	0.49	17.49	2.94
1	119	Wall 2x4 R-0 to Blow-In R-13 Insulation	Multifamily	6%	6%	$ 300	2,550	2,407	2,158	30	2	2	2	$ 0.18	$ 204	1.06	0.36	23.82	2.94
1	120	Self Install Weatherization	Multifamily	2%	2%	$ 5	2,443	2,394	2,145	10	10	9	10	$ 0.02	$ 20	12.46	5.17	1.26	2.94
1	121	Infiltration Reduction	Multifamily	20%	20%	$ 39	2,579	2,063	1,849	10	113	102	121	$ 0.01	$ 13	18.47	7.66	0.85	2.94
1	130	Base Early Replacement 10 SEER Split-System AC	Multifamily	0%	0%	$ -	3,138	3,138	2,812	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	131	15 SEER Split-System AC Early Replacement	Multifamily	20%	20%	$ 344	3,138	2,503	2,243	18	42	38	45	$ 0.06	$ 63	3.93	1.38	6.13	2.94
1	140	Base Room Air Conditioner - EER 9.7	Multifamily	0%	0%	$ -	2,775	2,775	2,487	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	142	HE Room Air Conditioner - CEE Tier 1 EER 11.3	Multifamily	14%	14%	$ 110	2,779	2,386	2,138	12	13	11	14	$ 0.04	$ 42	5.86	2.33	3.15	2.94
1	143	Ceiling Fans	Multifamily	5%	5%	$ 377	2,869	2,725	2,443	15	2	1	2	$ 0.30	$ 339	0.73	0.27	29.66	2.94
1	145	Single Pane Windows to Double Pane with Gas	Multifamily	16%	16%	$ 79	3,110	2,613	2,342	25	5	5	6	$ 0.01	$ 16	14.04	4.77	1.79	2.94
1	146	Double Pane with Glazing to Energy Star	Multifamily	6%	6%	$ 83	2,837	2,667	2,390	25	4	3	4	$ 0.04	$ 50	4.59	1.56	5.48	2.94
1	147	Ceiling R-0 to R-38 Insulation	Multifamily	25%	25%	$ 530	3,663	2,742	2,458	30	0	0	0	$ 0.05	$ 56	3.87	1.31	6.50	2.94
1	148	Ceiling R-11 to R-38 Insulaton	Multifamily	9%	9%	$ 486	2,994	2,740	2,456	30	0	0	0	$ 0.17	$ 185	1.17	0.40	21.55	2.94
1	149	Ceiling R-19 to R-38 Insulation	Multifamily	4%	4%	$ 326	2,858	2,757	2,471	30	0	0	0	$ 0.28	$ 312	0.69	0.23	36.39	2.94
1	150	Ceiling R-0 to R-49 Insulation	Multifamily	27%	27%	$ 718	3,730	2,740	2,455	30	0	0	0	$ 0.06	$ 70	3.07	1.04	8.19	2.94
1	151	Ceiling R-19 to R-49 Insulation	Multifamily	5%	5%	$ 403	2,903	2,748	2,463	30	0	0	0	$ 0.22	$ 251	0.86	0.29	29.22	2.94
1	152	Ceiling R-11 to R-49 Insulation	Multifamily	10%	10%	$ 420	3,042	2,732	2,449	30	0	0	0	$ 0.12	$ 131	1.65	0.56	15.27	2.94
1	153	Wall 2x4 R-0 to Blow-In R-13 Insulation	Multifamily	6%	6%	$ 300	2,919	2,756	2,470	30	0	0	0	$ 0.16	$ 178	1.21	0.41	20.80	2.94
1	154	Self Install Weatherization	Multifamily	2%	2%	$ 5	2,797	2,741	2,456	10	1	1	1	$ 0.02	$ 17	14.27	5.92	1.10	2.94
1	155	Infiltration Reduction	Multifamily	6%	6%	$ 39	2,830	2,649	2,374	10	4	4	4	$ 0.03	$ 38	6.49	2.69	2.41	2.94
1	156	Ductless Split Heat Pump	Multifamily	32%	32%	$ 160	2,784	1,902	1,705	18	1	1	1	$ 0.02	$ 21	11.75	4.12	2.05	2.94
1	160	Base Early Replacement Room Air Conditioner- EER 9.0	Multifamily	0%	0%	$ -	2,990	2,990	2,680	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	161	EER 8.5 AC Early Replacement, CEE Tier 1 EER 11.3	Multifamily	18%	18%	$ 140	2,990	2,446	2,192	12	3	3	3	$ 0.04	$ 39	6.34	2.52	2.91	2.94
1	170	Base Dehumidifier- New Federal Standard	Multifamily	0%	0%	$ -	1,145	1,145	1,026	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	171	Energy Star Dehumidifier (ROB)	Multifamily	20%	20%	$ 10	918	734	658	12	10	9	11	$ 0.01	$ 8	29.95	11.91	0.62	2.94
1	180	Base Furnace Fans	Multifamily	0%	0%	$ -	1,190	1,190	359	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	181	Variable speed furnace fans (RET)	Multifamily	39%	30%	$ 200	1,201	738	254	18	169	40	49	$ 0.05	$ 192	2.23	1.73	4.87	1.33
1	200	Base Resistance Space Heating	Multifamily	0%	0%	$ -	12,164	12,164	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Single Pane Windows to Double Pane with Gas	Multifamily	32%	32%	$ 66	15,504	10,542	0	25	27	0	0	$ 0.00	N/A	44.09	56.72	0.15	0.78
1	202	Double Pane with Glazing to Energy Star	Multifamily	6%	6%	$ 111	12,435	11,689	0	25	8	0	0	$ 0.01	N/A	3.96	5.09	1.68	0.78
1	203	Single Pane- Add storm windows	Multifamily	5%	5%	$ 1,506	12,663	11,987	0	25	3	0	0	$ 0.20	N/A	0.26	0.34	25.13	0.78
1	204	Double Pane- Add storm windows	Multifamily	13%	13%	$ 1,506	12,900	11,178	0	25	16	0	0	$ 0.08	N/A	0.67	0.87	9.88	0.78
1	205	Ceiling R-0 to R-38 Insulation	Multifamily	24%	24%	$ 420	15,814	12,027	0	30	0	0	0	$ 0.01	N/A	5.31	6.83	1.25	0.78
1	206	Ceiling R-11 to R-38 Insulaton	Multifamily	8%	8%	$ 326	13,041	12,021	0	30	0	0	0	$ 0.03	N/A	1.84	2.37	3.61	0.78
1	207	Ceiling R-19 to R-38 Insulation	Multifamily	4%	4%	$ 249	12,530	12,084	0	30	0	0	0	$ 0.05	N/A	1.06	1.36	6.29	0.78
1	208	Ceiling R-0 to R-49 Insulation	Multifamily	25%	25%	$ 508	15,945	12,022	0	30	0	0	0	$ 0.01	N/A	4.55	5.85	1.46	0.78
1	209	Ceiling R-19 to R-49 Insulation	Multifamily	4%	4%	$ 348	12,619	12,065	0	30	0	0	0	$ 0.05	N/A	0.94	1.21	7.09	0.78
1	210	Ceiling R-11 to R-49 Insulation	Multifamily	9%	9%	$ 331	13,135	12,005	0	30	0	0	0	$ 0.03	N/A	2.01	2.58	3.31	0.78
1	211	Wall Blow-in R-0 to R-13 Insulation	Multifamily	9%	9%	$ 397	13,084	11,933	0	30	2	0	0	$ 0.03	N/A	1.71	2.20	3.89	0.78
1	212	Floor R-0 to R-19 Insulation	Multifamily	10%	10%	$ 683	12,737	11,463	0	30	1	0	0	$ 0.05	N/A	1.10	1.41	6.05	0.78
1	213	Basement Insulation	Multifamily	35%	35%	$ 325	13,652	8,888	0	30	2	0	0	$ 0.01	N/A	8.62	11.09	0.77	0.78
1	214	Programmable Thermostat	Multifamily	7%	6%	$ 112	12,605	11,722	0	10	7	0	0	$ 0.02	N/A	2.88	4.52	1.44	0.78
1	215	Infiltration Reduction	Multifamily	8%	8%	$ 72	12,467	11,457	0	10	12	0	0	$ 0.01	N/A	5.14	8.08	0.80	0.78
1	216	Self Install Weatherization	Multifamily	2%	2%	$ 5	12,257	12,012	0	10	3	0	0	$ 0.00	N/A	16.52	25.93	0.25	0.78
1	217	Ductless Split Heat Pump	Multifamily	60%	60%	$ 5,734	12,237	4,896	0	18	0	0	0	$ 0.08	N/A	0.72	0.96	8.82	0.78
1	220	Base Electric Furnace	Multifamily	0%	0%	$ -	10,056	10,056	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	221	Single Pane Windows to Double Pane with Gas	Multifamily	32%	32%	$ 66	12,818	8,716	0	25	86	0	0	$ 0.00	N/A	36.45	46.89	0.18	0.78
1	222	Double Pane with Glazing to Energy Star	Multifamily	6%	6%	$ 111	10,281	9,664	0	25	25	0	0	$ 0.02	N/A	3.27	4.21	2.03	0.78
1	223	Single Pane- Add storm windows	Multifamily	5%	5%	$ 1,506	10,470	9,910	0	25	9	0	0	$ 0.25	N/A	0.22	0.28	30.40	0.78
1	224	Double Pane- Add storm windows	Multifamily	13%	13%	$ 1,506	10,665	9,242	0	25	52	0	0	$ 0.10	N/A	0.56	0.72	11.95	0.78
1	225	Ceiling R-0 to R-38 Insulation	Multifamily	24%	24%	$ 420	13,075	9,944	0	30	1	0	0	$ 0.01	N/A	4.39	5.65	1.51	0.78
1	226	Ceiling R-11 to R-38 Insulaton	Multifamily	8%	8%	$ 326	10,782	9,938	0	30	1	0	0	$ 0.03	N/A	1.52	1.96	4.36	0.78

DSM ASSYST SUMMARY — Year 2011

Vintage Batch Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	227	Ceiling R-19 to R-38 Insulation	Multifamily	4%	4%	$ 249	10,359	9,991	0	30	1	0	0	$ 0.06	N/A	0.87	1.12	7.61	0.78
1	228	Ceiling R-0 to R-49 Insulation	Multifamily	25%	25%	$ 508	13,183	9,940	0	30	1	0	0	$ 0.01	N/A	3.76	4.83	1.77	0.78
1	229	Ceiling R-19 to R-49 Insulation	Multifamily	4%	4%	$ 348	10,433	9,975	0	30	1	0	0	$ 0.07	N/A	0.77	1.00	8.58	0.78
1	230	Ceiling R-11 to R-49 Insulation	Multifamily	9%	9%	$ 331	10,860	9,926	0	30	2	0	0	$ 0.03	N/A	1.66	2.13	4.01	0.78
1	231	Wall Blow-in R-0 to R-13 Insulation	Multifamily	9%	9%	$ 397	10,817	9,866	0	30	6	0	0	$ 0.04	N/A	1.41	1.82	4.71	0.78
1	232	Floor R-0 to R-19 Insulation	Multifamily	10%	10%	$ 836	10,530	9,477	0	30	2	0	0	$ 0.07	N/A	0.74	0.95	8.96	0.78
1	233	Basement Insulation	Multifamily	35%	35%	$ 325	11,287	7,348	0	30	6	0	0	$ 0.01	N/A	7.13	9.17	0.93	0.78
1	234	Programmable Thermostat	Multifamily	7%	6%	$ 112	10,421	9,691	0	10	23	0	0	$ 0.02	N/A	2.38	3.74	1.74	0.78
1	235	Infiltration Reduction	Multifamily	8%	8%	$ 72	10,307	9,472	0	10	38	0	0	$ 0.01	N/A	4.25	6.68	0.97	0.78
1	236	Self Install Weatherization	Multifamily	2%	2%	$ 5	10,133	9,931	0	10	8	0	0	$ 0.00	N/A	13.66	21.44	0.30	0.78
1	237	Ductless Split Heat Pump	Multifamily	60%	60%	$ 5,734	10,117	4,048	0	18	30	0	0	$ 0.10	N/A	0.60	0.79	10.67	0.78
1	250	Base Lighting 60-Watt incandescent, 1.8 hr/hday	Multifamily	0%	0%	$ -	925	925	60	2	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	251	CFL (15-Watt integral ballast), 1.8 hr/day	Multifamily	75%	75%	$ 26	925	231	15	12	268	17	62	$ 0.01	$ 78	15.25	17.45	0.42	1.02
1	252	LEDs w/ Incandescent Baseline	Multifamily	90%	90%	$ 188	933	93	6	53	357	23	82	$ 0.02	$ 271	3.47	3.39	2.52	1.02
1	255	Base Lighting 15 Watt CFL, 1.8 hours per day	Multifamily	0%	0%	$ -	104	104	7	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	256	LEDs w/ CFL Baseline	Multifamily	60%	60%	$ 63	105	42	3	53	27	2	6	$ 0.08	$ 1,211	0.77	0.76	11.28	1.02
1	260	Base Lighting Fluorescent Tube, 1.8 hrs/day	Multifamily	0%	0%	$ -	50	50	3	68	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	261	RET 2L4'T8, 1EB	Multifamily	28%	28%	$ 201	53	38	2	107	5	0	1	$ 1.06	$ 16,237	0.06	0.06	154.10	1.02
1	262	ROB 2L4'T8, 1EB	Multifamily	28%	28%	$ 27	53	38	2	107	5	0	1	$ 0.14	$ 2,165	0.43	0.42	20.55	1.02
1	265	Base Lighting Halogen and HID, 1.8 hrs/day	Multifamily	0%	0%	$ -	70	70	5	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	266	LEDs w/ Halogen Baseline	Multifamily	92%	92%	$ 40	70	6	0	24	28	2	6	$ 0.06	$ 866	1.28	1.25	6.85	1.02
1	300	Base Refrigerator	Multifamily	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	301	HE Refrigerator - Energy Star	Multifamily	20%	20%	$ 85	591	473	45	12	31	3	4	$ 0.10	$ 1,032	0.82	0.90	8.16	1.07
1	302	HE Refrigerator - CEE tier 2	Multifamily	25%	25%	$ 194	558	419	40	12	50	5	7	$ 0.19	$ 1,981	0.43	0.47	15.67	1.07
1	310	Base Early Replacement Refrigerator	Multifamily	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	311	Refrigerator - Early Replacement to 2008 Energy Star	Multifamily	28%	28%	$ 221	773	560	54	5	14	1	2	$ 0.30	$ 3,088	0.27	0.36	11.67	1.07
1	340	Base Second Refrigerator	Multifamily	0%	0%	$ -	852	852	81	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	341	Second Refrigerator Recycling	Multifamily	100%	100%	$ 125	852	1	0	5	39	4	5	$ 0.04	$ 439	1.93	2.51	1.66	1.07
1	400	Base Freezer	Multifamily	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Energy Star Freezer	Multifamily	15%	15%	$ 60	614	522	51	12	5	0	1	$ 0.09	$ 914	0.92	1.00	7.35	1.08
1	410	Base Early Replacement Freezer	Multifamily	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Early Replacement Freezer to 2008 Energy Star	Multifamily	15%	15%	$ 75	591	501	49	12	1	0	0	$ 0.11	$ 1,176	0.71	0.77	9.46	1.08
1	500	Base 40 gal. Water Heating (EF=0.88)	Multifamily	0%	0%	$ -	3,710	3,710	266	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Heat Pump Water Heater (EF=2.5)	Multifamily	65%	65%	$ 1,411	3,734	1,314	94	12	86	6	8	$ 0.08	$ 1,112	0.96	1.11	6.58	1.01
1	502	HE Water Heater (EF=0.93)	Multifamily	5%	5%	$ 72	3,710	3,509	251	10	29	2	3	$ 0.06	$ 810	1.32	1.59	4.07	1.01
1	503	Low Flow Showerhead	Multifamily	7%	8%	$ 46	3,905	3,612	259	5	14	1	1	$ 0.04	$ 625	1.71	2.35	1.77	1.01
1	504	Pipe Wrap	Multifamily	3%	3%	$ 3	3,735	3,622	259	15	11	1	1	$ 0.00	$ 43	25.09	27.06	0.30	1.01
1	505	Faucet Aerators	Multifamily	3%	3%	$ 22	3,765	3,652	262	5	8	1	1	$ 0.06	$ 780	1.37	1.88	2.21	1.01
1	506	2011 Energy Star Clotheswasher (MEF 2.00)	Multifamily	4%	4%	$ 166	3,710	3,558	346	11	15	1	1	$ 0.16	$ 1,661	0.53	0.56	12.37	1.13
1	507	Tier 3 CW (MEF=2.20)	Multifamily	4%	4%	$ 393	3,711	3,553	345	11	15	1	1	$ 0.36	$ 3,755	0.23	0.25	27.97	1.13
1	508	Energy Star Dishwasher (EF=0.68)	Multifamily	2%	2%	$ 143	3,710	3,630	378	11	9	1	1	$ 0.27	$ 2,559	0.33	0.34	20.41	1.15
1	509	CEE Tier 2 DW (EF=0.72)	Multifamily	2%	2%	$ 223	3,711	3,622	377	11	9	1	1	$ 0.37	$ 3,563	0.23	0.24	28.41	1.15
1	510	Solar Water Heater	Multifamily	50%	50%	$ 3,500	3,728	1,864	122	15	264	17	61	$ 0.22	$ 3,332	0.36	0.38	21.20	1.02
1	550	Base Early Replacement Water Heating to Heat Pump Water Heater	Multifamily	0%	0%	$ -	3,710	3,710	266	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	551	Early Replacement Water Heating to Heat Pump Water Heater	Multifamily	64%	64%	$ 1,374	3,710	1,351	97	10	2	0	0	$ 0.09	$ 1,307	0.82	0.99	6.58	1.01
1	600	Base Clotheswasher (MEF=1.26)	Multifamily	0%	0%	$ -	87	87	8	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	601	Energy Star Clotheswasher (MEF 2.00)	Multifamily	29%	29%	$ 129	87	61	6	11	7	1	1	$ 0.74	$ 7,644	0.11	0.12	56.93	1.13
1	602	Tier 3 CW (MEF=2.20)	Multifamily	32%	32%	$ 175	87	59	6	11	8	1	1	$ 0.93	$ 9,599	0.09	0.10	71.49	1.13
1	700	Base Clothes Dryer (EF=3.01)	Multifamily	0%	0%	$ -	627	627	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	710	High Efficiency CD (EF=3.01 w/moisture sensor)	Multifamily	15%	15%	$ 238	673	572	53	12	15	1	2	$ 0.32	$ 3,485	0.26	0.28	26.62	1.12
1	711	Heat Pump Dryer	Multifamily	60%	60%	$ 1,681	631	252	23	12	103	9	11	$ 0.61	$ 6,566	0.14	0.15	50.15	1.12
1	800	Base Dishwasher (EF=0.65)	Multifamily	0%	0%	$ 293	174	174	18	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	900	Base Single Speed Pool Pump (RET)	Multifamily	0%	0%	$ 630	884	884	69	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Variable Speed Pool Pump (1.5 hp)	Multifamily	90%	90%	$ 792	1,004	100	8	10	1	0	0	$ 0.14	$ 1,809	0.59	0.66	9.89	1.10
1	905	Base Two Speed Pool Pump (1.5 hp) (ROB)	Multifamily	0%	0%	$ -	384	384	30	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	906	Variable Speed Pool Pump (1.5 hp)	Multifamily	33%	33%	$ 752	402	269	21	10	0	0	0	$ 0.91	$ 11,701	0.09	0.10	63.97	1.10
1	910	Base Plasma Screen TV	Multifamily	0%	0%	$ -	1,203	1,203	109	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Energy Star Plasma Screen TV	Multifamily	30%	30%	$ 2	1,483	1,038	94	6	12	1	4	$ 0.00	$ 13	68.32	84.16	0.06	1.10
1	912	TV Occupancy Sensor Power Strip	Multifamily	4%	4%	$ 190	1,203	1,151	104	8	4	0	1	$ 0.69	$ 7,612	0.12	0.14	40.97	1.10
1	920	Base LCD Screen TV	Multifamily	0%	0%	$ -	538	538	49	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	921	Energy Star LCD TV	Multifamily	30%	30%	$ 2	663	464	42	6	11	1	4	$ 0.00	$ 30	30.54	37.62	0.13	1.10
1	922	TV Occupancy Sensor Power Strip	Multifamily	3%	3%	$ 190	538	523	47	8	2	0	1	$ 2.41	$ 26,646	0.03	0.04	143.42	1.10
1	930	Base Other TV	Multifamily	0%	0%	$ -	119	119	11	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	931	Energy Star LCD TV	Multifamily	40%	40%	$ 2	119	71	6	6	16	1	5	$ 0.01	$ 126	7.30	9.00	0.53	1.10
1	932	TV Occupancy Sensor Power Strip	Multifamily	6%	6%	$ 190	119	112	10	8	2	0	1	$ 4.81	$ 53,272	0.02	0.02	286.74	1.10
1	940	Base Laptop Computer	Multifamily	0%	0%	$ -	181	181	16	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	941	Energy Star Laptop Computer	Multifamily	13%	13%	$ 2	194	168	15	4	3	0	1	$ 0.02	$ 245	3.76	4.90	0.72	1.10
1	945	Base Desktop Computer	Multifamily	0%	0%	$ -	615	615	56	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	946	Energy Star Desktop Computer	Multifamily	18%	18%	$ 2	680	558	50	4	9	1	3	$ 0.00	$ 52	17.59	22.92	0.15	1.10
1	950	Base Cooking	Multifamily	0%	0%	$ -	340	340	65	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	960	Base Miscellaneous	Multifamily	0%	0%	$ -	1,228	1,228	97	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY — Year 2011

Vintage Batch Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	962	Plug Load Controls - Smart Power Strip	Multifamily	2%	2%	$ 25	1,228	1,204	95	5	10	1	2	$ 0.29	$ 3,691	0.26	0.36	11.49	1.02
1	970	Base House Practices	Multifamily	0%	0%	$ -	11,906	11,906	2,318	1	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	971	Indirect Feedback	Multifamily	2%	2%	$ 7	11,906	11,668	2,272	1	102	20	31	$ 0.04	$ 196	2.64	3.11	0.33	1.33
1	100	Base, 13 SEER Split-System Air Conditioner	SF Low Income	0%	0%	$ -	3,402	3,402	3,049	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	101	15 SEER Split-System Air Conditioner	SF Low Income	13%	13%	$ 468	2,804	2,430	2,178	18	149	133	158	$ 0.13	$ 146	1.71	0.60	14.12	2.94
1	102	17 SEER Split-System Air Conditioner	SF Low Income	24%	24%	$ 1,120	2,807	2,146	1,924	18	262	235	280	$ 0.18	$ 198	1.26	0.44	19.14	2.94
1	103	Programmable Thermostat	SF Low Income	2%	2%	$ 38	3,446	3,377	3,033	10	10	8	12	$ 0.09	$ 111	2.31	1.04	6.25	2.71
1	104	Ceiling Fans	SF Low Income	5%	5%	$ 377	3,457	3,284	2,944	15	47	42	50	$ 0.25	$ 282	0.88	0.33	24.61	2.94
1	105	Whole House Fans	SF Low Income	20%	20%	$ 513	3,464	2,771	2,484	15	33	30	35	$ 0.09	$ 96	2.60	0.97	8.36	2.94
1	106	Attic Venting	SF Low Income	7%	7%	$ 141	3,438	3,191	2,860	10	6	5	6	$ 0.09	$ 102	2.44	1.01	6.43	2.94
1	107	Proper Refrigerant Charging and Air Flow	SF Low Income	9%	9%	$ 127	3,509	3,186	2,855	10	87	78	92	$ 0.06	$ 71	3.53	1.46	4.44	2.94
1	108	Duct Repair	SF Low Income	8%	8%	$ 239	3,415	3,151	2,824	18	101	90	108	$ 0.09	$ 105	2.36	0.83	10.19	2.94
1	109	Duct Insulation	SF Low Income	4%	4%	$ 145	3,435	3,298	2,956	18	42	38	45	$ 0.11	$ 123	2.01	0.71	11.95	2.94
1	110	AC maintenance and repair	SF Low Income	4%	4%	$ 125	3,456	3,318	2,974	5	34	30	36	$ 0.26	$ 288	0.86	0.41	10.21	2.94
1	111	Single Pane Windows to Double Pane with Gas	SF Low Income	16%	16%	$ 333	3,762	3,160	2,832	25	97	87	104	$ 0.05	$ 57	4.03	1.37	6.24	2.94
1	112	Double Pane with Glazing to Energy Star	SF Low Income	6%	6%	$ 348	3,506	3,296	2,954	25	43	38	45	$ 0.15	$ 170	1.35	0.46	18.70	2.94
1	113	Sealed Attic w/Sprayed Foam Insulated Roof Deck	SF Low Income	9%	9%	$ 2,521	3,411	3,104	2,782	30	8	7	8	$ 0.71	$ 795	0.27	0.09	92.72	2.94
1	114	Ceiling R-0 to R-38 Insulation	SF Low Income	25%	25%	$ 1,593	4,490	3,361	3,013	30	5	5	6	$ 0.12	$ 137	1.58	0.54	15.94	2.94
1	115	Ceiling R-11 to R-38 Insulaton	SF Low Income	9%	4%	$ 1,460	3,670	3,358	3,173	30	9	3	9	$ 0.41	$ 1,090	0.48	0.16	52.83	2.94
1	115	Ceiling R-11 to R-38 Insulaton	SF Low Income	9%	4%	$ 1,460	3,670	3,358	3,173	30	9	3	9	$ 0.41	$ 1,090	0.48	0.16	52.83	2.94
1	116	Ceiling R-0 to R-49 Insulation	SF Low Income	27%	27%	$ 2,157	4,572	3,358	3,010	30	6	5	6	$ 0.15	$ 172	1.25	0.43	20.06	2.94
1	117	Ceiling R-19 to R-49 Insulation	SF Low Income	5%	5%	$ 1,211	3,559	3,368	3,019	30	7	6	7	$ 0.55	$ 614	0.35	0.12	71.61	2.94
1	118	Ceiling R-11 to R-49 Insulation	SF Low Income	10%	10%	$ 1,261	3,729	3,349	3,001	30	11	10	11	$ 0.29	$ 321	0.67	0.23	37.43	2.94
1	119	Wall 2x4 R-0 to Blow-In R-13 Insulation	SF Low Income	6%	6%	$ 887	3,585	3,385	3,034	30	4	4	5	$ 0.38	$ 429	0.50	0.17	49.99	2.94
1	120	Self Install Weatherization	SF Low Income	2%	2%	$ 5	3,428	3,360	3,011	10	17	15	18	$ 0.01	$ 14	17.49	7.25	0.90	2.94
1	121	Infiltration Reduction	SF Low Income	20%	20%	$ 95	3,619	2,895	2,595	10	203	182	217	$ 0.02	$ 24	10.55	4.38	1.48	2.94
1	130	Base Early Replacement 10 SEER Split-System AC	SF Low Income	0%	0%	$ -	4,403	4,403	3,947	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	131	15 SEER Split-System AC Early Replacement	SF Low Income	20%	20%	$ 514	4,403	3,513	3,149	18	63	57	67	$ 0.06	$ 67	3.69	1.29	6.52	2.94
1	140	Base Room Air Conditioner - EER 9.7	SF Low Income	0%	0%	$ -	2,095	2,095	1,877	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	142	HE Room Air Conditioner - CEE Tier 1 EER 11.3	SF Low Income	14%	14%	$ 83	2,098	1,801	1,614	12	8	7	9	$ 0.04	$ 42	5.86	2.33	3.15	2.94
1	143	Ceiling Fans	SF Low Income	5%	5%	$ 377	2,129	2,022	1,813	15	2	2	2	$ 0.41	$ 457	0.54	0.20	39.96	2.94
1	144	Whole House Fans	SF Low Income	20%	20%	$ 243	2,167	1,734	1,554	10	1	1	1	$ 0.09	$ 101	2.47	1.03	6.33	2.94
1	145	Single Pane Windows to Double Pane with Gas	SF Low Income	16%	16%	$ 333	2,316	1,946	1,744	25	4	4	4	$ 0.08	$ 92	2.48	0.84	10.14	2.94
1	146	Double Pane with Glazing to Energy Star	SF Low Income	6%	6%	$ 348	2,159	2,029	1,819	25	2	2	2	$ 0.25	$ 275	0.83	0.28	30.37	2.94
1	147	Ceiling R-0 to R-38 Insulation	SF Low Income	25%	25%	$ 1,593	2,764	2,070	1,855	30	0	0	0	$ 0.20	$ 222	0.97	0.33	25.89	2.94
1	148	Ceiling R-11 to R-38 Insulaton	SF Low Income	9%	9%	$ 1,460	2,260	2,068	1,853	30	0	0	0	$ 0.66	$ 736	0.29	0.10	85.79	2.94
1	149	Ceiling R-19 to R-38 Insulation	SF Low Income	4%	4%	$ 979	2,157	2,081	1,865	30	0	0	0	$ 1.11	$ 1,243	0.17	0.06	144.85	2.94
1	150	Ceiling R-0 to R-49 Insulation	SF Low Income	27%	27%	$ 2,157	2,815	2,068	1,853	30	0	0	0	$ 0.25	$ 280	0.77	0.26	32.58	2.94
1	151	Ceiling R-19 to R-49 Insulation	SF Low Income	5%	5%	$ 1,211	2,191	2,074	1,859	30	0	0	0	$ 0.89	$ 998	0.22	0.07	116.29	2.94
1	152	Ceiling R-11 to R-49 Insulation	SF Low Income	10%	10%	$ 1,261	2,296	2,062	1,848	30	0	0	0	$ 0.47	$ 521	0.41	0.14	60.79	2.94
1	153	Wall 2x4 R-0 to Blow-In R-13 Insulation	SF Low Income	6%	6%	$ 887	2,207	2,084	1,868	30	0	0	0	$ 0.62	$ 697	0.31	0.11	81.19	2.94
1	154	Self Install Weatherization	SF Low Income	2%	2%	$ 5	2,111	2,069	1,854	10	1	1	1	$ 0.02	$ 23	10.77	4.47	1.45	2.94
1	155	Infiltration Reduction	SF Low Income	6%	6%	$ 95	2,136	1,999	1,792	10	3	2	3	$ 0.11	$ 125	1.99	0.83	7.86	2.94
1	156	Ductless Split Heat Pump	SF Low Income	33%	33%	$ 239	2,102	1,404	1,258	18	1	1	1	$ 0.04	$ 40	6.23	2.18	3.86	2.94
1	160	Base Early Replacement Room Air Conditioner- EER 9.0	SF Low Income	0%	0%	$ -	2,257	2,257	2,023	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	161	EER 8.5 AC Early Replacement, CEE Tier 1 EER 11.3	SF Low Income	18%	18%	$ 106	2,257	1,846	1,655	12	2	2	2	$ 0.04	$ 39	6.34	2.52	2.91	2.94
1	170	Base Dehumidifier- New Federal Standard	SF Low Income	0%	0%	$ -	1,145	1,145	1,026	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	171	Energy Star Dehumidifier (ROB)	SF Low Income	20%	20%	$ 10	918	734	658	12	27	24	28	$ 0.01	$ 8	29.95	11.91	0.62	2.94
1	180	Base Furnace Fans	SF Low Income	0%	0%	$ -	1,190	1,190	359	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	181	Variable speed furnace fans (RET)	SF Low Income	39%	30%	$ 200	1,201	738	254	18	213	50	61	$ 0.05	$ 192	2.23	1.73	4.87	1.33
1	200	Base Resistance Space Heating	SF Low Income	0%	0%	$ -	21,461	21,461	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Single Pane Windows to Double Pane with Gas	SF Low Income	32%	32%	$ 279	26,533	18,042	0	25	72	0	0	$ 0.00	N/A	17.91	23.04	0.37	0.78
1	202	Double Pane with Glazing to Energy Star	SF Low Income	6%	6%	$ 468	22,117	20,790	0	25	14	0	0	$ 0.03	N/A	1.67	2.15	3.98	0.78
1	203	Single Pane- Add storm windows	SF Low Income	5%	5%	$ 6,346	22,268	21,078	0	25	8	0	0	$ 0.49	N/A	0.11	0.14	60.21	0.78
1	204	Double Pane- Add storm windows	SF Low Income	13%	13%	$ 6,346	23,144	20,056	0	25	29	0	0	$ 0.19	N/A	0.29	0.37	23.20	0.78
1	205	Ceiling R-0 to R-38 Insulation	SF Low Income	24%	24%	$ 1,261	27,902	21,220	0	30	2	0	0	$ 0.02	N/A	3.12	4.01	2.13	0.78
1	206	Ceiling R-11 to R-38 Insulaton	SF Low Income	8%	8%	$ 979	23,009	21,209	0	30	3	0	0	$ 0.05	N/A	1.08	1.39	6.14	0.78
1	207	Ceiling R-19 to R-38 Insulation	SF Low Income	4%	4%	$ 747	22,108	21,321	0	30	2	0	0	$ 0.08	N/A	0.62	0.80	10.71	0.78
1	208	Ceiling R-0 to R-49 Insulation	SF Low Income	25%	25%	$ 1,527	28,133	21,212	0	30	2	0	0	$ 0.02	N/A	2.67	3.43	2.49	0.78
1	209	Ceiling R-19 to R-49 Insulation	SF Low Income	4%	4%	$ 1,045	22,264	21,287	0	30	2	0	0	$ 0.09	N/A	0.55	0.71	12.08	0.78
1	210	Ceiling R-11 to R-49 Insulation	SF Low Income	9%	9%	$ 996	23,175	21,182	0	30	3	0	0	$ 0.04	N/A	1.18	1.52	5.64	0.78
1	211	Wall Blow-in R-0 to R-13 Insulation	SF Low Income	9%	9%	$ 1,171	23,294	21,245	0	30	3	0	0	$ 0.05	N/A	1.03	1.33	6.45	0.78
1	212	Floor R-0 to R-19 Insulation	SF Low Income	10%	10%	$ 1,757	21,528	19,375	0	30	8	0	0	$ 0.07	N/A	0.72	0.93	9.22	0.78
1	213	Basement Insulation	SF Low Income	35%	35%	$ 911	24,064	15,667	0	30	40	0	0	$ 0.01	N/A	5.43	6.98	1.22	0.78
1	214	Programmable Thermostat	SF Low Income	7%	6%	$ 112	22,473	20,899	0	10	12	0	0	$ 0.01	N/A	5.13	8.06	0.81	0.78
1	215	Infiltration Reduction	SF Low Income	10%	10%	$ 177	22,111	19,944	0	10	32	0	0	$ 0.01	N/A	4.49	7.05	0.92	0.78
1	216	Self Install Weatherization	SF Low Income	2%	2%	$ 5	21,625	21,193	0	10	6	0	0	$ 0.00	N/A	29.15	45.76	0.14	0.78
1	217	Ductless Split Heat Pump	SF Low Income	60%	60%	$ 5,734	21,591	8,638	0	18	1	0	0	$ 0.05	N/A	1.27	1.69	5.00	0.78
1	220	Base Electric Furnace	SF Low Income	0%	0%	$ -	11,316	11,316	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	221	Single Pane Windows to Double Pane with Gas	SF Low Income	32%	32%	$ 279	13,991	9,514	0	25	146	0	0	$ 0.01	N/A	9.44	12.15	0.70	0.78
1	222	Double Pane with Glazing to Energy Star	SF Low Income	6%	6%	$ 468	11,662	10,962	0	25	29	0	0	$ 0.06	N/A	0.88	1.13	7.54	0.78

DSM ASSYST SUMMARY — Year 2011 — Vintage — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	223	Single Pane- Add storm windows	SF Low Income	5%	5%	$ 6,346	11,741	11,114	0	25	16	0	0	$ 0.93	N/A	0.06	0.07	114.20	0.78
1	224	Double Pane- Add storm windows	SF Low Income	13%	13%	$ 6,346	12,204	10,575	0	25	60	0	0	$ 0.36	N/A	0.15	0.19	44.00	0.78
1	225	Ceiling R-0 to R-38 Insulation	SF Low Income	24%	24%	$ 1,261	14,713	11,189	0	30	3	0	0	$ 0.03	N/A	1.64	2.12	4.04	0.78
1	226	Ceiling R-11 to R-38 Insulaton	SF Low Income	8%	8%	$ 979	12,132	11,183	0	30	5	0	0	$ 0.09	N/A	0.57	0.73	11.64	0.78
1	227	Ceiling R-19 to R-38 Insulation	SF Low Income	4%	4%	$ 747	11,657	11,242	0	30	5	0	0	$ 0.16	N/A	0.33	0.42	20.32	0.78
1	228	Ceiling R-0 to R-49 Insulation	SF Low Income	25%	25%	$ 1,527	14,834	11,185	0	30	4	0	0	$ 0.04	N/A	1.41	1.81	4.72	0.78
1	229	Ceiling R-19 to R-49 Insulation	SF Low Income	4%	4%	$ 1,045	11,740	11,224	0	30	4	0	0	$ 0.18	N/A	0.29	0.37	22.90	0.78
1	230	Ceiling R-11 to R-49 Insulation	SF Low Income	9%	9%	$ 996	12,220	11,169	0	30	6	0	0	$ 0.08	N/A	0.62	0.80	10.69	0.78
1	231	Wall Blow-in R-0 to R-13 Insulation	SF Low Income	9%	9%	$ 1,171	12,282	11,202	0	30	6	0	0	$ 0.09	N/A	0.54	0.70	12.24	0.78
1	232	Floor R-0 to R-19 Insulation	SF Low Income	10%	10%	$ 2,152	11,351	10,216	0	30	17	0	0	$ 0.16	N/A	0.31	0.40	21.40	0.78
1	233	Basement Insulation	SF Low Income	35%	35%	$ 911	12,689	8,261	0	30	82	0	0	$ 0.02	N/A	2.86	3.68	2.32	0.78
1	234	Programmable Thermostat	SF Low Income	7%	6%	$ 112	11,850	11,020	0	10	24	0	0	$ 0.02	N/A	2.71	4.25	1.53	0.78
1	235	Infiltration Reduction	SF Low Income	10%	10%	$ 177	11,659	10,516	0	10	65	0	0	$ 0.02	N/A	2.37	3.72	1.75	0.78
1	236	Self Install Weatherization	SF Low Income	2%	2%	$ 5	11,403	11,175	0	10	11	0	0	$ 0.00	N/A	15.37	24.13	0.27	0.78
1	237	Ductless Split Heat Pump	SF Low Income	60%	60%	$ 5,734	11,384	4,555	0	18	28	0	0	$ 0.09	N/A	0.67	0.89	9.48	0.78
1	250	Base Lighting 60-Watt incandescent, 1.8 hr/hday	SF Low Income	0%	0%	$ -	1,644	1,644	107	2	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	251	CFL (15-Watt integral ballast), 1.8 hr/day	SF Low Income	75%	75%	$ 47	1,644	411	27	12	602	39	138	$ 0.01	$ 78	15.25	17.45	0.42	1.02
1	252	LEDs w/ Incandescent Baseline	SF Low Income	90%	90%	$ 335	1,659	166	11	53	802	52	184	$ 0.02	$ 271	3.47	3.39	2.52	1.02
1	255	Base Lighting 15 Watt CFL, 1.8 hours per day	SF Low Income	0%	0%	$ -	185	185	12	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	256	LEDs w/ CFL Baseline	SF Low Income	60%	60%	$ 112	186	74	5	53	60	4	14	$ 0.08	$ 1,211	0.77	0.76	11.28	1.02
1	260	Base Lighting Fluorescent Tube, 1.8 hrs/day	SF Low Income	0%	0%	$ -	89	89	6	68	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	261	RET 2L4'T8, 1EB	SF Low Income	28%	28%	$ 358	94	68	4	107	11	1	3	$ 1.06	$ 16,237	0.06	0.06	154.10	1.02
1	262	ROB 2L4'T8, 1EB	SF Low Income	28%	28%	$ 48	94	68	4	107	11	1	3	$ 0.14	$ 2,165	0.43	0.42	20.55	1.02
1	265	Base Lighting Halogen and HID, 1.8 hrs/day	SF Low Income	0%	0%	$ -	125	125	8	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	266	LEDs w/ Halogen Baseline	SF Low Income	92%	92%	$ 71	125	10	1	24	63	4	14	$ 0.06	$ 866	1.28	1.25	6.85	1.02
1	300	Base Refrigerator	SF Low Income	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	301	HE Refrigerator - Energy Star	SF Low Income	20%	20%	$ 97	558	446	43	12	51	5	7	$ 0.12	$ 1,236	0.69	0.75	9.77	1.07
1	302	HE Refrigerator - CEE tier 2	SF Low Income	25%	25%	$ 219	558	419	40	12	64	6	8	$ 0.21	$ 2,239	0.38	0.41	17.70	1.07
1	310	Base Early Replacement Refrigerator	SF Low Income	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	311	Refrigerator - Early Replacement to 2008 Energy Star	SF Low Income	28%	28%	$ 250	773	560	54	5	17	2	2	$ 0.33	$ 3,490	0.24	0.32	13.19	1.07
1	340	Base Second Refrigerator	SF Low Income	0%	0%	$ -	852	852	81	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	341	Second Refrigerator Recycling	SF Low Income	100%	100%	$ 125	852	1	0	5	68	7	9	$ 0.04	$ 439	1.93	2.51	1.66	1.07
1	400	Base Freezer	SF Low Income	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Energy Star Freezer	SF Low Income	15%	15%	$ 60	614	522	51	12	14	1	2	$ 0.09	$ 914	0.92	1.00	7.35	1.08
1	410	Base Early Replacement Freezer	SF Low Income	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Early Replacement Freezer to 2008 Energy Star	SF Low Income	15%	15%	$ 75	591	501	49	12	4	0	0	$ 0.11	$ 1,176	0.71	0.77	9.46	1.08
1	500	Base 40 gal. Water Heating (EF=0.88)	SF Low Income	0%	0%	$ -	4,860	4,860	348	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Heat Pump Water Heater (EF=2.5)	SF Low Income	65%	65%	$ 1,411	4,891	1,722	123	12	114	8	10	$ 0.06	$ 849	1.26	1.46	5.02	1.01
1	502	HE Water Heater (EF=0.93)	SF Low Income	5%	5%	$ 72	4,860	4,597	329	10	38	3	3	$ 0.04	$ 618	1.73	2.09	3.11	1.01
1	503	Low Flow Showerhead	SF Low Income	7%	8%	$ 53	5,066	4,686	336	5	25	2	2	$ 0.04	$ 554	1.93	2.65	1.57	1.01
1	504	Pipe Wrap	SF Low Income	3%	3%	$ 3	4,935	4,787	343	15	9	1	1	$ 0.00	$ 32	33.15	35.76	0.23	1.01
1	505	Faucet Aerators	SF Low Income	3%	3%	$ 25	4,890	4,743	340	5	17	1	2	$ 0.05	$ 678	1.58	2.17	1.92	1.01
1	506	2011 Energy Star Clotheswasher (MEF 2.00)	SF Low Income	3%	3%	$ 166	4,860	4,708	457	11	22	2	2	$ 0.16	$ 1,661	0.53	0.56	12.37	1.13
1	507	Tier 3 CW (MEF=2.20)	SF Low Income	3%	3%	$ 393	4,861	4,703	457	11	22	2	2	$ 0.36	$ 3,756	0.23	0.25	27.97	1.13
1	508	Energy Star Dishwasher (EF=0.68)	SF Low Income	2%	2%	$ 143	4,860	4,756	495	11	8	1	1	$ 0.20	$ 1,954	0.43	0.45	15.58	1.15
1	509	CEE Tier 2 DW (EF=0.72)	SF Low Income	2%	2%	$ 223	4,861	4,745	494	11	9	1	1	$ 0.28	$ 2,720	0.31	0.32	21.69	1.15
1	510	Solar Water Heater	SF Low Income	50%	50%	$ 3,500	4,884	2,442	159	15	352	23	81	$ 0.17	$ 2,543	0.47	0.50	16.18	1.02
1	550	Base Early Replacement Water Heating to Heat Pump Water Heater	SF Low Income	0%	0%	$ -	4,860	4,860	348	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	551	Early Replacement Water Heating to Heat Pump Water Heater	SF Low Income	64%	64%	$ 1,374	4,860	1,770	127	10	2	0	0	$ 0.07	$ 998	1.07	1.29	5.02	1.01
1	600	Base Clotheswasher (MEF=1.26)	SF Low Income	0%	0%	$ -	87	87	8	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	601	Energy Star Clotheswasher (MEF 2.00)	SF Low Income	29%	29%	$ 129	87	61	6	11	14	1	1	$ 0.74	$ 7,644	0.11	0.12	56.93	1.13
1	602	Tier 3 CW (MEF=2.20)	SF Low Income	32%	32%	$ 175	87	59	6	11	15	1	1	$ 0.93	$ 9,599	0.09	0.10	71.49	1.13
1	700	Base Clothes Dryer (EF=3.01)	SF Low Income	0%	0%	$ -	835	835	77	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	710	High Efficiency CD (EF=3.01 w/moisture sensor)	SF Low Income	15%	15%	$ 238	895	761	70	12	32	3	4	$ 0.24	$ 2,622	0.35	0.37	20.03	1.12
1	711	Heat Pump Dryer	SF Low Income	60%	60%	$ 1,681	840	336	31	12	216	20	24	$ 0.46	$ 4,929	0.19	0.19	37.65	1.12
1	800	Base Dishwasher (EF=0.65)	SF Low Income	0%	0%	$ 293	174	174	18	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	900	Base Single Speed Pool Pump (RET)	SF Low Income	0%	0%	$ 630	884	884	69	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	905	Base Two Speed Pool Pump (1.5 hp) (ROB)	SF Low Income	0%	0%	$ -	384	384	30	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Plasma Screen TV	SF Low Income	0%	0%	$ -	1,018	1,018	92	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	920	Base LCD Screen TV	SF Low Income	0%	0%	$ -	495	495	45	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	921	Energy Star LCD TV	SF Low Income	30%	30%	$ 4	593	415	37	6	2	0	1	$ 0.00	$ 54	17.03	20.98	0.23	1.10
1	922	TV Occupancy Sensor Power Strip	SF Low Income	3%	3%	$ 304	495	480	43	8	0	0	0	$ 3.86	$ 42,692	0.02	0.03	229.79	1.10
1	930	Base Other TV	SF Low Income	0%	0%	$ -	127	127	12	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	931	Energy Star LCD TV	SF Low Income	40%	40%	$ 4	127	76	7	6	24	2	8	$ 0.02	$ 188	4.88	6.01	0.79	1.10
1	932	TV Occupancy Sensor Power Strip	SF Low Income	6%	6%	$ 304	127	120	11	8	3	0	1	$ 7.71	$ 85,360	0.01	0.01	459.45	1.10
1	940	Base Laptop Computer	SF Low Income	0%	0%	$ -	183	183	17	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	941	Energy Star Laptop Computer	SF Low Income	13%	13%	$ 2	195	169	15	4	4	0	1	$ 0.02	$ 270	3.41	4.44	0.79	1.10
1	945	Base Desktop Computer	SF Low Income	0%	0%	$ -	737	737	67	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	946	Energy Star Desktop Computer	SF Low Income	18%	18%	$ 2	808	664	60	4	19	2	6	$ 0.00	$ 49	18.86	24.57	0.14	1.10
1	950	Base Cooking	SF Low Income	0%	0%	$ -	340	340	65	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	960	Base Miscellaneous	SF Low Income	0%	0%	$ -	1,538	1,538	121	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A

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Vintage Batch Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	962	Plug Load Controls - Smart Power Strip	SF Low Income	2%	2%	$ 25	1,539	1,508	119	5	17	1	3	$ 0.23	$ 2,946	0.33	0.45	9.17	1.02
1	970	Base House Practices	SF Low Income	0%	0%	$ -	14,916	14,916	2,904	1	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	971	Indirect Feedback	SF Low Income	2%	2%	$ 7	14,916	14,617	2,846	1	162	32	49	$ 0.03	$ 156	3.30	3.90	0.26	1.33
1	100	Base, 13 SEER Split-System Air Conditioner	MF Low Income	0%	0%	$ -	2,424	2,424	2,173	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	101	15 SEER Split-System Air Conditioner	MF Low Income	13%	13%	$ 313	2,029	1,759	1,576	18	27	25	29	$ 0.12	$ 135	1.84	0.65	13.07	2.94
1	102	17 SEER Split-System Air Conditioner	MF Low Income	24%	24%	$ 750	2,000	1,529	1,371	18	54	48	57	$ 0.17	$ 186	1.34	0.47	17.99	2.94
1	103	Programmable Thermostat	MF Low Income	2%	2%	$ 38	2,456	2,406	2,161	10	2	2	2	$ 0.12	$ 155	1.65	0.74	8.77	2.71
1	104	Ceiling Fans	MF Low Income	5%	5%	$ 377	2,463	2,340	2,098	15	10	9	10	$ 0.35	$ 395	0.63	0.23	34.53	2.94
1	107	Proper Refrigerant Charging and Air Flow	MF Low Income	9%	9%	$ 85	2,500	2,270	2,034	10	18	16	19	$ 0.06	$ 66	3.77	1.56	4.16	2.94
1	108	Duct Repair	MF Low Income	8%	8%	$ 239	2,433	2,245	2,012	18	21	19	22	$ 0.13	$ 148	1.68	0.59	14.31	2.94
1	109	Duct Insulation	MF Low Income	4%	4%	$ 108	2,448	2,350	2,106	18	9	8	9	$ 0.12	$ 129	1.93	0.68	12.47	2.94
1	110	AC maintenance and repair	MF Low Income	4%	4%	$ 125	2,462	2,364	2,119	5	7	6	7	$ 0.36	$ 405	0.61	0.29	14.33	2.94
1	111	Single Pane Windows to Double Pane with Gas	MF Low Income	16%	16%	$ 83	2,665	2,238	2,006	25	21	19	23	$ 0.02	$ 20	11.41	3.88	2.21	2.94
1	112	Double Pane with Glazing to Energy Star	MF Low Income	6%	6%	$ 87	2,505	2,355	2,111	25	8	7	9	$ 0.05	$ 59	3.84	1.31	6.55	2.94
1	114	Ceiling R-0 to R-38 Insulation	MF Low Income	25%	25%	$ 559	3,199	2,395	2,147	30	0	0	0	$ 0.06	$ 67	3.21	1.09	7.85	2.94
1	115	Ceiling R-11 to R-38 Insulaton	MF Low Income	9%	4%	$ 512	2,615	2,393	2,261	30	1	0	1	$ 0.20	$ 536	0.97	0.33	26.01	2.94
1	115	Ceiling R-11 to R-38 Insulaton	MF Low Income	9%	4%	$ 512	2,615	2,393	2,261	30	1	0	1	$ 0.20	$ 536	0.97	0.33	26.01	2.94
1	116	Ceiling R-0 to R-49 Insulation	MF Low Income	27%	27%	$ 757	3,258	2,393	2,145	30	0	0	0	$ 0.08	$ 85	2.55	0.87	9.88	2.94
1	117	Ceiling R-19 to R-49 Insulation	MF Low Income	5%	5%	$ 425	2,536	2,400	2,151	30	1	0	1	$ 0.27	$ 303	0.71	0.24	35.26	2.94
1	118	Ceiling R-11 to R-49 Insulation	MF Low Income	10%	10%	$ 442	2,657	2,386	2,139	30	1	1	1	$ 0.14	$ 158	1.37	0.46	18.43	2.94
1	119	Wall 2x4 R-0 to Blow-In R-13 Insulation	MF Low Income	6%	6%	$ 300	2,550	2,407	2,158	30	1	1	1	$ 0.18	$ 204	1.06	0.36	23.82	2.94
1	120	Self Install Weatherization	MF Low Income	2%	2%	$ 5	2,443	2,394	2,145	10	4	3	4	$ 0.02	$ 20	12.46	5.17	1.26	2.94
1	121	Infiltration Reduction	MF Low Income	20%	20%	$ 41	2,579	2,063	1,849	10	42	37	44	$ 0.01	$ 14	17.52	7.27	0.89	2.94
1	130	Base Early Replacement 10 SEER Split-System AC	MF Low Income	0%	0%	$ -	3,138	3,138	2,812	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	131	15 SEER Split-System AC Early Replacement	MF Low Income	20%	20%	$ 344	3,138	2,503	2,243	18	16	14	17	$ 0.06	$ 63	3.93	1.38	6.13	2.94
1	140	Base Room Air Conditioner - EER 9.7	MF Low Income	0%	0%	$ -	1,744	1,744	1,564	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	142	HE Room Air Conditioner - CEE Tier 1 EER 11.3	MF Low Income	14%	14%	$ 69	1,747	1,500	1,344	12	3	3	3	$ 0.04	$ 42	5.86	2.33	3.15	2.94
1	143	Ceiling Fans	MF Low Income	5%	5%	$ 377	1,773	1,684	1,509	15	1	1	1	$ 0.49	$ 549	0.45	0.17	47.99	2.94
1	145	Single Pane Windows to Double Pane with Gas	MF Low Income	16%	16%	$ 83	1,918	1,611	1,444	25	2	1	2	$ 0.02	$ 28	8.21	2.79	3.06	2.94
1	146	Double Pane with Glazing to Energy Star	MF Low Income	6%	6%	$ 87	1,803	1,695	1,519	25	1	1	1	$ 0.07	$ 83	2.77	0.94	9.10	2.94
1	147	Ceiling R-0 to R-38 Insulation	MF Low Income	25%	25%	$ 559	2,302	1,724	1,545	30	0	0	0	$ 0.08	$ 94	2.31	0.78	10.91	2.94
1	148	Ceiling R-11 to R-38 Insulaton	MF Low Income	9%	9%	$ 512	1,882	1,722	1,543	30	0	0	0	$ 0.28	$ 310	0.70	0.24	36.15	2.94
1	149	Ceiling R-19 to R-38 Insulation	MF Low Income	4%	4%	$ 343	1,797	1,733	1,553	30	0	0	0	$ 0.47	$ 524	0.41	0.14	61.03	2.94
1	150	Ceiling R-0 to R-49 Insulation	MF Low Income	27%	27%	$ 757	2,344	1,722	1,543	30	0	0	0	$ 0.11	$ 118	1.83	0.62	13.73	2.94
1	151	Ceiling R-19 to R-49 Insulation	MF Low Income	5%	5%	$ 425	1,825	1,727	1,548	30	0	0	0	$ 0.38	$ 420	0.51	0.17	49.00	2.94
1	152	Ceiling R-11 to R-49 Insulation	MF Low Income	10%	10%	$ 442	1,912	1,717	1,539	30	0	0	0	$ 0.20	$ 220	0.98	0.33	25.61	2.94
1	153	Wall 2x4 R-0 to Blow-In R-13 Insulation	MF Low Income	6%	6%	$ 300	1,835	1,732	1,553	30	0	0	0	$ 0.25	$ 284	0.76	0.26	33.10	2.94
1	154	Self Install Weatherization	MF Low Income	2%	2%	$ 5	1,758	1,723	1,544	10	0	0	0	$ 0.02	$ 28	8.97	3.72	1.75	2.94
1	155	Infiltration Reduction	MF Low Income	6%	6%	$ 41	1,779	1,665	1,492	10	1	1	1	$ 0.06	$ 64	3.87	1.60	4.05	2.94
1	156	Ductless Split Heat Pump	MF Low Income	33%	33%	$ 160	1,750	1,169	1,048	18	0	0	0	$ 0.03	$ 32	7.75	2.71	3.11	2.94
1	160	Base Early Replacement Room Air Conditioner- EER 9.0	MF Low Income	0%	0%	$ -	1,879	1,879	1,685	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	161	EER 8.5 AC Early Replacement, CEE Tier 1 EER 11.3	MF Low Income	18%	18%	$ 88	1,879	1,537	1,378	12	1	1	1	$ 0.04	$ 39	6.34	2.52	2.91	2.94
1	170	Base Dehumidifier- New Federal Standard	MF Low Income	0%	0%	$ -	1,145	1,145	1,026	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	171	Energy Star Dehumidifier (ROB)	MF Low Income	20%	20%	$ 10	918	734	658	12	4	3	4	$ 0.01	$ 8	29.95	11.91	0.62	2.94
1	180	Base Furnace Fans	MF Low Income	0%	0%	$ -	1,190	1,190	359	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	181	Variable speed furnace fans (RET)	MF Low Income	39%	30%	$ 200	1,201	738	254	18	62	15	18	$ 0.05	$ 192	2.23	1.73	4.87	1.33
1	200	Base Resistance Space Heating	MF Low Income	0%	0%	$ -	9,214	9,214	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Single Pane Windows to Double Pane with Gas	MF Low Income	32%	32%	$ 70	11,244	7,646	0	25	10	0	0	$ 0.00	N/A	30.34	39.03	0.22	0.78
1	202	Double Pane with Glazing to Energy Star	MF Low Income	6%	6%	$ 117	9,523	8,952	0	25	2	0	0	$ 0.02	N/A	2.88	3.70	2.31	0.78
1	203	Single Pane- Add storm windows	MF Low Income	5%	5%	$ 1,588	9,547	9,037	0	25	1	0	0	$ 0.29	N/A	0.19	0.24	35.14	0.78
1	204	Double Pane- Add storm windows	MF Low Income	13%	13%	$ 1,588	9,996	8,662	0	25	3	0	0	$ 0.11	N/A	0.49	0.64	13.44	0.78
1	205	Ceiling R-0 to R-38 Insulation	MF Low Income	24%	24%	$ 442	11,980	9,111	0	30	0	0	0	$ 0.01	N/A	3.82	4.91	1.74	0.78
1	206	Ceiling R-11 to R-38 Insulaton	MF Low Income	8%	8%	$ 343	9,879	9,106	0	30	0	0	0	$ 0.04	N/A	1.32	1.70	5.02	0.78
1	207	Ceiling R-19 to R-38 Insulation	MF Low Income	4%	4%	$ 262	9,492	9,154	0	30	0	0	0	$ 0.07	N/A	0.76	0.98	8.76	0.78
1	208	Ceiling R-0 to R-49 Insulation	MF Low Income	25%	25%	$ 536	12,079	9,107	0	30	0	0	0	$ 0.02	N/A	3.27	4.20	2.03	0.78
1	209	Ceiling R-19 to R-49 Insulation	MF Low Income	4%	4%	$ 367	9,559	9,140	0	30	0	0	0	$ 0.08	N/A	0.67	0.87	9.87	0.78
1	210	Ceiling R-11 to R-49 Insulation	MF Low Income	9%	9%	$ 349	9,950	9,095	0	30	0	0	0	$ 0.04	N/A	1.44	1.86	4.61	0.78
1	211	Wall Blow-in R-0 to R-13 Insulation	MF Low Income	9%	9%	$ 397	9,912	9,040	0	30	1	0	0	$ 0.04	N/A	1.29	1.66	5.14	0.78
1	212	Floor R-0 to R-19 Insulation	MF Low Income	10%	10%	$ 734	9,649	8,684	0	30	0	0	0	$ 0.07	N/A	0.77	1.00	8.59	0.78
1	213	Basement Insulation	MF Low Income	35%	35%	$ 499	10,332	6,727	0	30	1	0	0	$ 0.01	N/A	4.25	5.47	1.56	0.78
1	214	Programmable Thermostat	MF Low Income	7%	6%	$ 112	9,649	8,973	0	10	1	0	0	$ 0.03	N/A	2.20	3.46	1.88	0.78
1	215	Infiltration Reduction	MF Low Income	10%	10%	$ 76	9,494	8,563	0	10	4	0	0	$ 0.01	N/A	4.50	7.06	0.92	0.78
1	216	Self Install Weatherization	MF Low Income	2%	2%	$ 5	9,285	9,099	0	10	1	0	0	$ 0.00	N/A	12.51	19.65	0.33	0.78
1	217	Ductless Split Heat Pump	MF Low Income	60%	60%	$ 5,734	9,270	3,709	0	18	0	0	0	$ 0.11	N/A	0.55	0.72	11.64	0.78
1	220	Base Electric Furnace	MF Low Income	0%	0%	$ -	7,618	7,618	0	18	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	221	Single Pane Windows to Double Pane with Gas	MF Low Income	32%	32%	$ 70	9,296	6,321	0	25	31	0	0	$ 0.00	N/A	25.08	32.26	0.27	0.78
1	222	Double Pane with Glazing to Energy Star	MF Low Income	6%	6%	$ 117	7,873	7,400	0	25	5	0	0	$ 0.02	N/A	2.38	3.06	2.80	0.78
1	223	Single Pane- Add storm windows	MF Low Income	5%	5%	$ 1,588	7,892	7,471	0	25	3	0	0	$ 0.35	N/A	0.16	0.20	42.51	0.78
1	224	Double Pane- Add storm windows	MF Low Income	13%	13%	$ 1,588	8,264	7,161	0	25	11	0	0	$ 0.13	N/A	0.41	0.53	16.26	0.78
1	225	Ceiling R-0 to R-38 Insulation	MF Low Income	24%	24%	$ 442	9,904	7,532	0	30	0	0	0	$ 0.02	N/A	3.16	4.06	2.11	0.78
1	226	Ceiling R-11 to R-38 Insulaton	MF Low Income	8%	8%	$ 343	8,167	7,528	0	30	0	0	0	$ 0.05	N/A	1.10	1.41	6.07	0.78

DSM ASSYST SUMMARY						Year	2011													
Vintage Batch Segment	1 Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	227	Ceiling R-19 to R-38 Insulation	MF Low Income	4%	4%	$ 262	7,847	7,568	0	30	0	0	0	$ 0.08	N/A	0.63	0.81	10.59	0.78
1	228	Ceiling R-0 to R-49 Insulation	MF Low Income	25%	25%	$ 536	9,986	7,529	0	30	0	0	0	$ 0.02	N/A	2.70	3.47	2.46	0.78
1	229	Ceiling R-19 to R-49 Insulation	MF Low Income	4%	4%	$ 367	7,903	7,556	0	30	0	0	0	$ 0.09	N/A	0.56	0.72	11.94	0.78
1	230	Ceiling R-11 to R-49 Insulation	MF Low Income	9%	9%	$ 349	8,226	7,519	0	30	0	0	0	$ 0.04	N/A	1.19	1.53	5.57	0.78
1	231	Wall Blow-in R-0 to R-13 Insulation	MF Low Income	9%	9%	$ 397	8,194	7,473	0	30	2	0	0	$ 0.05	N/A	1.07	1.38	6.22	0.78
1	232	Floor R-0 to R-19 Insulation	MF Low Income	10%	10%	$ 899	7,977	7,179	0	30	1	0	0	$ 0.10	N/A	0.52	0.67	12.72	0.78
1	233	Basement Insulation	MF Low Income	35%	35%	$ 499	8,542	5,561	0	30	2	0	0	$ 0.01	N/A	3.52	4.52	1.89	0.78
1	234	Programmable Thermostat	MF Low Income	7%	6%	$ 112	7,977	7,418	0	10	5	0	0	$ 0.03	N/A	1.82	2.86	2.27	0.78
1	235	Infiltration Reduction	MF Low Income	10%	10%	$ 76	7,848	7,079	0	10	13	0	0	$ 0.02	N/A	3.72	5.84	1.11	0.78
1	236	Self Install Weatherization	MF Low Income	2%	2%	$ 5	7,676	7,522	0	10	2	0	0	$ 0.01	N/A	10.35	16.24	0.40	0.78
1	237	Ductless Split Heat Pump	MF Low Income	60%	60%	$ 5,734	7,664	3,066	0	18	8	0	0	$ 0.13	N/A	0.45	0.60	14.08	0.78
1	250	Base Lighting 60-Watt incandescent, 1.8 hr/hday	MF Low Income	0%	0%	$ -	925	925	60	2	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	251	CFL (15-Watt integral ballast), 1.8 hr/day	MF Low Income	75%	75%	$ 26	925	231	15	12	99	6	23	$ 0.01	$ 78	15.25	17.45	0.42	1.02
1	252	LEDs w/ Incandescent Baseline	MF Low Income	90%	90%	$ 188	933	93	6	53	132	9	30	$ 0.02	$ 271	3.47	3.39	2.52	1.02
1	255	Base Lighting 15 Watt CFL, 1.8 hours per day	MF Low Income	0%	0%	$ -	104	104	7	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	256	LEDs w/ CFL Baseline	MF Low Income	60%	60%	$ 63	105	42	3	53	10	1	2	$ 0.08	$ 1,211	0.77	0.76	11.28	1.02
1	260	Base Lighting Fluorescent Tube, 1.8 hrs/day	MF Low Income	0%	0%	$ -	50	50	3	68	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	261	RET 2L4'T8, 1EB	MF Low Income	28%	28%	$ 201	53	38	2	107	2	0	0	$ 1.06	$ 16,237	0.06	0.06	154.10	1.02
1	262	ROB 2L4'T8, 1EB	MF Low Income	28%	28%	$ 27	53	38	2	107	2	0	0	$ 0.14	$ 2,165	0.43	0.42	20.55	1.02
1	265	Base Lighting Halogen and HID, 1.8 hrs/day	MF Low Income	0%	0%	$ -	70	70	5	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	266	LEDs w/ Halogen Baseline	MF Low Income	92%	92%	$ 40	70	6	0	24	10	1	2	$ 0.06	$ 866	1.28	1.25	6.85	1.02
1	300	Base Refrigerator	MF Low Income	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	301	HE Refrigerator - Energy Star	MF Low Income	20%	20%	$ 85	558	446	43	12	15	1	2	$ 0.10	$ 1,094	0.78	0.85	8.65	1.07
1	302	HE Refrigerator - CEE tier 2	MF Low Income	25%	25%	$ 194	558	419	40	12	19	2	2	$ 0.19	$ 1,981	0.43	0.47	15.67	1.07
1	310	Base Early Replacement Refrigerator	MF Low Income	0%	0%	$ -	773	773	74	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	311	Refrigerator - Early Replacement to 2008 Energy Star	MF Low Income	28%	28%	$ 221	773	560	54	5	5	0	1	$ 0.30	$ 3,088	0.27	0.36	11.67	1.07
1	340	Base Second Refrigerator	MF Low Income	0%	0%	$ -	852	852	81	5	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	341	Second Refrigerator Recycling	MF Low Income	100%	100%	$ 125	852	1	0	5	7	1	1	$ 0.04	$ 439	1.93	2.51	1.66	1.07
1	400	Base Freezer	MF Low Income	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Energy Star Freezer	MF Low Income	15%	15%	$ 60	614	522	51	12	1	0	0	$ 0.09	$ 914	0.92	1.00	7.35	1.08
1	410	Base Early Replacement Freezer	MF Low Income	0%	0%	$ -	591	591	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Early Replacement Freezer to 2008 Energy Star	MF Low Income	15%	15%	$ 75	591	501	49	12	0	0	0	$ 0.11	$ 1,176	0.71	0.77	9.46	1.08
1	500	Base 40 gal. Water Heating (EF=0.88)	MF Low Income	0%	0%	$ -	3,710	3,710	266	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Heat Pump Water Heater (EF=2.5)	MF Low Income	65%	65%	$ 1,411	3,734	1,314	94	12	27	2	3	$ 0.08	$ 1,112	0.96	1.11	6.58	1.01
1	502	HE Water Heater (EF=0.93)	MF Low Income	5%	5%	$ 72	3,710	3,509	251	10	9	1	1	$ 0.06	$ 810	1.32	1.59	4.07	1.01
1	503	Low Flow Showerhead	MF Low Income	7%	8%	$ 46	3,868	3,577	256	5	6	0	1	$ 0.05	$ 631	1.70	2.33	1.79	1.01
1	504	Pipe Wrap	MF Low Income	3%	3%	$ 3	3,767	3,654	262	15	2	0	0	$ 0.00	$ 42	25.31	27.30	0.30	1.01
1	505	Faucet Aerators	MF Low Income	3%	3%	$ 22	3,746	3,633	260	5	3	0	0	$ 0.06	$ 784	1.37	1.87	2.22	1.01
1	506	2011 Energy Star Clotheswasher (MEF 2.00)	MF Low Income	4%	4%	$ 166	3,710	3,558	346	11	5	0	0	$ 0.16	$ 1,661	0.53	0.56	12.37	1.13
1	507	Tier 3 CW (MEF=2.20)	MF Low Income	4%	4%	$ 393	3,711	3,553	345	11	5	0	0	$ 0.36	$ 3,755	0.23	0.25	27.97	1.13
1	508	Energy Star Dishwasher (EF=0.68)	MF Low Income	2%	2%	$ 143	3,710	3,630	378	11	1	0	0	$ 0.27	$ 2,559	0.33	0.34	20.41	1.15
1	509	CEE Tier 2 DW (EF=0.72)	MF Low Income	2%	2%	$ 223	3,711	3,622	377	11	1	0	0	$ 0.37	$ 3,563	0.23	0.24	28.41	1.15
1	510	Solar Water Heater	MF Low Income	50%	50%	$ 3,500	3,728	1,864	122	15	84	6	19	$ 0.22	$ 3,332	0.36	0.38	21.20	1.02
1	550	Base Early Replacement Water Heating to Heat Pump Water Heater	MF Low Income	0%	0%	$ -	3,710	3,710	266	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	551	Early Replacement Water Heating to Heat Pump Water Heater	MF Low Income	64%	64%	$ 1,374	3,710	1,351	97	10	1	0	0	$ 0.09	$ 1,307	0.82	0.99	6.58	1.01
1	600	Base Clotheswasher (MEF=1.26)	MF Low Income	0%	0%	$ -	87	87	8	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	601	Energy Star Clotheswasher (MEF 2.00)	MF Low Income	29%	29%	$ 129	87	61	6	11	3	0	0	$ 0.74	$ 7,644	0.11	0.12	56.93	1.13
1	602	Tier 3 CW (MEF=2.20)	MF Low Income	32%	32%	$ 175	87	59	6	11	3	0	0	$ 0.93	$ 9,599	0.09	0.10	71.49	1.13
1	700	Base Clothes Dryer (EF=3.01)	MF Low Income	0%	0%	$ -	627	627	58	12	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	710	High Efficiency CD (EF=3.01 w/moisture sensor)	MF Low Income	15%	15%	$ 238	673	572	53	12	5	0	1	$ 0.32	$ 3,485	0.26	0.28	26.62	1.12
1	711	Heat Pump Dryer	MF Low Income	60%	60%	$ 1,681	631	252	23	12	34	3	4	$ 0.61	$ 6,566	0.14	0.15	50.15	1.12
1	800	Base Dishwasher (EF=0.65)	MF Low Income	0%	0%	$ 293	174	174	18	11	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	900	Base Single Speed Pool Pump (RET)	MF Low Income	0%	0%	$ 630	884	884	69	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	905	Base Two Speed Pool Pump (1.5 hp) (ROB)	MF Low Income	0%	0%	$ -	384	384	30	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Plasma Screen TV	MF Low Income	0%	0%	$ -	1,018	1,018	92	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	920	Base LCD Screen TV	MF Low Income	0%	0%	$ -	495	495	45	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	921	Energy Star LCD TV	MF Low Income	30%	30%	$ 3	593	415	37	6	0	0	0	$ 0.00	$ 50	18.56	22.87	0.21	1.10
1	922	TV Occupancy Sensor Power Strip	MF Low Income	3%	3%	$ 279	495	480	43	8	0	0	0	$ 3.54	$ 39,174	0.02	0.03	210.86	1.10
1	930	Base Other TV	MF Low Income	0%	0%	$ -	127	127	12	6	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	931	Energy Star LCD TV	MF Low Income	40%	40%	$ 3	127	76	7	6	6	1	2	$ 0.02	$ 173	5.32	6.55	0.73	1.10
1	932	TV Occupancy Sensor Power Strip	MF Low Income	6%	6%	$ 279	127	120	11	8	1	0	0	$ 7.08	$ 78,326	0.01	0.01	421.59	1.10
1	940	Base Laptop Computer	MF Low Income	0%	0%	$ -	183	183	17	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	941	Energy Star Laptop Computer	MF Low Income	13%	13%	$ 2	195	169	15	4	1	0	0	$ 0.02	$ 243	3.78	4.93	0.71	1.10
1	945	Base Desktop Computer	MF Low Income	0%	0%	$ -	1,214	1,214	110	4	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	946	Energy Star Desktop Computer	MF Low Income	18%	18%	$ 2	1,332	1,094	99	4	7	1	2	$ 0.00	$ 27	34.47	44.92	0.08	1.10
1	950	Base Cooking	MF Low Income	0%	0%	$ -	340	340	65	15	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	960	Base Miscellaneous	MF Low Income	0%	0%	$ -	1,114	1,114	88	10	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	962	Plug Load Controls - Smart Power Strip	MF Low Income	2%	2%	$ 25	1,114	1,092	86	5	3	0	1	$ 0.32	$ 4,070	0.24	0.33	12.67	1.02
1	970	Base House Practices	MF Low Income	0%	0%	$ -	10,799	10,799	2,103	1	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
1	971	Indirect Feedback	MF Low Income	2%	2%	$ 7	10,799	10,583	2,061	1	34	7	10	$ 0.04	$ 216	2.39	2.82	0.37	1.33

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Watts/ Household	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
2	100	Base Code Home - 2011 Energy Star	Single Family	0%	0%	$ -	16,023	16,023	3,120	20	0.00	0 00	0 00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	2011 ENERGY STAR Home	Single Family	18%	18%	$ 1,337	16,023	13,153	2,561	20	23 81	4 64	7 23	$ 0.05	$ 239	2.15	1.63	5.26	1.33
2	100	Base Code Home - 2011 Energy Star	Multifamily	0%	0%	$ -	11,811	11,811	2,300	20	0.00	0 00	0 00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	2011 ENERGY STAR Home	Multifamily	18%	18%	$ 959	11,811	9,695	1,888	20	4.54	0 88	1 38	$ 0.05	$ 233	2 21	1.67	5.12	1.33
2	100	Base Code Home - 2011 Energy Star	SF Low Income	0%	0%	$ -	14,963	14,963	2,914	20	0.00	0 00	0 00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	2011 ENERGY STAR Home	SF Low Income	18%	18%	$ 1,337	14,963	12,283	2,392	20	7 27	1.42	2 21	$ 0.05	$ 256	2 01	1.52	5.63	1.33
2	100	Base Code Home - 2011 Energy Star	MF Low Income	0%	0%	$ -	10,774	10,774	2,098	20	0.00	0 00	0 00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	2011 ENERGY STAR Home	MF Low Income	18%	18%	$ 959	10,774	8,844	1,722	20	1.53	0 30	0.46	$ 0.05	$ 255	2 02	1.52	5.61	1.33

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Office	0%	0%	$ 0.67	3.11	3.11	0.39	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	Office	25%	25%	$ 0.78	3.11	2.34	0.29	14	15.11	1.88	0.99	$ 0.10	828	0.87	0.62	13.53	1.42
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	Office	65%	65%	$ 0.92	3.11	1.08	0.13	14	16.91	2.10	1.11	$ 0.05	384	1.87	1.37	6.11	1.42
1	103	LED Indoor Lighting - Base 4L4'T12	Office	59%	59%	$ 2.56	3.11	1.29	0.16	21	35.45	4.41	2.32	$ 0.14	1,098	0.64	0.45	18.85	1.42
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	Office	25%	30%	$ 0.14	3.11	2.34	0.27	9	8.56	1.29	0.68	$ 0.03	201	3.11	2.61	2.37	1.49
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	Office	29%	52%	$ 0.75	3.11	2.20	0.19	10	10.14	2.23	0.59	$ 0.13	599	0.82	0.59	11.10	1.72
1	106	Lighting Control Tuneup	Office	4%	1%	$ 0.01	3.22	3.08	0.40	6	0.53	0.02	0.04	$ 0.02	698	2.76	3.47	1.37	1.08
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	Office	25%	25%	$ 0.20	2.78	2.09	0.26	20	5.78	0.72	0.38	$ 0.03	231	3.11	2.20	3.89	1.42
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Office	0%	0%	$ 1.05	2.99	2.99	0.37	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Office	25%	25%	$ 1.31	2.99	2.25	0.28	14	21.78	2.71	1.43	$ 0.18	1,466	0.49	0.36	23.68	1.42
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Office	65%	65%	$ 1.77	2.99	1.04	0.13	14	9.03	1.12	0.59	$ 0.10	790	0.91	0.68	12.23	1.42
1	123	LED Indoor Lighting - Base 2L4'T12	Office	59%	59%	$ 2.72	2.99	1.24	0.15	21	56.79	7.06	3.72	$ 0.15	1,213	0.58	0.41	20.82	1.42
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Office	25%	30%	$ 0.14	3.00	2.25	0.26	8	13.69	2.06	1.08	$ 0.03	229	2.73	2.35	2.46	1.49
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Office	29%	52%	$ 0.75	2.99	2.11	0.18	10	16.25	3.58	0.94	$ 0.14	623	0.79	0.56	11.54	1.72
1	126	Lighting Control Tuneup - Base 2L4'T12	Office	4%	1%	$ 0.01	3.09	2.96	0.38	6	0.84	0.03	0.06	$ 0.03	726	2.65	3.33	1.43	1.08
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Office	25%	25%	$ 0.20	2.67	2.00	0.25	20	9.26	1.15	0.61	$ 0.03	241	2.99	2.11	4.05	1.42
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Office	0%	0%	$ 0.83	2.99	2.99	0.37	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	131	RET 2 - 2L4' Premium T8, 1EB - Base 2L8'T12	Office	13%	13%	$ 1.53	2.99	2.61	0.32	14	6.00	0.75	0.39	$ 0.44	3,505	0.21	0.15	53.70	1.42
1	132	RET 2 - 1L4' Premium T8, 1EB, Reflector OEM - Base 2L8'T12	Office	60%	60%	$ 2.07	2.99	1.21	0.15	14	11.89	1.48	0.78	$ 0.13	1,050	0.69	0.52	15.66	1.42
1	133	LED Indoor Lighting - Base 2L8'T12	Office	59%	59%	$ 3.41	2.99	1.24	0.15	21	27.28	3.39	1.79	$ 0.19	1,521	0.46	0.33	26.12	1.42
1	134	Occupancy Sensor, 4L8' Fluorescent Fixtures - Base 2L8'T12	Office	25%	30%	$ 0.14	3.01	2.27	0.26	9	6.46	0.97	0.51	$ 0.03	208	3.01	2.53	2.45	1.49
1	135	Continuous Dimming, 5L8' Fluorescent Fixtures - Base 2L8'T12	Office	29%	52%	$ 0.75	2.99	2.11	0.18	10	7.80	1.72	0.45	$ 0.14	623	0.79	0.56	11.54	1.72
1	136	High Performance Lighting Remod/Renov - 25% Savings - Base 2L8'T12	Office	25%	25%	$ 0.20	2.67	2.00	0.25	20	4.45	0.55	0.29	$ 0.03	241	2.99	2.11	4.05	1.42
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Office	0%	0%	$ 0.18	11.93	11.93	1.48	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Office	72%	72%	$ 0.23	11.93	3.34	0.42	5	511.19	63.55	33.48	$ 0.01	62	11.70	11.47	0.36	1.42
1	142	Cold Cathode Lamps	Office	72%	72%	$ 0.67	11.93	3.34	0.42	5	56.80	7.06	3.72	$ 0.02	170	4.23	4.14	1.00	1.42
1	143	Screw-in LED--Base Incandescent	Office	93%	93%	$ 2.35	11.93	0.84	0.10	21	733.65	91.20	48.04	$ 0.02	166	4.26	3.01	2.84	1.42
1	145	Base CFL to screw-in replacement	Office	0%	0%	$ 0.46	3.27	3.27	0.41	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	Office	68%	68%	$ 2.41	3.27	1.06	0.13	21	56.12	6.98	3.68	$ 0.11	857	0.82	0.58	14.72	1.42
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Office	0%	0%	$ 0.14	11.93	11.93	1.48	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Office	76%	76%	$ 1.45	11.93	2.86	0.36	14	270.81	33.66	17.73	$ 0.02	156	4.61	3.64	2.17	1.42
1	152	Ceramic Metal Halide	Office	56%	56%	$ 3.69	11.93	5.25	0.65	2	11.09	1.38	0.73	$ 0.35	2,794	0.26	0.28	7.08	1.42
1	153	Hardwired LED fixture--Base Incandescent	Office	93%	93%	$ 2.79	11.93	0.84	0.10	21	368.20	45.77	24.11	$ 0.02	197	3.59	2.53	3.38	1.42
1	155	Base CFL to Hardwired replacement	Office	0%	0%	$ 1.81	3.27	3.27	0.41	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Office	68%	68%	$ 2.49	3.27	1.06	0.13	21	201.36	25.03	13.19	$ 0.11	884	0.80	0.56	15.17	1.42
1	160	Base High Bay Probe-start Metal Halide, 400W	Office	0%	0%	$ 1.28	2.25	2.25	0.28	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	Office	49%	49%	$ 0.44	2.25	1.15	0.14	14	2.30	0.29	0.15	$ 0.05	398	1.81	1.43	5.52	1.42
1	162	PSMH + electronic ballast	Office	37%	37%	$ 1.06	2.25	1.42	0.18	10	1.74	0.22	0.11	$ 0.22	1,741	0.41	0.36	18.22	1.42
1	163	Induction High Bay Lighting - Base Std MH	Office	37%	37%	$ 1.38	2.25	1.41	0.17	21	1.77	0.22	0.12	$ 0.16	1,292	0.55	0.39	22.18	1.42
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	Office	17%	2%	$ 0.14	2.32	1.92	0.28	8	0.18	0.00	0.01	$ 0.06	4,204	1.03	1.33	4.35	1.00
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	Office	25%	25%	$ 0.20	1.41	1.06	0.13	20	0.32	0.04	0.02	$ 0.06	455	1.58	1.12	7.65	1.42
1	180	Base 4L4'T8, 1EB	Office	0%	0%	$ -	2.00	2.00	0.25	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	Office	16%	16%	$ 0.07	2.13	1.80	0.22	14	8.19	1.02	0.54	$ 0.02	200	3.60	2.84	2.77	1.42
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	Office	30%	30%	$ 0.14	2.00	1.40	0.17	9	14.01	1.74	0.92	$ 0.04	313	2.30	2.03	3.05	1.42
1	183	Lighting Control Tuneup - Base 4L4'T8	Office	4%	1%	$ 0.01	2.06	1.97	0.25	6	0.72	0.03	0.05	$ 0.04	1,089	1.77	2.22	2.14	1.08
1	184	LED Indoor Lighting - Base 4L4'T8	Office	29%	29%	$ 1.89	2.00	1.41	0.18	21	23.90	2.97	1.57	$ 0.32	2,551	0.28	0.20	43.80	1.42
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	Office	25%	25%	$ 0.20	2.00	1.50	0.19	20	8.79	1.09	0.58	$ 0.04	323	2.23	1.58	5.42	1.42
1	190	Base 2L4'T8, 1EB	Office	0%	0%	$ -	2.00	2.00	0.25	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	Office	17%	17%	$ 0.10	2.15	1.78	0.22	14	13.04	1.62	0.85	$ 0.03	251	2.87	2.26	3.48	1.42
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Office	30%	30%	$ 0.14	2.00	1.40	0.17	9	20.31	2.53	1.33	$ 0.04	313	2.30	2.03	3.05	1.42
1	193	Lighting Control Tuneup - Base 2L4'T8	Office	4%	1%	$ 0.01	2.06	1.97	0.25	6	1.04	0.04	0.08	$ 0.04	1,089	1.77	2.22	2.14	1.08
1	194	LED Indoor Lighting - Base 2L4'T8	Office	29%	29%	$ 1.94	2.00	1.41	0.18	21	34.58	4.30	2.26	$ 0.33	2,616	0.27	0.19	44.91	1.42
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Office	25%	25%	$ 0.20	2.00	1.50	0.19	20	12.72	1.58	0.83	$ 0.04	323	2.23	1.58	5.42	1.42
1	200	Base Exit Sign	Office	0%	0%	$ -	0.02	0.02	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Office	81%	81%	$ 0.02	0.02	0.00	0.00	13	5.71	0.71	0.37	$ 0.15	1,185	0.61	0.49	15.55	1.42
1	210	Base Outdoor Mercury Vapor 400W Lamp	Office	0%	0%	$ -	1.22	1.22	0.01	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Office	35%	35%	$ 0.16	1.43	0.93	0.01	14	89.81	0.82	20.76	$ 0.04	4,151	1.64	1.86	4.24	0.99
1	212	LED Outdoor Area Lighting	Office	52%	52%	$ 0.27	1.22	0.59	0.01	23	196.86	1.80	45.51	$ 0.04	4,482	1.44	1.45	5.88	0.99
1	213	LED Outdoor Bi-level Fixtures	Office	70%	70%	$ 1.22	1.22	0.37	0.00	23	131.98	1.21	30.52	$ 0.14	14,985	0.43	0.44	19.66	0.99
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Office	25%	0%	$ 0.03	1.35	1.02	0.01	14	56.08	0.00	19.84	$ 0.01	N/A	5.38	6.81	1.16	0.88
1	220	Base Street Lighting	Office	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Office	0%	0%	$ 0.66	3.04	3.04	1.39	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Office	12%	12%	$ 0.11	3.16	2.78	1.27	20	42.77	19.58	4.78	$ 0.03	60	5.41	2.30	3.72	2.36
1	302	Window Film (Standard)	Office	9%	9%	$ 0.25	3.10	2.81	1.29	10	28.35	12.98	3.17	$ 0.14	304	1.07	0.55	11.73	2.36
1	303	EMS - Chiller	Office	10%	10%	$ 0.18	3.04	2.74	1.25	15	50.10	22.94	5.59	$ 0.07	150	2.17	1.01	8.01	2.36
1	304	Cool Roof - Chiller	Office	4%	4%	$ 0.24	3.08	2.97	1.36	10	6.10	2.79	0.68	$ 0.34	745	0.44	0.23	28.74	2.36
1	305	Chiller Tune Up/Diagnostics	Office	7%	4%	$ 0.10	3.15	2.93	1.38	10	13.25	3.56	1.74	$ 0.07	279	1.49	1.03	6.31	1.77
1	306	VSD for Chiller Pumps and Towers	Office	10%	10%	$ 0.13	3.12	2.81	1.29	15	25.43	11.64	2.84	$ 0.05	102	3.19	1.48	5.46	2.36
1	307	EMS Optimization	Office	4%	1%	$ 0.03	3.10	2.98	1.40	5	7.44	1.10	1.07	$ 0.07	483	1.24	1.23	3.37	1.40
1	308	Economizer - Chiller	Office	21%	7%	$ 0.51	3.84	3.03	1.64	15	1.33	0.20	0.19	$ 0.07	498	1.20	0.94	8.58	1.40
1	309	Duct/Pipe Insulation - Chiller	Office	2%	2%	$ 0.77	3.10	3.04	1.39	10	0.23	0.11	0.03	$ 1.99	4,349	0.07	0.04	167.74	2.36
1	311	High Efficiency Chiller Motors	Office	3%	3%	$ 0.05	3.05	2.95	1.35	20	9.02	4.13	1.01	$ 0.05	105	3.10	1.32	6.49	2.36
1	350	Base DX Packaged System, EER=10.3, 10 tons	Office	0%	0%	$ 2.31	5.27	5.27	2.41	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Office	4%	3%	$ 0.13	5.43	5.20	2.42	10	15.20	4.09	1.99	$ 0.09	323	1.29	0.89	7.32	1.77
1	352	DX Packaged System, EER=10.9, 10 tons	Office	6%	6%	$ 0.08	5.27	4.98	2.28	15	66.51	30.46	7.43	$ 0.03	70	4.67	2.17	3.73	2.36

DSM ASSYST SUMMARY — Year 2011 — Vintage Existing — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	353	DX Packaged System, EER=11.5, 10 tons	Office	10%	10%	$ 0.32	5.27	4.72	2.16	15	125.66	57.54	14.03	$ 0.07	148	2.20	1.02	7.90	2.36
1	354	DX Packaged System, EER=13.4, 10 tons	Office	23%	23%	$ 3.12	5.27	4.06	1.86	15	277.89	127.26	31.03	$ 0.30	650	0.50	0.23	34.79	2.36
1	357	Window Film (Standard)	Office	9%	9%	$ 0.25	5.35	4.86	2.22	10	82.62	37.83	9.23	$ 0.08	176	1.85	0.96	6.79	2.36
1	358	Prog. Thermostat - DX	Office	4%	1%	$ 0.06	5.34	5.13	2.41	8	36.96	5.45	5.31	$ 0.06	381	1.57	1.44	4.01	1.40
1	359	Cool Roof - DX	Office	2%	2%	$ 0.24	5.31	5.21	2.39	10	8.28	3.79	0.93	$ 0.41	886	0.37	0.19	34.18	2.36
1	360	Optimize Controls	Office	4%	1%	$ 0.04	5.41	5.20	2.45	5	13.84	2.04	1.99	$ 0.05	369	1.62	1.61	2.57	1.40
1	361	Economizer	Office	16%	5%	$ 0.51	5.71	4.78	2.48	15	131.30	19.35	18.87	$ 0.06	430	1.39	1.09	7.41	1.40
1	362	Aerosol Duct Sealing - DX	Office	7%	7%	$ 0.05	5.27	4.90	2.25	15	31.40	14.38	3.51	$ 0.02	37	8.86	4.11	1.97	2.36
1	363	Ceiling/roof Insulation - DX	Office	12%	12%	$ 0.12	5.89	5.17	2.37	20	5.80	2.65	0.65	$ 0.02	37	8.87	3.77	2.27	2.36
1	364	Duct/Pipe Insulation - DX	Office	2%	2%	$ 2.60	5.28	5.18	2.37	10	18.93	8.67	2.11	$ 3.95	8,626	0.04	0.02	332.67	2.36
1	365	DX Coil Cleaning	Office	5%	5%	$ 0.03	5.33	5.07	2.32	5	40.68	18.63	4.54	$ 0.03	64	5.11	3.01	1.38	2.36
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Office	0%	0%	$ 0.02	1.18	1.18	0.23	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Office	2%	2%	$ 0.01	1.18	1.16	0.22	20	7.78	1.49	0.71	$ 0.03	137	3.75	2.40	3.56	1.56
1	402	Variable Speed Drive Control, 5 HP	Office	27%	8%	$ 0.13	1.37	1.01	0.24	15	56.66	3.07	5.87	$ 0.04	787	1.64	1.62	4.99	1.11
1	403	Demand Controlled Ventilation	Office	14%	8%	$ 0.12	1.21	1.04	0.21	15	41.92	4.36	4.16	$ 0.09	827	0.93	0.80	10.05	1.27
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Office	0%	0%	$ 0.01	1.09	1.09	0.21	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	Office	2%	2%	$ 0.00	1.09	1.08	0.21	20	0.31	0.06	0.03	$ 0.01	55	9.28	5.96	1.44	1.56
1	412	Variable Speed Drive Control, 15 HP	Office	27%	8%	$ 0.04	1.27	0.93	0.23	20	3.37	0.18	0.35	$ 0.01	203	6.37	5.75	1.49	1.11
1	413	Air Handler Optimization, 15 HP	Office	9%	3%	$ 0.03	1.14	1.03	0.21	8	0.74	0.04	0.08	$ 0.06	1,045	1.24	1.43	4.04	1.11
1	414	Energy Recovery Ventilation	Office	7%	7%	$ 0.31	1.12	1.04	0.20	20	0.65	0.13	0.06	$ 0.40	2,086	0.25	0.16	54.13	1.56
1	415	Electronically Commutated Motors (ECM) on an air handler unit	Office	14%	14%	$ 0.07	1.09	0.93	0.18	15	4.05	0.78	0.37	$ 0.05	255	2.01	1.41	5.72	1.56
1	417	Demand Controlled Ventilation	Office	14%	8%	$ 0.12	1.12	0.97	0.20	15	2.49	0.26	0.25	$ 0.09	892	0.87	0.74	10.84	1.27
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Office	0%	0%	$ 0.04	1.07	1.07	0.21	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	421	Fan Motor, 40hp, 1800rpm, 94.1%	Office	1%	1%	$ 0.01	1.08	1.06	0.20	20	0.87	0.17	0.08	$ 0.09	492	1.04	0.67	12.76	1.56
1	422	Variable Speed Drive Control, 40 HP	Office	27%	8%	$ 0.19	1.25	0.92	0.22	20	12.14	0.66	1.26	$ 0.06	1,038	1.24	1.12	7.61	1.11
1	423	Air Handler Optimization, 40 HP	Office	9%	3%	$ 0.03	1.12	1.02	0.21	8	2.66	0.14	0.28	$ 0.06	1,062	1.21	1.41	4.11	1.11
1	424	Demand Controlled Ventilation	Office	14%	8%	$ 0.12	1.10	0.95	0.20	15	8.98	0.93	0.89	$ 0.09	907	0.85	0.73	11.02	1.27
1	500	Base Non-Commercial Refrigerator	Office	0%	0%	$ 0.53	0.09	0.09	0.01	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Office	25%	25%	$ 0.09	0.09	0.06	0.01	13	6.69	0.69	0.74	$ 0.54	5,196	0.15	0.13	56.99	1.29
1	520	Base Refrigeration System	Office	0%	0%	$ -	0.08	0.08	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Office	12%	12%	$ 0.01	0.08	0.07	0.01	20	3.16	0.33	0.35	$ 0.14	1,396	0.56	0.44	19.61	1.29
1	523	Night covers for display cases	Office	5%	0%	$ 0.00	0.08	0.08	0.01	5	1.15	0.00	0.14	$ 0.09	N/A	0.61	0.94	4.44	0.91
1	524	Evaporator fan controller for MT walk-ins	Office	0%	0%	$ 0.00	0.08	0.08	0.01	10	0.11	0.00	0.01	$ 0.22	N/A	0.26	0.35	18.64	0.91
1	525	Efficient compressor motor	Office	7%	7%	$ 0.00	0.08	0.08	0.01	10	1.80	0.19	0.20	$ 0.03	297	2.64	2.50	2.60	1.29
1	528	Refrigeration Commissioning	Office	5%	5%	$ 0.00	0.09	0.08	0.01	3	0.14	0.01	0.01	$ 0.23	2,229	0.35	0.40	6.91	1.29
1	530	Demand Defrost Electric	Office	8%	8%	$ 0.00	0.08	0.08	0.01	10	2.05	0.21	0.23	$ 0.01	97	8.12	7.69	0.84	1.29
1	533	Freezer-Cooler Replacement Gaskets	Office	7%	7%	$ 0.00	0.09	0.08	0.01	4	0.90	0.09	0.10	$ 0.03	254	3.08	3.42	1.03	1.29
1	536	Oversized Air-Cooled Condenser	Office	8%	8%	$ 0.01	0.09	0.08	0.01	16	1.11	0.12	0.12	$ 0.11	1,032	0.76	0.63	13.03	1.29
1	537	LED Display Lighting	Office	1%	1%	$ 0.00	0.08	0.08	0.01	10	0.11	0.01	0.01	$ 0.37	3,608	0.22	0.21	31.56	1.29
1	538	Fiber Optic Display Lighting	Office	25%	25%	$ 0.00	0.08	0.06	0.01	10	3.23	0.34	0.36	$ 0.01	140	5.62	5.31	1.22	1.29
1	539	Beverage Merchandisers	Office	2%	2%	$ 0.00	0.08	0.08	0.01	10	0.37	0.04	0.04	$ 0.33	3,138	0.25	0.24	27.45	1.29
1	540	Reach-In Refrigerators	Office	2%	2%	$ 0.00	0.08	0.08	0.01	10	0.29	0.03	0.03	$ 0.07	692	1.13	1.07	6.05	1.29
1	541	Reach-In Freezers	Office	1%	1%	$ 0.00	0.08	0.08	0.01	10	0.22	0.02	0.02	$ 0.15	1,436	0.55	0.52	12.56	1.29
1	610	Base Desktop PC	Office	0%	0%	$ -	1.36	1.36	0.13	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Office	32%	25%	$ 0.00	1.45	0.98	0.10	4	120.15	8.62	10.39	$ 0.00	14	78.21	92.24	0.04	1.21
1	612	PC Manual Power Management Enabling	Office	65%	45%	$ 0.01	1.63	0.57	0.08	4	251.71	16.09	22.03	$ 0.00	50	23.26	28.17	0.12	1.18
1	613	PC Network Power Management Enabling	Office	65%	45%	$ 0.01	1.63	0.57	0.08	4	251.71	16.09	22.03	$ 0.00	50	23.26	28.17	0.12	1.18
1	620	Base Monitor, CRT	Office	0%	0%	$ -	1.20	1.20	0.11	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Office	56%	56%	$ 0.00	1.27	0.56	0.05	4	115.19	10.66	9.63	$ 0.00	3	263.48	290.64	0.01	1.30
1	622	Monitor Power Management Enabling - CRT	Office	51%	35%	$ 0.00	2.00	0.98	0.12	4	38.76	2.48	3.39	$ 0.00	26	45.71	55.36	0.06	1.18
1	630	Base Monitor, LCD	Office	0%	0%	$ -	0.30	0.30	0.03	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Office	2%	2%	$ 0.00	0.30	0.30	0.03	4	0.31	0.03	0.03	$ 0.07	738	1.20	1.32	2.65	1.30
1	632	Monitor Power Management Enabling - LCD	Office	27%	18%	$ 0.01	0.38	0.28	0.03	4	1.02	0.06	0.09	$ 0.03	546	2.14	2.59	1.36	1.18
1	640	Base Copier	Office	0%	0%	$ -	0.45	0.45	0.04	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Office	21%	21%	$ 0.00	0.47	0.37	0.03	6	34.04	3.15	2.85	$ 0.00	5	189.25	197.34	0.02	1.30
1	642	Copier Power Management Enabling	Office	19%	13%	$ 0.01	0.47	0.39	0.04	6	20.55	1.31	1.80	$ 0.02	332	3.52	4.03	1.18	1.18
1	650	Base Laser Printer	Office	0%	0%	$ -	0.87	0.87	0.08	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Office	47%	32%	$ 0.05	1.58	0.84	0.10	5	12.19	0.78	1.07	$ 0.02	279	4.18	4.91	0.85	1.18
1	660	Base Data Center/Server Room	Office	0%	0%	$ -	251.44	251.44	23.27	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Office	20%	20%	$ 0.10	261.92	209.53	19.39	10	84.49	7.82	7.06	$ 0.00	3	267.00	251.44	0.03	1.30
1	662	Data Center Best Practices	Office	45%	45%	$ 0.50	263.29	144.81	13.40	10	107.49	9.95	8.99	$ 0.00	7	120.78	113.74	0.06	1.30
1	663	Data Center State of the Art practices	Office	56%	56%	$ 1.00	251.44	110.63	10.24	10	47.31	4.38	3.96	$ 0.00	12	71.77	67.59	0.10	1.30
1	700	Base Water Heating	Office	0%	0%	$ -	0.49	0.49	0.04	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Office	5%	5%	$ 0.02	0.49	0.47	0.04	15	3.08	0.28	0.25	$ 0.11	1,211	0.74	0.63	12.75	1.28
1	702	High Efficiency Water Heater (electric)	Office	2%	2%	$ 0.00	0.49	0.48	0.04	15	1.64	0.15	0.13	$ 0.02	251	3.57	3.06	2.64	1.28
1	703	Heat Pump Water Heater (air source)	Office	20%	20%	$ 0.04	0.49	0.39	0.04	15	13.15	1.18	1.06	$ 0.05	578	1.55	1.32	6.09	1.28
1	704	Hot Water Pipe Insulation	Office	2%	2%	$ 0.01	0.49	0.48	0.04	15	0.44	0.04	0.04	$ 0.07	763	1.17	1.00	8.03	1.28
1	706	Heat Recovery Unit	Office	65%	65%	$ 0.08	0.49	0.17	0.02	10	5.34	0.48	0.43	$ 0.04	448	2.00	1.91	3.40	1.28
1	707	Heat Trap	Office	9%	9%	$ 0.00	0.50	0.46	0.04	10	4.26	0.38	0.34	$ 0.01	136	6.57	6.28	1.04	1.28
1	708	Tankless Water Heater	Office	10%	10%	$ 0.02	0.49	0.44	0.04	20	6.16	0.56	0.50	$ 0.03	373	2.40	1.88	4.54	1.28
1	709	Solar Water Heater	Office	70%	70%	$ 0.14	0.49	0.15	0.01	20	43.71	3.94	3.54	$ 0.04	446	2.01	1.57	5.44	1.28
1	800	Base Vending Machines	Office	0%	0%	$ -	0.24	0.24	0.02	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Office	38%	26%	$ 0.01	0.24	0.15	0.02	10	17.24	1.16	1.31	$ 0.02	340	3.32	3.37	1.93	1.20
1	900	Base Oven	Office	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	905	Base Fryer	Office	0%	0%	$ -	0.12	0.12	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A

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1	906	Efficient Fryer	Office	6%	6%	$ 0.01	0.12	0.11	0.01	10	0.05	0.01	0.00	$ 0.26	2,568	0.34	0.30	21.57	1.39
1	910	Base Steamer	Office	0%	0%	$ -	0.07	0.07	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Efficient Steamer	Office	89%	89%	$ 0.02	0.07	0.01	0.00	10	0.44	0.04	0.01	$ 0.06	558	1.58	1.39	4.69	1.39
1	915	Base Hot Food Holding Cabinets	Office	0%	0%	$ -	0.02	0.02	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	916	Energy Star Hot Food Holding Cabinets	Office	47%	47%	$ 0.10	0.02	0.01	0.00	10	0.07	0.01	0.00	$ 1.59	15,910	0.06	0.05	133.64	1.39
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Restaurant	0%	0%	$ 0.36	2.43	2.43	0.32	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	Restaurant	25%	25%	$ 0.42	2.43	1.82	0.24	14	1.17	0.15	0.11	$ 0.07	540	1.28	0.91	9.33	1.43
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	Restaurant	65%	65%	$ 0.49	2.43	0.84	0.11	14	0.87	0.11	0.09	$ 0.03	251	2.75	1.98	4.22	1.43
1	103	LED Indoor Lighting - Base 4L4'T12	Restaurant	59%	59%	$ 1.38	2.43	1.00	0.13	40	2.74	0.36	0.27	$ 0.08	595	0.94	0.66	12.96	1.43
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	Restaurant	17%	20%	$ 0.14	2.43	2.02	0.26	9	0.11	0.02	0.01	$ 0.06	366	1.64	1.36	4.54	1.51
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	Restaurant	30%	52%	$ 0.75	2.43	1.71	0.15	10	0.99	0.23	0.09	$ 0.17	727	0.66	0.46	14.12	1.74
1	106	Lighting Control Tuneup	Restaurant	4%	1%	$ 0.01	2.49	2.38	0.32	6	0.05	0.00	0.01	$ 0.03	854	2.14	2.68	1.78	1.08
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	Restaurant	25%	25%	$ 0.20	2.17	1.63	0.21	20	0.45	0.06	0.04	$ 0.04	281	2.45	1.71	5.00	1.43
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Restaurant	0%	0%	$ 0.57	2.16	2.16	0.28	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Restaurant	25%	25%	$ 0.70	2.16	1.62	0.21	14	0.35	0.05	0.03	$ 0.14	1,033	0.67	0.48	17.63	1.43
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Restaurant	65%	65%	$ 0.95	2.16	0.75	0.10	14	0.15	0.02	0.01	$ 0.07	556	1.24	0.91	9.11	1.43
1	123	LED Indoor Lighting - Base 2L4'T12	Restaurant	59%	59%	$ 1.46	2.16	0.89	0.12	40	0.91	0.12	0.09	$ 0.09	710	0.79	0.55	15.45	1.43
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Restaurant	17%	20%	$ 0.14	2.16	1.80	0.23	8	0.04	0.01	0.00	$ 0.07	451	1.33	1.14	5.10	1.51
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Restaurant	30%	52%	$ 0.75	2.16	1.52	0.14	10	0.33	0.08	0.03	$ 0.19	816	0.58	0.41	15.86	1.74
1	126	Lighting Control Tuneup - Base 2L4'T12	Restaurant	4%	1%	$ 0.01	2.22	2.12	0.29	6	0.02	0.00	0.00	$ 0.04	959	1.91	2.39	1.99	1.08
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Restaurant	25%	25%	$ 0.20	1.93	1.45	0.19	20	0.15	0.02	0.01	$ 0.04	316	2.18	1.52	5.61	1.43
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Restaurant	0%	0%	$ 0.45	2.16	2.16	0.28	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	131	RET 2 - 2L4' Premium T8, 1EB - Base 2L8'T12	Restaurant	13%	13%	$ 0.82	2.16	1.88	0.25	14	0.54	0.07	0.05	$ 0.32	2,469	0.28	0.21	39.98	1.43
1	132	RET 2 - 1L4' Premium T8, 1EB, Reflector OEM - Base 2L8'T12	Restaurant	60%	60%	$ 1.11	2.16	0.87	0.11	14	1.06	0.14	0.10	$ 0.10	740	0.93	0.70	11.66	1.43
1	133	LED Indoor Lighting - Base 2L8'T12	Restaurant	59%	59%	$ 1.83	2.16	0.89	0.12	40	2.44	0.32	0.24	$ 0.12	891	0.63	0.44	19.38	1.43
1	134	Occupancy Sensor, 4L8' Fluorescent Fixtures - Base 2L8'T12	Restaurant	17%	20%	$ 0.14	2.16	1.80	0.23	9	0.10	0.02	0.01	$ 0.07	411	1.46	1.21	5.10	1.51
1	135	Continuous Dimming, 5L8' Fluorescent Fixtures - Base 2L8'T12	Restaurant	30%	52%	$ 0.75	2.16	1.52	0.14	10	0.88	0.20	0.08	$ 0.19	816	0.58	0.41	15.86	1.74
1	136	High Performance Lighting Remod/Renov - 25% Savings - Base 2L8'T12	Restaurant	25%	25%	$ 0.20	1.93	1.45	0.19	20	0.40	0.05	0.04	$ 0.04	316	2.18	1.52	5.61	1.43
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Restaurant	0%	0%	$ 0.24	8.62	8.62	1.13	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Restaurant	72%	72%	$ 0.32	8.62	2.41	0.32	5	67.06	8.81	6.58	$ 0.01	111	6.19	6.00	0.69	1.43
1	142	Cold Cathode Lamps	Restaurant	72%	72%	$ 0.93	8.62	2.41	0.32	10	7.45	0.98	0.73	$ 0.02	181	3.80	3.24	2.01	1.43
1	143	Screw-in LED--Base Incandescent	Restaurant	93%	93%	$ 3.24	8.62	0.60	0.08	40	96.25	12.64	9.45	$ 0.03	249	2.26	1.58	5.41	1.43
1	145	Base CFL to screw-in replacement	Restaurant	0%	0%	$ 0.64	2.36	2.36	0.31	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	Restaurant	67%	68%	$ 3.33	2.36	0.77	0.10	40	0.55	0.07	0.05	$ 0.17	1,288	0.44	0.31	28.03	1.43
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Restaurant	0%	0%	$ 0.19	8.62	8.62	1.13	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Restaurant	76%	76%	$ 2.00	8.62	2.07	0.27	14	14.16	1.86	1.39	$ 0.04	282	2.44	1.90	4.14	1.43
1	152	Ceramic Metal Halide	Restaurant	56%	56%	$ 5.09	8.62	3.79	0.50	4	0.58	0.08	0.06	$ 0.36	2,776	0.25	0.25	14.15	1.43
1	153	Hardwired LED fixture--Base Incandescent	Restaurant	93%	93%	$ 3.85	8.62	0.60	0.08	40	19.25	2.53	1.89	$ 0.04	296	1.90	1.33	6.44	1.43
1	155	Base CFL to Hardwired replacement	Restaurant	0%	0%	$ 2.50	2.36	2.36	0.31	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Restaurant	67%	68%	$ 3.43	2.36	0.77	0.10	40	0.55	0.07	0.05	$ 0.17	1,328	0.42	0.30	28.90	1.43
1	160	Base High Bay Probe-start Metal Halide, 400W	Restaurant	0%	0%	$ 0.69	1.62	1.62	0.21	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	180	Base 4L4'T8, 1EB	Restaurant	0%	0%	$ -	1.44	1.44	0.19	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	Restaurant	16%	16%	$ 0.04	1.49	1.26	0.17	14	0.04	0.01	0.00	$ 0.02	145	4.74	3.70	2.13	1.43
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	Restaurant	20%	20%	$ 0.14	1.44	1.15	0.15	9	0.01	0.00	0.00	$ 0.08	616	1.12	0.98	6.34	1.43
1	183	Lighting Control Tuneup - Base 4L4'T8	Restaurant	4%	1%	$ 0.01	1.48	1.41	0.19	6	0.00	0.00	0.00	$ 0.05	1,439	1.27	1.59	2.99	1.08
1	184	LED Indoor Lighting - Base 4L4'T8	Restaurant	29%	29%	$ 1.02	1.44	1.02	0.13	40	0.10	0.01	0.01	$ 0.20	1,494	0.38	0.26	32.51	1.43
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	Restaurant	25%	25%	$ 0.20	1.44	1.08	0.14	20	0.04	0.00	0.00	$ 0.06	423	1.63	1.14	7.51	1.43
1	190	Base 2L4'T8, 1EB	Restaurant	0%	0%	$ -	1.44	1.44	0.19	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	Restaurant	17%	17%	$ 0.05	1.44	1.19	0.16	14	0.06	0.01	0.01	$ 0.02	190	3.62	2.82	2.79	1.43
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Restaurant	20%	20%	$ 0.14	1.44	1.15	0.15	9	0.01	0.00	0.00	$ 0.08	616	1.12	0.98	6.34	1.43
1	193	Lighting Control Tuneup - Base 2L4'T8	Restaurant	4%	1%	$ 0.01	1.48	1.41	0.19	6	0.00	0.00	0.00	$ 0.05	1,439	1.27	1.59	2.99	1.08
1	194	LED Indoor Lighting - Base 2L4'T8	Restaurant	29%	29%	$ 1.04	1.44	1.02	0.13	40	0.10	0.01	0.01	$ 0.20	1,532	0.37	0.26	33.33	1.43
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Restaurant	25%	25%	$ 0.20	1.44	1.08	0.14	20	0.04	0.00	0.00	$ 0.06	423	1.63	1.14	7.51	1.43
1	200	Base Exit Sign	Restaurant	0%	0%	$ -	0.06	0.06	0.01	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Restaurant	81%	81%	$ 0.02	0.07	0.01	0.00	13	1.69	0.22	0.17	$ 0.06	448	1.54	1.23	6.21	1.43
1	210	Base Outdoor Mercury Vapor 400W Lamp	Restaurant	0%	0%	$ -	3.08	3.08	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Restaurant	35%	35%	$ 0.40	3.55	2.31	0.10	14	26.45	1.17	6.04	$ 0.04	874	1.80	1.83	4.30	1.10
1	212	LED Outdoor Area Lighting	Restaurant	52%	52%	$ 0.69	3.08	1.48	0.07	23	54.77	2.42	12.51	$ 0.04	927	1.60	1.46	5.86	1.10
1	213	LED Outdoor Bi-level Fixtures	Restaurant	70%	70%	$ 3.07	3.08	0.94	0.04	23	36.72	1.62	8.39	$ 0.14	3,098	0.48	0.44	19.58	1.10
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Restaurant	24%	0%	$ 0.07	3.40	2.58	0.15	14	15.20	0.00	5.44	$ 0.01	N/A	5.30	6.67	1.18	0.89
1	220	Base Street Lighting	Restaurant	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Restaurant	0%	0%	$ 0.66	5.62	5.62	2.20	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	302	Window Film (Standard)	Restaurant	10%	10%	$ 0.08	5.74	5.15	2.02	10	0.56	0.22	0.10	$ 0.02	56	6.31	3.53	1.84	2.18
1	303	EMS - Chiller	Restaurant	10%	10%	$ 0.18	5.62	5.06	1.98	15	0.88	0.34	0.15	$ 0.04	95	3.72	1.86	4.33	2.18
1	304	Cool Roof - Chiller	Restaurant	4%	4%	$ 0.48	5.69	5.48	2.15	10	0.11	0.04	0.02	$ 0.37	944	0.37	0.21	31.12	2.18
1	305	Chiller Tune Up/Diagnostics	Restaurant	7%	4%	$ 0.10	5.82	5.42	2.19	10	0.23	0.05	0.05	$ 0.04	176	2.61	1.92	3.39	1.66
1	307	EMS Optimization	Restaurant	4%	1%	$ 0.03	5.74	5.51	2.22	5	0.13	0.02	0.03	$ 0.04	305	2.21	2.31	1.80	1.33
1	308	Economizer - Chiller	Restaurant	0%	0%	$ 0.51	5.62	5.62	2.20	15	0.00	0.00	0.00	$13,373.44	N/A	0.00	0.00	1,563,283.79	1.33
1	309	Duct/Pipe Insulation - Chiller	Restaurant	2%	2%	$ 0.77	5.72	5.61	2.20	10	0.02	0.01	0.00	$ 1.08	2,756	0.13	0.07	90.88	2.18
1	311	High Efficiency Chiller Motors	Restaurant	3%	3%	$ 0.07	5.64	5.46	2.14	20	0.25	0.10	0.04	$ 0.04	96	3.66	1.68	5.10	2.18
1	350	Base DX Packaged System, EER=10.3, 10 tons	Restaurant	0%	0%	$ 2.31	9.75	9.75	3.82	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Restaurant	4%	3%	$ 0.13	10.04	9.61	3.83	10	3.22	0.74	0.66	$ 0.05	204	2.25	1.65	3.93	1.66
1	352	DX Packaged System, EER=10.9, 10 tons	Restaurant	6%	6%	$ 0.08	9.75	9.21	3.61	15	16.23	6.36	2.84	$ 0.02	44	8.00	4.00	2.02	2.18
1	353	DX Packaged System, EER=11.5, 10 tons	Restaurant	10%	10%	$ 0.32	9.75	8.73	3.42	15	30.67	12.01	5.37	$ 0.04	93	3.77	1.89	4.27	2.18
1	354	DX Packaged System, EER=13.4, 10 tons	Restaurant	23%	23%	$ 3.12	9.75	7.51	2.94	15	67.83	26.56	11.88	$ 0.16	411	0.86	0.43	18.82	2.18

DSM ASSYST SUMMARY — Year 2011

Vintage: Existing — Batch: 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	357	Window Film (Standard)	Restaurant	10%	10%	$ 0.08	9.85	8.83	3.46	10	20.84	8.16	3.65	$ 0.01	33	10.82	6.05	1.07	2.18
1	358	Prog. Thermostat - DX	Restaurant	4%	1%	$ 0.06	9.88	9.49	3.82	8	7.86	0.98	1.75	$ 0.03	241	2.80	2.70	2.15	1.33
1	359	Cool Roof - DX	Restaurant	7%	7%	$ 0.48	9.97	9.28	3.63	10	7.09	2.78	1.24	$ 0.11	288	1.22	0.68	9.50	2.18
1	360	Optimize Controls	Restaurant	4%	1%	$ 0.04	10.01	9.62	3.87	5	2.94	0.37	0.66	$ 0.03	233	2.89	3.02	1.38	1.33
1	361	Economizer	Restaurant	6%	2%	$ 0.51	10.04	9.41	3.85	15	10.12	1.26	2.26	$ 0.09	751	0.90	0.74	10.94	1.33
1	362	Aerosol Duct Sealing - DX	Restaurant	7%	7%	$ 0.05	9.81	9.12	3.57	15	6.09	2.38	1.07	$ 0.01	23	15.26	7.64	1.06	2.18
1	363	Ceiling/roof Insulation - DX	Restaurant	12%	12%	$ 0.24	10.77	9.47	3.71	20	3.66	1.43	0.64	$ 0.02	47	7.52	3.45	2.48	2.18
1	364	Duct/Pipe Insulation - DX	Restaurant	2%	2%	$ 2.60	9.79	9.60	3.76	10	3.45	1.35	0.60	$ 2.13	5,443	0.06	0.04	179.47	2.18
1	365	DX Coil Cleaning	Restaurant	5%	5%	$ 0.03	10.00	9.52	3.73	5	5.20	2.04	0.91	$ 0.02	40	8.89	5.66	0.73	2.18
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Restaurant	0%	0%	$ 0.09	3.31	3.31	0.54	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Restaurant	2%	2%	$ 0.04	3.33	3.26	0.53	20	1.45	0.23	0.18	$ 0.05	302	1.91	1.29	6.62	1.48
1	402	Variable Speed Drive Control, 5 HP	Restaurant	27%	8%	$ 0.70	3.31	2.43	0.50	15	22.09	1.01	3.07	$ 0.09	2,014	0.74	0.75	10.73	1.08
1	403	Demand Controlled Ventilation	Restaurant	14%	8%	$ 0.12	3.43	2.95	0.51	15	8.36	0.73	1.12	$ 0.03	346	2.55	2.28	3.54	1.22
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Restaurant	0%	0%	$ 0.04	3.07	3.07	0.50	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	Restaurant	2%	2%	$ 0.01	3.08	3.04	0.49	20	0.15	0.02	0.02	$ 0.02	145	3.96	2.68	3.19	1.48
1	412	Variable Speed Drive Control, 15 HP	Restaurant	27%	8%	$ 0.23	3.07	2.25	0.46	20	3.40	0.16	0.47	$ 0.03	618	2.42	2.24	3.81	1.08
1	413	Air Handler Optimization, 15 HP	Restaurant	9%	3%	$ 0.03	3.07	2.80	0.49	8	0.27	0.01	0.04	$ 0.02	457	3.28	3.90	1.49	1.08
1	414	Energy Recovery Ventilation	Restaurant	7%	7%	$ 0.48	3.07	2.86	0.46	20	0.89	0.14	0.11	$ 0.23	1,391	0.41	0.28	30.52	1.48
1	415	Electronically Commutated Motors (ECM) on an air handler unit	Restaurant	14%	14%	$ 0.10	3.20	2.74	0.44	15	1.38	0.22	0.17	$ 0.03	158	3.64	2.69	3.00	1.48
1	416	Separate Makeup Air/Exhaust Hoods AC	Restaurant	25%	25%	$ 0.00	3.07	2.30	0.37	15	3.19	0.52	0.39	$ 0.00	3	206.45	152.71	0.05	1.48
1	417	Demand Controlled Ventilation	Restaurant	14%	8%	$ 0.12	3.18	2.74	0.48	15	1.29	0.11	0.17	$ 0.03	373	2.37	2.12	3.82	1.22
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Restaurant	0%	0%	$ 0.00	3.02	3.02	0.49	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Non-Commercial Refrigerator	Restaurant	0%	0%	$ 0.58	0.37	0.37	0.04	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Energy Star Refrigerator	Restaurant	20%	20%	$ 0.04	0.37	0.30	0.03	13	1.12	0.12	0.13	$ 0.07	671	1.11	0.97	7.86	1.31
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Restaurant	25%	25%	$ 0.10	0.37	0.28	0.03	13	1.41	0.16	0.16	$ 0.13	1,216	0.61	0.54	14.24	1.31
1	520	Base Refrigeration System	Restaurant	0%	0%	$ -	11.00	11.00	1.22	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Restaurant	12%	12%	$ 0.58	11.00	9.68	1.07	20	39.65	4.40	4.52	$ 0.04	397	1.88	1.43	5.96	1.31
1	522	Strip curtains for walk-ins	Restaurant	4%	4%	$ 0.02	11.09	10.65	1.18	4	10.68	1.18	1.22	$ 0.02	176	4.25	4.64	0.76	1.31
1	524	Evaporator fan controller for MT walk-ins	Restaurant	0%	0%	$ 0.02	11.01	10.95	1.22	10	1.52	0.00	0.20	$ 0.07	N/A	0.85	1.14	5.69	0.91
1	525	Efficient compressor motor	Restaurant	7%	7%	$ 0.04	11.00	10.25	1.14	10	22.60	2.51	2.58	$ 0.01	85	8.83	8.22	0.79	1.31
1	526	Compressor VSD retrofit	Restaurant	6%	3%	$ 0.20	11.00	10.36	1.18	13	19.32	1.14	2.34	$ 0.04	686	1.76	1.79	4.27	1.12
1	527	Floating head pressure controls	Restaurant	6%	0%	$ 0.06	11.00	10.34	1.22	14	19.95	0.00	2.58	$ 0.01	N/A	5.04	6.18	1.27	0.91
1	528	Refrigeration Commissioning	Restaurant	5%	5%	$ 0.09	11.28	10.72	1.19	3	1.70	0.19	0.19	$ 0.07	635	1.18	1.32	2.10	1.31
1	529	Demand Hot Gas Defrost	Restaurant	3%	3%	$ 0.02	11.00	10.73	1.19	10	8.30	0.92	0.95	$ 0.01	85	8.78	8.17	0.80	1.31
1	530	Demand Defrost Electric	Restaurant	8%	8%	$ 0.02	11.00	10.15	1.12	10	25.70	2.85	2.93	$ 0.00	27	27.19	25.30	0.26	1.31
1	531	Anti-sweat (humidistat) controls	Restaurant	5%	2%	$ 0.08	11.00	10.49	1.19	12	15.56	0.92	1.88	$ 0.02	362	3.33	3.47	2.11	1.12
1	533	Freezer-Cooler Replacement Gaskets	Restaurant	7%	7%	$ 0.02	11.38	10.63	1.18	4	11.30	1.25	1.29	$ 0.01	72	10.32	11.25	0.31	1.31
1	535	Multiplex Compressor System	Restaurant	14%	14%	$ 1.36	11.00	9.43	1.05	14	47.21	5.23	5.38	$ 0.10	946	0.79	0.67	11.70	1.31
1	536	Oversized Air-Cooled Condenser	Restaurant	8%	8%	$ 0.27	11.47	10.54	1.17	16	13.95	1.55	1.59	$ 0.03	294	2.55	2.08	3.96	1.31
1	537	LED Display Lighting	Restaurant	1%	1%	$ 0.06	11.00	10.91	1.21	10	1.38	0.15	0.16	$ 0.11	1,027	0.73	0.68	9.59	1.31
1	538	Fiber Optic Display Lighting	Restaurant	25%	25%	$ 0.07	11.00	8.31	0.92	10	40.55	4.50	4.62	$ 0.00	40	18.79	17.49	0.37	1.31
1	539	Beverage Merchandisers	Restaurant	2%	2%	$ 0.04	11.09	10.85	1.20	10	4.70	0.52	0.54	$ 0.02	211	3.55	3.30	1.97	1.31
1	540	Reach-In Refrigerators	Restaurant	2%	2%	$ 0.03	11.07	10.88	1.21	10	3.59	0.40	0.41	$ 0.02	220	3.39	3.16	2.06	1.31
1	541	Reach-In Freezers	Restaurant	1%	1%	$ 0.07	11.05	10.91	1.21	10	2.82	0.31	0.32	$ 0.08	696	1.07	1.00	6.50	1.31
1	610	Base Desktop PC	Restaurant	0%	0%	$ -	0.15	0.15	0.02	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Restaurant	32%	25%	$ 0.00	0.16	0.11	0.02	4	1.01	0.10	0.09	$ 0.00	45	18.14	19.62	0.18	1.32
1	612	PC Manual Power Management Enabling	Restaurant	64%	45%	$ 0.00	0.18	0.06	0.01	4	1.58	0.14	0.14	$ 0.02	167	5.35	5.97	0.59	1.28
1	613	PC Network Power Management Enabling	Restaurant	64%	45%	$ 0.00	0.18	0.06	0.01	4	1.58	0.14	0.14	$ 0.02	167	5.35	5.97	0.59	1.28
1	620	Base Monitor, CRT	Restaurant	0%	0%	$ -	0.13	0.13	0.02	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Restaurant	56%	56%	$ 0.00	0.13	0.06	0.01	4	0.78	0.10	0.06	$ 0.00	30	22.87	22.89	0.15	1.43
1	622	Monitor Power Management Enabling - CRT	Restaurant	51%	35%	$ 0.01	0.21	0.11	0.02	4	0.25	0.02	0.02	$ 0.02	218	4.09	4.57	0.77	1.28
1	630	Base Monitor, LCD	Restaurant	0%	0%	$ -	0.03	0.03	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Restaurant	2%	2%	$ 0.00	0.03	0.03	0.00	4	0.01	0.00	0.00	$ 0.22	1,660	0.42	0.42	8.39	1.43
1	632	Monitor Power Management Enabling - LCD	Restaurant	26%	18%	$ 0.00	0.04	0.03	0.00	4	0.02	0.00	0.00	$ 0.11	1,220	0.73	0.82	4.30	1.28
1	640	Base Copier	Restaurant	0%	0%	$ -	0.09	0.09	0.01	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Restaurant	21%	21%	$ 0.00	0.09	0.08	0.01	6	0.08	0.01	0.01	$ 0.00	2	298.31	282.14	0.02	1.43
1	642	Copier Power Management Enabling	Restaurant	18%	13%	$ 0.00	0.10	0.08	0.01	6	0.05	0.00	0.00	$ 0.01	165	5.40	5.70	0.84	1.28
1	650	Base Laser Printer	Restaurant	0%	0%	$ -	0.24	0.24	0.03	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Restaurant	47%	32%	$ 0.01	0.42	0.23	0.04	5	0.18	0.02	0.02	$ 0.01	127	7.02	7.62	0.55	1.28
1	660	Base Data Center/Server Room	Restaurant	0%	0%	$ -	283.21	283.21	36.87	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Restaurant	20%	20%	$ 0.10	295.01	236.00	30.72	10	1.00	0.13	0.08	$ 0.00	2	331.54	283.21	0.02	1.43
1	662	Data Center Best Practices	Restaurant	45%	45%	$ 0.50	296.55	163.10	21.23	10	1.28	0.17	0.11	$ 0.00	5	149.97	128.11	0.05	1.43
1	663	Data Center State of the Art practices	Restaurant	56%	56%	$ 1.00	283.21	124.61	16.22	10	0.56	0.07	0.05	$ 0.00	8	89.12	76.13	0.09	1.43
1	700	Base Water Heating	Restaurant	0%	0%	$ -	6.17	6.17	0.70	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Restaurant	5%	5%	$ 0.05	6.17	5.86	0.66	15	1.68	0.19	0.10	$ 0.02	153	5.02	3.99	2.02	1.38
1	702	High Efficiency Water Heater (electric)	Restaurant	2%	2%	$ 0.00	6.17	6.05	0.68	15	0.90	0.10	0.05	$ 0.00	29	26.15	20.76	0.39	1.38
1	703	Heat Pump Water Heater (air source)	Restaurant	20%	20%	$ 0.08	6.17	4.94	0.56	15	7.17	0.81	0.42	$ 0.01	68	11.34	9.00	0.90	1.38
1	704	Hot Water Pipe Insulation	Restaurant	2%	2%	$ 0.01	6.17	6.05	0.68	15	0.05	0.01	0.00	$ 0.01	90	8.57	6.80	1.19	1.38
1	706	Heat Recovery Unit	Restaurant	65%	65%	$ 0.08	6.17	2.16	0.24	10	23.32	2.64	1.36	$ 0.00	28	27.15	24.07	0.27	1.38
1	707	Heat Trap	Restaurant	9%	9%	$ 0.01	6.31	5.75	0.65	10	2.32	0.26	0.14	$ 0.00	16	48.07	42.63	0.15	1.38
1	708	Tankless Water Heater	Restaurant	10%	10%	$ 0.03	6.17	5.56	0.63	20	3.36	0.38	0.20	$ 0.00	44	17.59	12.78	0.67	1.38
1	709	Solar Water Heater	Restaurant	70%	70%	$ 0.26	6.17	1.85	0.21	20	6.28	0.71	0.37	$ 0.01	52	14.68	10.67	0.80	1.38
1	800	Base Vending Machines	Restaurant	0%	0%	$ -	0.21	0.21	0.03	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	900	Base Oven	Restaurant	0%	0%	$ -	0.72	0.72	0.10	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Convection Oven	Restaurant	15%	15%	$ 0.25	0.72	0.61	0.08	10	2.59	0.35	0.21	$ 0.37	2,670	0.25	0.21	30.76	1.44

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	905	Base Fryer	Restaurant	0%	0%	$ -	20.40	20.40	2.79	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	906	Efficient Fryer	Restaurant	6%	6%	$ 0.07	20.40	19.09	2.61	10	9.61	1.31	0.77	$ 0.01	60	11.06	9.35	0.70	1.44
1	910	Base Steamer	Restaurant	0%	0%	$ -	7.04	7.04	0.96	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Efficient Steamer	Restaurant	89%	89%	$ 0.80	7.04	0.78	0.11	10	81.97	11.21	6.56	$ 0.02	149	4.46	3.77	1.72	1.44
1	915	Base Hot Food Holding Cabinets	Restaurant	0%	0%	$ -	1.13	1.13	0.15	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	916	Energy Star Hot Food Holding Cabinets	Restaurant	13%	13%	$ 0.03	1.13	0.98	0.13	10	3.40	0.46	0.27	$ 0.04	274	2.43	2.06	3.16	1.44
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Retail	0%	0%	$ 0.56	3.76	3.76	0.45	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	Retail	25%	25%	$ 0.65	3.76	2.82	0.34	14	6.16	0.74	0.40	$ 0.07	592	1.23	0.90	9.39	1.39
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	Retail	65%	65%	$ 0.77	3.76	1.30	0.16	14	4.60	0.55	0.30	$ 0.03	275	2.65	1.97	4.24	1.39
1	103	LED Indoor Lighting - Base 4L4'T12	Retail	59%	59%	$ 2.14	3.76	1.55	0.19	38	14.47	1.74	0.95	$ 0.08	661	0.91	0.65	13.08	1.39
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	Retail	17%	20%	$ 0.14	3.76	3.13	0.36	9	0.59	0.08	0.05	$ 0.04	258	2.47	2.13	2.90	1.45
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	Retail	30%	52%	$ 0.75	3.76	2.61	0.22	10	1.28	0.27	0.07	$ 0.11	512	0.99	0.73	8.89	1.65
1	106	Lighting Control Tuneup	Retail	4%	1%	$ 0.01	3.86	3.69	0.46	6	0.27	0.01	0.02	$ 0.02	600	3.30	4.20	1.13	1.06
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	Retail	25%	25%	$ 0.20	3.35	2.51	0.30	20	2.36	0.28	0.15	$ 0.02	198	3.68	2.65	3.23	1.39
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Retail	0%	0%	$ 0.88	3.59	3.59	0.43	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Retail	25%	25%	$ 1.10	3.59	2.69	0.32	14	10.75	1.30	0.70	$ 0.13	1,056	0.69	0.51	16.53	1.39
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Retail	65%	65%	$ 1.48	3.59	1.25	0.15	14	4.45	0.54	0.29	$ 0.07	569	1.28	0.97	8.54	1.39
1	123	LED Indoor Lighting - Base 2L4'T12	Retail	59%	59%	$ 2.28	3.59	1.48	0.18	38	28.02	3.38	1.84	$ 0.09	734	0.82	0.59	14.54	1.39
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Retail	17%	20%	$ 0.14	3.59	2.99	0.35	8	1.15	0.16	0.09	$ 0.04	296	2.15	1.91	3.03	1.45
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Retail	30%	52%	$ 0.75	3.59	2.50	0.21	10	2.49	0.51	0.14	$ 0.11	536	0.94	0.70	9.31	1.65
1	126	Lighting Control Tuneup - Base 2L4'T12	Retail	4%	1%	$ 0.01	3.69	3.53	0.44	6	0.51	0.02	0.04	$ 0.02	628	3.15	4.01	1.19	1.06
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Retail	25%	25%	$ 0.20	3.20	2.40	0.29	20	4.57	0.55	0.30	$ 0.02	207	3.51	2.53	3.38	1.39
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Retail	0%	0%	$ 0.69	3.59	3.59	0.43	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	131	RET 2 - 2L4' Premium T8, 1EB - Base 2L8'T12	Retail	13%	13%	$ 1.28	3.59	3.12	0.38	14	4.17	0.50	0.27	$ 0.30	2,524	0.29	0.22	37.50	1.39
1	132	RET 2 - 1L4' Premium T8, 1EB, Reflector OEM - Base 2L8'T12	Retail	60%	60%	$ 1.73	3.59	1.45	0.17	14	8.26	1.00	0.54	$ 0.09	756	0.96	0.74	10.94	1.39
1	133	LED Indoor Lighting - Base 2L8'T12	Retail	59%	59%	$ 2.85	3.59	1.48	0.18	38	18.94	2.28	1.24	$ 0.11	921	0.65	0.47	18.24	1.39
1	134	Occupancy Sensor, 4L8' Fluorescent Fixtures - Base 2L8'T12	Retail	17%	20%	$ 0.14	3.59	2.99	0.35	9	0.77	0.11	0.06	$ 0.04	270	2.36	2.04	3.03	1.45
1	135	Continuous Dimming, 5L8' Fluorescent Fixtures - Base 2L8'T12	Retail	30%	52%	$ 0.75	3.59	2.50	0.21	10	1.68	0.35	0.09	$ 0.11	536	0.94	0.70	9.31	1.65
1	136	High Performance Lighting Remod/Renov - 25% Savings - Base 2L8'T12	Retail	25%	25%	$ 0.20	3.20	2.40	0.29	20	3.09	0.37	0.20	$ 0.02	207	3.51	2.53	3.38	1.39
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Retail	0%	0%	$ 0.38	14.30	14.30	1.72	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Retail	72%	72%	$ 0.50	14.30	4.00	0.48	5	114.29	13.78	7.49	$ 0.01	115	6.33	6.34	0.66	1.39
1	142	Cold Cathode Lamps	Retail	72%	72%	$ 1.46	14.30	4.00	0.48	10	12.70	1.53	0.83	$ 0.02	198	3.68	3.24	2.01	1.39
1	143	Screw-in LED--Base Incandescent	Retail	93%	93%	$ 5.09	14.30	1.00	0.12	38	164.03	19.78	10.74	$ 0.03	260	2.31	1.66	5.14	1.39
1	145	Base CFL to screw-in replacement	Retail	0%	0%	$ 1.01	3.91	3.91	0.47	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	Retail	68%	68%	$ 5.23	3.91	1.27	0.15	38	3.14	0.38	0.21	$ 0.16	1,345	0.45	0.32	26.63	1.39
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Retail	0%	0%	$ 0.30	14.30	14.30	1.72	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Retail	76%	76%	$ 3.15	14.30	3.43	0.41	14	70.09	8.45	4.59	$ 0.04	291	2.50	2.01	3.92	1.39
1	152	Ceramic Metal Halide	Retail	56%	56%	$ 8.01	14.30	6.29	0.76	4	5.16	0.62	0.34	$ 0.36	3,025	0.24	0.25	14.15	1.39
1	153	Hardwired LED fixture--Base Incandescent	Retail	93%	93%	$ 6.05	14.30	1.00	0.12	38	95.30	11.49	6.24	$ 0.04	309	1.94	1.40	6.12	1.39
1	155	Base CFL to Hardwired replacement	Retail	0%	0%	$ 3.93	3.91	3.91	0.47	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Retail	68%	68%	$ 5.39	3.91	1.27	0.15	38	1.45	0.17	0.09	$ 0.17	1,386	0.43	0.31	27.46	1.39
1	160	Base High Bay Probe-start Metal Halide, 400W	Retail	0%	0%	$ 1.07	2.69	2.69	0.32	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	Retail	49%	49%	$ 0.37	2.86	1.47	0.18	14	17.84	2.15	1.17	$ 0.03	269	2.70	2.17	3.62	1.39
1	162	PSMH + electronic ballast	Retail	37%	37%	$ 0.88	2.69	1.70	0.21	17	14.45	1.74	0.95	$ 0.10	788	0.92	0.70	11.96	1.39
1	163	Induction High Bay Lighting - Base Std MH	Retail	37%	37%	$ 1.16	2.69	1.69	0.20	38	14.71	1.77	0.96	$ 0.09	782	0.77	0.55	15.49	1.39
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	Retail	17%	2%	$ 0.14	2.78	2.30	0.33	15	1.53	0.02	0.12	$ 0.03	2,289	1.96	2.17	3.72	0.98
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	Retail	25%	25%	$ 0.20	1.70	1.27	0.15	20	2.66	0.32	0.17	$ 0.05	392	1.86	1.34	6.39	1.39
1	180	Base 4L4'T8, 1EB	Retail	0%	0%	$ -	2.39	2.39	0.29	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	Retail	16%	16%	$ 0.06	2.54	2.14	0.26	14	7.54	0.91	0.49	$ 0.02	145	5.02	4.04	1.95	1.39
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	Retail	20%	20%	$ 0.14	2.39	1.91	0.23	9	2.06	0.25	0.13	$ 0.05	405	1.80	1.62	3.82	1.39
1	183	Lighting Control Tuneup - Base 4L4'T8	Retail	4%	1%	$ 0.01	2.46	2.35	0.29	6	0.78	0.03	0.06	$ 0.03	942	2.10	2.68	1.78	1.06
1	184	LED Indoor Lighting - Base 4L4'T8	Retail	29%	29%	$ 1.58	2.39	1.70	0.20	38	20.99	2.53	1.37	$ 0.19	1,545	0.39	0.28	30.59	1.39
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	Retail	25%	25%	$ 0.20	2.39	1.79	0.22	20	7.72	0.93	0.51	$ 0.03	277	2.62	1.89	4.53	1.39
1	190	Base 2L4'T8, 1EB	Retail	0%	0%	$ -	2.39	2.39	0.29	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	Retail	17%	17%	$ 0.08	2.55	2.11	0.25	14	17.80	2.15	1.17	$ 0.02	182	3.99	3.21	2.45	1.39
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Retail	20%	20%	$ 0.14	2.41	1.92	0.23	9	4.26	0.51	0.28	$ 0.05	402	1.81	1.63	3.80	1.39
1	193	Lighting Control Tuneup - Base 2L4'T8	Retail	4%	1%	$ 0.01	2.46	2.35	0.29	6	1.64	0.06	0.12	$ 0.03	942	2.10	2.68	1.78	1.06
1	194	LED Indoor Lighting - Base 2L4'T8	Retail	29%	29%	$ 1.62	2.39	1.70	0.20	38	44.45	5.36	2.91	$ 0.19	1,584	0.38	0.27	31.37	1.39
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Retail	25%	25%	$ 0.20	2.39	1.79	0.22	20	16.36	1.97	1.07	$ 0.03	277	2.62	1.89	4.53	1.39
1	200	Base Exit Sign	Retail	0%	0%	$ -	0.02	0.02	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Retail	81%	81%	$ 0.01	0.02	0.00	0.00	13	3.17	0.38	0.21	$ 0.08	680	1.07	0.88	8.66	1.39
1	210	Base Outdoor Mercury Vapor 400W Lamp	Retail	0%	0%	$ -	1.07	1.07	0.05	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Retail	35%	35%	$ 0.13	1.22	0.79	0.03	14	57.74	2.52	13.50	$ 0.04	821	1.95	1.97	3.99	1.10
1	212	LED Outdoor Area Lighting	Retail	52%	52%	$ 0.22	1.07	0.52	0.02	23	115.13	5.02	26.92	$ 0.04	859	1.76	1.59	5.36	1.10
1	213	LED Outdoor Bi-level Fixtures	Retail	70%	70%	$ 0.98	1.07	0.33	0.01	23	77.19	3.36	18.05	$ 0.13	2,873	0.53	0.48	17.93	1.10
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Retail	24%	0%	$ 0.02	1.18	0.90	0.05	14	31.83	0.00	11.70	$ 0.01	N/A	5.77	7.25	1.09	0.89
1	220	Base Street Lighting	Retail	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Retail	0%	0%	$ 0.66	2.47	2.47	1.28	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Retail	12%	12%	$ 0.11	2.57	2.26	1.17	20	6.59	3.42	0.83	$ 0.03	65	4.76	1.86	4.59	2.55
1	302	Window Film (Standard)	Retail	2%	2%	$ 0.12	2.48	2.42	1.26	10	0.77	0.40	0.10	$ 0.30	587	0.53	0.25	25.64	2.55
1	303	EMS - Chiller	Retail	10%	10%	$ 0.18	2.47	2.22	1.15	15	7.72	4.01	0.98	$ 0.08	163	1.91	0.82	9.87	2.55
1	304	Cool Roof - Chiller	Retail	4%	4%	$ 0.48	2.50	2.41	1.25	10	0.91	0.47	0.12	$ 0.84	1,620	0.19	0.09	70.79	2.55
1	305	Chiller Tune Up/Diagnostics	Retail	7%	4%	$ 0.10	2.55	2.38	1.27	10	1.98	0.62	0.30	$ 0.10	303	1.27	0.81	8.01	1.91
1	307	EMS Optimization	Retail	4%	1%	$ 0.03	2.51	2.42	1.29	5	1.09	0.19	0.19	$ 0.09	526	1.02	0.95	4.36	1.48
1	308	Economizer - Chiller	Retail	16%	5%	$ 0.51	2.92	2.46	1.43	15	0.14	0.02	0.02	$ 0.13	743	0.72	0.53	15.21	1.48

DSM ASSYST SUMMARY — Year 2011

Vintage: Existing — Batch: 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	309	Duct/Pipe Insulation - Chiller	Retail	2%	2%	$ 0.77	2.48	2.43	1.26	10	0.92	0.48	0.12	$ 2.49	4,804	0.06	0.03	209.96	2.55
1	311	High Efficiency Chiller Motors	Retail	3%	3%	$ 0.04	2.48	2.40	1.24	20	2.20	1.14	0.28	$ 0.05	99	3.13	1.23	6.96	2.55
1	350	Base DX Packaged System, EER=10.3, 10 tons	Retail	0%	0%	$ 2.31	4.28	4.28	2.22	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Retail	4%	3%	$ 0.13	4.40	4.22	2.23	10	8.45	2.65	1.29	$ 0.11	352	1.09	0.70	9.30	1.91
1	352	DX Packaged System, EER=10.9, 10 tons	Retail	6%	6%	$ 0.08	4.28	4.04	2.10	15	44.19	22.93	5.60	$ 0.04	76	4.10	1.76	4.60	2.55
1	353	DX Packaged System, EER=11.5, 10 tons	Retail	10%	10%	$ 0.32	4.28	3.83	1.99	15	83.49	43.33	10.57	$ 0.08	160	1.94	0.83	9.74	2.55
1	354	DX Packaged System, EER=13.4, 10 tons	Retail	23%	23%	$ 3.12	4.28	3.29	1.71	15	184.64	95.82	23.38	$ 0.37	707	0.44	0.19	42.89	2.55
1	357	Window Film (Standard)	Retail	2%	2%	$ 0.12	4.31	4.20	2.18	10	6.93	3.60	0.88	$ 0.18	338	0.92	0.44	14.75	2.55
1	358	Prog. Thermostat - DX	Retail	4%	1%	$ 0.06	4.33	4.17	2.22	8	20.17	3.53	3.45	$ 0.07	415	1.29	1.12	5.19	1.48
1	359	Cool Roof - DX	Retail	13%	13%	$ 0.48	4.49	3.91	2.03	10	34.41	17.86	4.36	$ 0.13	258	1.21	0.58	11.26	2.55
1	360	Optimize Controls	Retail	4%	1%	$ 0.04	4.39	4.22	2.25	5	7.55	1.32	1.29	$ 0.07	402	1.33	1.25	3.33	1.48
1	361	Economizer	Retail	13%	4%	$ 0.51	4.55	3.97	2.26	15	56.97	9.98	9.73	$ 0.10	589	0.91	0.67	12.06	1.48
1	362	Aerosol Duct Sealing - DX	Retail	7%	7%	$ 0.05	4.28	3.98	2.06	15	17.98	9.33	2.28	$ 0.02	40	7.78	3.33	2.42	2.55
1	363	Ceiling/roof Insulation - DX	Retail	12%	12%	$ 0.24	4.76	4.18	2.17	20	17.36	9.01	2.20	$ 0.04	80	3.89	1.52	5.61	2.55
1	364	Duct/Pipe Insulation - DX	Retail	2%	2%	$ 2.60	4.31	4.22	2.19	10	7.41	3.85	0.94	$ 4.84	9,327	0.03	0.02	407.70	2.55
1	365	DX Coil Cleaning	Retail	5%	5%	$ 0.03	4.38	4.17	2.16	5	15.49	8.04	1.96	$ 0.04	68	4.55	2.48	1.68	2.55
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Retail	0%	0%	$ 0.01	0.94	0.94	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Retail	2%	2%	$ 0.01	0.94	0.92	0.16	20	2.81	0.50	0.27	$ 0.03	149	3.68	2.41	3.55	1.53
1	402	Variable Speed Drive Control, 5 HP	Retail	26%	8%	$ 0.11	0.99	0.72	0.16	15	40.09	2.00	4.36	$ 0.05	948	1.47	1.46	5.52	1.10
1	403	Demand Controlled Ventilation	Retail	14%	8%	$ 0.12	0.94	0.81	0.15	15	16.94	1.62	1.77	$ 0.11	1,162	0.71	0.62	12.97	1.25
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Retail	0%	0%	$ 0.06	0.87	0.87	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	Retail	2%	2%	$ 0.01	0.87	0.86	0.15	20	0.22	0.04	0.02	$ 0.11	630	0.87	0.57	14.99	1.53
1	412	Variable Speed Drive Control, 15 HP	Retail	26%	8%	$ 0.31	0.91	0.67	0.15	20	4.55	0.23	0.50	$ 0.13	2,556	0.55	0.50	17.23	1.10
1	413	Air Handler Optimization, 15 HP	Retail	9%	3%	$ 0.03	0.87	0.80	0.15	8	0.64	0.03	0.07	$ 0.07	1,480	0.94	1.10	5.27	1.10
1	414	Energy Recovery Ventilation	Retail	7%	7%	$ 0.21	0.87	0.81	0.14	20	1.36	0.24	0.13	$ 0.34	1,922	0.29	0.19	45.75	1.53
1	415	Electronically Commutated Motors (ECM) on an air handler unit	Retail	14%	14%	$ 0.04	0.87	0.74	0.13	15	2.88	0.51	0.28	$ 0.04	228	2.40	1.72	4.70	1.53
1	417	Demand Controlled Ventilation	Retail	14%	8%	$ 0.12	0.87	0.75	0.14	15	1.92	0.18	0.20	$ 0.12	1,254	0.66	0.58	13.99	1.25
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Retail	0%	0%	$ 0.07	0.86	0.86	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	421	Fan Motor, 40hp, 1800rpm, 94.1%	Retail	1%	1%	$ 0.02	0.86	0.85	0.15	20	0.25	0.04	0.02	$ 0.19	1,087	0.50	0.33	25.88	1.53
1	422	Variable Speed Drive Control, 40 HP	Retail	26%	8%	$ 0.30	0.90	0.66	0.15	20	6.81	0.34	0.74	$ 0.13	2,544	0.55	0.50	17.14	1.10
1	423	Air Handler Optimization, 40 HP	Retail	9%	3%	$ 0.03	0.86	0.78	0.15	8	0.95	0.05	0.10	$ 0.07	1,505	0.93	1.08	5.35	1.10
1	424	Demand Controlled Ventilation	Retail	14%	8%	$ 0.12	0.86	0.74	0.14	15	2.88	0.27	0.30	$ 0.12	1,275	0.65	0.57	14.22	1.25
1	500	Base Non-Commercial Refrigerator	Retail	0%	0%	$ 0.12	0.07	0.07	0.01	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Energy Star Refrigerator	Retail	20%	20%	$ 0.01	0.07	0.06	0.01	13	2.02	0.23	0.23	$ 0.08	676	1.09	0.95	8.04	1.32
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Retail	25%	25%	$ 0.02	0.07	0.06	0.01	13	2.53	0.28	0.29	$ 0.14	1,226	0.60	0.52	14.57	1.32
1	520	Base Refrigeration System	Retail	0%	0%	$ -	0.31	0.31	0.04	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Retail	12%	12%	$ 0.12	0.31	0.28	0.03	20	6.71	0.76	0.77	$ 0.31	2,737	0.27	0.21	41.68	1.32
1	522	Strip curtains for walk-ins	Retail	4%	4%	$ 0.00	0.31	0.30	0.03	4	2.26	0.25	0.26	$ 0.14	1,221	0.61	0.66	5.33	1.32
1	523	Night covers for display cases	Retail	5%	0%	$ 0.01	0.31	0.30	0.04	5	2.86	0.00	0.37	$ 0.20	N/A	0.28	0.43	9.58	0.91
1	524	Evaporator fan controller for MT walk-ins	Retail	0%	0%	$ 0.00	0.31	0.31	0.04	10	0.26	0.00	0.03	$ 0.47	N/A	0.12	0.16	39.90	0.91
1	525	Efficient compressor motor	Retail	7%	7%	$ 0.01	0.31	0.29	0.03	10	3.83	0.43	0.44	$ 0.07	583	1.27	1.18	5.53	1.32
1	526	Compressor VSD retrofit	Retail	6%	3%	$ 0.04	0.31	0.30	0.03	13	3.22	0.19	0.39	$ 0.28	4,722	0.25	0.26	29.84	1.13
1	527	Floating head pressure controls	Retail	6%	0%	$ 0.01	0.31	0.30	0.04	14	3.37	0.00	0.44	$ 0.08	N/A	0.72	0.88	8.93	0.91
1	528	Refrigeration Commissioning	Retail	5%	5%	$ 0.02	0.32	0.31	0.03	3	0.29	0.03	0.03	$ 0.49	4,371	0.17	0.19	14.69	1.32
1	529	Demand Hot Gas Defrost	Retail	3%	3%	$ 0.00	0.31	0.31	0.03	10	1.40	0.16	0.16	$ 0.07	587	1.26	1.17	5.56	1.32
1	530	Demand Defrost Electric	Retail	8%	8%	$ 0.00	0.31	0.29	0.03	10	4.35	0.49	0.50	$ 0.02	189	3.90	3.62	1.80	1.32
1	531	Anti-sweat (humidistat) controls	Retail	5%	2%	$ 0.02	0.31	0.30	0.03	12	2.59	0.16	0.31	$ 0.15	2,491	0.48	0.50	14.76	1.13
1	533	Freezer-Cooler Replacement Gaskets	Retail	7%	7%	$ 0.00	0.33	0.30	0.03	4	1.91	0.22	0.22	$ 0.06	499	1.48	1.61	2.18	1.32
1	534	High R-Value Glass Doors	Retail	2%	2%	$ 0.01	0.31	0.31	0.03	10	0.91	0.10	0.10	$ 0.41	3,621	0.20	0.19	34.32	1.32
1	535	Multiplex Compressor System	Retail	14%	14%	$ 0.27	0.31	0.27	0.03	14	7.99	0.90	0.91	$ 0.73	6,517	0.11	0.10	81.82	1.32
1	536	Oversized Air-Cooled Condenser	Retail	8%	8%	$ 0.05	0.33	0.30	0.03	16	2.36	0.27	0.27	$ 0.23	2,023	0.37	0.30	27.70	1.32
1	537	LED Display Lighting	Retail	1%	1%	$ 0.01	0.31	0.31	0.04	10	0.23	0.03	0.03	$ 0.80	7,077	0.10	0.10	67.08	1.32
1	538	Fiber Optic Display Lighting	Retail	25%	25%	$ 0.01	0.31	0.24	0.03	10	6.87	0.77	0.78	$ 0.03	274	2.70	2.50	2.60	1.32
1	539	Beverage Merchandisers	Retail	2%	2%	$ 0.28	0.32	0.31	0.03	10	0.80	0.09	0.09	$ 6.48	57,598	0.01	0.01	545.94	1.32
1	540	Reach-In Refrigerators	Retail	2%	2%	$ 0.02	0.32	0.31	0.04	10	0.61	0.07	0.07	$ 0.53	4,728	0.16	0.14	44.81	1.32
1	541	Reach-In Freezers	Retail	1%	1%	$ 0.06	0.32	0.31	0.04	10	0.48	0.05	0.05	$ 2.54	22,553	0.03	0.03	213.76	1.32
1	610	Base Desktop PC	Retail	0%	0%	$ -	0.33	0.33	0.04	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Retail	32%	25%	$ 0.00	0.35	0.24	0.03	4	14.52	1.35	0.90	$ 0.00	21	42.83	47.45	0.07	1.29
1	612	PC Manual Power Management Enabling	Retail	65%	45%	$ 0.00	0.39	0.14	0.03	4	30.32	2.51	1.91	$ 0.01	76	12.66	14.45	0.24	1.25
1	613	PC Network Power Management Enabling	Retail	65%	45%	$ 0.00	0.39	0.14	0.03	4	30.32	2.51	1.91	$ 0.01	76	12.66	14.45	0.24	1.25
1	620	Base Monitor, CRT	Retail	0%	0%	$ -	0.29	0.29	0.03	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Retail	56%	56%	$ 0.00	0.30	0.13	0.02	4	21.65	2.57	1.29	$ 0.00	6	120.55	123.89	0.03	1.39
1	622	Monitor Power Management Enabling - CRT	Retail	51%	35%	$ 0.00	0.48	0.24	0.04	4	7.09	0.59	0.45	$ 0.00	46	20.81	23.76	0.15	1.25
1	630	Base Monitor, LCD	Retail	0%	0%	$ -	0.07	0.07	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Retail	2%	2%	$ 0.00	0.07	0.07	0.01	4	0.05	0.01	0.00	$ 0.12	1,038	0.71	0.73	4.79	1.39
1	632	Monitor Power Management Enabling - LCD	Retail	26%	18%	$ 0.00	0.09	0.07	0.01	4	0.10	0.01	0.01	$ 0.06	764	1.25	1.43	2.45	1.25
1	640	Base Copier	Retail	0%	0%	$ -	0.22	0.22	0.03	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Retail	21%	21%	$ 0.00	0.23	0.18	0.02	6	5.66	0.67	0.34	$ 0.00	1	795.63	772.95	0.01	1.39
1	642	Copier Power Management Enabling	Retail	18%	13%	$ 0.00	0.23	0.19	0.02	6	3.39	0.28	0.21	$ 0.01	66	14.51	15.66	0.30	1.25
1	650	Base Laser Printer	Retail	0%	0%	$ -	0.43	0.43	0.05	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Retail	47%	32%	$ 0.00	0.77	0.41	0.06	5	2.96	0.24	0.19	$ 0.00	45	21.03	23.33	0.18	1.25
1	660	Base Data Center/Server Room	Retail	0%	0%	$ -	300.68	300.68	35.76	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Retail	20%	20%	$ 0.10	313.21	250.57	29.80	10	1.92	0.23	0.11	$ 0.00	2	342.69	300.69	0.02	1.39
1	662	Data Center Best Practices	Retail	45%	45%	$ 0.50	314.85	173.17	20.59	10	2.44	0.29	0.15	$ 0.00	5	155.02	136.02	0.05	1.39
1	663	Data Center State of the Art practices	Retail	56%	56%	$ 1.00	300.68	132.30	15.73	10	1.07	0.13	0.06	$ 0.00	8	92.11	80.82	0.08	1.39

DSM ASSYST SUMMARY						Year 2011													
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	700	Base Water Heating	Retail	0%	0%	$ -	0.84	0.84	0.09	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Retail	5%	5%	$ 0.01	0.84	0.79	0.09	15	2.81	0.30	0.15	$ 0.03	298	2.66	2.16	3.73	1.35
1	702	High Efficiency Water Heater (electric)	Retail	2%	2%	$ 0.00	0.84	0.82	0.09	15	1.39	0.15	0.08	$ 0.01	110	7.19	5.84	1.38	1.35
1	703	Heat Pump Water Heater (air source)	Retail	20%	20%	$ 0.04	0.84	0.67	0.07	15	11.98	1.28	0.65	$ 0.03	255	3.11	2.53	3.19	1.35
1	704	Hot Water Pipe Insulation	Retail	2%	2%	$ 0.01	0.84	0.82	0.09	15	0.96	0.10	0.05	$ 0.04	336	2.36	1.92	4.21	1.35
1	706	Heat Recovery Unit	Retail	65%	65%	$ 0.08	0.84	0.29	0.03	10	2.43	0.26	0.13	$ 0.02	221	3.60	3.26	1.99	1.35
1	707	Heat Trap	Retail	9%	9%	$ 0.00	0.86	0.78	0.08	10	3.88	0.42	0.21	$ 0.01	60	13.21	11.98	0.54	1.35
1	708	Tankless Water Heater	Retail	10%	10%	$ 0.01	0.84	0.75	0.08	20	5.62	0.60	0.30	$ 0.02	164	4.83	3.59	2.38	1.35
1	709	Solar Water Heater	Retail	70%	70%	$ 0.12	0.84	0.25	0.03	20	2.10	0.22	0.11	$ 0.02	197	4.03	3.00	2.85	1.35
1	800	Base Vending Machines	Retail	0%	0%	$ -	0.08	0.08	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Retail	38%	26%	$ 0.01	0.09	0.05	0.01	10	2.61	0.22	0.19	$ 0.03	420	2.27	2.22	2.93	1.25
1	900	Base Oven	Retail	0%	0%	$ -	0.21	0.21	0.03	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Convection Oven	Retail	15%	15%	$ 0.01	0.21	0.18	0.02	10	1.06	0.13	0.04	$ 0.03	216	3.42	2.97	2.19	1.40
1	905	Base Fryer	Retail	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Steamer	Retail	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	915	Base Hot Food Holding Cabinets	Retail	0%	0%	$ -	0.66	0.66	0.08	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Grocery	0%	0%	$ 0.67	8.88	8.88	0.90	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Grocery	0%	0%	$ 1.05	8.71	8.71	0.89	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Grocery	25%	25%	$ 1.30	8.71	6.54	0.66	14	6.17	0.63	0.61	$ 0.06	611	1.34	1.04	8.07	1.31
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Grocery	65%	65%	$ 1.75	8.71	3.03	0.31	14	2.56	0.26	0.25	$ 0.03	329	2.48	1.98	4.17	1.31
1	123	LED Indoor Lighting - Base 2L4'T12	Grocery	59%	59%	$ 2.70	8.71	3.60	0.37	23	16.10	1.64	1.59	$ 0.05	491	1.57	1.20	7.14	1.31
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Grocery	17%	20%	$ 0.14	8.71	7.22	0.71	8	0.47	0.06	0.05	$ 0.02	144	5.00	4.73	1.22	1.35
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Grocery	32%	52%	$ 0.75	8.71	5.94	0.43	10	2.27	0.38	0.18	$ 0.04	262	2.19	1.77	3.66	1.51
1	126	Lighting Control Tuneup - Base 2L4'T12	Grocery	5%	1%	$ 0.01	8.86	8.46	0.89	6	0.30	0.01	0.03	$ 0.01	310	7.45	9.78	0.49	1.03
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Grocery	25%	25%	$ 0.20	7.78	5.83	0.59	20	2.62	0.27	0.26	$ 0.01	101	8.07	6.15	1.39	1.31
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Grocery	0%	0%	$ 0.82	8.71	8.71	0.89	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	131	RET 2 - 2L4' Premium T8, 1EB - Base 2L8'T12	Grocery	13%	13%	$ 1.52	8.71	7.59	0.77	14	14.87	1.51	1.47	$ 0.15	1,462	0.56	0.45	18.31	1.31
1	132	RET 2 - 1L4' Premium T8, 1EB, Reflector OEM - Base 2L8'T12	Grocery	60%	60%	$ 2.05	8.71	3.51	0.36	14	29.47	3.00	2.92	$ 0.04	438	1.87	1.52	5.34	1.31
1	133	LED Indoor Lighting - Base 2L8'T12	Grocery	59%	59%	$ 3.38	8.71	3.60	0.37	23	67.59	6.87	6.70	$ 0.06	615	1.25	0.95	8.96	1.31
1	134	Occupancy Sensor, 4L8' Fluorescent Fixtures - Base 2L8'T12	Grocery	17%	20%	$ 0.14	8.71	7.22	0.71	9	1.98	0.23	0.23	$ 0.02	132	5.48	5.06	1.22	1.35
1	135	Continuous Dimming, 5L8' Fluorescent Fixtures - Base 2L8'T12	Grocery	32%	52%	$ 0.75	8.71	5.94	0.43	10	9.53	1.58	0.77	$ 0.04	262	2.19	1.77	3.66	1.51
1	136	High Performance Lighting Remod/Renov - 25% Savings - Base 2L8'T12	Grocery	25%	25%	$ 0.20	7.78	5.83	0.59	20	11.02	1.12	1.09	$ 0.01	101	8.07	6.15	1.39	1.31
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Grocery	0%	0%	$ 0.56	34.74	34.74	3.53	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Grocery	72%	72%	$ 0.73	34.74	9.73	0.99	5	113.92	11.58	11.29	$ 0.01	82	9.96	10.53	0.39	1.31
1	142	Cold Cathode Lamps	Grocery	72%	72%	$ 2.13	34.74	9.73	0.99	6	12.66	1.29	1.25	$ 0.02	212	3.85	3.96	1.20	1.31
1	143	Screw-in LED--Base Incandescent	Grocery	93%	93%	$ 7.44	34.74	2.43	0.25	23	163.49	16.62	16.20	$ 0.02	214	3.61	2.75	3.11	1.31
1	145	Base CFL to screw-in replacement	Grocery	0%	0%	$ 1.47	9.51	9.51	0.97	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Grocery	0%	0%	$ 0.44	34.74	34.74	3.53	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Grocery	76%	76%	$ 4.60	34.74	8.34	0.85	14	26.72	2.72	2.65	$ 0.02	208	3.93	3.34	2.36	1.31
1	152	Ceramic Metal Halide	Grocery	56%	56%	$11.70	34.74	15.28	1.55	2	1.97	0.20	0.20	$ 0.35	3,418	0.24	0.28	7.08	1.31
1	153	Hardwired LED fixture--Base Incandescent	Grocery	93%	93%	$ 8.84	34.74	2.43	0.25	23	36.33	3.69	3.60	$ 0.03	254	3.03	2.31	3.70	1.31
1	155	Base CFL to Hardwired replacement	Grocery	0%	0%	$ 5.75	9.51	9.51	0.97	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Grocery	68%	68%	$ 7.88	9.51	3.09	0.31	23	1.23	0.13	0.12	$ 0.12	1,142	0.68	0.51	16.62	1.31
1	160	Base High Bay Probe-start Metal Halide, 400W	Grocery	0%	0%	$ 1.27	6.54	6.54	0.66	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	Grocery	49%	49%	$ 0.44	6.54	3.36	0.34	14	5.91	0.60	0.59	$ 0.02	166	4.92	4.19	1.88	1.31
1	162	PSMH + electronic ballast	Grocery	37%	37%	$ 1.05	7.71	4.88	0.50	10	3.07	0.31	0.30	$ 0.06	565	1.45	1.34	4.83	1.31
1	163	Induction High Bay Lighting - Base Std MH	Grocery	37%	37%	$ 1.37	6.54	4.09	0.42	23	4.54	0.46	0.45	$ 0.05	523	1.48	1.12	7.60	1.31
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	Grocery	18%	2%	$ 0.14	6.75	5.56	0.67	9	0.48	0.01	0.05	$ 0.02	1,663	3.19	4.13	1.50	0.97
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	Grocery	25%	25%	$ 0.20	4.12	3.09	0.31	20	0.82	0.08	0.08	$ 0.02	191	4.27	3.25	2.63	1.31
1	180	Base 4L4'T8, 1EB	Grocery	0%	0%	$ -	5.81	5.81	0.59	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	190	Base 2L4'T8, 1EB	Grocery	0%	0%	$ -	5.81	5.81	0.59	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Grocery	20%	20%	$ 0.14	5.81	4.65	0.47	9	0.37	0.04	0.04	$ 0.02	198	4.13	3.93	1.57	1.31
1	193	Lighting Control Tuneup - Base 2L4'T8	Grocery	5%	1%	$ 0.01	5.91	5.64	0.59	6	0.20	0.01	0.02	$ 0.01	465	4.97	6.52	0.73	1.03
1	194	LED Indoor Lighting - Base 2L4'T8	Grocery	29%	29%	$ 2.33	5.81	4.12	0.42	23	5.33	0.54	0.53	$ 0.13	1,279	0.60	0.46	18.61	1.31
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Grocery	25%	25%	$ 0.20	5.81	4.36	0.44	20	1.96	0.20	0.19	$ 0.01	136	6.03	4.59	1.86	1.31
1	200	Base Exit Sign	Grocery	0%	0%	$ -	0.01	0.01	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Grocery	81%	81%	$ 0.00	0.01	0.00	0.00	13	0.36	0.04	0.04	$ 0.05	491	1.66	1.45	5.27	1.31
1	210	Base Outdoor Mercury Vapor 400W Lamp	Grocery	0%	0%	$ -	1.77	1.77	0.03	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Grocery	35%	35%	$ 0.20	1.77	1.15	0.02	14	10.96	0.17	2.46	$ 0.04	2,496	1.61	1.78	4.43	1.01
1	212	LED Outdoor Area Lighting	Grocery	52%	52%	$ 0.35	1.77	0.85	0.01	23	16.23	0.26	3.64	$ 0.04	2,294	1.65	1.64	5.22	1.01
1	213	LED Outdoor Bi-level Fixtures	Grocery	70%	70%	$ 1.57	1.77	0.54	0.01	23	10.88	0.17	2.44	$ 0.12	7,670	0.49	0.49	17.45	1.01
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Grocery	25%	0%	$ 0.04	1.96	1.48	0.03	14	4.60	0.00	1.59	$ 0.01	N/A	6.04	7.64	1.03	0.88
1	220	Base Street Lighting	Grocery	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Grocery	0%	0%	$ 0.54	6.25	6.25	2.60	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	350	Base DX Packaged System, EER=10.3, 10 tons	Grocery	0%	0%	$ 1.89	10.84	10.84	4.50	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Grocery	4%	3%	$ 0.13	11.16	10.68	4.52	10	4.17	1.01	0.93	$ 0.04	173	2.54	1.83	3.54	1.69
1	352	DX Packaged System, EER=10.9, 10 tons	Grocery	6%	6%	$ 0.07	10.84	10.24	4.25	15	21.09	8.76	4.02	$ 0.01	31	11.12	5.44	1.48	2.23
1	353	DX Packaged System, EER=11.5, 10 tons	Grocery	10%	10%	$ 0.26	10.84	9.71	4.03	15	39.85	16.55	7.60	$ 0.03	65	5.25	2.57	3.14	2.23
1	354	DX Packaged System, EER=13.4, 10 tons	Grocery	23%	23%	$ 2.55	10.84	8.35	3.47	15	88.12	36.61	16.81	$ 0.12	285	1.19	0.58	13.85	2.23
1	357	Window Film (Standard)	Grocery	2%	2%	$ 0.13	10.84	10.57	4.39	10	7.09	2.95	1.35	$ 0.08	189	1.80	0.98	6.60	2.23
1	358	Prog. Thermostat - DX	Grocery	4%	1%	$ 0.05	10.98	10.55	4.50	8	10.18	1.35	2.48	$ 0.02	167	3.82	3.65	1.58	1.34
1	359	Cool Roof - DX	Grocery	13%	13%	$ 0.48	11.13	9.69	4.02	10	20.38	8.47	3.89	$ 0.05	130	2.62	1.43	4.55	2.23
1	360	Optimize Controls	Grocery	4%	1%	$ 0.04	11.13	10.70	4.57	5	3.81	0.51	0.93	$ 0.03	198	3.23	3.35	1.24	1.34
1	361	Economizer	Grocery	1%	0%	$ 0.42	10.88	10.79	4.51	15	1.60	0.21	0.39	$ 0.57	4,279	0.15	0.12	66.34	1.34
1	362	Aerosol Duct Sealing - DX	Grocery	7%	7%	$ 0.04	10.84	10.08	4.19	15	8.58	3.57	1.64	$ 0.01	16	21.10	10.32	0.78	2.23

DSM ASSYST SUMMARY						Year 2011													
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	363	Ceiling/roof Insulation - DX	Grocery	12%	12%	$ 0.24	11.80	10.37	4.31	20	16.66	6.92	3.18	$ 0.02	40	8.43	3.77	2.27	2.23
1	364	Duct/Pipe Insulation - DX	Grocery	2%	2%	$ 2.60	10.87	10.65	4.42	10	5.00	2.08	0.95	$ 1.92	4,622	0.07	0.04	161.71	2.23
1	365	DX Coil Cleaning	Grocery	5%	5%	$ 0.02	11.33	10.78	4.48	5	1.54	0.64	0.29	$ 0.01	27	12.60	7.83	0.53	2.23
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Grocery	0%	0%	$ 0.03	8.30	8.30	1.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Grocery	2%	2%	$ 0.01	8.34	8.16	1.10	20	2.68	0.36	0.30	$ 0.01	40	16.34	11.82	0.72	1.38
1	402	Variable Speed Drive Control, 5 HP	Grocery	27%	8%	$ 0.19	8.30	6.05	1.03	15	41.60	1.55	5.13	$ 0.01	265	6.70	7.01	1.15	1.04
1	403	Demand Controlled Ventilation	Grocery	14%	8%	$ 0.12	8.85	7.61	1.10	15	12.83	0.92	1.53	$ 0.01	161	6.35	5.96	1.36	1.17
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Grocery	0%	0%	$ 0.00	7.69	7.69	1.04	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Grocery	0%	0%	$ 0.00	7.57	7.57	1.02	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Non-Commercial Refrigerator	Grocery	0%	0%	$ 0.05	0.04	0.04	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Energy Star Refrigerator	Grocery	20%	20%	$ 0.00	0.04	0.03	0.00	13	0.12	0.01	0.01	$ 0.06	512	1.38	1.18	6.46	1.34
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Grocery	25%	25%	$ 0.01	0.04	0.03	0.00	13	0.15	0.02	0.02	$ 0.11	929	0.76	0.65	11.71	1.34
1	520	Base Refrigeration System	Grocery	0%	0%	$ -	28.11	28.11	3.36	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Grocery	12%	12%	$ 1.16	28.11	24.74	2.95	20	122.02	14.57	14.55	$ 0.03	289	2.45	1.83	4.66	1.34
1	522	Strip curtains for walk-ins	Grocery	4%	4%	$ 0.05	28.31	27.17	3.24	4	33.96	4.06	4.05	$ 0.02	128	5.54	5.92	0.59	1.34
1	523	Night covers for display cases	Grocery	5%	0%	$ 0.11	28.37	26.93	3.39	5	42.93	0.00	5.85	$ 0.02	N/A	2.55	3.89	1.07	0.91
1	524	Evaporator fan controller for MT walk-ins	Grocery	0%	0%	$ 0.05	28.11	27.97	3.36	10	4.91	0.00	0.67	$ 0.05	N/A	1.08	1.45	4.49	0.91
1	525	Efficient compressor motor	Grocery	7%	7%	$ 0.09	28.11	26.19	3.13	10	69.56	8.31	8.30	$ 0.01	62	11.52	10.50	0.62	1.34
1	526	Compressor VSD retrofit	Grocery	6%	3%	$ 0.41	28.11	26.48	3.25	13	59.24	3.77	7.54	$ 0.03	499	2.27	2.28	3.35	1.14
1	527	Floating head pressure controls	Grocery	6%	0%	$ 0.12	28.96	27.23	3.46	14	31.84	0.00	4.34	$ 0.01	N/A	6.58	8.07	0.98	0.91
1	528	Refrigeration Commissioning	Grocery	5%	5%	$ 0.18	28.83	27.39	3.27	3	26.12	3.12	3.12	$ 0.06	461	1.54	1.69	1.64	1.34
1	529	Demand Hot Gas Defrost	Grocery	3%	3%	$ 0.03	28.32	27.61	3.30	10	18.12	2.16	2.16	$ 0.01	61	11.54	10.51	0.62	1.34
1	530	Demand Defrost Electric	Grocery	8%	8%	$ 0.03	28.11	25.93	3.10	10	79.08	9.44	9.43	$ 0.00	20	35.47	32.32	0.20	1.34
1	531	Anti-sweat (humidistat) controls	Grocery	5%	2%	$ 0.16	29.02	27.66	3.38	12	16.26	1.03	2.07	$ 0.02	255	4.44	4.56	1.61	1.14
1	533	Freezer-Cooler Replacement Gaskets	Grocery	7%	7%	$ 0.03	29.07	27.15	3.24	4	34.78	4.15	4.15	$ 0.01	53	13.47	14.37	0.24	1.34
1	534	High R-Value Glass Doors	Grocery	2%	2%	$ 0.13	28.25	27.79	3.32	10	11.76	1.40	1.40	$ 0.05	380	1.86	1.70	3.82	1.34
1	535	Multiplex Compressor System	Grocery	14%	14%	$ 2.71	29.35	25.16	3.00	14	106.84	12.76	12.74	$ 0.08	658	1.08	0.90	8.77	1.34
1	536	Oversized Air-Cooled Condenser	Grocery	8%	8%	$ 0.54	29.29	26.93	3.22	16	42.91	5.12	5.12	$ 0.03	213	3.32	2.65	3.10	1.34
1	537	LED Display Lighting	Grocery	1%	1%	$ 0.13	28.11	27.88	3.33	10	4.24	0.51	0.51	$ 0.09	746	0.95	0.87	7.51	1.34
1	538	Fiber Optic Display Lighting	Grocery	25%	25%	$ 0.15	28.11	21.22	2.53	10	124.79	14.90	14.88	$ 0.00	29	24.52	22.34	0.29	1.34
1	539	Beverage Merchandisers	Grocery	2%	2%	$ 0.03	28.33	27.71	3.31	10	14.46	1.73	1.72	$ 0.01	72	9.89	9.01	0.72	1.34
1	540	Reach-In Refrigerators	Grocery	2%	2%	$ 0.01	28.28	27.80	3.32	10	11.06	1.32	1.32	$ 0.00	14	50.24	45.78	0.14	1.34
1	541	Reach-In Freezers	Grocery	1%	1%	$ 1.24	28.23	27.87	3.33	10	8.67	1.04	1.03	$ 0.55	4,585	0.15	0.14	46.11	1.34
1	610	Base Desktop PC	Grocery	0%	0%	$ -	0.18	0.18	0.02	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Grocery	32%	25%	$ 0.00	0.19	0.13	0.02	4	1.27	0.12	0.09	$ 0.00	13	66.14	73.79	0.05	1.28
1	612	PC Manual Power Management Enabling	Grocery	65%	45%	$ 0.00	0.22	0.08	0.01	4	1.98	0.16	0.15	$ 0.00	49	19.56	22.49	0.16	1.24
1	613	PC Network Power Management Enabling	Grocery	65%	45%	$ 0.00	0.22	0.08	0.01	4	1.98	0.16	0.15	$ 0.00	49	19.56	22.49	0.16	1.24
1	620	Base Monitor, CRT	Grocery	0%	0%	$ -	0.16	0.16	0.02	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Grocery	56%	56%	$ 0.00	0.16	0.07	0.01	4	1.26	0.15	0.09	$ 0.00	13	55.67	57.61	0.06	1.38
1	622	Monitor Power Management Enabling - CRT	Grocery	51%	35%	$ 0.00	0.27	0.13	0.02	4	0.40	0.03	0.03	$ 0.01	94	10.08	11.59	0.30	1.24
1	630	Base Monitor, LCD	Grocery	0%	0%	$ -	0.04	0.04	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Grocery	2%	2%	$ 0.00	0.04	0.04	0.00	4	0.02	0.00	0.00	$ 0.04	339	2.16	2.23	1.57	1.38
1	632	Monitor Power Management Enabling - LCD	Grocery	27%	18%	$ 0.00	0.05	0.04	0.00	4	0.04	0.00	0.00	$ 0.02	251	3.78	4.35	0.81	1.24
1	640	Base Copier	Grocery	0%	0%	$ -	0.34	0.34	0.04	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Grocery	21%	21%	$ 0.00	0.36	0.28	0.03	6	1.01	0.12	0.07	$ 0.00	1	573.56	561.08	0.01	1.38
1	642	Copier Power Management Enabling	Grocery	18%	13%	$ 0.00	0.36	0.29	0.04	6	0.61	0.05	0.05	$ 0.01	91	10.49	11.39	0.42	1.24
1	650	Base Laser Printer	Grocery	0%	0%	$ -	0.22	0.22	0.03	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Grocery	47%	32%	$ 0.01	0.39	0.21	0.03	5	0.22	0.02	0.02	$ 0.02	194	4.90	5.47	0.76	1.24
1	660	Base Data Center/Server Room	Grocery	0%	0%	$ -	434.14	434.14	51.77	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Grocery	20%	20%	$ 0.10	452.23	361.78	43.14	10	2.07	0.25	0.15	$ 0.00	1	491.38	434.15	0.01	1.38
1	662	Data Center Best Practices	Grocery	45%	45%	$ 0.50	454.60	250.03	29.82	10	2.63	0.31	0.19	$ 0.00	3	222.28	196.39	0.03	1.38
1	663	Data Center State of the Art practices	Grocery	56%	56%	$ 1.00	434.14	191.02	22.78	10	1.16	0.14	0.08	$ 0.00	6	132.08	116.70	0.06	1.38
1	700	Base Water Heating	Grocery	0%	0%	$ -	5.90	5.90	0.63	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Grocery	5%	5%	$ 0.01	5.90	5.61	0.60	15	0.67	0.07	0.04	$ 0.00	42	18.62	15.26	0.53	1.33
1	702	High Efficiency Water Heater (electric)	Grocery	2%	2%	$ 0.00	5.90	5.79	0.62	15	0.36	0.04	0.02	$ 0.00	26	30.90	25.33	0.32	1.33
1	703	Heat Pump Water Heater (air source)	Grocery	20%	20%	$ 0.06	5.90	4.72	0.50	15	2.87	0.31	0.19	$ 0.01	59	13.40	10.98	0.74	1.33
1	704	Hot Water Pipe Insulation	Grocery	2%	2%	$ 0.01	5.90	5.79	0.62	15	0.06	0.01	0.00	$ 0.01	78	10.13	8.30	0.97	1.33
1	706	Heat Recovery Unit	Grocery	65%	65%	$ 0.08	5.90	2.07	0.22	10	9.31	1.00	0.61	$ 0.00	31	25.16	23.03	0.28	1.33
1	707	Heat Trap	Grocery	9%	9%	$ 0.01	6.04	5.50	0.59	10	0.93	0.10	0.06	$ 0.00	14	56.81	52.00	0.12	1.33
1	708	Tankless Water Heater	Grocery	10%	10%	$ 0.02	5.90	5.31	0.57	20	1.34	0.14	0.09	$ 0.00	38	20.79	15.59	0.55	1.33
1	709	Solar Water Heater	Grocery	70%	70%	$ 0.20	5.90	1.77	0.19	20	2.51	0.27	0.16	$ 0.00	45	17.35	13.02	0.66	1.33
1	800	Base Vending Machines	Grocery	0%	0%	$ -	0.47	0.47	0.05	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Grocery	38%	26%	$ 0.01	0.47	0.29	0.04	10	2.51	0.18	0.20	$ 0.01	118	8.82	8.97	0.72	1.20
1	900	Base Oven	Grocery	0%	0%	$ -	1.34	1.34	0.12	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Convection Oven	Grocery	15%	15%	$ 0.03	1.34	1.14	0.11	10	3.00	0.28	0.19	$ 0.03	279	3.15	2.98	2.18	1.29
1	905	Base Fryer	Grocery	0%	0%	$ -	11.97	11.97	1.11	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	906	Efficient Fryer	Grocery	6%	6%	$ 0.06	11.97	11.20	1.04	10	11.10	1.03	0.72	$ 0.01	135	6.51	6.17	1.05	1.29
1	910	Base Steamer	Grocery	0%	0%	$ -	4.60	4.60	0.43	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Efficient Steamer	Grocery	89%	89%	$ 0.10	4.60	0.51	0.05	10	94.66	8.77	6.16	$ 0.00	44	19.99	18.93	0.34	1.29
1	915	Base Hot Food Holding Cabinets	Grocery	0%	0%	$ -	1.59	1.59	0.15	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	916	Energy Star Hot Food Holding Cabinets	Grocery	10%	10%	$ 0.00	1.59	1.44	0.13	10	2.91	0.27	0.19	$ 0.00	36	24.32	23.03	0.28	1.29
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Warehouse	0%	0%	$ 3.46	3.08	3.08	0.36	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	Warehouse	25%	25%	$ 4.01	3.08	2.31	0.27	14	12.47	1.47	0.89	$ 0.54	4,546	0.16	0.12	70.57	1.39
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	Warehouse	65%	65%	$ 4.74	3.08	1.07	0.13	14	9.30	1.10	0.66	$ 0.25	2,111	0.35	0.26	31.90	1.39
1	103	LED Indoor Lighting - Base 4L4'T12	Warehouse	59%	59%	$13.20	3.08	1.27	0.15	36	29.26	3.46	2.09	$ 0.61	5,192	0.12	0.09	99.69	1.39

DSM ASSYST SUMMARY — Year 2011 — Vintage Existing — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	Warehouse	25%	30%	$ 0.14	3.08	2.31	0.25	9	3.56	0.50	0.30	$ 0.03	214	3.03	2.60	2.38	1.45
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	Warehouse	30%	52%	$ 0.75	3.08	2.16	0.17	10	8.51	1.75	0.53	$ 0.13	638	0.80	0.59	11.04	1.66
1	106	Lighting Control Tuneup	Warehouse	4%	1%	$ 0.01	3.18	3.03	0.37	6	0.49	0.02	0.04	$ 0.02	745	2.71	3.44	1.38	1.06
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	Warehouse	25%	25%	$ 0.20	2.75	2.06	0.24	20	4.77	0.56	0.34	$ 0.03	247	3.02	2.17	3.94	1.39
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Warehouse	0%	0%	$ 5.44	3.77	3.77	0.45	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Warehouse	25%	25%	$ 6.75	3.77	2.83	0.33	14	8.73	1.03	0.62	$ 0.75	6,321	0.12	0.09	96.97	1.39
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Warehouse	65%	65%	$ 9.11	3.77	1.31	0.15	14	3.62	0.43	0.26	$ 0.40	3,404	0.22	0.17	50.10	1.39
1	123	LED Indoor Lighting - Base 2L4'T12	Warehouse	59%	59%	$14.02	3.77	1.56	0.18	36	22.75	2.69	1.62	$ 0.53	4,503	0.14	0.10	86.47	1.39
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Warehouse	25%	30%	$ 0.14	3.77	2.83	0.31	8	2.77	0.39	0.24	$ 0.03	192	3.38	2.98	1.94	1.45
1	126	Lighting Control Tuneup - Base 2L4'T12	Warehouse	4%	1%	$ 0.01	3.89	3.72	0.45	6	0.38	0.01	0.03	$ 0.02	609	3.32	4.21	1.13	1.06
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Warehouse	25%	25%	$ 0.20	3.37	2.52	0.30	20	3.71	0.44	0.26	$ 0.02	201	3.70	2.66	3.22	1.39
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Warehouse	0%	0%	$ 4.27	3.77	3.77	0.45	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	131	RET 2 - 2L4' Premium T8, 1EB - Base 2L8'T12	Warehouse	13%	13%	$ 7.90	3.77	3.28	0.39	14	2.74	0.32	0.20	$ 1.78	15,114	0.05	0.04	219.95	1.39
1	132	RET 2 - 1L4' Premium T8, 1EB, Reflector OEM - Base 2L8'T12	Warehouse	60%	60%	$10.66	3.77	1.52	0.18	14	5.43	0.64	0.39	$ 0.53	4,528	0.16	0.13	64.15	1.39
1	133	LED Indoor Lighting - Base 2L8'T12	Warehouse	59%	59%	$17.59	3.77	1.56	0.18	36	12.47	1.47	0.89	$ 0.67	5,648	0.11	0.08	108.45	1.39
1	134	Occupancy Sensor, 4L8' Fluorescent Fixtures - Base 2L8'T12	Warehouse	25%	30%	$ 0.14	3.77	2.83	0.31	9	1.52	0.22	0.13	$ 0.02	175	3.71	3.19	1.94	1.45
1	136	High Performance Lighting Remod/Renov - 25% Savings - Base 2L8'T12	Warehouse	25%	25%	$ 0.20	3.37	2.52	0.30	20	2.03	0.24	0.14	$ 0.02	201	3.70	2.66	3.22	1.39
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Warehouse	0%	0%	$ 0.38	15.03	15.03	1.77	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Warehouse	72%	72%	$ 0.49	15.03	4.21	0.50	5	10.10	1.19	0.72	$ 0.01	110	6.79	6.78	0.61	1.39
1	142	Cold Cathode Lamps	Warehouse	72%	72%	$ 1.43	15.03	4.21	0.50	9	1.12	0.13	0.08	$ 0.02	195	3.81	3.42	1.81	1.39
1	143	Screw-in LED--Base Incandescent	Warehouse	93%	93%	$ 4.99	15.03	1.05	0.12	36	14.50	1.71	1.03	$ 0.03	254	2.44	1.75	4.87	1.39
1	145	Base CFL to screw-in replacement	Warehouse	0%	0%	$ 0.99	4.11	4.11	0.49	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	Warehouse	68%	68%	$ 5.13	4.11	1.34	0.16	36	5.34	0.63	0.38	$ 0.16	1,314	0.47	0.34	25.23	1.39
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Warehouse	0%	0%	$ 0.29	15.03	15.03	1.77	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Warehouse	76%	76%	$ 3.09	15.03	3.61	0.43	14	0.88	0.10	0.06	$ 0.03	278	2.68	2.15	3.66	1.39
1	152	Ceramic Metal Halide	Warehouse	56%	56%	$ 7.86	15.03	6.61	0.78	4	0.06	0.01	0.00	$ 0.36	3,089	0.24	0.25	14.15	1.39
1	153	Hardwired LED fixture--Base Incandescent	Warehouse	93%	93%	$ 5.94	15.03	1.05	0.12	36	1.20	0.14	0.09	$ 0.04	302	2.05	1.48	5.79	1.39
1	155	Base CFL to Hardwired replacement	Warehouse	0%	0%	$ 3.86	4.11	4.11	0.49	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Warehouse	68%	68%	$ 5.29	4.11	1.34	0.16	36	0.40	0.05	0.03	$ 0.16	1,355	0.46	0.33	26.01	1.39
1	160	Base High Bay Probe-start Metal Halide, 400W	Warehouse	0%	0%	$ 6.62	2.83	2.83	0.33	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	Warehouse	49%	49%	$ 2.29	3.82	1.97	0.23	14	8.80	1.04	0.63	$ 0.15	1,268	0.59	0.47	16.70	1.39
1	162	PSMH + electronic ballast	Warehouse	37%	37%	$ 5.44	2.83	1.79	0.21	16	10.62	1.25	0.76	$ 0.58	4,917	0.15	0.12	70.63	1.39
1	163	Induction High Bay Lighting - Base Std MH	Warehouse	37%	37%	$ 7.13	2.83	1.77	0.21	36	10.81	1.28	0.77	$ 0.57	4,796	0.13	0.09	92.09	1.39
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	Warehouse	17%	2%	$ 0.14	2.92	2.41	0.34	14	1.12	0.02	0.09	$ 0.03	2,328	1.96	2.22	3.55	0.99
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	Warehouse	25%	25%	$ 0.20	1.78	1.34	0.16	20	1.95	0.23	0.14	$ 0.04	381	1.96	1.41	6.08	1.39
1	180	Base 4L4'T8, 1EB	Warehouse	0%	0%	$ -	2.51	2.51	0.30	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	Warehouse	16%	16%	$ 0.66	2.78	2.34	0.28	14	3.95	0.47	0.28	$ 0.18	1,555	0.48	0.38	20.49	1.39
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	Warehouse	30%	30%	$ 0.14	2.51	1.76	0.21	9	4.96	0.59	0.35	$ 0.03	262	2.84	2.55	2.42	1.39
1	183	Lighting Control Tuneup - Base 4L4'T8	Warehouse	4%	1%	$ 0.01	2.59	2.48	0.30	6	0.57	0.02	0.05	$ 0.03	913	2.21	2.81	1.70	1.06
1	184	LED Indoor Lighting - Base 4L4'T8	Warehouse	29%	29%	$18.22	2.51	1.78	0.21	36	16.85	1.99	1.20	$ 2.09	17,684	0.04	0.03	339.56	1.39
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	Warehouse	25%	25%	$ 0.20	2.51	1.88	0.22	20	6.20	0.73	0.44	$ 0.03	270	2.76	1.98	4.31	1.39
1	190	Base 2L4'T8, 1EB	Warehouse	0%	0%	$ -	2.51	2.51	0.30	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	Warehouse	17%	17%	$ 0.59	2.51	2.08	0.25	14	2.90	0.34	0.21	$ 0.17	1,407	0.53	0.42	18.54	1.39
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Warehouse	30%	30%	$ 0.14	2.51	1.76	0.21	9	3.61	0.43	0.26	$ 0.03	262	2.84	2.55	2.42	1.39
1	193	Lighting Control Tuneup - Base 2L4'T8	Warehouse	4%	1%	$ 0.01	2.59	2.48	0.30	6	0.17	0.01	0.01	$ 0.03	913	2.21	2.81	1.70	1.06
1	194	LED Indoor Lighting - Base 2L4'T8	Warehouse	29%	29%	$12.09	2.51	1.78	0.21	36	4.90	0.58	0.35	$ 1.39	11,737	0.05	0.04	225.36	1.39
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Warehouse	25%	25%	$ 0.20	2.51	1.88	0.22	20	1.80	0.21	0.13	$ 0.03	270	2.76	1.98	4.31	1.39
1	200	Base Exit Sign	Warehouse	0%	0%	$ -	0.00	0.00	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Warehouse	81%	81%	$ 0.02	0.00	0.00	0.00	13	0.79	0.09	0.06	$ 0.65	5,475	0.14	0.11	68.28	1.39
1	210	Base Outdoor Mercury Vapor 400W Lamp	Warehouse	0%	0%	$ -	0.39	0.39	0.00	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Warehouse	35%	35%	$ 0.23	0.41	0.26	0.00	14	27.29	0.25	6.34	$ 0.20	21,663	0.32	0.36	21.82	0.98
1	212	LED Outdoor Area Lighting	Warehouse	52%	52%	$ 0.40	0.39	0.19	0.00	23	43.84	0.40	10.18	$ 0.19	20,747	0.31	0.32	26.82	0.98
1	213	LED Outdoor Bi-level Fixtures	Warehouse	70%	70%	$ 1.79	0.39	0.12	0.00	23	29.39	0.27	6.82	$ 0.63	69,359	0.09	0.10	89.65	0.98
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Warehouse	25%	0%	$ 0.04	0.43	0.33	0.00	14	12.55	0.00	4.44	$ 0.05	N/A	1.18	1.50	5.25	0.88
1	220	Base Street Lighting	Warehouse	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Warehouse	0%	0%	$ 4.17	2.63	2.63	1.60	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Warehouse	12%	12%	$ 0.66	2.74	2.41	1.47	20	3.93	2.39	0.75	$ 0.20	330	0.90	0.32	27.12	2.86
1	302	Window Film (Standard)	Warehouse	9%	9%	$ 0.27	2.68	2.44	1.48	10	2.60	1.58	0.50	$ 0.17	285	1.04	0.45	14.59	2.86
1	303	EMS - Chiller	Warehouse	10%	10%	$ 1.14	2.63	2.37	1.44	15	4.60	2.80	0.88	$ 0.50	821	0.36	0.14	58.37	2.86
1	304	Cool Roof - Chiller	Warehouse	4%	4%	$ 0.04	2.69	2.59	1.57	10	0.41	0.25	0.08	$ 0.07	107	2.77	1.18	5.49	2.86
1	305	Chiller Tune Up/Diagnostics	Warehouse	6%	4%	$ 0.10	2.72	2.55	1.59	10	1.12	0.43	0.27	$ 0.09	243	1.45	0.82	7.93	2.16
1	307	EMS Optimization	Warehouse	3%	1%	$ 0.03	2.68	2.59	1.61	5	0.59	0.13	0.17	$ 0.09	421	1.10	0.93	4.47	1.65
1	308	Economizer - Chiller	Warehouse	18%	7%	$ 3.22	3.22	2.63	1.82	15	0.10	0.02	0.03	$ 0.63	2,823	0.16	0.11	74.11	1.65
1	309	Duct/Pipe Insulation - Chiller	Warehouse	2%	2%	$ 0.77	2.64	2.59	1.58	10	0.57	0.35	0.11	$ 2.34	3,841	0.08	0.03	196.83	2.86
1	311	High Efficiency Chiller Motors	Warehouse	3%	3%	$ 0.03	2.64	2.56	1.56	20	1.31	0.80	0.25	$ 0.04	68	4.40	1.54	5.56	2.86
1	350	Base DX Packaged System, EER=10.3, 10 tons	Warehouse	0%	0%	$14.58	4.57	4.57	2.78	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Warehouse	4%	3%	$ 0.13	4.69	4.51	2.78	10	8.08	3.13	1.98	$ 0.11	282	1.25	0.71	9.19	2.16
1	352	DX Packaged System, EER=10.9, 10 tons	Warehouse	6%	6%	$ 0.50	4.57	4.31	2.62	15	44.57	27.12	8.56	$ 0.23	382	0.78	0.30	27.17	2.86
1	353	DX Packaged System, EER=11.5, 10 tons	Warehouse	10%	10%	$ 2.02	4.57	4.09	2.49	15	84.21	51.23	16.18	$ 0.49	809	0.37	0.14	57.56	2.86
1	354	DX Packaged System, EER=13.4, 10 tons	Warehouse	23%	23%	$19.68	4.57	3.52	2.14	15	186.24	113.30	35.78	$ 2.17	3,566	0.08	0.03	253.57	2.86
1	357	Window Film (Standard)	Warehouse	9%	9%	$ 2.88	4.59	4.16	2.53	10	53.66	32.65	10.31	$ 1.09	1,794	0.17	0.07	91.90	2.86
1	358	Prog. Thermostat - DX	Warehouse	3%	1%	$ 0.39	4.62	4.46	2.77	8	18.58	4.17	5.27	$ 0.47	2,095	0.22	0.17	33.60	1.65
1	359	Cool Roof - DX	Warehouse	2%	2%	$ 0.04	4.61	4.53	2.75	10	3.47	2.11	0.67	$ 0.08	128	2.32	0.99	6.56	2.86
1	360	Optimize Controls	Warehouse	3%	1%	$ 0.04	4.67	4.51	2.81	5	6.94	1.56	1.97	$ 0.07	322	1.44	1.22	3.42	1.65
1	362	Aerosol Duct Sealing - DX	Warehouse	7%	7%	$ 0.34	4.57	4.25	2.59	15	17.69	10.76	3.40	$ 0.12	201	1.48	0.56	14.30	2.86

DSM ASSYST SUMMARY — Year 2011

Vintage: Existing — Batch: 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	363	Ceiling/roof Insulation - DX	Warehouse	12%	12%	$ 0.02	4.84	4.25	2.59	20	55.75	33.92	10.71	$ 0.00	6	53.17	18.57	0.46	2.86
1	364	Duct/Pipe Insulation - DX	Warehouse	2%	2%	$ 2.60	4.58	4.49	2.73	10	10.37	6.31	1.99	$ 4.56	7,489	0.04	0.02	383.75	2.86
1	365	DX Coil Cleaning	Warehouse	5%	5%	$ 0.17	4.58	4.36	2.65	5	27.44	16.70	5.27	$ 0.21	351	0.85	0.41	10.12	2.86
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Warehouse	0%	0%	$ 0.01	0.71	0.71	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Warehouse	2%	2%	$ 0.01	0.72	0.70	0.14	20	2.08	0.40	0.25	$ 0.03	176	2.93	1.84	4.64	1.59
1	402	Variable Speed Drive Control, 5 HP	Warehouse	26%	8%	$ 0.11	0.71	0.53	0.13	15	30.91	1.73	4.24	$ 0.07	1,176	1.08	1.05	7.69	1.12
1	403	Demand Controlled Ventilation	Warehouse	14%	8%	$ 0.12	0.71	0.61	0.13	15	16.23	1.73	2.12	$ 0.15	1,386	0.55	0.47	17.28	1.29
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Warehouse	0%	0%	$ 0.00	0.66	0.66	0.13	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Warehouse	0%	0%	$ 0.01	0.65	0.65	0.13	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	421	Fan Motor, 40hp, 1800rpm, 94.1%	Warehouse	1%	1%	$ 0.00	0.65	0.64	0.13	20	0.08	0.02	0.01	$ 0.05	236	2.18	1.37	6.23	1.59
1	422	Variable Speed Drive Control, 40 HP	Warehouse	26%	8%	$ 0.05	0.65	0.48	0.12	20	2.35	0.13	0.32	$ 0.03	580	2.18	1.95	4.39	1.12
1	423	Air Handler Optimization, 40 HP	Warehouse	9%	3%	$ 0.03	0.65	0.59	0.12	8	0.19	0.01	0.03	$ 0.10	1,799	0.70	0.80	7.19	1.12
1	424	Demand Controlled Ventilation	Warehouse	14%	8%	$ 0.12	0.65	0.56	0.12	15	1.23	0.13	0.16	$ 0.16	1,521	0.50	0.43	18.95	1.29
1	500	Base Non-Commercial Refrigerator	Warehouse	0%	0%	$ 0.06	0.02	0.02	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Warehouse	25%	25%	$ 0.01	0.02	0.01	0.00	13	0.49	0.07	0.07	$ 0.30	2,111	0.30	0.24	31.47	1.41
1	520	Base Refrigeration System	Warehouse	0%	0%	$ -	1.38	1.38	0.19	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Warehouse	12%	12%	$ 0.12	1.38	1.22	0.17	20	27.04	3.82	3.77	$ 0.07	497	1.27	0.90	9.50	1.41
1	522	Strip curtains for walk-ins	Warehouse	4%	4%	$ 0.00	1.38	1.33	0.19	4	8.58	1.21	1.20	$ 0.03	221	2.85	2.89	1.21	1.41
1	524	Evaporator fan controller for MT walk-ins	Warehouse	0%	0%	$ 0.00	1.38	1.37	0.19	10	0.95	0.00	0.15	$ 0.11	N/A	0.52	0.70	9.32	0.91
1	525	Efficient compressor motor	Warehouse	7%	7%	$ 0.01	1.38	1.29	0.18	10	15.41	2.18	2.15	$ 0.01	106	5.95	5.16	1.26	1.41
1	526	Compressor VSD retrofit	Warehouse	6%	3%	$ 0.04	1.38	1.30	0.19	13	13.01	0.99	1.95	$ 0.07	859	1.14	1.11	6.89	1.18
1	527	Floating head pressure controls	Warehouse	6%	0%	$ 0.01	1.38	1.30	0.19	14	13.24	0.00	2.15	$ 0.02	N/A	3.06	3.77	2.09	0.91
1	528	Refrigeration Commissioning	Warehouse	5%	5%	$ 0.02	1.42	1.35	0.19	3	1.16	0.16	0.16	$ 0.11	794	0.79	0.83	3.35	1.41
1	529	Demand Hot Gas Defrost	Warehouse	3%	3%	$ 0.00	1.38	1.35	0.19	10	5.66	0.80	0.79	$ 0.02	107	5.91	5.12	1.27	1.41
1	530	Demand Defrost Electric	Warehouse	8%	8%	$ 0.00	1.38	1.27	0.18	10	17.52	2.47	2.44	$ 0.00	34	18.31	15.87	0.41	1.41
1	531	Anti-sweat (humidistat) controls	Warehouse	5%	2%	$ 0.02	1.38	1.32	0.19	12	10.47	0.80	1.57	$ 0.03	453	2.16	2.15	3.41	1.18
1	533	Freezer-Cooler Replacement Gaskets	Warehouse	7%	7%	$ 0.00	1.43	1.33	0.19	4	7.71	1.09	1.07	$ 0.01	91	6.95	7.06	0.50	1.41
1	534	High R-Value Glass Doors	Warehouse	2%	2%	$ 0.01	1.38	1.36	0.19	10	3.47	0.49	0.48	$ 0.09	657	0.96	0.83	7.81	1.41
1	535	Multiplex Compressor System	Warehouse	14%	14%	$ 0.27	1.38	1.18	0.17	14	32.19	4.54	4.48	$ 0.17	1,184	0.53	0.42	18.65	1.41
1	536	Oversized Air-Cooled Condenser	Warehouse	8%	8%	$ 0.05	1.44	1.32	0.19	16	9.51	1.34	1.32	$ 0.05	368	1.71	1.30	6.31	1.41
1	537	LED Display Lighting	Warehouse	1%	1%	$ 0.01	1.38	1.37	0.19	10	0.94	0.13	0.13	$ 0.18	1,286	0.49	0.42	15.29	1.41
1	538	Fiber Optic Display Lighting	Warehouse	24%	25%	$ 0.01	1.38	1.04	0.15	10	27.65	3.90	3.85	$ 0.01	50	12.65	10.97	0.59	1.41
1	610	Base Desktop PC	Warehouse	0%	0%	$ -	0.10	0.10	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Warehouse	32%	25%	$ 0.00	0.10	0.07	0.01	4	4.45	0.39	0.25	$ 0.00	29	31.95	35.57	0.10	1.28
1	612	PC Manual Power Management Enabling	Warehouse	64%	45%	$ 0.00	0.12	0.04	0.01	4	6.97	0.54	0.40	$ 0.01	108	9.44	10.82	0.32	1.25
1	613	PC Network Power Management Enabling	Warehouse	64%	45%	$ 0.00	0.12	0.04	0.01	4	6.97	0.54	0.40	$ 0.01	108	9.44	10.82	0.32	1.25
1	620	Base Monitor, CRT	Warehouse	0%	0%	$ -	0.09	0.09	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Warehouse	56%	56%	$ 0.00	0.09	0.04	0.00	4	8.22	0.91	0.45	$ 0.00	5	156.88	162.33	0.02	1.38
1	622	Monitor Power Management Enabling - CRT	Warehouse	51%	35%	$ 0.00	0.14	0.07	0.01	4	2.62	0.20	0.15	$ 0.00	36	27.94	32.02	0.11	1.25
1	630	Base Monitor, LCD	Warehouse	0%	0%	$ -	0.02	0.02	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Warehouse	2%	2%	$ 0.00	0.02	0.02	0.00	4	0.01	0.00	0.00	$ 0.10	897	0.88	0.91	3.87	1.38
1	632	Monitor Power Management Enabling - LCD	Warehouse	26%	18%	$ 0.00	0.03	0.02	0.00	4	0.03	0.00	0.00	$ 0.05	669	1.52	1.75	2.01	1.25
1	640	Base Copier	Warehouse	0%	0%	$ -	0.04	0.04	0.00	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Warehouse	21%	21%	$ 0.00	0.04	0.03	0.00	6	1.07	0.12	0.06	$ 0.00	6	124.81	122.08	0.04	1.38
1	642	Copier Power Management Enabling	Warehouse	18%	13%	$ 0.00	0.04	0.03	0.00	6	0.64	0.05	0.04	$ 0.03	447	2.28	2.47	1.93	1.25
1	650	Base Laser Printer	Warehouse	0%	0%	$ -	0.07	0.07	0.01	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Warehouse	47%	32%	$ 0.01	0.13	0.07	0.01	5	0.37	0.03	0.02	$ 0.03	409	2.49	2.77	1.50	1.25
1	660	Base Data Center/Server Room	Warehouse	0%	0%	$ -	27.59	27.59	3.06	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Warehouse	20%	20%	$ 0.10	28.74	22.99	2.55	10	1.19	0.13	0.07	$ 0.00	25	31.23	27.59	0.24	1.38
1	662	Data Center Best Practices	Warehouse	45%	45%	$ 0.50	28.89	15.89	1.76	10	1.51	0.17	0.08	$ 0.01	56	14.13	12.48	0.52	1.38
1	663	Data Center State of the Art practices	Warehouse	56%	56%	$ 1.00	27.59	12.14	1.35	10	0.67	0.07	0.04	$ 0.01	94	8.39	7.42	0.88	1.38
1	700	Base Water Heating	Warehouse	0%	0%	$ -	0.47	0.47	0.05	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Warehouse	5%	5%	$ 0.05	0.47	0.44	0.05	15	1.32	0.14	0.09	$ 0.25	2,362	0.34	0.28	28.79	1.34
1	702	High Efficiency Water Heater (electric)	Warehouse	2%	2%	$ 0.01	0.47	0.46	0.05	15	0.70	0.07	0.05	$ 0.13	1,241	0.65	0.53	15.12	1.34
1	703	Heat Pump Water Heater (air source)	Warehouse	20%	20%	$ 0.24	0.47	0.37	0.04	15	5.62	0.59	0.36	$ 0.30	2,862	0.28	0.23	34.89	1.34
1	704	Hot Water Pipe Insulation	Warehouse	2%	2%	$ 0.03	0.47	0.46	0.05	15	0.24	0.03	0.02	$ 0.39	3,746	0.22	0.18	45.65	1.34
1	706	Heat Recovery Unit	Warehouse	65%	65%	$ 0.08	0.47	0.16	0.02	10	2.28	0.24	0.15	$ 0.04	406	2.00	1.82	3.57	1.34
1	707	Heat Trap	Warehouse	9%	9%	$ 0.02	0.48	0.43	0.05	10	1.82	0.19	0.12	$ 0.07	675	1.20	1.10	5.93	1.34
1	708	Tankless Water Heater	Warehouse	10%	10%	$ 0.09	0.47	0.42	0.04	20	2.63	0.27	0.17	$ 0.19	1,845	0.44	0.33	26.02	1.34
1	709	Solar Water Heater	Warehouse	70%	70%	$ 0.75	0.47	0.14	0.01	20	12.05	1.26	0.78	$ 0.23	2,210	0.37	0.27	31.17	1.34
1	800	Base Vending Machines	Warehouse	0%	0%	$ -	0.22	0.22	0.03	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Warehouse	38%	26%	$ 0.03	0.23	0.14	0.02	10	7.47	0.65	0.72	$ 0.05	620	1.47	1.42	4.56	1.26
1	900	Base Oven	Warehouse	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	905	Base Fryer	Warehouse	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Steamer	Warehouse	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	915	Base Hot Food Holding Cabinets	Warehouse	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	School	0%	0%	$ 0.76	4.89	4.89	0.45	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	School	0%	0%	$ 1.19	5.23	5.23	0.48	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	School	0%	0%	$ 0.94	5.23	5.23	0.48	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	School	0%	0%	$ 0.59	20.84	20.84	1.91	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	School	72%	72%	$ 0.77	20.84	5.83	0.53	5	61.67	5.64	2.84	$ 0.01	160	5.71	6.02	0.69	1.32
1	142	Cold Cathode Lamps	School	72%	72%	$ 2.24	20.84	5.83	0.53	10	6.85	0.63	0.32	$ 0.02	261	3.50	3.24	2.01	1.32
1	143	Screw-in LED--Base Incandescent	School	93%	93%	$ 7.80	20.84	1.46	0.13	40	88.51	8.09	4.08	$ 0.03	357	2.08	1.58	5.41	1.32
1	145	Base CFL to screw-in replacement	School	0%	0%	$ 1.54	5.70	5.70	0.52	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	School	67%	68%	$ 8.02	5.70	1.85	0.17	40	1.16	0.11	0.05	$ 0.17	1,851	0.40	0.31	28.03	1.32

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	150	Base Incandescent Flood, 75W to Hardwired CFL	School	0%	0%	$ 0.46	20.84	20.84	1.91	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	School	76%	76%	$ 4.83	20.84	5.00	0.46	14	4.87	0.45	0.22	$ 0.04	405	2.25	1.91	4.13	1.32
1	152	Ceramic Metal Halide	School	56%	56%	$12.28	20.84	9.17	0.84	4	0.36	0.03	0.02	$ 0.36	3,990	0.23	0.25	14.15	1.32
1	153	Hardwired LED fixture--Base Incandescent	School	93%	93%	$ 9.28	20.84	1.46	0.13	40	6.62	0.61	0.31	$ 0.04	425	1.75	1.33	6.44	1.32
1	155	Base CFL to Hardwired replacement	School	0%	0%	$ 6.03	5.70	5.70	0.52	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	School	67%	68%	$ 8.27	5.70	1.85	0.17	40	0.81	0.07	0.04	$ 0.17	1,908	0.39	0.30	28.90	1.32
1	160	Base High Bay Probe-start Metal Halide, 400W	School	0%	0%	$ 1.45	3.92	3.92	0.36	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	School	49%	49%	$ 0.50	5.69	2.92	0.27	14	11.91	1.09	0.55	$ 0.02	241	3.78	3.20	2.46	1.32
1	162	PSMH + electronic ballast	School	37%	37%	$ 1.19	4.24	2.69	0.25	18	14.77	1.35	0.68	$ 0.08	870	1.05	0.82	10.29	1.32
1	163	Induction High Bay Lighting - Base Std MH	School	37%	37%	$ 1.56	3.92	2.46	0.22	40	17.52	1.60	0.81	$ 0.09	947	0.79	0.60	14.35	1.32
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	School	18%	2%	$ 0.14	4.05	3.34	0.36	16	1.84	0.02	0.10	$ 0.02	2,016	2.96	3.22	2.56	0.99
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	School	25%	25%	$ 0.20	2.47	1.85	0.17	20	3.17	0.29	0.15	$ 0.03	354	2.57	1.95	4.38	1.32
1	180	Base 4L4'T8, 1EB	School	0%	0%	$ -	3.48	3.48	0.32	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	School	16%	16%	$ 0.08	3.48	2.93	0.27	14	17.65	1.61	0.81	$ 0.02	188	4.84	4.11	1.92	1.32
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	School	30%	30%	$ 0.14	3.68	2.57	0.24	9	20.88	1.91	0.96	$ 0.02	231	3.94	3.73	1.66	1.32
1	183	Lighting Control Tuneup - Base 4L4'T8	School	4%	1%	$ 0.01	3.63	3.47	0.33	6	0.40	0.01	0.02	$ 0.02	841	3.09	3.99	1.19	1.05
1	184	LED Indoor Lighting - Base 4L4'T8	School	29%	29%	$ 2.14	3.48	2.47	0.23	40	32.54	2.98	1.50	$ 0.17	1,871	0.40	0.30	28.34	1.32
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	School	25%	25%	$ 0.20	3.48	2.61	0.24	20	11.97	1.09	0.55	$ 0.02	251	3.63	2.75	3.11	1.32
1	190	Base 2L4'T8, 1EB	School	0%	0%	$ -	3.48	3.48	0.32	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	School	17%	17%	$ 0.11	3.48	2.88	0.26	14	15.96	1.46	0.74	$ 0.02	238	3.83	3.25	2.42	1.32
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	School	30%	30%	$ 0.14	3.62	2.53	0.23	9	18.03	1.65	0.83	$ 0.02	235	3.88	3.68	1.68	1.32
1	193	Lighting Control Tuneup - Base 2L4'T8	School	4%	1%	$ 0.01	3.63	3.47	0.33	6	0.33	0.01	0.02	$ 0.02	841	3.09	3.99	1.19	1.05
1	194	LED Indoor Lighting - Base 2L4'T8	School	29%	29%	$ 2.19	3.48	2.47	0.23	40	26.96	2.46	1.24	$ 0.18	1,918	0.39	0.29	29.05	1.32
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	School	25%	25%	$ 0.20	3.48	2.61	0.24	20	9.92	0.91	0.46	$ 0.02	251	3.63	2.75	3.11	1.32
1	200	Base Exit Sign	School	0%	0%	$ -	0.01	0.01	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	School	81%	81%	$ 0.01	0.01	0.00	0.00	13	1.35	0.12	0.06	$ 0.08	822	1.11	0.96	7.94	1.32
1	210	Base Outdoor Mercury Vapor 400W Lamp	School	0%	0%	$ -	0.90	0.90	0.02	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	School	35%	35%	$ 0.12	1.12	0.73	0.02	14	20.99	0.56	5.27	$ 0.04	1,442	1.72	1.84	4.27	1.04
1	212	LED Outdoor Area Lighting	School	52%	52%	$ 0.21	0.90	0.43	0.01	23	56.32	1.50	14.15	$ 0.04	1,645	1.42	1.37	6.25	1.04
1	213	LED Outdoor Bi-level Fixtures	School	70%	70%	$ 0.96	0.90	0.27	0.01	23	37.76	1.00	9.49	$ 0.15	5,500	0.42	0.41	20.91	1.04
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	School	24%	0%	$ 0.02	1.00	0.75	0.03	14	15.87	0.00	6.16	$ 0.01	N/A	5.01	6.34	1.24	0.88
1	220	Base Street Lighting	School	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	School	0%	0%	$ 0.55	1.56	1.56	0.50	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	School	12%	12%	$ 0.09	1.62	1.42	0.46	20	4.33	1.39	0.15	$ 0.04	140	3.06	1.41	6.05	2.17
1	302	Window Film (Standard)	School	4%	4%	$ 0.07	1.57	1.51	0.48	10	1.19	0.38	0.04	$ 0.18	564	0.76	0.43	15.23	2.17
1	303	EMS - Chiller	School	10%	10%	$ 0.15	1.56	1.40	0.45	15	5.08	1.63	0.17	$ 0.11	347	1.23	0.62	13.03	2.17
1	304	Cool Roof - Chiller	School	4%	4%	$ 0.24	1.57	1.51	0.48	10	0.76	0.24	0.03	$ 0.67	2,088	0.20	0.12	56.41	2.17
1	305	Chiller Tune Up/Diagnostics	School	6%	4%	$ 0.10	1.61	1.51	0.50	10	1.26	0.25	0.05	$ 0.16	778	0.70	0.50	13.08	1.72
1	307	EMS Optimization	School	4%	1%	$ 0.03	1.59	1.53	0.50	5	0.68	0.08	0.03	$ 0.15	1,348	0.57	0.57	7.26	1.39
1	308	Economizer - Chiller	School	8%	3%	$ 0.43	1.70	1.56	0.53	15	0.05	0.01	0.00	$ 0.34	3,009	0.26	0.20	39.98	1.39
1	309	Duct/Pipe Insulation - Chiller	School	2%	2%	$ 0.77	1.59	1.56	0.50	10	0.02	0.01	0.00	$ 3.89	12,121	0.04	0.02	327.46	2.17
1	311	High Efficiency Chiller Motors	School	3%	3%	$ 0.06	1.56	1.51	0.49	20	1.45	0.46	0.05	$ 0.13	406	1.05	0.48	17.64	2.17
1	350	Base DX Packaged System, EER=10.3, 10 tons	School	0%	0%	$ 1.92	2.70	2.70	0.87	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	School	4%	3%	$ 0.13	2.78	2.66	0.87	10	2.64	0.53	0.11	$ 0.18	903	0.60	0.43	15.17	1.72
1	352	DX Packaged System, EER=10.9, 10 tons	School	6%	6%	$ 0.07	2.70	2.55	0.82	15	14.20	4.55	0.48	$ 0.05	162	2.64	1.33	6.07	2.17
1	353	DX Packaged System, EER=11.5, 10 tons	School	10%	10%	$ 0.27	2.70	2.42	0.78	15	26.82	8.60	0.91	$ 0.11	343	1.25	0.63	12.85	2.17
1	354	DX Packaged System, EER=13.4, 10 tons	School	23%	23%	$ 2.60	2.70	2.08	0.67	15	59.32	19.03	2.01	$ 0.48	1,510	0.28	0.14	56.60	2.17
1	357	Window Film (Standard)	School	4%	4%	$ 0.07	2.70	2.60	0.83	10	7.52	2.41	0.25	$ 0.11	328	1.30	0.73	8.86	2.17
1	358	Prog. Thermostat - DX	School	4%	1%	$ 0.05	2.73	2.64	0.87	8	6.17	0.70	0.30	$ 0.10	887	0.87	0.80	7.20	1.39
1	359	Cool Roof - DX	School	6%	6%	$ 0.24	2.73	2.57	0.82	10	6.42	2.06	0.22	$ 0.23	722	0.59	0.33	19.51	2.17
1	360	Optimize Controls	School	4%	1%	$ 0.04	2.77	2.67	0.88	5	2.31	0.26	0.11	$ 0.12	1,031	0.75	0.75	5.55	1.39
1	361	Economizer	School	7%	3%	$ 0.43	2.79	2.60	0.87	15	9.97	1.13	0.48	$ 0.25	2,198	0.35	0.28	29.21	1.39
1	362	Aerosol Duct Sealing - DX	School	7%	7%	$ 0.04	2.70	2.51	0.81	15	5.78	1.85	0.20	$ 0.03	85	5.01	2.52	3.20	2.17
1	363	Ceiling/roof Insulation - DX	School	12%	12%	$ 0.12	2.99	2.63	0.84	20	0.22	0.07	0.01	$ 0.03	103	4.15	1.91	4.47	2.17
1	364	Duct/Pipe Insulation - DX	School	2%	2%	$ 2.60	2.71	2.65	0.85	10	3.44	1.10	0.12	$ 7.71	24,035	0.02	0.01	649.31	2.17
1	365	DX Coil Cleaning	School	5%	5%	$ 0.02	2.76	2.63	0.84	5	5.28	1.69	0.18	$ 0.05	146	2.93	1.87	2.22	2.17
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	School	0%	0%	$ 0.02	0.81	0.81	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	School	2%	2%	$ 0.01	0.82	0.80	0.10	20	1.69	0.21	0.04	$ 0.04	334	2.21	1.55	5.52	1.43
1	402	Variable Speed Drive Control, 5 HP	School	26%	8%	$ 0.14	0.81	0.60	0.09	15	25.26	0.88	0.73	$ 0.08	2,229	0.88	0.89	9.10	1.09
1	403	Demand Controlled Ventilation	School	14%	8%	$ 0.12	0.86	0.74	0.10	15	8.30	0.55	0.23	$ 0.12	1,827	0.63	0.57	14.23	1.21
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	School	0%	0%	$ 0.03	0.75	0.75	0.09	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	School	2%	2%	$ 0.01	0.76	0.74	0.09	20	0.57	0.07	0.01	$ 0.07	576	1.28	0.90	9.51	1.43
1	412	Variable Speed Drive Control, 15 HP	School	26%	8%	$ 0.17	0.75	0.56	0.09	20	12.67	0.44	0.37	$ 0.09	2,451	0.80	0.74	11.58	1.09
1	413	Air Handler Optimization, 15 HP	School	9%	3%	$ 0.03	0.75	0.69	0.09	8	2.77	0.10	0.08	$ 0.09	2,471	0.79	0.94	6.16	1.09
1	414	Energy Recovery Ventilation	School	7%	7%	$ 0.34	0.75	0.70	0.09	20	2.34	0.29	0.06	$ 0.65	5,344	0.14	0.10	88.31	1.43
1	415	Electronically Commutated Motors (ECM) on an air handler unit	School	14%	14%	$ 0.07	0.78	0.66	0.08	15	4.73	0.58	0.12	$ 0.08	616	1.20	0.92	8.80	1.43
1	417	Demand Controlled Ventilation	School	14%	8%	$ 0.12	0.80	0.69	0.09	15	4.16	0.28	0.12	$ 0.13	1,971	0.58	0.53	15.35	1.21
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	School	0%	0%	$ 0.00	0.74	0.74	0.09	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Non-Commercial Refrigerator	School	0%	0%	$ 0.41	0.16	0.16	0.02	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	School	25%	25%	$ 0.07	0.16	0.12	0.01	13	3.79	0.39	0.42	$ 0.22	2,109	0.38	0.33	22.81	1.29
1	520	Base Refrigeration System	School	0%	0%	$ -	0.48	0.48	0.05	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	School	12%	12%	$ 0.12	0.48	0.42	0.04	20	7.52	0.77	0.83	$ 0.20	1,986	0.40	0.31	27.51	1.29
1	522	Strip curtains for walk-ins	School	4%	4%	$ 0.00	0.48	0.46	0.05	4	2.53	0.26	0.28	$ 0.09	886	0.90	1.00	3.52	1.29
1	524	Evaporator fan controller for MT walk-ins	School	0%	0%	$ 0.00	0.48	0.47	0.05	10	0.31	0.00	0.04	$ 0.31	N/A	0.19	0.25	26.18	0.91
1	525	Efficient compressor motor	School	7%	7%	$ 0.01	0.48	0.44	0.05	10	4.29	0.44	0.48	$ 0.04	423	1.88	1.78	3.65	1.29

DSM ASSYST SUMMARY — Year 2011 — Vintage Existing — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	527	Floating head pressure controls	School	6%	0%	$ 0.01	0.48	0.45	0.05	14	3.80	0.00	0.48	$ 0.05	N/A	1.10	1.34	5.86	0.91
1	528	Refrigeration Commissioning	School	5%	5%	$ 0.02	0.49	0.46	0.05	3	0.32	0.03	0.04	$ 0.32	3,171	0.25	0.29	9.70	1.29
1	529	Demand Hot Gas Defrost	School	3%	3%	$ 0.00	0.48	0.46	0.05	10	1.57	0.16	0.17	$ 0.04	426	1.87	1.77	3.67	1.29
1	530	Demand Defrost Electric	School	8%	8%	$ 0.00	0.48	0.44	0.05	10	4.88	0.50	0.54	$ 0.01	137	5.78	5.48	1.19	1.29
1	531	Anti-sweat (humidistat) controls	School	5%	2%	$ 0.02	0.48	0.45	0.05	12	2.96	0.16	0.35	$ 0.10	1,808	0.71	0.75	9.72	1.11
1	533	Freezer-Cooler Replacement Gaskets	School	7%	7%	$ 0.00	0.49	0.46	0.05	4	2.14	0.22	0.24	$ 0.04	362	2.19	2.44	1.44	1.29
1	536	Oversized Air-Cooled Condenser	School	8%	8%	$ 0.05	0.50	0.46	0.05	16	2.65	0.27	0.29	$ 0.15	1,468	0.54	0.45	18.28	1.29
1	537	LED Display Lighting	School	1%	1%	$ 0.01	0.48	0.47	0.05	10	0.26	0.03	0.03	$ 0.53	5,133	0.15	0.15	44.27	1.29
1	538	Fiber Optic Display Lighting	School	24%	25%	$ 0.01	0.48	0.36	0.04	10	7.70	0.79	0.85	$ 0.02	199	3.99	3.79	1.71	1.29
1	539	Beverage Merchandisers	School	2%	2%	$ 0.00	0.48	0.47	0.05	10	0.89	0.09	0.10	$ 0.03	299	2.66	2.52	2.58	1.29
1	540	Reach-In Refrigerators	School	2%	2%	$ 0.00	0.48	0.47	0.05	10	0.68	0.07	0.08	$ 0.01	141	5.62	5.33	1.22	1.29
1	541	Reach-In Freezers	School	1%	1%	$ 0.00	0.48	0.47	0.05	10	0.53	0.05	0.06	$ 0.06	628	1.27	1.20	5.41	1.29
1	610	Base Desktop PC	School	0%	0%	$ -	0.35	0.35	0.02	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	School	32%	25%	$ 0.00	0.37	0.25	0.02	4	13.68	0.61	0.90	$ 0.00	104	15.73	19.40	0.18	1.16
1	612	PC Manual Power Management Enabling	School	65%	45%	$ 0.01	0.41	0.14	0.01	4	21.51	0.86	1.42	$ 0.02	382	4.70	5.93	0.59	1.13
1	613	PC Network Power Management Enabling	School	65%	45%	$ 0.01	0.41	0.14	0.01	4	21.51	0.86	1.42	$ 0.02	382	4.70	5.93	0.59	1.13
1	620	Base Monitor, CRT	School	0%	0%	$ -	0.30	0.30	0.02	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	School	56%	56%	$ 0.00	0.30	0.13	0.01	4	18.04	1.04	1.14	$ 0.00	18	73.73	86.14	0.04	1.22
1	622	Monitor Power Management Enabling - CRT	School	51%	35%	$ 0.00	0.51	0.25	0.02	4	5.78	0.23	0.38	$ 0.01	129	13.90	17.51	0.20	1.13
1	630	Base Monitor, LCD	School	0%	0%	$ -	0.08	0.08	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	School	2%	2%	$ 0.00	0.08	0.07	0.00	4	0.20	0.01	0.01	$ 0.24	4,153	0.32	0.38	9.33	1.22
1	632	Monitor Power Management Enabling - LCD	School	27%	18%	$ 0.01	0.10	0.07	0.00	4	0.43	0.02	0.03	$ 0.12	3,051	0.59	0.74	4.73	1.13
1	640	Base Copier	School	0%	0%	$ -	0.08	0.08	0.00	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	School	21%	21%	$ 0.00	0.08	0.06	0.00	6	1.74	0.10	0.11	$ 0.00	12	106.89	118.04	0.04	1.22
1	642	Copier Power Management Enabling	School	19%	13%	$ 0.00	0.08	0.07	0.00	6	1.05	0.04	0.07	$ 0.04	886	2.03	2.41	1.97	1.13
1	650	Base Laser Printer	School	0%	0%	$ -	0.22	0.22	0.01	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	School	47%	32%	$ 0.03	0.39	0.21	0.02	5	0.98	0.04	0.06	$ 0.04	1,027	1.75	2.14	1.94	1.13
1	660	Base Data Center/Server Room	School	0%	0%	$ -	100.84	100.84	5.84	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	School	20%	20%	$ 0.10	105.04	84.03	4.86	10	4.79	0.28	0.30	$ 0.00	13	101.10	100.84	0.06	1.22
1	662	Data Center Best Practices	School	45%	45%	$ 0.50	105.59	58.07	3.36	10	6.09	0.35	0.39	$ 0.00	29	45.73	45.62	0.14	1.22
1	663	Data Center State of the Art practices	School	56%	56%	$ 1.00	100.84	44.37	2.57	10	2.68	0.16	0.17	$ 0.00	49	27.18	27.11	0.24	1.22
1	700	Base Water Heating	School	0%	0%	$ -	0.47	0.47	0.03	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	School	5%	5%	$ 0.01	0.47	0.45	0.02	15	0.73	0.04	0.03	$ 0.06	1,067	1.37	1.22	6.60	1.22
1	702	High Efficiency Water Heater (electric)	School	2%	2%	$ 0.00	0.47	0.46	0.02	15	0.39	0.02	0.01	$ 0.04	770	1.90	1.70	4.76	1.22
1	703	Heat Pump Water Heater (air source)	School	20%	20%	$ 0.08	0.47	0.38	0.02	15	3.12	0.16	0.12	$ 0.09	1,776	0.82	0.74	10.98	1.22
1	704	Hot Water Pipe Insulation	School	2%	2%	$ 0.01	0.47	0.46	0.02	15	0.03	0.00	0.00	$ 0.12	2,346	0.62	0.56	14.50	1.22
1	706	Heat Recovery Unit	School	65%	65%	$ 0.08	0.47	0.17	0.01	10	1.90	0.10	0.07	$ 0.04	790	1.85	1.85	3.52	1.22
1	707	Heat Trap	School	9%	9%	$ 0.01	0.48	0.44	0.02	10	1.01	0.05	0.04	$ 0.02	419	3.49	3.48	1.86	1.22
1	708	Tankless Water Heater	School	10%	10%	$ 0.03	0.47	0.43	0.02	20	1.46	0.08	0.06	$ 0.06	1,144	1.28	1.04	8.19	1.22
1	709	Solar Water Heater	School	70%	70%	$ 0.24	0.47	0.14	0.01	20	2.73	0.14	0.10	$ 0.07	1,371	1.07	0.87	9.81	1.22
1	800	Base Vending Machines	School	0%	0%	$ -	0.48	0.48	0.03	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	School	38%	26%	$ 0.01	0.51	0.31	0.02	10	12.56	0.52	0.64	$ 0.01	254	6.81	7.34	0.88	1.13
1	900	Base Oven	School	0%	0%	$ -	0.02	0.02	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Convection Oven	School	15%	15%	$ 0.04	0.02	0.02	0.00	10	0.37	0.02	0.01	$ 1.92	38,360	0.04	0.04	162.02	1.21
1	905	Base Fryer	School	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Steamer	School	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	915	Base Hot Food Holding Cabinets	School	0%	0%	$ -	0.04	0.04	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	College	0%	0%	$ 0.43	4.51	4.51	0.64	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	College	25%	25%	$ 0.50	4.51	3.39	0.48	14	0.43	0.06	0.04	$ 0.05	320	2.03	1.42	5.95	1.46
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	College	65%	65%	$ 0.59	4.51	1.57	0.22	14	0.32	0.05	0.03	$ 0.02	149	4.38	3.11	2.69	1.46
1	103	LED Indoor Lighting - Base 4L4'T12	College	59%	59%	$ 1.63	4.51	1.87	0.26	29	1.02	0.14	0.09	$ 0.05	382	1.49	1.03	8.34	1.46
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	College	16%	20%	$ 0.14	4.51	3.78	0.51	9	0.14	0.02	0.02	$ 0.03	183	3.06	2.47	2.50	1.55
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	College	28%	52%	$ 0.75	4.51	3.24	0.31	10	0.15	0.04	0.01	$ 0.09	363	1.21	0.81	7.99	1.81
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	College	25%	25%	$ 0.20	4.03	3.02	0.43	20	0.17	0.02	0.01	$ 0.02	140	4.63	3.18	2.69	1.46
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	College	0%	0%	$ 0.67	4.43	4.43	0.63	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	College	25%	25%	$ 0.83	4.43	3.32	0.47	14	0.62	0.09	0.05	$ 0.08	555	1.17	0.83	10.19	1.46
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	College	65%	65%	$ 1.13	4.43	1.54	0.22	14	0.26	0.04	0.02	$ 0.04	299	2.18	1.57	5.26	1.46
1	123	LED Indoor Lighting - Base 2L4'T12	College	59%	59%	$ 1.73	4.43	1.83	0.26	29	1.62	0.23	0.14	$ 0.06	413	1.38	0.95	9.02	1.46
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	College	16%	20%	$ 0.14	4.48	3.75	0.51	8	0.21	0.04	0.02	$ 0.04	202	2.77	2.30	2.52	1.55
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	College	28%	52%	$ 0.75	4.43	3.18	0.30	10	0.23	0.06	0.02	$ 0.10	370	1.19	0.80	8.13	1.81
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	College	25%	25%	$ 0.20	3.96	2.97	0.42	20	0.26	0.04	0.02	$ 0.02	143	4.55	3.13	2.74	1.46
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	College	0%	0%	$ 0.53	4.43	4.43	0.63	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	College	0%	0%	$ 0.36	17.67	17.67	2.50	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	College	72%	72%	$ 0.47	17.67	4.95	0.70	5	5.94	0.84	0.52	$ 0.01	74	8.76	8.36	0.50	1.46
1	142	Cold Cathode Lamps	College	72%	72%	$ 1.37	17.67	4.95	0.70	7	0.66	0.09	0.06	$ 0.02	156	4.16	3.76	1.40	1.46
1	143	Screw-in LED--Base Incandescent	College	93%	93%	$ 4.77	17.67	1.24	0.17	29	8.52	1.21	0.74	$ 0.03	180	3.17	2.18	3.93	1.46
1	145	Base CFL to screw-in replacement	College	0%	0%	$ 0.94	4.83	4.83	0.68	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	150	Base Incandescent Flood, 75W to Hardwired CFL	College	0%	0%	$ 0.28	17.67	17.67	2.50	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	College	76%	76%	$ 2.95	17.67	4.24	0.60	14	40.04	5.66	3.49	$ 0.03	188	3.45	2.65	2.97	1.46
1	152	Ceramic Metal Halide	College	56%	56%	$ 7.50	17.67	7.77	1.10	3	2.95	0.42	0.26	$ 0.36	2,514	0.26	0.26	10.61	1.46
1	153	Hardwired LED fixture--Base Incandescent	College	93%	93%	$ 5.67	17.67	1.24	0.17	29	54.43	7.70	4.75	$ 0.03	214	2.67	1.83	4.67	1.46
1	155	Base CFL to Hardwired replacement	College	0%	0%	$ 3.68	4.83	4.83	0.68	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	College	68%	68%	$ 5.05	4.83	1.57	0.22	29	18.09	2.56	1.58	$ 0.14	959	0.59	0.41	20.95	1.46
1	160	Base High Bay Probe-start Metal Halide, 400W	College	0%	0%	$ 0.82	3.32	3.32	0.47	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	College	49%	49%	$ 0.28	3.32	1.71	0.24	14	2.83	0.40	0.25	$ 0.02	151	4.32	3.32	2.37	1.46

DSM ASSYST SUMMARY — Year 2011 — Vintage Existing — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	162	PSMH + electronic ballast	College	37%	37%	$ 0.67	3.77	2.38	0.34	13	1.65	0.23	0.14	$ 0.06	439	1.48	1.16	6.56	1.46
1	163	Induction High Bay Lighting - Base Std MH	College	37%	37%	$ 0.88	3.32	2.08	0.29	29	2.17	0.31	0.19	$ 0.06	440	1.30	0.89	9.60	1.46
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	College	17%	2%	$ 0.14	3.43	2.84	0.48	12	0.22	0.00	0.02	$ 0.03	1,967	1.98	2.30	3.19	1.01
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	College	25%	25%	$ 0.20	2.09	1.57	0.22	20	0.39	0.06	0.03	$ 0.04	270	2.41	1.65	5.17	1.46
1	180	Base 4L4'T8, 1EB	College	0%	0%	$ -	2.95	2.95	0.42	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	College	16%	16%	$ 0.08	3.07	2.58	0.37	14	8.11	1.15	0.71	$ 0.02	145	4.47	3.43	2.29	1.46
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	College	20%	20%	$ 0.14	3.09	2.48	0.35	9	5.24	0.74	0.46	$ 0.04	267	2.44	2.09	2.95	1.46
1	184	LED Indoor Lighting - Base 4L4'T8	College	29%	29%	$ 2.25	2.95	2.09	0.30	29	18.81	2.66	1.64	$ 0.23	1,621	0.35	0.24	35.41	1.46
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	College	25%	25%	$ 0.20	2.95	2.22	0.31	20	6.92	0.98	0.60	$ 0.03	192	3.40	2.33	3.66	1.46
1	190	Base 2L4'T8, 1EB	College	0%	0%	$ -	2.95	2.95	0.42	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	College	17%	17%	$ 0.07	3.09	2.56	0.36	14	12.33	1.74	1.07	$ 0.02	118	5.51	4.23	1.86	1.46
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	College	20%	20%	$ 0.14	3.14	2.51	0.35	9	6.91	0.98	0.60	$ 0.04	263	2.47	2.12	2.91	1.46
1	194	LED Indoor Lighting - Base 2L4'T8	College	29%	29%	$ 1.49	2.95	2.09	0.30	29	26.73	3.78	2.33	$ 0.15	1,076	0.53	0.36	23.50	1.46
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	College	25%	25%	$ 0.20	2.95	2.22	0.31	20	9.84	1.39	0.86	$ 0.03	192	3.40	2.33	3.66	1.46
1	200	Base Exit Sign	College	0%	0%	$ -	0.02	0.02	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	College	81%	81%	$ 0.01	0.03	0.01	0.00	13	1.71	0.24	0.15	$ 0.05	370	1.76	1.38	5.53	1.46
1	210	Base Outdoor Mercury Vapor 400W Lamp	College	0%	0%	$ -	0.21	0.21	0.00	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	College	35%	35%	$ 0.02	0.24	0.15	0.00	14	4.92	0.01	1.13	$ 0.04	22,467	1.71	2.00	3.94	0.96
1	212	LED Outdoor Area Lighting	College	52%	52%	$ 0.04	0.21	0.10	0.00	23	9.86	0.02	2.27	$ 0.04	23,549	1.54	1.61	5.30	0.96
1	213	LED Outdoor Bi-level Fixtures	College	70%	70%	$ 0.19	0.21	0.06	0.00	23	6.61	0.01	1.52	$ 0.12	78,726	0.46	0.48	17.70	0.96
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	College	25%	0%	$ 0.00	0.23	0.17	0.00	14	2.84	0.00	0.99	$ 0.01	N/A	6.03	7.65	1.03	0.88
1	220	Base Street Lighting	College	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	College	0%	0%	$ 0.58	2.23	2.23	0.85	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	College	12%	12%	$ 0.09	2.32	2.04	0.78	20	12.95	4.96	1.70	$ 0.03	86	4.16	1.91	4.48	2.18
1	302	Window Film (Standard)	College	2%	2%	$ 0.18	2.24	2.19	0.84	10	2.26	0.86	0.30	$ 0.52	1,345	0.27	0.15	43.38	2.18
1	303	EMS - Chiller	College	10%	10%	$ 0.16	2.23	2.01	0.77	15	15.17	5.81	2.00	$ 0.08	215	1.67	0.84	9.64	2.18
1	304	Cool Roof - Chiller	College	4%	4%	$ 0.21	2.26	2.17	0.83	10	1.88	0.72	0.25	$ 0.40	1,054	0.34	0.19	33.98	2.18
1	305	Chiller Tune Up/Diagnostics	College	7%	4%	$ 0.10	2.31	2.15	0.85	10	4.01	0.90	0.62	$ 0.10	454	1.03	0.75	8.60	1.67
1	306	VSD for Chiller Pumps and Towers	College	10%	10%	$ 0.11	2.29	2.06	0.79	15	11.53	4.41	1.52	$ 0.06	147	2.45	1.23	6.57	2.18
1	307	EMS Optimization	College	4%	1%	$ 0.03	2.27	2.19	0.86	5	2.26	0.28	0.38	$ 0.10	788	0.87	0.91	4.59	1.34
1	308	Economizer - Chiller	College	16%	5%	$ 0.45	2.66	2.23	0.96	15	0.30	0.04	0.05	$ 0.12	975	0.70	0.58	14.03	1.34
1	309	Duct/Pipe Insulation - Chiller	College	2%	2%	$ 0.77	2.27	2.23	0.85	10	0.07	0.03	0.01	$ 2.72	7,095	0.05	0.03	228.80	2.18
1	311	High Efficiency Chiller Motors	College	3%	3%	$ 0.05	2.24	2.17	0.83	20	4.33	1.66	0.57	$ 0.07	191	1.89	0.86	9.89	2.18
1	350	Base DX Packaged System, EER=10.3, 10 tons	College	0%	0%	$ 2.04	3.86	3.86	1.48	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	College	4%	3%	$ 0.13	3.98	3.81	1.49	10	0.35	0.08	0.05	$ 0.12	527	0.89	0.65	9.99	1.67
1	352	DX Packaged System, EER=10.9, 10 tons	College	6%	6%	$ 0.07	3.86	3.65	1.40	15	1.79	0.69	0.24	$ 0.04	100	3.59	1.80	4.49	2.18
1	353	DX Packaged System, EER=11.5, 10 tons	College	10%	10%	$ 0.28	3.86	3.46	1.33	15	3.39	1.30	0.45	$ 0.08	212	1.69	0.85	9.51	2.18
1	354	DX Packaged System, EER=13.4, 10 tons	College	23%	23%	$ 2.75	3.86	2.98	1.14	15	7.49	2.87	0.99	$ 0.36	936	0.38	0.19	41.88	2.18
1	357	Window Film (Standard)	College	2%	2%	$ 0.18	3.88	3.79	1.45	10	0.50	0.19	0.07	$ 0.30	776	0.46	0.26	25.04	2.18
1	358	Prog. Thermostat - DX	College	4%	1%	$ 0.05	3.92	3.76	1.48	8	0.86	0.11	0.15	$ 0.07	549	1.25	1.20	4.83	1.34
1	359	Cool Roof - DX	College	13%	13%	$ 0.21	4.04	3.52	1.35	10	1.46	0.56	0.19	$ 0.06	168	2.14	1.20	5.42	2.18
1	360	Optimize Controls	College	4%	1%	$ 0.04	3.97	3.81	1.50	5	0.32	0.04	0.05	$ 0.07	602	1.14	1.18	3.51	1.34
1	361	Economizer	College	8%	3%	$ 0.45	4.01	3.70	1.50	15	1.39	0.17	0.24	$ 0.17	1,358	0.51	0.41	19.54	1.34
1	362	Aerosol Duct Sealing - DX	College	7%	7%	$ 0.05	4.04	3.76	1.44	15	0.28	0.11	0.04	$ 0.02	51	7.12	3.57	2.26	2.18
1	364	Duct/Pipe Insulation - DX	College	2%	2%	$ 2.60	3.88	3.81	1.46	10	0.37	0.14	0.05	$ 5.37	14,031	0.03	0.01	452.51	2.18
1	365	DX Coil Cleaning	College	5%	5%	$ 0.02	4.00	3.81	1.46	5	0.37	0.14	0.05	$ 0.03	89	4.03	2.57	1.62	2.18
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	College	0%	0%	$ 0.01	0.61	0.61	0.11	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	College	2%	2%	$ 0.00	0.62	0.60	0.11	20	0.98	0.17	0.09	$ 0.02	116	4.76	3.12	2.75	1.53
1	403	Demand Controlled Ventilation	College	14%	8%	$ 0.12	0.67	0.58	0.11	15	3.14	0.30	0.33	$ 0.16	1,630	0.51	0.44	18.15	1.26
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	College	0%	0%	$ 0.01	0.57	0.57	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	College	2%	2%	$ 0.00	0.57	0.56	0.10	20	0.23	0.04	0.02	$ 0.04	245	2.24	1.47	5.83	1.53
1	414	Energy Recovery Ventilation	College	7%	7%	$ 0.26	0.60	0.56	0.10	20	0.37	0.07	0.04	$ 0.61	3,481	0.16	0.10	82.72	1.53
1	417	Demand Controlled Ventilation	College	14%	8%	$ 0.12	0.62	0.54	0.10	15	1.08	0.10	0.11	$ 0.17	1,759	0.47	0.41	19.58	1.26
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	College	0%	0%	$ 0.02	0.56	0.56	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	421	Fan Motor, 40hp, 1800rpm, 94.1%	College	1%	1%	$ 0.01	0.56	0.55	0.10	20	0.10	0.02	0.01	$ 0.08	478	1.15	0.75	11.36	1.53
1	424	Demand Controlled Ventilation	College	14%	8%	$ 0.12	0.61	0.53	0.10	15	0.64	0.06	0.07	$ 0.17	1,788	0.47	0.41	19.91	1.26
1	500	Base Non-Commercial Refrigerator	College	0%	0%	$ 0.01	0.01	0.01	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	College	25%	25%	$ 0.00	0.01	0.01	0.00	13	0.16	0.02	0.02	$ 0.09	847	0.88	0.77	9.88	1.31
1	520	Base Refrigeration System	College	0%	0%	$ -	0.52	0.52	0.06	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	College	12%	12%	$ 0.01	0.52	0.46	0.05	20	5.50	0.61	0.63	$ 0.02	212	3.54	2.71	3.16	1.31
1	523	Night covers for display cases	College	5%	0%	$ 0.00	0.52	0.49	0.06	5	2.36	0.00	0.31	$ 0.02	N/A	3.78	5.75	0.72	0.91
1	525	Efficient compressor motor	College	7%	7%	$ 0.00	0.52	0.48	0.05	10	3.14	0.35	0.36	$ 0.00	45	16.62	15.50	0.42	1.31
1	528	Refrigeration Commissioning	College	5%	5%	$ 0.00	0.53	0.51	0.06	3	0.24	0.03	0.03	$ 0.04	338	2.22	2.49	1.11	1.31
1	529	Demand Hot Gas Defrost	College	3%	3%	$ 0.00	0.52	0.51	0.06	10	1.15	0.13	0.13	$ 0.01	45	16.52	15.41	0.42	1.31
1	530	Demand Defrost Electric	College	8%	8%	$ 0.00	0.52	0.48	0.05	10	3.57	0.39	0.41	$ 0.00	15	51.17	47.72	0.14	1.31
1	531	Anti-sweat (humidistat) controls	College	5%	2%	$ 0.00	0.52	0.49	0.06	12	2.16	0.13	0.26	$ 0.01	193	6.29	6.55	1.12	1.12
1	533	Freezer-Cooler Replacement Gaskets	College	7%	7%	$ 0.00	0.54	0.50	0.06	4	1.57	0.17	0.18	$ 0.00	39	19.43	21.22	0.17	1.31
1	534	High R-Value Glass Doors	College	2%	2%	$ 0.00	0.52	0.51	0.06	10	0.75	0.08	0.09	$ 0.03	280	2.68	2.50	2.60	1.31
1	536	Oversized Air-Cooled Condenser	College	8%	8%	$ 0.01	0.54	0.50	0.05	16	1.93	0.21	0.22	$ 0.02	156	4.79	3.92	2.10	1.31
1	537	LED Display Lighting	College	1%	1%	$ 0.00	0.52	0.51	0.06	10	0.19	0.02	0.02	$ 0.06	547	1.37	1.28	5.08	1.31
1	538	Fiber Optic Display Lighting	College	25%	25%	$ 0.00	0.52	0.39	0.04	10	5.63	0.62	0.65	$ 0.00	21	35.37	32.98	0.20	1.31
1	540	Reach-In Refrigerators	College	2%	2%	$ 0.00	0.52	0.51	0.06	10	0.50	0.06	0.06	$ 0.01	68	10.99	10.25	0.63	1.31
1	610	Base Desktop PC	College	0%	0%	$ -	0.07	0.07	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	College	32%	25%	$ 0.00	0.08	0.05	0.01	4	0.70	0.06	0.06	$ 0.04	444	1.97	2.20	1.60	1.28
1	612	PC Manual Power Management Enabling	College	65%	45%	$ 0.02	0.09	0.03	0.01	4	1.10	0.09	0.09	$ 0.13	1,634	0.58	0.67	5.23	1.25

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	613	PC Network Power Management Enabling	College	65%	45%	$ 0.02	0.09	0.03	0.01	4	1.10	0.09	0.09	$ 0.13	1,634	0.58	0.67	5.23	1.25
1	620	Base Monitor, CRT	College	0%	0%	$ -	0.07	0.07	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	College	56%	56%	$ 0.00	0.07	0.03	0.00	4	1.24	0.15	0.10	$ 0.00	10	70.07	72.49	0.05	1.38
1	622	Monitor Power Management Enabling - CRT	College	51%	35%	$ 0.00	0.11	0.05	0.01	4	0.40	0.03	0.03	$ 0.01	75	12.76	14.64	0.24	1.25
1	630	Base Monitor, LCD	College	0%	0%	$ -	0.02	0.02	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	College	2%	2%	$ 0.00	0.02	0.02	0.00	4	0.01	0.00	0.00	$ 2.63	22,113	0.03	0.03	102.19	1.38
1	632	Monitor Power Management Enabling - LCD	College	27%	18%	$ 0.02	0.02	0.02	0.00	4	0.02	0.00	0.00	$ 1.34	16,262	0.06	0.07	52.05	1.25
1	640	Base Copier	College	0%	0%	$ -	0.01	0.01	0.00	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	College	21%	21%	$ 0.00	0.02	0.01	0.00	6	0.22	0.03	0.02	$ 0.01	62	11.89	11.63	0.41	1.38
1	642	Copier Power Management Enabling	College	19%	13%	$ 0.00	0.02	0.01	0.00	6	0.13	0.01	0.01	$ 0.36	4,374	0.22	0.24	20.13	1.25
1	650	Base Laser Printer	College	0%	0%	$ -	0.05	0.05	0.01	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	College	47%	32%	$ 0.05	0.09	0.05	0.01	5	0.13	0.01	0.01	$ 0.35	4,280	0.22	0.25	16.72	1.25
1	660	Base Data Center/Server Room	College	0%	0%	$ -	80.10	80.10	9.54	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	College	20%	20%	$ 0.10	83.44	66.75	7.95	10	9.33	1.11	0.72	$ 0.00	8	90.69	80.10	0.08	1.38
1	662	Data Center Best Practices	College	45%	45%	$ 0.50	83.87	46.13	5.49	10	11.87	1.41	0.91	$ 0.00	18	41.02	36.23	0.18	1.38
1	663	Data Center State of the Art practices	College	56%	56%	$ 1.00	80.10	35.24	4.20	10	5.23	0.62	0.40	$ 0.00	30	24.38	21.53	0.30	1.38
1	700	Base Water Heating	College	0%	0%	$ -	0.47	0.47	0.06	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	College	5%	5%	$ 0.00	0.48	0.45	0.06	15	0.39	0.05	0.03	$ 0.02	171	4.04	3.08	2.62	1.43
1	702	High Efficiency Water Heater (electric)	College	2%	2%	$ 0.00	0.47	0.47	0.06	15	0.21	0.03	0.02	$ 0.04	309	2.23	1.70	4.75	1.43
1	703	Heat Pump Water Heater (air source)	College	20%	20%	$ 0.08	0.47	0.38	0.05	15	1.86	0.24	0.17	$ 0.09	715	0.97	0.74	10.98	1.43
1	704	Hot Water Pipe Insulation	College	2%	2%	$ 0.01	0.47	0.46	0.06	15	0.03	0.00	0.00	$ 0.12	945	0.73	0.56	14.50	1.43
1	706	Heat Recovery Unit	College	65%	65%	$ 0.08	0.47	0.17	0.02	10	1.14	0.15	0.10	$ 0.04	318	2.17	1.85	3.52	1.43
1	707	Heat Trap	College	9%	9%	$ 0.01	0.48	0.44	0.06	10	0.60	0.08	0.05	$ 0.02	169	4.10	3.48	1.86	1.43
1	708	Tankless Water Heater	College	10%	10%	$ 0.03	0.47	0.43	0.06	20	0.87	0.11	0.08	$ 0.06	461	1.50	1.04	8.19	1.43
1	800	Base Vending Machines	College	0%	0%	$ -	0.40	0.40	0.05	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	College	38%	26%	$ 0.00	0.40	0.25	0.04	10	9.33	0.81	0.99	$ 0.00	46	19.97	19.48	0.33	1.25
1	900	Base Oven	College	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	905	Base Fryer	College	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Steamer	College	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	915	Base Hot Food Holding Cabinets	College	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Health	0%	0%	$ 0.52	3.84	3.84	0.39	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	Health	25%	25%	$ 0.60	3.84	2.88	0.29	14	0.38	0.04	0.03	$ 0.06	632	1.29	1.00	8.43	1.31
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	Health	65%	65%	$ 0.71	3.84	1.33	0.14	14	0.28	0.03	0.02	$ 0.03	293	2.78	2.19	3.81	1.31
1	103	LED Indoor Lighting - Base 4L4'T12	Health	59%	59%	$ 1.97	3.84	1.59	0.16	18	0.89	0.09	0.08	$ 0.09	902	0.90	0.71	11.99	1.31
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	Health	17%	20%	$ 0.14	3.84	3.18	0.31	9	0.19	0.02	0.02	$ 0.04	299	2.42	2.24	2.77	1.35
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	Health	32%	52%	$ 0.75	3.84	2.62	0.19	10	0.07	0.01	0.00	$ 0.10	594	0.97	0.79	8.26	1.50
1	106	Lighting Control Tuneup	Health	5%	1%	$ 0.01	3.87	3.69	0.39	6	0.01	0.00	0.00	$ 0.02	712	3.25	4.27	1.12	1.03
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	Health	25%	25%	$ 0.20	3.43	2.57	0.26	20	0.14	0.01	0.01	$ 0.02	230	3.55	2.71	3.15	1.31
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Health	0%	0%	$ 0.81	3.25	3.25	0.33	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Health	25%	25%	$ 1.01	3.25	2.44	0.25	14	1.10	0.11	0.09	$ 0.13	1,271	0.64	0.50	16.76	1.31
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Health	65%	65%	$ 1.36	3.25	1.13	0.11	14	0.45	0.05	0.04	$ 0.07	685	1.19	0.95	8.66	1.31
1	123	LED Indoor Lighting - Base 2L4'T12	Health	59%	59%	$ 2.09	3.25	1.34	0.14	18	2.86	0.29	0.24	$ 0.11	1,127	0.72	0.56	15.05	1.31
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Health	17%	20%	$ 0.14	3.25	2.69	0.26	8	0.60	0.07	0.06	$ 0.05	388	1.86	1.77	3.27	1.35
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Health	32%	52%	$ 0.75	3.25	2.21	0.16	10	0.22	0.04	0.02	$ 0.12	702	0.82	0.67	9.76	1.50
1	126	Lighting Control Tuneup - Base 2L4'T12	Health	5%	1%	$ 0.01	3.27	3.12	0.33	6	0.02	0.00	0.00	$ 0.02	842	2.75	3.61	1.32	1.03
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Health	25%	25%	$ 0.20	2.90	2.18	0.22	20	0.47	0.05	0.04	$ 0.03	272	3.01	2.29	3.73	1.31
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Health	0%	0%	$ 0.64	3.25	3.25	0.33	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Health	0%	0%	$ 0.16	12.97	12.97	1.32	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Health	72%	72%	$ 0.21	12.97	3.63	0.37	5	51.91	5.27	4.40	$ 0.01	63	12.89	13.66	0.30	1.31
1	142	Cold Cathode Lamps	Health	72%	72%	$ 0.61	12.97	3.63	0.37	4	5.77	0.59	0.49	$ 0.02	204	4.01	4.37	0.80	1.31
1	143	Screw-in LED--Base Incandescent	Health	93%	93%	$ 2.14	12.97	0.91	0.09	18	74.50	7.56	6.32	$ 0.02	186	4.40	3.46	2.44	1.31
1	145	Base CFL to screw-in replacement	Health	0%	0%	$ 0.42	3.55	3.55	0.36	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Health	0%	0%	$ 0.13	12.97	12.97	1.32	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Health	76%	76%	$ 1.32	12.97	3.11	0.32	14	167.75	17.02	14.23	$ 0.02	161	5.08	4.33	1.82	1.31
1	152	Ceramic Metal Halide	Health	56%	56%	$ 3.37	12.97	5.70	0.58	2	12.36	1.25	1.05	$ 0.35	3,424	0.24	0.28	7.08	1.31
1	153	Hardwired LED fixture--Base Incandescent	Health	93%	93%	$ 2.54	12.97	0.91	0.09	18	228.08	23.14	19.34	$ 0.02	221	3.70	2.91	2.90	1.31
1	155	Base CFL to Hardwired replacement	Health	0%	0%	$ 1.65	3.55	3.55	0.36	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Health	68%	68%	$ 2.27	3.55	1.15	0.12	18	74.02	7.51	6.28	$ 0.10	990	0.82	0.65	13.01	1.31
1	160	Base High Bay Probe-start Metal Halide, 400W	Health	0%	0%	$ 0.99	2.44	2.44	0.25	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	Health	49%	49%	$ 0.34	2.44	1.25	0.13	14	0.31	0.03	0.03	$ 0.04	345	2.37	2.02	3.91	1.31
1	162	PSMH + electronic ballast	Health	37%	37%	$ 0.81	2.44	1.54	0.16	8	0.24	0.02	0.02	$ 0.17	1,697	0.48	0.47	12.29	1.31
1	163	Induction High Bay Lighting - Base Std MH	Health	37%	37%	$ 1.06	2.44	1.53	0.15	18	0.24	0.02	0.02	$ 0.12	1,220	0.67	0.53	16.03	1.31
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	Health	18%	2%	$ 0.14	2.52	2.07	0.25	7	0.03	0.00	0.00	$ 0.06	5,551	0.96	1.31	4.04	0.96
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	Health	25%	25%	$ 0.20	1.54	1.15	0.12	20	0.04	0.00	0.00	$ 0.05	513	1.59	1.21	7.04	1.31
1	180	Base 4L4'T8, 1EB	Health	0%	0%	$ -	2.17	2.17	0.22	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	Health	16%	16%	$ 0.05	2.17	1.83	0.19	14	11.43	1.16	0.97	$ 0.02	185	4.41	3.76	2.09	1.31
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	Health	20%	20%	$ 0.14	2.18	1.74	0.18	9	10.22	1.04	0.87	$ 0.05	527	1.55	1.48	4.19	1.31
1	183	Lighting Control Tuneup - Base 4L4'T8	Health	5%	1%	$ 0.01	2.18	2.08	0.22	6	0.36	0.01	0.03	$ 0.04	1,263	1.83	2.41	1.98	1.03
1	184	LED Indoor Lighting - Base 4L4'T8	Health	29%	29%	$ 1.46	2.17	1.54	0.16	18	21.34	2.16	1.81	$ 0.24	2,411	0.34	0.27	31.66	1.31
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	Health	25%	25%	$ 0.20	2.17	1.63	0.16	20	7.85	0.80	0.67	$ 0.04	364	2.24	1.71	4.99	1.31
1	190	Base 2L4'T8, 1EB	Health	0%	0%	$ -	2.17	2.17	0.22	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	Health	17%	17%	$ 0.07	2.17	1.80	0.18	14	15.79	1.60	1.34	$ 0.02	234	3.49	2.98	2.65	1.31
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Health	20%	20%	$ 0.14	2.19	1.76	0.18	9	12.57	1.28	1.07	$ 0.05	524	1.56	1.49	4.16	1.31
1	193	Lighting Control Tuneup - Base 2L4'T8	Health	5%	1%	$ 0.01	2.18	2.08	0.22	6	0.45	0.01	0.04	$ 0.04	1,263	1.83	2.41	1.98	1.03
1	194	LED Indoor Lighting - Base 2L4'T8	Health	29%	29%	$ 1.49	2.17	1.54	0.16	18	26.93	2.73	2.28	$ 0.25	2,472	0.33	0.26	32.46	1.31

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Health	25%	25%	$ 0.20	2.17	1.63	0.16	20	9.91	1.01	0.84	$ 0.04	364	2.24	1.71	4.99	1.31
1	200	Base Exit Sign	Health	0%	0%	$ -	0.03	0.03	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Health	81%	81%	$ 0.02	0.03	0.01	0.00	13	2.82	0.29	0.24	$ 0.13	1,237	0.66	0.58	13.26	1.31
1	210	Base Outdoor Mercury Vapor 400W Lamp	Health	0%	0%	$ -	0.33	0.33	0.00	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Health	35%	35%	$ 0.04	0.36	0.23	0.00	14	10.92	0.07	2.45	$ 0.04	5,802	1.71	1.95	4.03	0.98
1	212	LED Outdoor Area Lighting	Health	52%	52%	$ 0.06	0.33	0.16	0.00	23	19.91	0.12	4.47	$ 0.04	5,870	1.60	1.63	5.24	0.98
1	213	LED Outdoor Bi-level Fixtures	Health	70%	70%	$ 0.29	0.33	0.10	0.00	23	13.35	0.08	3.00	$ 0.12	19,625	0.48	0.49	17.50	0.98
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Health	25%	0%	$ 0.01	0.36	0.27	0.00	14	5.69	0.00	1.95	$ 0.01	N/A	6.06	7.68	1.03	0.88
1	220	Base Street Lighting	Health	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Health	0%	0%	$ 0.55	3.26	3.26	1.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Health	12%	12%	$ 0.09	3.39	2.98	1.05	20	26.05	9.14	4.70	$ 0.02	61	6.01	2.96	2.89	2.03
1	302	Window Film (Standard)	Health	1%	1%	$ 0.05	3.27	3.23	1.13	10	2.15	0.75	0.39	$ 0.20	579	0.63	0.38	17.10	2.03
1	303	EMS - Chiller	Health	10%	10%	$ 0.15	3.26	2.94	1.03	15	30.52	10.71	5.51	$ 0.05	152	2.41	1.30	6.22	2.03
1	304	Cool Roof - Chiller	Health	4%	4%	$ 0.48	3.28	3.16	1.11	10	4.77	1.67	0.86	$ 0.64	1,826	0.20	0.12	53.97	2.03
1	305	Chiller Tune Up/Diagnostics	Health	7%	4%	$ 0.10	3.38	3.14	1.14	10	8.31	1.66	1.71	$ 0.07	339	1.45	1.14	5.71	1.55
1	306	VSD for Chiller Pumps and Towers	Health	10%	10%	$ 0.11	3.35	3.01	1.06	15	23.18	8.14	4.18	$ 0.04	103	3.54	1.90	4.24	2.03
1	307	EMS Optimization	Health	4%	1%	$ 0.03	3.33	3.19	1.15	5	4.75	0.51	1.05	$ 0.06	587	1.26	1.39	3.00	1.26
1	308	Economizer - Chiller	Health	15%	5%	$ 0.43	3.81	3.26	1.28	15	0.52	0.06	0.12	$ 0.09	817	0.90	0.78	10.30	1.26
1	309	Duct/Pipe Insulation - Chiller	Health	2%	2%	$ 0.77	3.33	3.26	1.14	10	0.14	0.05	0.03	$ 1.86	5,292	0.07	0.04	156.40	2.03
1	311	High Efficiency Chiller Motors	Health	3%	3%	$ 0.07	3.27	3.17	1.11	20	8.70	3.05	1.57	$ 0.07	186	1.97	0.97	8.84	2.03
1	350	Base DX Packaged System, EER=10.3, 10 tons	Health	0%	0%	$ 1.92	5.65	5.65	1.98	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Health	4%	3%	$ 0.13	5.82	5.57	1.99	10	1.39	0.28	0.29	$ 0.08	393	1.25	0.98	6.63	1.55
1	352	DX Packaged System, EER=10.9, 10 tons	Health	6%	6%	$ 0.07	5.65	5.34	1.87	15	6.84	2.40	1.23	$ 0.02	71	5.19	2.79	2.90	2.03
1	353	DX Packaged System, EER=11.5, 10 tons	Health	10%	10%	$ 0.27	5.65	5.07	1.78	15	12.92	4.53	2.33	$ 0.05	150	2.45	1.32	6.14	2.03
1	354	DX Packaged System, EER=13.4, 10 tons	Health	23%	23%	$ 2.60	5.65	4.35	1.53	15	28.57	10.03	5.15	$ 0.23	659	0.56	0.30	27.03	2.03
1	357	Window Film (Standard)	Health	1%	1%	$ 0.05	5.66	5.60	1.96	10	0.93	0.33	0.17	$ 0.12	334	1.10	0.66	9.87	2.03
1	358	Prog. Thermostat - DX	Health	4%	1%	$ 0.05	5.73	5.50	1.99	8	3.43	0.37	0.76	$ 0.04	386	1.91	1.95	2.98	1.26
1	359	Cool Roof - DX	Health	1%	1%	$ 0.48	5.66	5.62	1.97	10	0.33	0.12	0.06	$ 2.16	6,165	0.06	0.04	182.21	2.03
1	360	Optimize Controls	Health	4%	1%	$ 0.04	5.81	5.58	2.01	5	1.29	0.14	0.29	$ 0.05	448	1.65	1.82	2.29	1.26
1	361	Economizer	Health	1%	0%	$ 0.43	5.68	5.63	1.99	15	0.54	0.06	0.12	$ 1.07	9,887	0.07	0.06	124.64	1.26
1	362	Aerosol Duct Sealing - DX	Health	7%	7%	$ 0.04	5.65	5.26	1.85	15	2.78	0.98	0.50	$ 0.01	37	9.84	5.29	1.53	2.03
1	364	Duct/Pipe Insulation - DX	Health	2%	2%	$ 2.60	5.67	5.56	1.95	10	1.61	0.56	0.29	$ 3.68	10,488	0.03	0.02	309.96	2.03
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Health	0%	0%	$ 0.02	4.11	4.11	0.52	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Health	2%	2%	$ 0.01	4.13	4.04	0.51	20	4.19	0.53	0.47	$ 0.01	52	12.96	9.60	0.89	1.35
1	402	Variable Speed Drive Control, 5 HP	Health	27%	8%	$ 0.12	4.29	3.11	0.51	15	57.92	2.03	7.16	$ 0.01	330	5.64	5.98	1.35	1.03
1	403	Demand Controlled Ventilation	Health	14%	8%	$ 0.12	4.11	3.53	0.48	15	33.78	2.29	4.05	$ 0.02	367	2.91	2.78	2.91	1.14
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Health	0%	0%	$ 0.01	3.81	3.81	0.49	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	Health	2%	2%	$ 0.00	3.82	3.76	0.48	20	0.79	0.10	0.09	$ 0.00	26	25.67	19.01	0.45	1.35
1	412	Variable Speed Drive Control, 15 HP	Health	27%	8%	$ 0.04	3.97	2.89	0.47	20	16.11	0.56	1.99	$ 0.00	106	17.52	17.00	0.50	1.03
1	413	Air Handler Optimization, 15 HP	Health	9%	3%	$ 0.03	3.81	3.46	0.47	8	1.69	0.06	0.21	$ 0.02	468	3.98	4.95	1.17	1.03
1	414	Energy Recovery Ventilation	Health	7%	7%	$ 0.54	3.81	3.54	0.45	20	4.66	0.59	0.53	$ 0.20	1,601	0.42	0.31	27.62	1.35
1	415	Electronically Commutated Motors (ECM) on an air handler unit	Health	14%	14%	$ 0.12	3.81	3.26	0.42	15	9.63	1.23	1.09	$ 0.02	190	3.52	2.85	2.83	1.35
1	417	Demand Controlled Ventilation	Health	14%	8%	$ 0.12	3.81	3.27	0.45	15	9.40	0.64	1.13	$ 0.03	396	2.70	2.58	3.13	1.14
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Health	0%	0%	$ 0.00	3.74	3.74	0.48	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Non-Commercial Refrigerator	Health	0%	0%	$ 0.73	0.14	0.14	0.01	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Energy Star Refrigerator	Health	20%	20%	$ 0.05	0.14	0.11	0.01	13	2.93	0.31	0.32	$ 0.26	2,394	0.32	0.28	27.14	1.30
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Health	25%	25%	$ 0.12	0.14	0.10	0.01	13	3.70	0.40	0.41	$ 0.47	4,354	0.18	0.15	49.36	1.30
1	520	Base Refrigeration System	Health	0%	0%	$ -	0.35	0.35	0.04	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Health	12%	12%	$ 0.02	0.35	0.31	0.03	20	4.92	0.53	0.54	$ 0.05	432	1.77	1.36	6.27	1.30
1	522	Strip curtains for walk-ins	Health	4%	4%	$ 0.00	0.35	0.34	0.04	4	1.45	0.16	0.16	$ 0.02	192	4.00	4.39	0.80	1.30
1	524	Evaporator fan controller for MT walk-ins	Health	0%	0%	$ 0.00	0.35	0.35	0.04	10	0.20	0.00	0.02	$ 0.07	N/A	0.81	1.09	5.98	0.91
1	525	Efficient compressor motor	Health	7%	7%	$ 0.00	0.35	0.32	0.03	10	2.80	0.30	0.31	$ 0.01	92	8.32	7.81	0.83	1.30
1	526	Compressor VSD retrofit	Health	6%	3%	$ 0.01	0.35	0.33	0.04	13	2.40	0.14	0.28	$ 0.04	746	1.66	1.70	4.48	1.12
1	527	Floating head pressure controls	Health	6%	0%	$ 0.00	0.35	0.33	0.04	14	2.48	0.00	0.31	$ 0.01	N/A	4.80	5.89	1.34	0.91
1	528	Refrigeration Commissioning	Health	5%	5%	$ 0.00	0.36	0.34	0.04	3	0.21	0.02	0.02	$ 0.07	690	1.11	1.26	2.21	1.30
1	529	Demand Hot Gas Defrost	Health	3%	3%	$ 0.00	0.35	0.34	0.04	10	1.03	0.11	0.11	$ 0.01	93	8.27	7.77	0.84	1.30
1	530	Demand Defrost Electric	Health	8%	8%	$ 0.00	0.35	0.32	0.03	10	3.19	0.34	0.35	$ 0.00	30	25.63	24.05	0.27	1.30
1	533	Freezer-Cooler Replacement Gaskets	Health	7%	7%	$ 0.00	0.36	0.34	0.04	4	1.40	0.15	0.15	$ 0.01	79	9.73	10.70	0.33	1.30
1	536	Oversized Air-Cooled Condenser	Health	8%	8%	$ 0.01	0.36	0.33	0.04	16	1.73	0.19	0.19	$ 0.03	319	2.40	1.97	4.17	1.30
1	537	LED Display Lighting	Health	1%	1%	$ 0.00	0.35	0.35	0.04	10	0.17	0.02	0.02	$ 0.12	1,116	0.69	0.64	10.09	1.30
1	538	Fiber Optic Display Lighting	Health	24%	25%	$ 0.00	0.35	0.26	0.03	10	5.03	0.54	0.55	$ 0.00	43	17.71	16.62	0.39	1.30
1	539	Beverage Merchandisers	Health	2%	2%	$ 0.00	0.35	0.34	0.04	10	0.58	0.06	0.06	$ 0.04	333	2.30	2.16	3.01	1.30
1	540	Reach-In Refrigerators	Health	2%	2%	$ 0.00	0.35	0.34	0.04	10	0.45	0.05	0.05	$ 0.02	230	3.32	3.12	2.08	1.30
1	610	Base Desktop PC	Health	0%	0%	$ -	0.42	0.42	0.04	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Health	32%	25%	$ 0.00	0.44	0.30	0.03	4	13.43	0.99	1.10	$ 0.00	50	20.93	24.73	0.14	1.21
1	612	PC Manual Power Management Enabling	Health	65%	45%	$ 0.01	0.50	0.17	0.03	4	21.11	1.38	1.75	$ 0.01	183	6.23	7.56	0.46	1.18
1	613	PC Network Power Management Enabling	Health	65%	45%	$ 0.01	0.50	0.17	0.03	4	21.11	1.38	1.75	$ 0.01	183	6.23	7.56	0.46	1.18
1	620	Base Monitor, CRT	Health	0%	0%	$ -	0.37	0.37	0.03	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Health	56%	56%	$ 0.00	0.38	0.17	0.02	4	10.23	0.97	0.81	$ 0.00	6	136.87	151.18	0.02	1.29
1	622	Monitor Power Management Enabling - CRT	Health	51%	35%	$ 0.00	0.61	0.30	0.04	4	3.39	0.22	0.28	$ 0.00	47	24.31	29.50	0.12	1.18
1	630	Base Monitor, LCD	Health	0%	0%	$ -	0.09	0.09	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Health	2%	2%	$ 0.00	0.09	0.09	0.01	4	0.06	0.01	0.01	$ 0.22	2,338	0.37	0.41	8.61	1.29
1	632	Monitor Power Management Enabling - LCD	Health	27%	18%	$ 0.01	0.12	0.09	0.01	4	0.12	0.01	0.01	$ 0.11	1,713	0.66	0.81	4.35	1.18
1	640	Base Copier	Health	0%	0%	$ -	0.26	0.26	0.03	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Health	21%	21%	$ 0.00	0.27	0.22	0.02	6	5.28	0.50	0.42	$ 0.00	6	152.66	159.39	0.03	1.29

DSM ASSYST SUMMARY — Year 2011 — Vintage Existing — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	642	Copier Power Management Enabling	Health	19%	13%	$ 0.01	0.28	0.23	0.02	6	3.19	0.21	0.27	$ 0.03	400	2.84	3.26	1.46	1.18
1	650	Base Laser Printer	Health	0%	0%	$ -	0.47	0.47	0.04	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Health	47%	32%	$ 0.02	0.85	0.45	0.05	5	1.74	0.11	0.14	$ 0.02	265	4.29	5.06	0.82	1.18
1	660	Base Data Center/Server Room	Health	0%	0%	$ -	126.07	126.07	11.96	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Health	20%	20%	$ 0.10	131.32	105.06	9.97	10	16.89	1.60	1.34	$ 0.00	6	133.69	126.07	0.05	1.29
1	662	Data Center Best Practices	Health	45%	45%	$ 0.50	132.01	72.60	6.89	10	21.49	2.04	1.71	$ 0.00	14	60.48	57.03	0.11	1.29
1	663	Data Center State of the Art practices	Health	56%	56%	$ 1.00	126.07	55.47	5.26	10	9.46	0.90	0.75	$ 0.00	24	35.94	33.89	0.19	1.29
1	700	Base Water Heating	Health	0%	0%	$ -	1.40	1.40	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Health	5%	5%	$ 0.00	1.40	1.33	0.11	15	0.59	0.05	0.05	$ 0.01	90	10.40	9.02	0.90	1.26
1	702	High Efficiency Water Heater (electric)	Health	2%	2%	$ 0.00	1.40	1.37	0.12	15	0.31	0.03	0.02	$ 0.01	168	5.54	4.80	1.68	1.26
1	703	Heat Pump Water Heater (air source)	Health	20%	20%	$ 0.08	1.40	1.12	0.10	15	2.51	0.21	0.19	$ 0.03	388	2.40	2.08	3.88	1.26
1	704	Hot Water Pipe Insulation	Health	2%	2%	$ 0.01	1.40	1.37	0.12	15	0.06	0.01	0.00	$ 0.04	513	1.81	1.57	5.13	1.26
1	706	Heat Recovery Unit	Health	65%	65%	$ 0.08	1.40	0.49	0.04	10	8.14	0.70	0.63	$ 0.01	166	5.62	5.44	1.19	1.26
1	707	Heat Trap	Health	9%	9%	$ 0.01	1.43	1.30	0.11	10	0.81	0.07	0.06	$ 0.01	91	10.18	9.85	0.66	1.26
1	708	Tankless Water Heater	Health	10%	10%	$ 0.03	1.40	1.26	0.11	20	1.17	0.10	0.09	$ 0.02	250	3.72	2.95	2.89	1.26
1	709	Solar Water Heater	Health	70%	70%	$ 0.25	1.40	0.42	0.04	20	2.19	0.19	0.17	$ 0.03	300	3.11	2.47	3.47	1.26
1	800	Base Vending Machines	Health	0%	0%	$ -	0.07	0.07	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Health	38%	26%	$ 0.01	0.07	0.04	0.00	10	2.26	0.14	0.19	$ 0.04	592	1.96	2.04	3.19	1.17
1	900	Base Oven	Health	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	905	Base Fryer	Health	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Steamer	Health	0%	0%	$ -	0.38	0.38	0.05	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Efficient Steamer	Health	89%	89%	$ 0.02	0.38	0.04	0.01	10	10.26	1.31	0.52	$ 0.01	76	9.11	7.93	0.82	1.40
1	915	Base Hot Food Holding Cabinets	Health	0%	0%	$ -	0.11	0.11	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Lodging	0%	0%	$ 0.38	2.26	2.26	0.21	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Lodging	0%	0%	$ 0.59	2.14	2.14	0.20	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Lodging	25%	25%	$ 0.73	2.14	1.60	0.15	14	0.44	0.04	0.05	$ 0.14	1,513	0.57	0.45	18.55	1.28
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Lodging	65%	65%	$ 0.99	2.14	0.74	0.07	14	0.18	0.02	0.02	$ 0.08	815	1.05	0.86	9.58	1.28
1	123	LED Indoor Lighting - Base 2L4'T12	Lodging	59%	59%	$ 1.52	2.14	0.88	0.08	36	1.16	0.11	0.14	$ 0.10	1,057	0.68	0.53	16.21	1.28
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Lodging	17%	20%	$ 0.14	2.14	1.77	0.16	8	0.10	0.01	0.01	$ 0.07	634	1.20	1.18	4.92	1.31
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Lodging	33%	52%	$ 0.75	2.14	1.44	0.10	10	0.28	0.04	0.03	$ 0.17	1,149	0.53	0.45	14.54	1.44
1	126	Lighting Control Tuneup - Base 2L4'T12	Lodging	5%	1%	$ 0.01	2.23	2.13	0.21	6	0.01	0.00	0.00	$ 0.03	1,326	1.87	2.48	1.92	1.02
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Lodging	25%	25%	$ 0.20	1.91	1.43	0.14	20	0.19	0.02	0.02	$ 0.04	444	1.93	1.51	5.67	1.28
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Lodging	0%	0%	$ 0.46	2.14	2.14	0.20	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Lodging	0%	0%	$ 0.22	8.52	8.52	0.80	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Lodging	72%	72%	$ 0.28	8.52	2.39	0.23	5	12.65	1.19	1.52	$ 0.01	140	6.13	6.65	0.63	1.28
1	142	Cold Cathode Lamps	Lodging	72%	72%	$ 0.83	8.52	2.39	0.23	9	1.41	0.13	0.17	$ 0.02	244	3.51	3.42	1.81	1.28
1	143	Screw-in LED--Base Incandescent	Lodging	93%	93%	$ 2.89	8.52	0.60	0.06	36	18.15	1.71	2.18	$ 0.03	318	2.25	1.75	4.87	1.28
1	145	Base CFL to screw-in replacement	Lodging	0%	0%	$ 0.57	2.33	2.33	0.22	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	Lodging	68%	68%	$ 2.97	2.33	0.76	0.07	36	9.48	0.89	1.14	$ 0.16	1,644	0.43	0.34	25.23	1.28
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Lodging	0%	0%	$ 0.17	8.52	8.52	0.80	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Lodging	76%	76%	$ 1.79	8.52	2.05	0.19	14	95.36	9.00	11.43	$ 0.03	355	2.42	2.11	3.74	1.28
1	152	Ceramic Metal Halide	Lodging	56%	56%	$ 4.55	8.52	3.75	0.35	4	0.39	0.04	0.05	$ 0.36	3,865	0.22	0.25	14.15	1.28
1	153	Hardwired LED fixture--Base Incandescent	Lodging	93%	93%	$ 3.44	8.52	0.60	0.06	36	129.66	12.23	15.54	$ 0.04	378	1.89	1.48	5.79	1.28
1	155	Base CFL to Hardwired replacement	Lodging	0%	0%	$ 2.23	2.33	2.33	0.22	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Lodging	68%	68%	$ 3.06	2.33	0.76	0.07	36	66.44	6.27	7.96	$ 0.16	1,695	0.42	0.33	26.01	1.28
1	160	Base High Bay Probe-start Metal Halide, 400W	Lodging	0%	0%	$ 0.72	1.60	1.60	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	180	Base 4L4'T8, 1EB	Lodging	0%	0%	$ -	1.43	1.43	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	190	Base 2L4'T8, 1EB	Lodging	0%	0%	$ -	1.43	1.43	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	200	Base Exit Sign	Lodging	0%	0%	$ -	0.03	0.03	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Lodging	81%	81%	$ 0.01	0.03	0.01	0.00	13	1.44	0.14	0.17	$ 0.07	772	1.11	0.99	7.69	1.28
1	210	Base Outdoor Mercury Vapor 400W Lamp	Lodging	0%	0%	$ -	0.50	0.50	0.00	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Lodging	35%	35%	$ 0.06	0.50	0.33	0.00	14	12.18	0.07	2.84	$ 0.04	7,605	1.41	1.62	4.87	0.98
1	212	LED Outdoor Area Lighting	Lodging	52%	52%	$ 0.11	0.50	0.24	0.00	23	18.05	0.10	4.20	$ 0.04	6,990	1.45	1.49	5.74	0.98
1	213	LED Outdoor Bi-level Fixtures	Lodging	70%	70%	$ 0.49	0.50	0.15	0.00	23	12.10	0.07	2.82	$ 0.13	23,369	0.43	0.45	19.20	0.98
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Lodging	25%	0%	$ 0.01	0.56	0.42	0.00	14	5.16	0.00	1.83	$ 0.01	N/A	5.52	7.00	1.12	0.88
1	220	Base Street Lighting	Lodging	0%	0%	$ 0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Lodging	0%	0%	$ 0.77	0.99	0.99	0.37	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	302	Window Film (Standard)	Lodging	7%	7%	$ 0.05	1.00	0.93	0.35	10	0.82	0.31	0.17	$ 0.11	292	1.20	0.70	9.28	2.09
1	303	EMS - Chiller	Lodging	10%	10%	$ 0.21	0.99	0.89	0.34	15	1.91	0.72	0.40	$ 0.25	651	0.54	0.28	28.69	2.09
1	304	Cool Roof - Chiller	Lodging	4%	4%	$ 0.48	0.99	0.95	0.36	10	0.35	0.13	0.07	$ 2.12	5,631	0.06	0.04	178.79	2.09
1	305	Chiller Tune Up/Diagnostics	Lodging	7%	4%	$ 0.10	1.03	0.95	0.37	10	0.52	0.11	0.12	$ 0.22	1,038	0.45	0.34	18.84	1.59
1	307	EMS Optimization	Lodging	4%	1%	$ 0.03	1.01	0.97	0.38	5	0.30	0.03	0.08	$ 0.21	1,800	0.39	0.42	9.89	1.28
1	308	Economizer - Chiller	Lodging	35%	11%	$ 0.60	1.51	0.99	0.51	15	0.10	0.01	0.03	$ 0.13	1,124	0.62	0.53	15.24	1.28
1	309	Duct/Pipe Insulation - Chiller	Lodging	2%	2%	$ 0.77	1.01	0.99	0.37	10	0.01	0.00	0.00	$ 6.12	16,223	0.02	0.01	515.07	2.09
1	350	Base DX Packaged System, EER=10.3, 10 tons	Lodging	0%	0%	$ 2.69	1.72	1.72	0.65	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Lodging	4%	3%	$ 0.13	1.77	1.69	0.65	10	0.90	0.19	0.21	$ 0.26	1,205	0.39	0.30	21.87	1.59
1	352	DX Packaged System, EER=10.9, 10 tons	Lodging	6%	6%	$ 0.09	1.72	1.62	0.61	15	4.44	1.67	0.92	$ 0.11	303	1.16	0.60	13.36	2.09
1	353	DX Packaged System, EER=11.5, 10 tons	Lodging	10%	10%	$ 0.37	1.72	1.54	0.58	15	8.39	3.16	1.73	$ 0.24	642	0.55	0.29	28.30	2.09
1	354	DX Packaged System, EER=13.4, 10 tons	Lodging	23%	23%	$ 3.64	1.72	1.32	0.50	15	18.56	7.00	3.83	$ 1.07	2,829	0.12	0.06	124.65	2.09
1	357	Window Film (Standard)	Lodging	7%	7%	$ 0.05	1.72	1.60	0.60	10	4.25	1.60	0.88	$ 0.06	171	2.05	1.20	5.43	2.09
1	358	Prog. Thermostat - DX	Lodging	4%	1%	$ 0.07	1.74	1.67	0.65	8	2.22	0.26	0.57	$ 0.19	1,658	0.42	0.42	13.74	1.28
1	359	Cool Roof - DX	Lodging	0%	0%	$ 0.48	1.72	1.71	0.64	10	0.16	0.06	0.03	$ 11.55	30,634	0.01	0.01	972.61	2.09
1	360	Optimize Controls	Lodging	4%	1%	$ 0.04	1.76	1.69	0.66	5	0.83	0.10	0.21	$ 0.16	1,375	0.51	0.55	7.55	1.28
1	361	Economizer	Lodging	6%	2%	$ 0.60	1.77	1.66	0.65	15	2.87	0.33	0.73	$ 0.60	5,162	0.13	0.12	70.03	1.28
1	362	Aerosol Duct Sealing - DX	Lodging	7%	7%	$ 0.06	1.72	1.60	0.60	15	1.81	0.68	0.37	$ 0.06	160	2.20	1.15	7.04	2.09

DSM ASSYST SUMMARY — Year 2011 — Vintage Existing — Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	364	Duct/Pipe Insulation - DX	Lodging	2%	2%	$ 2.60	1.74	1.70	0.64	10	0.50	0.19	0.10	$ 12.01	31,862	0.01	0.01	1,011.58	2.09
1	365	DX Coil Cleaning	Lodging	5%	5%	$ 0.03	1.77	1.68	0.64	5	1.13	0.43	0.23	$ 0.10	271	1.29	0.86	4.84	2.09
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Lodging	0%	0%	$ 0.02	0.77	0.77	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Lodging	2%	2%	$ 0.01	0.77	0.76	0.10	20	0.93	0.12	0.11	$ 0.04	288	2.24	1.64	5.20	1.36
1	403	Demand Controlled Ventilation	Lodging	14%	8%	$ 0.12	0.77	0.66	0.09	15	7.51	0.53	0.94	$ 0.13	1,872	0.55	0.52	15.51	1.15
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Lodging	0%	0%	$ 0.00	0.71	0.71	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Lodging	0%	0%	$ 0.00	0.70	0.70	0.09	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Non-Commercial Refrigerator	Lodging	0%	0%	$ 0.92	0.27	0.27	0.03	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Lodging	25%	25%	$ 0.16	0.27	0.20	0.02	13	2.81	0.30	0.31	$ 0.30	2,784	0.27	0.24	31.84	1.30
1	520	Base Refrigeration System	Lodging	0%	0%	$ -	0.45	0.45	0.05	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	528	Refrigeration Commissioning	Lodging	5%	5%	$ 0.00	0.46	0.44	0.05	3	0.14	0.01	0.02	$ 0.04	398	1.91	2.16	1.29	1.30
1	533	Freezer-Cooler Replacement Gaskets	Lodging	7%	7%	$ 0.00	0.46	0.43	0.05	4	0.91	0.10	0.10	$ 0.00	45	16.75	18.38	0.19	1.30
1	536	Oversized Air-Cooled Condenser	Lodging	8%	8%	$ 0.01	0.47	0.43	0.05	16	1.13	0.12	0.13	$ 0.02	184	4.13	3.39	2.42	1.30
1	537	LED Display Lighting	Lodging	1%	1%	$ 0.00	0.45	0.45	0.05	10	0.11	0.01	0.01	$ 0.07	644	1.18	1.11	5.87	1.30
1	538	Fiber Optic Display Lighting	Lodging	25%	25%	$ 0.00	0.45	0.34	0.04	10	3.28	0.35	0.36	$ 0.00	25	30.49	28.57	0.23	1.30
1	540	Reach-In Refrigerators	Lodging	2%	2%	$ 0.00	0.45	0.44	0.05	10	0.29	0.03	0.03	$ 0.02	195	3.91	3.66	1.78	1.30
1	541	Reach-In Freezers	Lodging	1%	1%	$ 0.01	0.45	0.45	0.05	10	0.23	0.02	0.03	$ 0.23	2,135	0.36	0.33	19.46	1.30
1	610	Base Desktop PC	Lodging	0%	0%	$ -	0.06	0.06	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Lodging	32%	25%	$ 0.00	0.06	0.04	0.00	4	1.10	0.09	0.11	$ 0.00	24	41.20	48.41	0.07	1.22
1	612	PC Manual Power Management Enabling	Lodging	65%	45%	$ 0.00	0.07	0.02	0.00	4	1.73	0.12	0.18	$ 0.01	88	12.25	14.80	0.24	1.18
1	613	PC Network Power Management Enabling	Lodging	65%	45%	$ 0.00	0.07	0.02	0.00	4	1.73	0.12	0.18	$ 0.01	88	12.25	14.80	0.24	1.18
1	620	Base Monitor, CRT	Lodging	0%	0%	$ -	0.05	0.05	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Lodging	56%	56%	$ 0.00	0.05	0.02	0.00	4	0.10	0.01	0.01	$ 0.00	47	17.29	18.96	0.18	1.30
1	622	Monitor Power Management Enabling - CRT	Lodging	51%	35%	$ 0.00	0.09	0.04	0.01	4	0.03	0.00	0.00	$ 0.02	338	3.20	3.86	0.91	1.18
1	630	Base Monitor, LCD	Lodging	0%	0%	$ -	0.01	0.01	0.00	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Lodging	2%	2%	$ 0.00	0.01	0.01	0.00	4	0.01	0.00	0.00	$ 0.11	1,057	0.78	0.85	4.11	1.30
1	632	Monitor Power Management Enabling - LCD	Lodging	27%	18%	$ 0.00	0.02	0.01	0.00	4	0.03	0.00	0.00	$ 0.05	785	1.38	1.66	2.11	1.18
1	640	Base Copier	Lodging	0%	0%	$ -	0.03	0.03	0.00	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Lodging	21%	21%	$ 0.00	0.03	0.02	0.00	6	0.15	0.01	0.01	$ 0.00	7	110.54	114.58	0.04	1.30
1	642	Copier Power Management Enabling	Lodging	19%	13%	$ 0.00	0.03	0.02	0.00	6	0.09	0.01	0.01	$ 0.04	527	2.05	2.34	2.03	1.18
1	650	Base Laser Printer	Lodging	0%	0%	$ -	0.07	0.07	0.01	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Lodging	47%	32%	$ 0.01	0.13	0.07	0.01	5	0.14	0.01	0.01	$ 0.05	780	1.39	1.63	2.55	1.18
1	660	Base Data Center/Server Room	Lodging	0%	0%	$ -	207.60	207.60	20.83	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Lodging	20%	20%	$ 0.10	216.25	173.00	17.36	10	1.05	0.11	0.10	$ 0.00	4	221.76	207.60	0.03	1.30
1	662	Data Center Best Practices	Lodging	45%	45%	$ 0.50	217.38	119.56	12.00	10	1.33	0.13	0.13	$ 0.00	8	100.31	93.91	0.07	1.30
1	663	Data Center State of the Art practices	Lodging	56%	56%	$ 1.00	207.60	91.34	9.16	10	0.59	0.06	0.06	$ 0.00	14	59.61	55.80	0.12	1.30
1	700	Base Water Heating	Lodging	0%	0%	$ -	3.44	3.44	0.31	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Lodging	5%	5%	$ 0.01	3.44	3.27	0.30	15	0.72	0.06	0.06	$ 0.01	86	10.28	8.90	0.91	1.26
1	702	High Efficiency Water Heater (electric)	Lodging	2%	2%	$ 0.00	3.44	3.38	0.30	15	0.38	0.03	0.03	$ 0.01	92	9.57	8.29	0.97	1.26
1	703	Heat Pump Water Heater (air source)	Lodging	20%	20%	$ 0.11	3.44	2.76	0.25	15	3.06	0.28	0.25	$ 0.02	213	4.15	3.59	2.25	1.26
1	704	Hot Water Pipe Insulation	Lodging	2%	2%	$ 0.02	3.47	3.40	0.31	15	0.08	0.01	0.01	$ 0.03	280	3.16	2.73	2.95	1.26
1	706	Heat Recovery Unit	Lodging	65%	65%	$ 0.08	3.44	1.21	0.11	10	2.49	0.22	0.20	$ 0.01	64	13.89	13.43	0.48	1.26
1	707	Heat Trap	Lodging	9%	9%	$ 0.01	3.52	3.21	0.29	10	0.99	0.09	0.08	$ 0.00	50	17.60	17.03	0.38	1.26
1	708	Tankless Water Heater	Lodging	10%	10%	$ 0.04	3.44	3.10	0.28	20	1.44	0.13	0.12	$ 0.01	137	6.44	5.11	1.67	1.26
1	709	Solar Water Heater	Lodging	70%	70%	$ 0.36	3.44	1.03	0.09	20	2.68	0.24	0.22	$ 0.01	164	5.38	4.26	2.01	1.26
1	800	Base Vending Machines	Lodging	0%	0%	$ -	0.17	0.17	0.02	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Lodging	38%	26%	$ 0.11	0.17	0.11	0.01	10	2.71	0.20	0.31	$ 0.26	3,481	0.29	0.30	21.80	1.20
1	900	Base Oven	Lodging	0%	0%	$ -	0.03	0.03	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Convection Oven	Lodging	15%	15%	$ 0.01	0.03	0.02	0.00	10	0.19	0.03	0.02	$ 0.46	3,396	0.19	0.17	38.89	1.42
1	905	Base Fryer	Lodging	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	910	Base Steamer	Lodging	0%	0%	$ -	0.00	0.00	0.00	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	915	Base Hot Food Holding Cabinets	Lodging	0%	0%	$ -	0.06	0.06	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Fluorescent Fixture, 4L4'T12, 34W, 2EEMAG	Other	0%	0%	$ 0.53	1.13	1.13	0.13	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	RET 4L4' Premium T8, 1EB, base 4L4'T12	Other	25%	25%	$ 0.61	1.13	0.85	0.10	14	2.46	0.28	0.16	$ 0.22	1,961	0.39	0.29	29.28	1.37
1	102	RET 2L4' Premium T8, 1EB, Reflector, base 4L4'T12	Other	65%	65%	$ 0.72	1.13	0.39	0.04	14	1.83	0.21	0.12	$ 0.10	910	0.84	0.63	13.23	1.37
1	103	LED Indoor Lighting - Base 4L4'T12	Other	59%	59%	$ 2.01	1.13	0.47	0.05	37	5.77	0.66	0.37	$ 0.25	2,222	0.28	0.21	41.25	1.37
1	104	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T12	Other	17%	20%	$ 0.14	1.13	0.94	0.10	9	0.47	0.06	0.04	$ 0.12	910	0.73	0.64	9.67	1.43
1	105	Continuous Dimming, 5L4' Fluorescent Fixtures - Base 4L4'T12	Other	30%	52%	$ 0.75	1.13	0.79	0.06	10	1.27	0.25	0.07	$ 0.35	1,807	0.29	0.22	29.73	1.63
1	106	Lighting Control Tuneup	Other	4%	1%	$ 0.01	1.15	1.10	0.13	6	0.11	0.00	0.01	$ 0.07	2,140	0.98	1.25	3.81	1.06
1	107	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T12	Other	25%	25%	$ 0.20	1.01	0.76	0.09	20	0.94	0.11	0.06	$ 0.08	699	1.09	0.80	10.74	1.37
1	120	Base Fluorescent Fixture, 2L4'T12, 34W, 1EEMAG	Other	0%	0%	$ 0.83	0.90	0.90	0.10	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	121	RET 2L4' Premium T8, 1EB -- base 2L4'T12	Other	25%	25%	$ 1.03	0.90	0.67	0.08	14	1.18	0.13	0.08	$ 0.48	4,209	0.18	0.14	62.13	1.37
1	122	RET 1L4' Premium T8, 1EB, Reflector OEM - Base 2L4'T12	Other	65%	65%	$ 1.39	0.90	0.31	0.04	14	0.49	0.06	0.03	$ 0.26	2,267	0.34	0.26	32.10	1.37
1	123	LED Indoor Lighting - Base 2L4'T12	Other	59%	59%	$ 2.13	0.90	0.37	0.04	37	3.07	0.35	0.20	$ 0.34	2,975	0.21	0.15	55.25	1.37
1	124	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T12	Other	17%	20%	$ 0.14	0.90	0.75	0.08	8	0.25	0.03	0.02	$ 0.17	1,258	0.53	0.47	12.19	1.43
1	125	Continuous Dimming, 10L4' Fluorescent Fixtures - Base 2L4'T12	Other	30%	52%	$ 0.75	0.90	0.62	0.05	10	0.68	0.13	0.04	$ 0.45	2,279	0.23	0.17	37.49	1.63
1	126	Lighting Control Tuneup - Base 2L4'T12	Other	4%	1%	$ 0.01	0.91	0.87	0.10	6	0.06	0.00	0.00	$ 0.09	2,699	0.78	0.99	4.81	1.06
1	127	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T12	Other	25%	25%	$ 0.20	0.80	0.60	0.07	20	0.50	0.06	0.03	$ 0.10	881	0.87	0.63	13.55	1.37
1	130	Base Fluorescent Fixture, 2L8'T12, 60W, 1EEMAG	Other	0%	0%	$ 0.65	0.90	0.90	0.10	9	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	131	RET 2 - 2L4' Premium T8, 1EB - Base 2L8'T12	Other	13%	13%	$ 1.20	0.90	0.78	0.09	14	0.29	0.03	0.02	$ 1.14	10,065	0.08	0.06	140.92	1.37
1	132	RET 2 - 1L4' Premium T8, 1EB, Reflector OEM - Base 2L8'T12	Other	60%	60%	$ 1.62	0.90	0.36	0.04	14	0.57	0.06	0.04	$ 0.34	3,015	0.25	0.20	41.10	1.37
1	133	LED Indoor Lighting - Base 2L8'T12	Other	59%	59%	$ 2.68	0.90	0.37	0.04	37	1.31	0.15	0.08	$ 0.42	3,732	0.17	0.12	69.29	1.37
1	134	Occupancy Sensor, 4L8' Fluorescent Fixtures - Base 2L8'T12	Other	17%	20%	$ 0.14	0.90	0.75	0.08	9	0.11	0.01	0.01	$ 0.16	1,147	0.58	0.51	12.19	1.43
1	135	Continuous Dimming, 5L8' Fluorescent Fixtures - Base 2L8'T12	Other	30%	52%	$ 0.75	0.90	0.62	0.05	10	0.29	0.06	0.02	$ 0.45	2,279	0.23	0.17	37.49	1.63
1	136	High Performance Lighting Remod/Renov - 25% Savings - Base 2L8'T12	Other	25%	25%	$ 0.20	0.80	0.60	0.07	20	0.21	0.02	0.01	$ 0.10	881	0.87	0.63	13.55	1.37

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	140	Base Incandescent Flood, 75W to Screw-in Replacement	Other	0%	0%	$ 0.09	3.57	3.57	0.41	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	141	CFL Screw-in 18W	Other	72%	72%	$ 0.12	3.57	1.00	0.11	5	249.21	28.31	16.20	$ 0.01	117	6.50	6.58	0.63	1.37
1	142	Cold Cathode Lamps	Other	72%	72%	$ 0.35	3.57	1.00	0.11	9	27.69	3.15	1.80	$ 0.02	203	3.76	3.42	1.81	1.37
1	143	Screw-in LED--Base Incandescent	Other	93%	93%	$ 1.22	3.57	0.25	0.03	37	357.67	40.63	23.24	$ 0.03	270	2.34	1.71	5.01	1.37
1	145	Base CFL to screw-in replacement	Other	0%	0%	$ 0.24	0.98	0.98	0.11	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	146	Screw-in LED--Base CFL	Other	68%	68%	$ 1.26	0.98	0.32	0.04	37	12.61	1.43	0.82	$ 0.16	1,396	0.45	0.33	25.93	1.37
1	150	Base Incandescent Flood, 75W to Hardwired CFL	Other	0%	0%	$ 0.07	3.57	3.57	0.41	1	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	151	CFL Hardwired, Modular 18W	Other	76%	76%	$ 0.76	3.57	0.86	0.10	14	64.19	7.29	4.17	$ 0.03	298	2.56	2.09	3.77	1.37
1	152	Ceramic Metal Halide	Other	56%	56%	$ 1.92	3.57	1.57	0.18	4	2.63	0.30	0.17	$ 0.36	3,211	0.24	0.25	14.15	1.37
1	153	Hardwired LED fixture--Base Incandescent	Other	93%	93%	$ 1.45	3.57	0.25	0.03	37	87.28	9.91	5.67	$ 0.04	321	1.97	1.44	5.95	1.37
1	155	Base CFL to Hardwired replacement	Other	0%	0%	$ 0.94	0.98	0.98	0.11	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	156	Hardwired LED fixture--Base CFL	Other	68%	68%	$ 1.30	0.98	0.32	0.04	37	13.75	1.56	0.89	$ 0.16	1,440	0.44	0.32	26.73	1.37
1	160	Base High Bay Probe-start Metal Halide, 400W	Other	0%	0%	$ 1.01	0.67	0.67	0.08	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	161	High Bay T5 - Base Std MH	Other	49%	49%	$ 0.35	0.67	0.35	0.04	14	12.23	1.39	0.79	$ 0.13	1,142	0.67	0.54	14.48	1.37
1	162	PSMH + electronic ballast	Other	37%	37%	$ 0.83	0.74	0.47	0.05	17	7.56	0.86	0.49	$ 0.34	2,953	0.26	0.20	42.21	1.37
1	163	Induction High Bay Lighting - Base Std MH	Other	37%	37%	$ 1.09	0.67	0.42	0.05	37	9.41	1.07	0.61	$ 0.36	3,169	0.20	0.15	58.84	1.37
1	164	Occupancy Sensor, High Bay T5 - Base Std MH	Other	17%	2%	$ 0.14	0.69	0.57	0.08	15	0.98	0.01	0.07	$ 0.13	10,110	0.47	0.52	15.48	0.98
1	165	High Performance Lighting Remod/Renov - 25% Savings - Base High Bay PSMH	Other	25%	25%	$ 0.20	0.42	0.32	0.04	20	1.70	0.19	0.11	$ 0.19	1,665	0.46	0.33	25.60	1.37
1	180	Base 4L4'T8, 1EB	Other	0%	0%	$ -	0.60	0.60	0.07	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	181	ROB 4L4' Premium T8, 1EB - Base 4L4'T8	Other	16%	16%	$ 0.05	0.64	0.54	0.06	14	2.88	0.33	0.19	$ 0.07	575	1.33	1.08	7.28	1.37
1	182	Occupancy Sensor, 4L4' Fluorescent Fixtures - Base 4L4'T8	Other	20%	20%	$ 0.14	0.60	0.48	0.05	9	1.60	0.18	0.10	$ 0.19	1,708	0.45	0.41	15.19	1.37
1	183	Lighting Control Tuneup - Base 4L4'T8	Other	4%	1%	$ 0.01	0.61	0.58	0.07	6	0.31	0.01	0.02	$ 0.13	4,049	0.52	0.66	7.21	1.06
1	184	LED Indoor Lighting - Base 4L4'T8	Other	29%	29%	$ 1.49	0.60	0.42	0.05	37	8.40	0.95	0.55	$ 0.71	6,259	0.10	0.07	116.22	1.37
1	185	High Performance Lighting Remod/Renov - 25% Savings - Base 4L4'T8	Other	25%	25%	$ 0.20	0.60	0.45	0.05	20	3.09	0.35	0.20	$ 0.13	1,180	0.65	0.47	18.14	1.37
1	190	Base 2L4'T8, 1EB	Other	0%	0%	$ -	0.60	0.60	0.07	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	191	ROB 2L4' Premium T8, 1EB - Base 2L4'T8	Other	17%	17%	$ 0.07	0.65	0.54	0.06	14	1.34	0.15	0.09	$ 0.08	715	1.07	0.87	9.06	1.37
1	192	Occupancy Sensor, 8L4' Fluorescent Fixtures - Base 2L4'T8	Other	20%	20%	$ 0.14	0.60	0.48	0.05	9	0.72	0.08	0.05	$ 0.19	1,704	0.45	0.41	15.16	1.37
1	193	Lighting Control Tuneup - Base 2L4'T8	Other	4%	1%	$ 0.01	0.61	0.58	0.07	6	0.14	0.00	0.01	$ 0.13	4,049	0.52	0.66	7.21	1.06
1	194	LED Indoor Lighting - Base 2L4'T8	Other	29%	29%	$ 1.52	0.60	0.42	0.05	37	3.82	0.43	0.25	$ 0.73	6,418	0.10	0.07	119.17	1.37
1	196	High Performance Lighting Remod/Renov - 25% Savings - Base 2L4'T8	Other	25%	25%	$ 0.20	0.60	0.45	0.05	20	1.40	0.16	0.09	$ 0.13	1,180	0.65	0.47	18.14	1.37
1	200	Base Exit Sign	Other	0%	0%	$ -	0.00	0.00	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	LED Exit Sign	Other	81%	81%	$ 0.01	0.00	0.00	0.00	13	0.96	0.11	0.06	$ 0.34	3,007	0.25	0.21	36.07	1.37
1	210	Base Outdoor Mercury Vapor 400W Lamp	Other	0%	0%	$ -	0.64	0.64	0.03	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	211	High Pressure Sodium 250W Lamp	Other	35%	35%	$ 0.11	0.76	0.49	0.03	14	49.07	2.53	11.96	$ 0.05	974	1.41	1.41	5.60	1.12
1	212	LED Outdoor Area Lighting	Other	52%	52%	$ 0.19	0.64	0.31	0.02	23	107.77	5.56	26.27	$ 0.05	1,052	1.24	1.10	7.77	1.12
1	213	LED Outdoor Bi-level Fixtures	Other	70%	70%	$ 0.85	0.64	0.20	0.01	23	72.26	3.73	17.61	$ 0.18	3,517	0.37	0.33	25.97	1.12
1	214	Outdoor Lighting Controls (Photocell/Timeclock)	Other	24%	0%	$ 0.02	0.71	0.54	0.04	14	29.63	0.00	11.41	$ 0.01	N/A	3.97	4.98	1.58	0.89
1	220	Base Street Lighting	Other	0%	0%	$ 0.69	1.03	1.03	0.05	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	221	Induction Streetlighting	Other	50%	50%	$ 1.44	1.03	0.51	0.03	23	187.67	9.68	45.75	$ 0.27	5,166	0.25	0.22	38.15	1.12
1	222	LED Streetlighting	Other	52%	52%	$ 0.90	1.03	0.50	0.03	21	193.79	10.00	47.24	$ 0.17	3,268	0.41	0.37	23.28	1.12
1	300	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Other	0%	0%	$ 0.44	1.19	1.19	0.61	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Other	12%	12%	$ 0.07	1.24	1.09	0.56	20	5.42	2.78	0.88	$ 0.05	91	3.41	1.35	6.34	2.53
1	302	Window Film (Standard)	Other	2%	2%	$ 0.08	1.20	1.17	0.60	10	0.94	0.48	0.15	$ 0.44	854	0.36	0.18	36.94	2.53
1	303	EMS - Chiller	Other	10%	10%	$ 0.12	1.19	1.07	0.55	15	6.34	3.26	1.03	$ 0.12	227	1.37	0.59	13.63	2.53
1	304	Cool Roof - Chiller	Other	4%	4%	$ 0.48	1.20	1.16	0.59	10	0.92	0.47	0.15	$ 1.75	3,410	0.09	0.04	147.48	2.53
1	305	Chiller Tune Up/Diagnostics	Other	7%	4%	$ 0.10	1.23	1.15	0.61	10	1.63	0.51	0.32	$ 0.20	635	0.61	0.39	16.53	1.89
1	306	VSD for Chiller Pumps and Towers	Other	10%	10%	$ 0.08	1.22	1.10	0.57	15	4.82	2.47	0.78	$ 0.08	155	2.01	0.87	9.30	2.53
1	307	EMS Optimization	Other	4%	1%	$ 0.03	1.21	1.17	0.62	5	0.90	0.16	0.20	$ 0.19	1,101	0.49	0.46	8.97	1.46
1	308	Economizer - Chiller	Other	0%	0%	$ 0.34	1.19	1.19	0.61	15	0.00	0.00	0.00	$44,339.19	N/A	0.00	0.00	5,183,014.75	1.46
1	309	Duct/Pipe Insulation - Chiller	Other	2%	2%	$ 0.77	1.21	1.19	0.61	10	0.10	0.05	0.02	$ 5.09	9,919	0.03	0.02	428.95	2.53
1	311	High Efficiency Chiller Motors	Other	3%	3%	$ 0.08	1.19	1.16	0.59	20	1.81	0.93	0.29	$ 0.20	388	0.80	0.32	26.94	2.53
1	350	Base DX Packaged System, EER=10.3, 10 tons	Other	0%	0%	$ 1.54	2.06	2.06	1.06	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	351	DX Tune Up/ Advanced Diagnostics	Other	4%	3%	$ 0.13	2.12	2.04	1.06	10	5.58	1.72	1.09	$ 0.23	737	0.52	0.34	19.18	1.89
1	352	DX Packaged System, EER=10.9, 10 tons	Other	6%	6%	$ 0.05	2.06	1.95	1.00	15	28.66	14.72	4.67	$ 0.05	106	2.94	1.27	6.35	2.53
1	353	DX Packaged System, EER=11.5, 10 tons	Other	10%	10%	$ 0.21	2.06	1.85	0.95	15	54.15	27.80	8.82	$ 0.12	224	1.39	0.60	13.45	2.53
1	354	DX Packaged System, EER=13.4, 10 tons	Other	23%	23%	$ 2.08	2.06	1.59	0.82	15	119.75	61.49	19.50	$ 0.51	987	0.32	0.14	59.23	2.53
1	357	Window Film (Standard)	Other	2%	2%	$ 0.08	2.07	2.02	1.04	10	8.79	4.51	1.43	$ 0.25	494	0.63	0.30	21.36	2.53
1	358	Prog. Thermostat - DX	Other	4%	1%	$ 0.04	2.09	2.01	1.06	8	13.34	2.30	2.91	$ 0.10	579	0.93	0.81	7.12	1.46
1	359	Cool Roof - DX	Other	13%	13%	$ 0.48	2.13	1.85	0.95	10	27.44	14.09	4.47	$ 0.28	550	0.56	0.27	23.80	2.53
1	360	Optimize Controls	Other	4%	1%	$ 0.04	2.12	2.04	1.07	5	4.99	0.86	1.09	$ 0.14	841	0.64	0.61	6.86	1.46
1	361	Economizer	Other	6%	2%	$ 0.34	2.12	2.00	1.07	15	15.35	2.64	3.35	$ 0.31	1,806	0.30	0.22	36.33	1.46
1	362	Aerosol Duct Sealing - DX	Other	7%	7%	$ 0.04	2.07	1.93	0.99	15	11.38	5.84	1.85	$ 0.03	56	5.59	2.42	3.34	2.53
1	363	Ceiling/roof Insulation - DX	Other	12%	12%	$ 0.24	2.20	1.94	0.99	20	32.78	16.83	5.34	$ 0.09	175	1.78	0.70	12.13	2.53
1	364	Duct/Pipe Insulation - DX	Other	2%	2%	$ 2.60	2.10	2.05	1.05	10	1.92	0.99	0.31	$ 9.95	19,385	0.02	0.01	838.31	2.53
1	365	DX Coil Cleaning	Other	5%	5%	$ 0.02	2.11	2.01	1.03	5	11.24	5.77	1.83	$ 0.05	96	3.25	1.79	2.32	2.53
1	400	Base Fan Motor, 5hp, 1800rpm, 87.5%	Other	0%	0%	$ 0.03	0.44	0.44	0.08	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Fan Motor, 5hp, 1800rpm, 89.5%	Other	2%	2%	$ 0.01	0.44	0.43	0.08	20	2.35	0.43	0.24	$ 0.10	545	0.98	0.64	13.41	1.54
1	402	Variable Speed Drive Control, 5 HP	Other	26%	8%	$ 0.19	0.55	0.40	0.09	15	11.71	0.60	1.36	$ 0.15	2,930	0.46	0.46	17.65	1.10
1	403	Demand Controlled Ventilation	Other	14%	8%	$ 0.12	0.48	0.42	0.08	15	6.25	0.62	0.70	$ 0.22	2,183	0.37	0.32	25.18	1.26
1	410	Base Fan Motor, 15hp, 1800rpm, 91.0%	Other	0%	0%	$ 0.04	0.41	0.41	0.07	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	411	Fan Motor, 15hp, 1800rpm, 92.4%	Other	2%	2%	$ 0.01	0.41	0.40	0.07	20	0.21	0.04	0.02	$ 0.16	880	0.61	0.40	21.64	1.54
1	412	Variable Speed Drive Control, 15 HP	Other	26%	8%	$ 0.21	0.51	0.37	0.09	20	1.58	0.08	0.18	$ 0.16	3,016	0.45	0.41	21.03	1.10
1	413	Air Handler Optimization, 15 HP	Other	9%	3%	$ 0.03	0.44	0.40	0.08	8	0.34	0.02	0.04	$ 0.15	2,857	0.47	0.55	10.51	1.10
1	414	Energy Recovery Ventilation	Other	7%	7%	$ 0.18	0.43	0.40	0.07	20	0.23	0.04	0.02	$ 0.60	3,324	0.16	0.10	81.79	1.54
1	415	Electronically Commutated Motors (ECM) on an air handler unit	Other	14%	14%	$ 0.04	0.41	0.35	0.06	15	2.13	0.39	0.22	$ 0.08	418	1.28	0.91	8.88	1.54

DSM ASSYST SUMMARY — Year 2011

Vintage: Existing
Batch: 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	417	Demand Controlled Ventilation	Other	14%	8%	$ 0.12	0.45	0.39	0.08	15	0.84	0.08	0.09	$ 0.23	2,355	0.34	0.30	27.16	1.26
1	420	Base Fan Motor, 40hp, 1800rpm, 93.0%	Other	0%	0%	$ 0.09	0.40	0.40	0.07	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	421	Fan Motor, 40hp, 1800rpm, 94.1%	Other	1%	1%	$ 0.02	0.40	0.40	0.07	20	0.70	0.13	0.07	$ 0.51	2,813	0.19	0.12	69.20	1.54
1	422	Variable Speed Drive Control, 40 HP	Other	26%	8%	$ 0.38	0.50	0.37	0.08	20	6.64	0.34	0.77	$ 0.29	5,559	0.24	0.22	38.76	1.10
1	423	Air Handler Optimization, 40 HP	Other	9%	3%	$ 0.03	0.43	0.39	0.08	8	1.44	0.07	0.17	$ 0.15	2,905	0.46	0.54	10.69	1.10
1	424	Demand Controlled Ventilation	Other	14%	8%	$ 0.12	0.44	0.38	0.07	15	3.55	0.35	0.40	$ 0.24	2,394	0.34	0.29	27.62	1.26
1	500	Base Non-Commercial Refrigerator	Other	0%	0%	$ 0.08	0.04	0.04	0.00	13	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	HE Refrigerator - CEE Tier 2 (side by side freezer)	Other	25%	25%	$ 0.01	0.04	0.03	0.00	13	2.40	0.27	0.27	$ 0.16	1,409	0.53	0.46	16.57	1.31
1	520	Base Refrigeration System	Other	0%	0%	$ -	0.25	0.25	0.03	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	521	High-efficiency fan motors	Other	12%	12%	$ 0.12	0.26	0.23	0.03	20	4.81	0.54	0.55	$ 0.38	3,382	0.22	0.17	50.96	1.31
1	522	Strip curtains for walk-ins	Other	4%	4%	$ 0.00	0.25	0.24	0.03	4	2.31	0.26	0.26	$ 0.17	1,570	0.47	0.52	6.79	1.31
1	524	Evaporator fan controller for MT walk-ins	Other	0%	0%	$ 0.00	0.25	0.25	0.03	10	0.08	0.00	0.01	$ 0.60	N/A	0.10	0.13	50.66	0.91
1	525	Efficient compressor motor	Other	7%	7%	$ 0.01	0.25	0.24	0.03	10	2.70	0.30	0.31	$ 0.08	733	1.02	0.94	6.88	1.31
1	526	Compressor VSD retrofit	Other	6%	3%	$ 0.04	0.25	0.23	0.03	13	3.35	0.20	0.41	$ 0.36	6,078	0.20	0.20	37.99	1.12
1	527	Floating head pressure controls	Other	6%	0%	$ 0.01	0.25	0.24	0.03	14	2.37	0.00	0.31	$ 0.10	N/A	0.58	0.71	11.13	0.91
1	528	Refrigeration Commissioning	Other	5%	5%	$ 0.02	0.25	0.24	0.03	3	0.29	0.03	0.03	$ 0.63	5,621	0.13	0.15	18.69	1.31
1	530	Demand Defrost Electric	Other	8%	8%	$ 0.00	0.25	0.23	0.03	10	4.46	0.50	0.51	$ 0.03	244	3.06	2.84	2.28	1.31
1	531	Anti-sweat (humidistat) controls	Other	5%	2%	$ 0.02	0.25	0.24	0.03	12	1.84	0.11	0.22	$ 0.19	3,156	0.38	0.40	18.50	1.12
1	533	Freezer-Cooler Replacement Gaskets	Other	7%	7%	$ 0.00	0.26	0.24	0.03	4	1.96	0.22	0.22	$ 0.07	642	1.16	1.26	2.77	1.31
1	534	High R-Value Glass Doors	Other	2%	2%	$ 0.01	0.25	0.24	0.03	10	0.63	0.07	0.07	$ 0.52	4,631	0.16	0.15	43.44	1.31
1	536	Oversized Air-Cooled Condenser	Other	8%	8%	$ 0.05	0.26	0.24	0.03	16	2.42	0.27	0.28	$ 0.29	2,602	0.29	0.23	35.25	1.31
1	537	LED Display Lighting	Other	1%	1%	$ 0.01	0.25	0.25	0.03	10	0.16	0.02	0.02	$ 1.01	9,075	0.08	0.08	85.12	1.31
1	538	Fiber Optic Display Lighting	Other	25%	25%	$ 0.01	0.25	0.19	0.02	10	7.03	0.78	0.80	$ 0.04	352	2.11	1.96	3.31	1.31
1	539	Beverage Merchandisers	Other	2%	2%	$ 0.00	0.25	0.24	0.03	10	0.81	0.09	0.09	$ 0.15	1,306	0.57	0.53	12.25	1.31
1	540	Reach-In Refrigerators	Other	2%	2%	$ 0.00	0.25	0.24	0.03	10	0.62	0.07	0.07	$ 0.18	1,621	0.46	0.43	15.20	1.31
1	610	Base Desktop PC	Other	0%	0%	$ -	0.53	0.53	0.05	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	611	Energy Star or Better PC	Other	32%	25%	$ 0.00	0.57	0.39	0.04	4	42.75	3.40	2.58	$ 0.00	17	60.17	68.41	0.05	1.26
1	612	PC Manual Power Management Enabling	Other	65%	45%	$ 0.01	0.64	0.23	0.04	4	67.00	4.76	4.10	$ 0.00	61	17.82	20.84	0.17	1.22
1	613	PC Network Power Management Enabling	Other	65%	45%	$ 0.01	0.64	0.23	0.04	4	67.00	4.76	4.10	$ 0.00	61	17.82	20.84	0.17	1.22
1	620	Base Monitor, CRT	Other	0%	0%	$ -	0.47	0.47	0.05	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	621	Energy Star or Better Monitor - CRT	Other	56%	56%	$ 0.00	0.47	0.21	0.02	4	61.18	6.26	3.55	$ 0.00	2	510.04	540.45	0.01	1.35
1	622	Monitor Power Management Enabling - CRT	Other	51%	35%	$ 0.00	0.78	0.39	0.05	4	19.35	1.37	1.18	$ 0.00	12	92.81	108.51	0.03	1.22
1	630	Base Monitor, LCD	Other	0%	0%	$ -	0.12	0.12	0.01	4	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	631	Energy Star or Better Monitor - LCD	Other	2%	2%	$ 0.00	0.12	0.11	0.01	4	0.20	0.02	0.01	$ 0.07	725	1.15	1.22	2.88	1.35
1	632	Monitor Power Management Enabling - LCD	Other	26%	18%	$ 0.00	0.15	0.11	0.01	4	0.42	0.03	0.03	$ 0.04	534	2.04	2.38	1.47	1.22
1	640	Base Copier	Other	0%	0%	$ -	0.28	0.28	0.03	6	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	641	Energy Star or Better Copier	Other	21%	21%	$ 0.00	0.29	0.23	0.02	6	8.66	0.89	0.50	$ 0.00	2	426.70	427.39	0.01	1.35
1	642	Copier Power Management Enabling	Other	18%	13%	$ 0.00	0.29	0.24	0.03	6	5.20	0.37	0.32	$ 0.01	139	7.84	8.67	0.55	1.22
1	650	Base Laser Printer	Other	0%	0%	$ -	0.44	0.44	0.04	5	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	651	Printer Power Management Enabling	Other	47%	32%	$ 0.01	0.79	0.42	0.05	5	3.33	0.24	0.20	$ 0.01	97	11.26	12.80	0.32	1.22
1	660	Base Data Center/Server Room	Other	0%	0%	$ -	123.79	123.79	12.66	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	661	Data Center Improved Operations	Other	20%	20%	$ 0.10	128.95	103.16	10.55	10	4.78	0.49	0.28	$ 0.00	6	136.84	123.80	0.05	1.35
1	662	Data Center Best Practices	Other	45%	45%	$ 0.50	129.63	71.29	7.29	10	6.08	0.62	0.35	$ 0.00	13	61.90	56.00	0.12	1.35
1	663	Data Center State of the Art practices	Other	56%	56%	$ 1.00	123.79	54.47	5.57	10	2.68	0.27	0.16	$ 0.00	23	36.78	33.28	0.20	1.35
1	700	Base Water Heating	Other	0%	0%	$ -	0.51	0.51	0.05	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Demand controlled circulating systems	Other	5%	5%	$ 0.02	0.51	0.48	0.05	15	2.42	0.24	0.19	$ 0.11	1,059	0.79	0.66	12.28	1.31
1	702	High Efficiency Water Heater (electric)	Other	2%	2%	$ 0.00	0.51	0.50	0.05	15	1.29	0.13	0.10	$ 0.02	237	3.54	2.94	2.74	1.31
1	703	Heat Pump Water Heater (air source)	Other	20%	20%	$ 0.05	0.51	0.41	0.04	15	10.31	1.02	0.80	$ 0.05	546	1.53	1.28	6.33	1.31
1	704	Hot Water Pipe Insulation	Other	2%	2%	$ 0.01	0.51	0.50	0.05	15	0.03	0.00	0.00	$ 0.07	722	1.16	0.96	8.38	1.31
1	706	Heat Recovery Unit	Other	65%	65%	$ 0.08	0.51	0.18	0.02	10	2.09	0.21	0.16	$ 0.04	392	2.14	1.98	3.28	1.31
1	707	Heat Trap	Other	9%	9%	$ 0.00	0.52	0.47	0.05	10	3.34	0.33	0.26	$ 0.01	129	6.51	6.04	1.08	1.31
1	708	Tankless Water Heater	Other	10%	10%	$ 0.02	0.51	0.46	0.05	20	4.83	0.48	0.38	$ 0.03	352	2.38	1.81	4.72	1.31
1	800	Base Vending Machines	Other	0%	0%	$ -	0.12	0.12	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	Vending Misers (cooled machines only)	Other	38%	26%	$ 0.02	0.12	0.08	0.01	10	4.41	0.34	0.33	$ 0.07	957	1.05	1.04	6.23	1.23
1	900	Base Oven	Other	0%	0%	$ -	0.06	0.06	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Convection Oven	Other	15%	15%	$ 0.00	0.06	0.05	0.01	10	0.73	0.08	0.05	$ 0.05	489	1.59	1.43	4.53	1.35
1	905	Base Fryer	Other	0%	0%	$ -	0.51	0.51	0.06	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	906	Efficient Fryer	Other	6%	6%	$ 0.01	0.51	0.47	0.05	10	2.70	0.30	0.20	$ 0.04	355	2.19	1.98	3.29	1.35
1	910	Base Steamer	Other	0%	0%	$ -	0.31	0.31	0.03	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	911	Efficient Steamer	Other	89%	89%	$ 0.01	0.31	0.03	0.00	10	23.06	2.54	1.68	$ 0.01	51	15.13	13.65	0.48	1.35
1	915	Base Hot Food Holding Cabinets	Other	0%	0%	$ -	0.09	0.09	0.01	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
2	100	Base Bldg Design - 30%	Office	0%	0%	$ -	21.76	21.76	3.37	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Office	30%	30%	$2.43	21.76	15 23	2.36	20	20.92	3 24	1.87	$ 0 04	$ 240.71	2.54	1.70	5 04	1.50
2	200	Base Bldg Design - 50%	Office	0%	0%	$ -	21.76	21.76	3.37	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Office	50%	50%	$4 86	21.76	10 88	1.68	20	23.24	3 60	2.08	$ 0 04	$ 288 86	2.11	1.41	6 05	1.50
2	300	Base Bldg Design - 70%	Office	0%	0%	$ -	21.76	21.76	3.37	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Restaurant	0%	0%	$ -	46.71	46.71	6.58	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Restaurant	30%	30%	$2.79	46.71	32.70	4.61	20	3.31	0.47	0.39	$ 0 02	$ 141 52	4.59	3.17	2.70	1.45
2	200	Base Bldg Design - 50%	Restaurant	0%	0%	$ -	46.71	46.71	6.58	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Restaurant	50%	50%	$5 59	46.71	23 35	3.29	20	3.68	0 52	0.43	$ 0 02	$ 169 83	3.82	2.64	3 24	1.45
2	300	Base Bldg Design - 70%	Restaurant	0%	0%	$ -	46.71	46.71	6.58	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Retail	0%	0%	$ -	14 23	14 23	2.23	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Retail	30%	30%	$1 61	14 23	9.96	1.56	20	7.48	1.17	0.69	$ 0 04	$ 241 36	2.51	1.67	5.11	1.50
2	200	Base Bldg Design - 50%	Retail	0%	0%	$ -	14 23	14 23	2.23	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Retail	50%	50%	$3 22	14 23	7.11	1.11	20	8.31	1 30	0.77	$ 0 05	$ 289 63	2.09	1.40	6.13	1.50
2	300	Base Bldg Design - 70%	Retail	0%	0%	$ -	14 23	14 23	2.23	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Grocery	0%	0%	$ -	71 99	71 99	8.13	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Grocery	30%	30%	$1.46	71 99	50 39	5.69	20	5.58	0 63	0.66	$ 0 01	$ 60 08	12.50	9.32	0 92	1.34
2	200	Base Bldg Design - 50%	Grocery	0%	0%	$ -	71 99	71 99	8.13	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Grocery	50%	50%	$2 93	71 99	35 99	4.06	20	5.42	0 61	0.64	$ 0 01	$ 72 09	10.42	7.76	1.10	1.34
2	300	Base Bldg Design - 70%	Grocery	0%	0%	$ -	71 99	71 99	8.13	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	301	Near Zero Energy (60-75%)	Grocery	70%	70%	$8.79	71 99	21 60	2.44	20	1.08	0.12	0.13	$ 0 02	$ 154.48	4.86	3.62	2 36	1.34
2	100	Base Bldg Design - 30%	Warehouse	0%	0%	$ -	8.50	8.50	1.11	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Warehouse	30%	30%	$1 28	8.50	5.95	0.78	20	7.13	0 93	0.78	$ 0 05	$ 385.43	1.78	1.25	6 82	1.42
2	200	Base Bldg Design - 50%	Warehouse	0%	0%	$ -	8.50	8.50	1.11	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	300	Base Bldg Design - 70%	Warehouse	0%	0%	$ -	8.50	8.50	1.11	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	School	0%	0%	$ -	10 04	10 04	1.02	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	School	30%	30%	$2 29	10 04	7.03	0.71	20	5.27	0 54	0.35	$ 0 08	$ 746 54	1.14	0.83	10.27	1.37
2	200	Base Bldg Design - 50%	School	0%	0%	$ -	10 04	10 04	1.02	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	300	Base Bldg Design - 70%	School	0%	0%	$ -	10 04	10 04	1.02	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	College	0%	0%	$ -	10 04	10 04	1.43	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	College	30%	30%	$2.44	10 04	7.03	1.00	20	3.15	0.45	0.35	$ 0 08	$ 567.10	1.14	0.78	10.94	1.46
2	200	Base Bldg Design - 50%	College	0%	0%	$ -	10 04	10 04	1.43	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	300	Base Bldg Design - 70%	College	0%	0%	$ -	10 04	10 04	1.43	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Health	0%	0%	$ -	25 02	25 02	3.14	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Health	30%	30%	$4 22	25 02	17 52	2.19	20	6.31	0.79	0.71	$ 0 06	$ 449.10	1.55	1.12	7 61	1.38
2	200	Base Bldg Design - 50%	Health	0%	0%	$ -	25 02	25 02	3.14	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Health	50%	50%	$8.45	25 02	12 51	1.57	20	7.01	0 88	0.78	$ 0 07	$ 538 93	1.29	0.94	9.14	1.38
2	300	Base Bldg Design - 70%	Health	0%	0%	$ -	25 02	25 02	3.14	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Lodging	0%	0%	$ -	12 62	12 62	1.63	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Lodging	30%	30%	$2 33	12 62	8.83	1.14	20	1.80	0 23	0.24	$ 0 06	$ 478.18	1.42	1.03	8 34	1.38
2	200	Base Bldg Design - 50%	Lodging	0%	0%	$ -	12 62	12 62	1.63	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Lodging	50%	50%	$4 66	12 62	6.31	0.81	20	2.01	0 26	0.27	$ 0 07	$ 573 81	1.18	0.85	10.00	1.38
2	300	Base Bldg Design - 70%	Lodging	0%	0%	$ -	12 62	12 62	1.63	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Other	0%	0%	$ -	10 57	10 57	1.41	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Other	30%	30%	$2 32	10 57	7.40	0.99	20	7.98	1 07	0.83	$ 0 07	$ 547 23	1.23	0.86	9 90	1.42
2	200	Base Bldg Design - 50%	Other	0%	0%	$ -	10 57	10 57	1.41	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Other	50%	50%	$4 64	10 57	5.28	0.71	20	8.87	1.19	0.92	$ 0 09	$ 656 67	1.03	0.72	11.88	1.42
2	300	Base Bldg Design - 70%	Other	0%	0%	$ -	10 57	10 57	1.41	20	0.00	0 00	0.00	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	100	Base Compressed Air	Food	0%	0%	$ -	1.04	1.04	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Food	17%	17%	$0.01	1.18	0.98	0.12	10	6.43	0.78	0.75	$ 0.01	69	10.19	7.10	0.92	1.75
1	102	Compressed Air - Controls	Food	12%	12%	$0.02	1.14	1.01	0.12	10	3.60	0.43	0.42	$ 0.02	169	4.15	2 89	2.25	1.75
1	103	Compressed Air - System Optimization	Food	20%	20%	$0.02	1.16	0.93	0.11	10	12.12	1.46	1.41	$ 0.01	93	7.50	5 22	1.24	1.75
1	104	Compressed Air- Sizing	Food	9%	9%	$0.00	1.12	1.02	0.12	10	1.04	0.13	0.12	$ 0.01	61	11 56	8 05	0.81	1.75
1	105	Comp Air - Replace 1-5 HP motor	Food	3%	3%	$0.05	1.05	1.02	0.12	14	0.13	0.02	0.01	$ 0.22	1,846	0.38	0 24	32.61	1.75
1	106	Comp Air - ASD (1-5 hp)	Food	6%	1%	$0.08	1.04	0.98	0.12	14	0.30	0.00	0.04	$ 0.16	12,932	0.38	0 34	23.10	1.26
1	107	Comp Air - Motor practices-1 (1-5 HP)	Food	5%	5%	$0.02	1.04	0.99	0.12	14	0.25	0.03	0.03	$ 0.05	430	1.63	1 04	7.60	1.75
1	108	Comp Air - Replace 6-100 HP motor	Food	3%	4%	$0.03	1.05	1.02	0.12	10	0.88	0.11	0.10	$ 0.13	1,086	0.64	0.45	14.48	1.75
1	109	Comp Air - ASD (6-100 hp)	Food	6%	1%	$0.00	1.04	0.98	0.12	10	6.01	0.07	0.78	$ 0.01	573	8.64	8.40	0.77	1.26
1	110	Comp Air - Motor practices-1 (6-100 HP)	Food	2%	2%	$0.01	1.06	1.04	0.13	10	0.13	0.02	0.02	$ 0.03	282	2.48	1.73	3.76	1.75
1	111	Comp Air - Replace 100+ HP motor	Food	3%	3%	$0.01	1.07	1.03	0.12	6	0.54	0.06	0.06	$ 0.07	548	1.28	0 98	4.84	1.75
1	112	Comp Air - ASD (100+ hp)	Food	6%	1%	$0.01	1.06	1.00	0.13	6	3.78	0.05	0.49	$ 0.02	1,895	2.62	2 81	1.69	1.26
1	113	Comp Air - Motor practices-1 (100+ HP)	Food	1%	2%	$0.00	1.05	1.03	0.12	6	0.63	0.08	0.07	$ 0.03	282	2.48	1 92	2.49	1.75
1	200	Base Fans	Food	0%	0%	$ -	1.04	1.04	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Food	2%	2%	$0.00	1.04	1.02	0.12	10	2.02	0.24	0.23	$ 0.01	64	10 97	7 64	0.85	1.75
1	202	Fans - Controls	Food	30%	30%	$0.09	1.14	0.80	0.10	10	23.29	2.81	2.70	$ 0.04	366	1.91	1 33	4.88	1.75
1	203	Fans - System Optimization	Food	20%	10%	$0.06	1.07	0.86	0.12	10	17.38	1.06	2.15	$ 0.05	757	1.55	1 28	5.08	1.48
1	204	Fans- Improve components	Food	5%	5%	$0.01	1.06	1.01	0.12	10	4.13	0.50	0.48	$ 0.02	128	5.45	3.79	1.71	1.75
1	205	Fans - Replace 1-5 HP motor	Food	3%	3%	$0.05	1.04	1.01	0.12	14	0.16	0.02	0.02	$ 0.22	1,852	0.38	0 24	32.71	1.75
1	206	Fans - ASD (1-5 hp)	Food	6%	1%	$0.08	1.04	0.98	0.12	14	0.33	0.00	0.04	$ 0.16	12,930	0.38	0 34	23.10	1.26
1	207	Fans - Motor practices-1 (1-5 HP)	Food	5%	5%	$0.02	1.04	0.99	0.12	14	0.27	0.03	0.03	$ 0.05	430	1.63	1 04	7.60	1.75
1	208	Fans - Replace 6-100 HP motor	Food	3%	4%	$0.03	1.04	1.01	0.12	10	1.16	0.16	0.16	$ 0.15	1,096	0.57	0 39	16.83	1.80
1	209	Fans - ASD (6-100 hp)	Food	3%	1%	$0.00	1.04	1.01	0.13	10	1.34	0.03	0.15	$ 0.01	572	4.93	4 98	1.30	1.21
1	210	Fans - Motor practices-1 (6-100 HP)	Food	2%	2%	$0.01	1.04	1.02	0.12	10	0.91	0.11	0.11	$ 0.03	287	2.44	1.70	3.83	1.75
1	211	Fans - Replace 100+ HP motor	Food	3%	3%	$0.01	1.04	1.01	0.12	6	2.06	0.25	0.24	$ 0.07	559	1.25	0 96	4.94	1.75
1	212	Fans - ASD (100+ hp)	Food	5%	1%	$0.01	1.04	0.99	0.13	6	3.26	0.05	0.50	$ 0.03	1,924	2.15	2 36	2.02	1.23
1	213	Fans - Motor practices-1 (100+ HP)	Food	1%	2%	$0.00	1.04	1.03	0.12	6	0.67	0.13	0.06	$ 0.05	283	1.79	1 21	3.94	2.00
1	300	Base Pumps	Food	0%	0%	$ -	1 04	1.04	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Food	10%	10%	$0.01	1.13	1.02	0.12	10	4.03	0.49	0.47	$ 0.01	60	11 69	8.14	0.80	1.75
1	302	Pumps - Controls	Food	30%	30%	$0.03	1.41	0.98	0.12	10	11.53	1.39	1.34	$ 0.01	86	8.09	5 63	1.15	1.75
1	303	Pumps - System Optimization	Food	33%	33%	$0.07	1.45	0.97	0.12	10	14.25	1.72	1.65	$ 0.02	187	3.74	2 61	2.49	1.75
1	304	Pumps - Sizing	Food	20%	20%	$0.02	1.24	0.99	0.12	10	10.01	1.21	1.16	$ 0.01	109	6.42	4.47	1.45	1.75
1	305	Pumps - Replace 1-5 HP motor	Food	3%	3%	$0.05	1.04	1.01	0.12	14	0.25	0.03	0.03	$ 0.22	1,847	0.38	0 24	32.63	1.75
1	306	Pumps - ASD (1-5 hp)	Food	6%	1%	$0.08	1.04	0.98	0.12	14	0.58	0.01	0.08	$ 0.16	12,932	0.38	0 34	23.10	1.26
1	307	Pumps - Motor practices-1 (1-5 HP)	Food	5%	5%	$0.02	1.07	1.02	0.12	14	0.20	0.02	0.02	$ 0.05	418	1.67	1 07	7.39	1.75
1	308	Pumps - Replace 6-100 HP motor	Food	3%	4%	$0.03	1.04	1.01	0.12	10	2.54	0.31	0.30	$ 0.13	1,098	0.64	0.44	14.65	1.75
1	309	Pumps - ASD (6-100 hp)	Food	6%	1%	$0.00	1.04	0.98	0.13	10	4.22	0.05	0.55	$ 0.01	572	8.66	8.41	0.77	1.26
1	310	Pumps - Motor practices-1 (6-100 HP)	Food	2%	2%	$0.01	1.05	1.03	0.12	10	1.14	0.14	0.13	$ 0.03	285	2.45	1.71	3.80	1.75
1	311	Pumps - Replace 100+ HP motor	Food	3%	3%	$0.01	1.06	1.03	0.12	6	1.50	0.18	0.17	$ 0.07	550	1.27	0 98	4.86	1.75
1	312	Pumps - ASD (100+ hp)	Food	6%	1%	$0.01	1.04	0.98	0.12	6	7.15	0.09	0.93	$ 0.02	1,930	2.57	2.76	1.72	1.26
1	313	Pumps - Motor practices-1 (100+ HP)	Food	1%	2%	$0.00	1.04	1.03	0.12	6	1.87	0.23	0.22	$ 0.03	283	2.47	1 90	2.50	1.75
1	400	Base Drives	Food	0%	0%	$ -	1.04	1.04	0.13	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	401	Bakery - Process (Mixing) - O&M	Food	10%	10%	$0.01	1.07	0.97	0.12	10	14.57	1.76	1.69	$ 0.01	63	11 06	7.70	0.84	1.75
1	500	Base Heating	Food	0%	0%	$ -	1.04	1.04	0.13	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	501	Bakery - Process	Food	37%	37%	$0.05	1.28	0.81	0.10	15	26.64	3.21	3.09	$ 0.01	103	6.79	4 23	1.91	1.75
1	550	Base Refrigeration	Food	0%	0%	$ -	1.04	1.04	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	551	Efficient Refrigeration - Operations	Food	12%	12%	$0.01	1.06	0.94	0.14	10	37.93	5.49	4.40	$ 0.01	64	9.56	6 39	1.02	1.83
1	552	Optimization Refrigeration	Food	26%	26%	$0.11	1.05	0.78	0.11	15	93.14	13.49	10 81	$ 0.05	323	1.88	1.12	7.18	1.83
1	600	Base Other Process	Food	0%	0%	$ -	1.04	1.04	0.13	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Food	0%	0%	$ -	1.04	1.04	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Food	12%	12%	$0.03	0.93	0.82	0.12	20	1.67	0.24	0.19	$ 0.03	196	3.10	1.70	5.03	1.83
1	702	Window Film - Chiller	Food	10%	10%	$0.06	1.10	0.98	0.14	10	0.64	0.09	0.07	$ 0.08	572	1.06	0.71	9.15	1.83
1	703	EMS - Chiller	Food	10%	10%	$0.09	1.08	0.97	0.14	10	1.02	0.15	0.12	$ 0.13	926	0.66	0.44	14.82	1.83
1	704	Cool Roof - Chiller	Food	10%	10%	$0.16	1.08	0.98	0.14	10	0.46	0.07	0.05	$ 0.24	1,673	0.36	0 24	26.77	1.83
1	705	Chiller Tune Up/Diagnostics	Food	8%	8%	$0.05	1.08	1.00	0.14	10	0.16	0.02	0.02	$ 0.10	681	0.89	0 60	10.90	1.83
1	706	Cooling Circ. Pumps - VSD	Food	6%	6%	$0.10	1.06	0.99	0.14	15	0.53	0.08	0.06	$ 0.18	1,233	0.49	0 29	27.39	1.83
1	710	Base DX Packaged System, EER=10.3, 10 tons	Food	0%	0%	$ -	1.04	1.04	0.15	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Food	10%	10%	$0.07	1.10	0.99	0.14	3	4.17	0.60	0.48	$ 0.28	1,954	0.31	0 25	11.09	1.83
1	712	DX Packaged System, EER=10.9, 10 tons	Food	6%	6%	$0.05	0.90	0.85	0.12	15	5.03	0.73	0.58	$ 0.11	731	0.83	0 50	16.23	1.83
1	713	Window Film - DX	Food	10%	10%	$0.03	1.12	1.01	0.15	10	2.70	0.39	0.31	$ 0.05	326	1.86	1 24	5.22	1.83
1	714	Evaporative Pre-Cooler	Food	10%	10%	$0.12	1.05	0.94	0.14	10	2.52	0.37	0.29	$ 0.18	1,240	0.49	0 33	19.85	1.83

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	715	Prog. Thermostat - DX	Food	9%	3%	$0.00	1.10	1.00	0.15	10	3.45	0.14	0.44	$ 0.01	195	8.52	7 58	0.86	1.37
1	716	Cool Roof - DX	Food	10%	10%	$0.09	1.08	0.98	0.14	10	3.24	0.47	0.38	$ 0.14	978	0.62	0.41	15.66	1.83
1	800	Base Lighting	Food	0%	0%	$ -	1.04	1.04	0.13	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Food	31%	31%	$0.10	1.05	0.72	0.09	15	12.76	1.54	1.48	$ 0.04	295	2.37	1.48	5.47	1.75
1	802	CFL Hardwired, Modular 36W	Food	72%	72%	$0.10	1.04	0.29	0.04	4	0.25	0.03	0.03	$ 0.05	391	1.79	1.46	2.40	1.75
1	803	Metal Halide, 50W	Food	58%	58%	$0.67	1.23	0.52	0.06	5	21.29	2.57	2.47	$ 0.27	2,217	0.32	0 25	16.62	1.75
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Food	17%	20%	$0.05	1.05	0.87	0.10	9	2.00	0.28	0.27	$ 0.05	342	1.83	1 27	4.88	1.80
1	900	Base Other	Food	0%	0%	$ -	1.04	1.04	0.13	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Food	0%	0%	$0.00	1.04	1.04	0.13	5	0.01	0.00	0.00	$ 0.05	379	1.85	1.46	2.84	1.75
1	100	Base Compressed Air	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Textiles-Apparel	17%	17%	$0.01	1.20	1.00	0.41	10	0.03	0.01	0.00	$ 0.01	20	18 03	7 22	0.90	3.05
1	102	Compressed Air - Controls	Textiles-Apparel	12%	12%	$0.02	1.14	1.01	0.42	10	0.02	0.01	0.00	$ 0.02	49	7.21	2 89	2.25	3.05
1	103	Compressed Air - System Optimization	Textiles-Apparel	20%	20%	$0.02	1.16	0.93	0.38	10	0.08	0.03	0.01	$ 0.01	27	13 05	5 22	1.24	3.05
1	104	Compressed Air- Sizing	Textiles-Apparel	9%	9%	$0.00	1.04	0.95	0.39	10	0.03	0.01	0.00	$ 0.01	19	18 62	7.46	0.87	3.05
1	105	Comp Air - Replace 1-5 HP motor	Textiles-Apparel	3%	3%	$0.05	1.05	1.02	0.42	14	0.00	0.00	0.00	$ 0.22	540	0.66	0 24	32.61	3.05
1	106	Comp Air - ASD (1-5 hp)	Textiles-Apparel	4%	1%	$0.08	1.04	1.00	0.43	14	0.00	0.00	0.00	$ 0.22	3,782	0.31	0 25	31.91	1.42
1	107	Comp Air - Motor practices-1 (1-5 HP)	Textiles-Apparel	5%	5%	$0.02	1.04	0.99	0.41	14	0.00	0.00	0.00	$ 0.05	126	2.83	1 04	7.60	3.05
1	108	Comp Air - Replace 6-100 HP motor	Textiles-Apparel	3%	4%	$0.03	1.07	1.03	0.43	10	0.00	0.00	0.00	$ 0.13	313	1.14	0.46	14.26	3.05
1	109	Comp Air - ASD (6-100 hp)	Textiles-Apparel	4%	1%	$0.00	1.04	1.00	0.43	10	0.01	0.00	0.00	$ 0.01	168	7.08	6 08	1.07	1.42
1	110	Comp Air - Motor practices-1 (6-100 HP)	Textiles-Apparel	2%	2%	$0.01	1.04	1.02	0.42	10	0.01	0.00	0.00	$ 0.03	84	4.23	1 69	3.84	3.05
1	111	Comp Air - Replace 100+ HP motor	Textiles-Apparel	3%	3%	$0.01	1.06	1.03	0.42	6	0.01	0.00	0.00	$ 0.07	161	2.21	0 98	4.86	3.05
1	112	Comp Air - ASD (100+ hp)	Textiles-Apparel	4%	1%	$0.01	1.04	1.00	0.43	6	0.03	0.00	0.01	$ 0.03	564	2.10	2 00	2.38	1.42
1	113	Comp Air - Motor practices-1 (100+ HP)	Textiles-Apparel	1%	2%	$0.00	1.05	1.03	0.43	6	0.00	0.00	0.00	$ 0.03	82	4.33	1 92	2.48	3.05
1	200	Base Fans	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Textiles-Apparel	2%	2%	$0.00	1.06	1.04	0.43	10	0.00	0.00	0.00	$ 0.01	18	19 36	7.75	0.84	3.05
1	202	Fans - Controls	Textiles-Apparel	30%	30%	$0.09	1.36	0.95	0.39	10	0.10	0.04	0.02	$ 0.04	89	3.99	1 60	4.07	3.05
1	203	Fans - System Optimization	Textiles-Apparel	17%	10%	$0.06	1.20	1.00	0.45	10	0.05	0.01	0.01	$ 0.05	198	2.26	1 21	5.35	2.28
1	204	Fans- Improve components	Textiles-Apparel	5%	5%	$0.01	1.08	1.02	0.42	10	0.02	0.01	0.00	$ 0.02	37	9.63	3 86	1.68	3.05
1	205	Fans - Replace 1-5 HP motor	Textiles-Apparel	3%	3%	$0.05	1.05	1.02	0.42	14	0.00	0.00	0.00	$ 0.22	540	0.66	0 24	32.61	3.05
1	206	Fans - ASD (1-5 hp)	Textiles-Apparel	4%	1%	$0.08	1.05	1.01	0.43	14	0.00	0.00	0.00	$ 0.22	3,753	0.32	0 25	31.67	1.42
1	207	Fans - Motor practices-1 (1-5 HP)	Textiles-Apparel	5%	5%	$0.02	1.04	0.99	0.41	14	0.00	0.00	0.00	$ 0.05	126	2.83	1 04	7.60	3.05
1	208	Fans - Replace 6-100 HP motor	Textiles-Apparel	3%	4%	$0.03	1.06	1.02	0.42	10	0.01	0.00	0.00	$ 0.14	316	1.10	0.43	15.20	3.14
1	209	Fans - ASD (6-100 hp)	Textiles-Apparel	2%	1%	$0.00	1.04	1.02	0.43	10	0.01	0.00	0.00	$ 0.02	167	4.12	3 08	2.11	1.63
1	210	Fans - Motor practices-1 (6-100 HP)	Textiles-Apparel	2%	2%	$0.01	1.06	1.03	0.43	10	0.00	0.00	0.00	$ 0.03	83	4.29	1.72	3.78	3.05
1	211	Fans - Replace 100+ HP motor	Textiles-Apparel	3%	3%	$0.01	1.04	1.01	0.42	6	0.02	0.01	0.00	$ 0.07	163	2.18	0 97	4.94	3.05
1	212	Fans - ASD (100+ hp)	Textiles-Apparel	4%	1%	$0.01	1.08	1.04	0.44	6	0.00	0.00	0.00	$ 0.03	545	2.00	1 90	2.50	1.42
1	213	Fans - Motor practices-1 (100+ HP)	Textiles-Apparel	1%	2%	$0.00	1.04	1.03	0.42	6	0.01	0.00	0.00	$ 0.05	83	3.75	1 29	3.68	3.92
1	300	Base Pumps	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Textiles-Apparel	10%	10%	$0.01	1.09	0.98	0.40	10	0.10	0.04	0.02	$ 0.01	18	19 52	7 82	0.83	3.05
1	302	Pumps - Controls	Textiles-Apparel	30%	30%	$0.03	1.35	0.94	0.39	10	0.13	0.06	0.02	$ 0.01	26	13.48	5.40	1.20	3.05
1	303	Pumps - System Optimization	Textiles-Apparel	33%	33%	$0.07	1.12	0.75	0.31	10	0.39	0.16	0.06	$ 0.03	71	5.03	2 01	3.23	3.05
1	304	Pumps - Sizing	Textiles-Apparel	20%	20%	$0.02	1.24	0.99	0.41	10	0.09	0.04	0.01	$ 0.01	32	11.15	4.47	1.45	3.05
1	305	Pumps - Replace 1-5 HP motor	Textiles-Apparel	3%	3%	$0.05	1.04	1.01	0.42	14	0.00	0.00	0.00	$ 0.22	541	0.66	0 24	32.66	3.05
1	306	Pumps - ASD (1-5 hp)	Textiles-Apparel	4%	1%	$0.08	1.05	1.01	0.43	14	0.00	0.00	0.00	$ 0.22	3,751	0.32	0 25	31.65	1.42
1	307	Pumps - Motor practices-1 (1-5 HP)	Textiles-Apparel	5%	5%	$0.02	1.06	1.01	0.42	14	0.00	0.00	0.00	$ 0.05	123	2.89	1 06	7.43	3.05
1	308	Pumps - Replace 6-100 HP motor	Textiles-Apparel	3%	4%	$0.03	1.05	1.01	0.42	10	0.02	0.01	0.00	$ 0.13	320	1.11	0.44	14.61	3.05
1	309	Pumps - ASD (6-100 hp)	Textiles-Apparel	4%	1%	$0.00	1.06	1.02	0.44	10	0.01	0.00	0.00	$ 0.01	164	7.24	6 22	1.04	1.42
1	310	Pumps - Motor practices-1 (6-100 HP)	Textiles-Apparel	2%	2%	$0.01	1.05	1.02	0.42	10	0.01	0.01	0.00	$ 0.03	84	4.25	1.70	3.82	3.05
1	311	Pumps - Replace 100+ HP motor	Textiles-Apparel	3%	3%	$0.01	1.06	1.03	0.42	6	0.01	0.01	0.00	$ 0.07	161	2.21	0 98	4.86	3.05
1	312	Pumps - ASD (100+ hp)	Textiles-Apparel	4%	1%	$0.01	1.04	1.00	0.43	6	0.04	0.00	0.01	$ 0.03	564	2.10	2 00	2.38	1.42
1	313	Pumps - Motor practices-1 (100+ HP)	Textiles-Apparel	1%	2%	$0.00	1.04	1.03	0.42	6	0.02	0.01	0.00	$ 0.03	83	4.30	1 90	2.50	3.05
1	400	Base Drives	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	402	O&M/drives spinning machines	Textiles-Apparel	16%	16%	$0.03	1.15	0.97	0.40	10	0.26	0.11	0.04	$ 0.03	69	5.18	2 07	3.13	3.05
1	500	Base Heating	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	502	Drying (UV/IR)	Textiles-Apparel	22%	15%	$0.08	1.26	0.99	0.44	8	0.11	0.03	0.02	$ 0.05	185	2.26	1.18	4.91	2.45
1	550	Base Refrigeration	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.52	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.52	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Textiles-Apparel	12%	12%	$0.03	0.93	0.82	0.40	20	0.16	0.08	0.03	$ 0.03	57	5.60	1.70	5.03	3.30
1	702	Window Film - Chiller	Textiles-Apparel	10%	10%	$0.06	1.10	0.98	0.49	10	0.06	0.03	0.01	$ 0.08	167	1.92	0.71	9.15	3.30
1	703	EMS - Chiller	Textiles-Apparel	10%	10%	$0.09	1.08	0.97	0.48	10	0.10	0.05	0.02	$ 0.13	271	1.18	0.44	14.82	3.30
1	704	Cool Roof - Chiller	Textiles-Apparel	10%	10%	$0.16	1.08	0.98	0.49	10	0.04	0.02	0.01	$ 0.24	489	0.66	0 24	26.77	3.30

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	705	Chiller Tune Up/Diagnostics	Textiles-Apparel	8%	8%	$0.05	1.08	1.00	0.49	10	0.02	0.01	0.00	$ 0.10	199	1.61	0 60	10.90	3.30
1	706	Cooling Circ. Pumps - VSD	Textiles-Apparel	6%	6%	$0.10	1.06	0.99	0.49	15	0.05	0.03	0.01	$ 0.18	360	0.89	0 29	27.39	3.30
1	710	Base DX Packaged System, EER=10.3, 10 tons	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.52	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Textiles-Apparel	10%	10%	$0.07	1.10	0.99	0.49	3	0.05	0.02	0.01	$ 0.28	571	0.56	0 25	11.09	3.30
1	712	DX Packaged System, EER=10.9, 10 tons	Textiles-Apparel	6%	6%	$0.05	0.90	0.85	0.42	15	0.06	0.03	0.01	$ 0.11	214	1.50	0 50	16.23	3.30
1	713	Window Film - DX	Textiles-Apparel	10%	10%	$0.03	1.12	1.01	0.50	10	0.03	0.02	0.01	$ 0.05	95	3.36	1 24	5.22	3.30
1	714	Evaporative Pre-Cooler	Textiles-Apparel	10%	10%	$0.12	1.05	0.94	0.47	10	0.03	0.02	0.00	$ 0.18	363	0.88	0 33	19.85	3.30
1	715	Prog. Thermostat - DX	Textiles-Apparel	7%	3%	$0.00	1.08	1.01	0.52	10	0.03	0.01	0.01	$ 0.01	58	9.12	5 82	1.12	1.91
1	716	Cool Roof - DX	Textiles-Apparel	10%	10%	$0.09	1.08	0.98	0.48	10	0.04	0.02	0.01	$ 0.14	286	1.12	0.41	15.66	3.30
1	800	Base Lighting	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Textiles-Apparel	31%	31%	$0.10	1.05	0.72	0.30	15	0.29	0.12	0.05	$ 0.04	86	4.12	1.48	5.47	3.05
1	802	CFL Hardwired, Modular 36W	Textiles-Apparel	72%	72%	$0.10	1.04	0.29	0.12	4	0.01	0.00	0.00	$ 0.05	114	3.11	1.46	2.40	3.05
1	803	Metal Halide, 50W	Textiles-Apparel	58%	58%	$0.67	1.23	0.52	0.21	5	0.43	0.18	0.07	$ 0.27	648	0.55	0 25	16.62	3.05
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Textiles-Apparel	19%	20%	$0.05	1.05	0.85	0.35	9	0.04	0.02	0.01	$ 0.04	100	3.47	1 38	4.47	3.14
1	900	Base Other	Textiles-Apparel	0%	0%	$ -	1.04	1.04	0.43	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Textiles-Apparel	0%	0%	$0.00	1.04	1.04	0.43	5	0.00	0.00	0.00	$ 0.05	111	3.21	1.46	2.84	3.05
1	902	Membranes for wastewater	Textiles-Apparel	10%	10%	$0.04	1.14	1.02	0.42	15	0.01	0.00	0.00	$ 0.04	88	4.06	1.46	5.54	3.05
1	100	Base Compressed Air	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Lumber-Furniture	17%	17%	$0.01	1.20	1.00	0.15	10	1.07	0.16	0.13	$ 0.01	55	11.13	7 22	0.90	1.88
1	102	Compressed Air - Controls	Lumber-Furniture	12%	12%	$0.02	1.14	1.01	0.15	10	0.83	0.12	0.10	$ 0.02	137	4.45	2 89	2.25	1.88
1	103	Compressed Air - System Optimization	Lumber-Furniture	20%	20%	$0.02	1.16	0.93	0.14	10	2.80	0.42	0.35	$ 0.01	76	8.06	5 22	1.24	1.88
1	104	Compressed Air- Sizing	Lumber-Furniture	9%	9%	$0.00	1.04	0.95	0.14	10	1.06	0.16	0.13	$ 0.01	53	11 50	7.46	0.87	1.88
1	105	Comp Air - Replace 1-5 HP motor	Lumber-Furniture	3%	3%	$0.05	1.05	1.02	0.15	14	0.03	0.00	0.00	$ 0.22	1,499	0.41	0 24	32.61	1.88
1	106	Comp Air - ASD (1-5 hp)	Lumber-Furniture	6%	1%	$0.08	1.04	0.98	0.15	14	0.07	0.00	0.01	$ 0.16	10,506	0.38	0 33	23.70	1.28
1	107	Comp Air - Motor practices-1 (1-5 HP)	Lumber-Furniture	5%	5%	$0.02	1.04	0.99	0.15	14	0.06	0.01	0.01	$ 0.05	350	1.75	1 04	7.60	1.88
1	108	Comp Air - Replace 6-100 HP motor	Lumber-Furniture	4%	4%	$0.03	1.07	1.03	0.15	10	0.07	0.01	0.01	$ 0.13	869	0.70	0.46	14.26	1.88
1	109	Comp Air - ASD (6-100 hp)	Lumber-Furniture	6%	1%	$0.00	1.04	0.98	0.15	10	0.50	0.01	0.07	$ 0.01	466	8.56	8.19	0.79	1.28
1	110	Comp Air - Motor practices-1 (6-100 HP)	Lumber-Furniture	2%	2%	$0.01	1.04	1.02	0.15	10	0.22	0.03	0.03	$ 0.03	234	2.61	1 69	3.84	1.88
1	111	Comp Air - Replace 100+ HP motor	Lumber-Furniture	3%	3%	$0.01	1.06	1.03	0.15	6	0.18	0.03	0.02	$ 0.07	446	1.37	0 98	4.86	1.88
1	112	Comp Air - ASD (100+ hp)	Lumber-Furniture	6%	1%	$0.01	1.04	0.98	0.15	6	1.41	0.02	0.20	$ 0.02	1,568	2.54	2 69	1.77	1.28
1	113	Comp Air - Motor practices-1 (100+ HP)	Lumber-Furniture	2%	2%	$0.00	1.05	1.03	0.15	6	0.09	0.01	0.01	$ 0.03	228	2.68	1 92	2.48	1.88
1	200	Base Fans	Lumber-Furniture	0%	0%	$ -	1 04	1.04	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Lumber-Furniture	2%	2%	$0.00	1.06	1.04	0.15	10	0.13	0.02	0.02	$ 0.01	51	11 96	7.75	0.84	1.88
1	202	Fans - Controls	Lumber-Furniture	30%	30%	$0.09	1.36	0.95	0.14	10	3.53	0.52	0.44	$ 0.04	248	2.46	1 60	4.07	1.88
1	203	Fans - System Optimization	Lumber-Furniture	20%	10%	$0.06	1.23	0.99	0.16	10	2.10	0.16	0.28	$ 0.04	536	1.84	1.45	4.49	1.55
1	204	Fans- Improve components	Lumber-Furniture	5%	5%	$0.01	1.08	1.02	0.15	10	0.88	0.13	0.11	$ 0.02	103	5.95	3 86	1.68	1.88
1	205	Fans - Replace 1-5 HP motor	Lumber-Furniture	3%	3%	$0.05	1.05	1.02	0.15	14	0.06	0.01	0.01	$ 0.22	1,499	0.41	0 24	32.61	1.88
1	206	Fans - ASD (1-5 hp)	Lumber-Furniture	6%	1%	$0.08	1.05	0.99	0.16	14	0.11	0.00	0.02	$ 0.16	10,400	0.38	0 34	23.46	1.28
1	207	Fans - Motor practices-1 (1-5 HP)	Lumber-Furniture	5%	5%	$0.02	1.04	0.99	0.15	14	0.11	0.02	0.01	$ 0.05	350	1.75	1 04	7.60	1.88
1	208	Fans - Replace 6-100 HP motor	Lumber-Furniture	3%	4%	$0.03	1.06	1.03	0.15	10	0.25	0.04	0.04	$ 0.15	879	0.62	0 39	16.72	1.96
1	209	Fans - ASD (6-100 hp)	Lumber-Furniture	3%	1%	$0.00	1.04	1.01	0.15	10	0.50	0.01	0.06	$ 0.01	464	4.72	4 65	1.40	1.24
1	210	Fans - Motor practices-1 (6-100 HP)	Lumber-Furniture	2%	2%	$0.01	1.06	1.03	0.15	10	0.17	0.03	0.02	$ 0.03	230	2.65	1.72	3.78	1.88
1	211	Fans - Replace 100+ HP motor	Lumber-Furniture	3%	3%	$0.01	1.04	1.01	0.15	6	0.79	0.12	0.10	$ 0.07	454	1.34	0 97	4.94	1.88
1	212	Fans - ASD (100+ hp)	Lumber-Furniture	5%	1%	$0.01	1.09	1.04	0.16	6	0.15	0.00	0.03	$ 0.03	1,502	2.19	2 37	2.01	1.25
1	213	Fans - Motor practices-1 (100+ HP)	Lumber-Furniture	1%	2%	$0.00	1.04	1.03	0.15	6	0.26	0.06	0.03	$ 0.05	230	1.95	1.19	4.02	2.22
1	214	Optimize drying process	Lumber-Furniture	20%	20%	$0.05	1.08	0.87	0.13	10	7.97	1.18	0.99	$ 0.04	253	2.41	1 56	4.16	1.88
1	300	Base Pumps	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Lumber-Furniture	10%	10%	$0.01	1.09	0.98	0.15	10	3.62	0.54	0.45	$ 0.01	51	12 06	7 82	0.83	1.88
1	302	Pumps - Controls	Lumber-Furniture	30%	30%	$0.03	1.35	0.94	0.14	10	4.64	0.69	0.58	$ 0.01	73	8.33	5.40	1.20	1.88
1	303	Pumps - System Optimization	Lumber-Furniture	33%	33%	$0.07	1.12	0.75	0.11	10	13.55	2.01	1.68	$ 0.03	196	3.11	2 01	3.23	1.88
1	304	Pumps - Sizing	Lumber-Furniture	20%	20%	$0.02	1.24	0.99	0.15	10	2.98	0.44	0.37	$ 0.01	89	6.89	4.47	1.45	1.88
1	305	Pumps - Replace 1-5 HP motor	Lumber-Furniture	3%	3%	$0.05	1.04	1.01	0.15	14	0.08	0.01	0.01	$ 0.22	1,502	0.41	0 24	32.66	1.88
1	306	Pumps - ASD (1-5 hp)	Lumber-Furniture	6%	1%	$0.08	1.05	0.99	0.16	14	0.14	0.00	0.02	$ 0.16	10,391	0.38	0 34	23.44	1.28
1	307	Pumps - Motor practices-1 (1-5 HP)	Lumber-Furniture	5%	5%	$0.02	1.06	1.01	0.15	14	0.08	0.01	0.01	$ 0.05	342	1.78	1 06	7.43	1.88
1	308	Pumps - Replace 6-100 HP motor	Lumber-Furniture	4%	4%	$0.03	1.05	1.01	0.15	10	0.70	0.10	0.09	$ 0.13	890	0.69	0.44	14.61	1.88
1	309	Pumps - ASD (6-100 hp)	Lumber-Furniture	6%	1%	$0.00	1.07	1.01	0.16	10	0.60	0.01	0.09	$ 0.01	452	8.83	8.44	0.77	1.28
1	310	Pumps - Motor practices-1 (6-100 HP)	Lumber-Furniture	2%	2%	$0.01	1.05	1.02	0.15	10	0.44	0.06	0.05	$ 0.03	233	2.62	1.70	3.82	1.88
1	311	Pumps - Replace 100+ HP motor	Lumber-Furniture	3%	3%	$0.01	1.06	1.03	0.15	6	0.45	0.07	0.06	$ 0.07	446	1.37	0 98	4.86	1.88
1	312	Pumps - ASD (100+ hp)	Lumber-Furniture	6%	1%	$0.01	1.04	0.98	0.15	6	2.03	0.03	0.29	$ 0.02	1,566	2.55	2.70	1.77	1.28
1	313	Pumps - Motor practices-1 (100+ HP)	Lumber-Furniture	2%	2%	$0.00	1.04	1.03	0.15	6	0.56	0.08	0.07	$ 0.03	230	2.65	1 90	2.50	1.88
1	400	Base Drives	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	403	Air conveying systems	Lumber-Furniture	37%	10%	$0.04	1.44	0.91	0.19	14	8.61	0.35	1.20	$ 0.01	219	7.58	6.10	1.29	1.39

DSM ASSYST SUMMARY						Year	2011												
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Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	404	Replace V-Belts	Lumber-Furniture	6%	6%	$0.01	1.09	1.03	0.15	10	2.08	0.31	0.26	$ 0.01	101	6.07	3 93	1.65	1.88
1	405	Drives - EE motor	Lumber-Furniture	4%	4%	$0.01	1.07	1.04	0.15	10	0.32	0.05	0.04	$ 0.03	184	3.31	2.15	3.03	1.88
1	500	Base Heating	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	503	Heat Pumps - Drying	Lumber-Furniture	22%	22%	$0.18	1.26	0.99	0.15	15	2.76	0.41	0.34	$ 0.07	501	1.22	0.71	11.41	1.88
1	550	Base Refrigeration	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.19	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.19	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Lumber-Furniture	12%	12%	$0.03	0.93	0.82	0.15	20	2.14	0.38	0.27	$ 0.03	159	3.35	1.70	5.03	1.97
1	702	Window Film - Chiller	Lumber-Furniture	10%	10%	$0.06	1.10	0.98	0.18	10	0.82	0.15	0.10	$ 0.08	464	1.15	0.71	9.15	1.97
1	703	EMS - Chiller	Lumber-Furniture	10%	10%	$0.09	1.08	0.97	0.17	10	1.31	0.23	0.16	$ 0.13	752	0.71	0.44	14.82	1.97
1	704	Cool Roof - Chiller	Lumber-Furniture	10%	10%	$0.16	1.08	0.98	0.17	10	0.58	0.10	0.07	$ 0.24	1,359	0.39	0 24	26.77	1.97
1	705	Chiller Tune Up/Diagnostics	Lumber-Furniture	8%	8%	$0.05	1.08	1.00	0.18	10	0.21	0.04	0.03	$ 0.10	553	0.96	0 60	10.90	1.97
1	706	Cooling Circ. Pumps - VSD	Lumber-Furniture	6%	6%	$0.10	1.06	0.99	0.18	15	0.68	0.12	0.08	$ 0.18	1,002	0.53	0 29	27.39	1.97
1	710	Base DX Packaged System, EER=10.3, 10 tons	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.19	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Lumber-Furniture	10%	10%	$0.07	1.10	0.99	0.18	3	0.68	0.12	0.08	$ 0.28	1,587	0.34	0 25	11.09	1.97
1	712	DX Packaged System, EER=10.9, 10 tons	Lumber-Furniture	6%	6%	$0.05	0.90	0.85	0.15	15	0.81	0.15	0.10	$ 0.11	594	0.90	0 50	16.23	1.97
1	713	Window Film - DX	Lumber-Furniture	10%	10%	$0.03	1.12	1.01	0.18	10	0.44	0.08	0.05	$ 0.05	265	2.01	1 24	5.22	1.97
1	714	Evaporative Pre-Cooler	Lumber-Furniture	10%	10%	$0.12	1.05	0.94	0.17	10	0.41	0.07	0.05	$ 0.18	1,008	0.53	0 33	19.85	1.97
1	715	Prog. Thermostat - DX	Lumber-Furniture	9%	3%	$0.00	1.09	1.00	0.19	10	0.55	0.03	0.08	$ 0.01	159	8.64	7.42	0.88	1.42
1	716	Cool Roof - DX	Lumber-Furniture	10%	10%	$0.09	1.08	0.98	0.17	10	0.52	0.09	0.07	$ 0.14	795	0.67	0.41	15.66	1.97
1	800	Base Lighting	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Lumber-Furniture	31%	31%	$0.10	1.05	0.72	0.11	15	6.42	0.95	0.80	$ 0.04	240	2.54	1.48	5.47	1.88
1	802	CFL Hardwired, Modular 36W	Lumber-Furniture	72%	72%	$0.10	1.04	0.29	0.04	4	0.11	0.02	0.01	$ 0.05	317	1.92	1.46	2.40	1.88
1	803	Metal Halide, 50W	Lumber-Furniture	58%	58%	$0.67	1.23	0.52	0.08	5	9.44	1.40	1.17	$ 0.27	1,801	0.34	0 25	16.62	1.88
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Lumber-Furniture	17%	20%	$0.05	1.05	0.87	0.12	9	0.88	0.15	0.13	$ 0.05	278	1.97	1 26	4.91	1.96
1	900	Base Other	Lumber-Furniture	0%	0%	$ -	1.04	1.04	0.15	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Lumber-Furniture	0%	0%	$0.00	1.04	1.04	0.15	5	0.01	0.00	0.00	$ 0.05	308	1.98	1.46	2.84	1.88
1	100	Base Compressed Air	Paper	0%	0%	$ -	1.04	1.04	0.08	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Paper	17%	17%	$0.01	1.18	0.98	0.08	10	6.98	0.56	0.60	$ 0.01	104	9.13	7.10	0.92	1.57
1	102	Compressed Air - Controls	Paper	12%	12%	$0.02	1.14	1.01	0.08	10	3.90	0.31	0.33	$ 0.02	255	3.71	2 89	2.25	1.57
1	103	Compressed Air - System Optimization	Paper	20%	20%	$0.02	1.16	0.93	0.07	10	13.16	1.05	1.12	$ 0.01	141	6.72	5 22	1.24	1.57
1	104	Compressed Air- Sizing	Paper	9%	9%	$0.00	1.12	1.02	0.08	10	1.13	0.09	0.10	$ 0.01	91	10 36	8 05	0.81	1.57
1	105	Comp Air - Replace 1-5 HP motor	Paper	3%	3%	$0.05	1.05	1.02	0.08	14	0.14	0.01	0.01	$ 0.22	2,786	0.34	0 24	32.61	1.57
1	106	Comp Air - ASD (1-5 hp)	Paper	6%	1%	$0.08	1.04	0.98	0.08	14	0.34	0.00	0.03	$ 0.15	19,523	0.39	0 35	22.26	1.24
1	107	Comp Air - Motor practices-1 (1-5 HP)	Paper	5%	5%	$0.02	1.04	0.99	0.08	14	0.27	0.02	0.02	$ 0.05	650	1.46	1 04	7.60	1.57
1	108	Comp Air - Replace 6-100 HP motor	Paper	4%	4%	$0.03	1.05	1.02	0.08	10	0.95	0.08	0.08	$ 0.13	1,639	0.58	0.45	14.48	1.57
1	109	Comp Air - ASD (6-100 hp)	Paper	6%	1%	$0.00	1.04	0.98	0.08	10	6.77	0.05	0.62	$ 0.01	865	8.83	8.72	0.75	1.24
1	110	Comp Air - Motor practices-1 (6-100 HP)	Paper	2%	2%	$0.01	1.06	1.04	0.08	10	0.15	0.01	0.01	$ 0.03	425	2.22	1.73	3.76	1.57
1	111	Comp Air - Replace 100+ HP motor	Paper	3%	3%	$0.01	1.07	1.03	0.08	6	0.58	0.05	0.05	$ 0.07	827	1.14	0 98	4.84	1.57
1	112	Comp Air - ASD (100+ hp)	Paper	6%	1%	$0.01	1.06	1.00	0.08	6	4.26	0.03	0.39	$ 0.02	2,858	2.67	2 92	1.63	1.24
1	113	Comp Air - Motor practices-1 (100+ HP)	Paper	2%	2%	$0.00	1.05	1.03	0.08	6	0.68	0.05	0.06	$ 0.03	425	2.23	1 92	2.49	1.57
1	200	Base Fans	Paper	0%	0%	$ -	1.04	1.04	0.08	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Paper	2%	2%	$0.00	1.04	1.02	0.08	10	8.15	0.65	0.70	$ 0.01	96	9.83	7 64	0.85	1.57
1	202	Fans - Controls	Paper	30%	30%	$0.09	1.14	0.80	0.06	10	93.77	7.50	8.01	$ 0.04	552	1.71	1 33	4.88	1.57
1	203	Fans - System Optimization	Paper	20%	10%	$0.06	1.07	0.85	0.08	10	71.47	2.82	6.37	$ 0.04	1,142	1.48	1 31	4.97	1.38
1	204	Fans- Improve components	Paper	5%	5%	$0.01	1.06	1.01	0.08	10	16.63	1.33	1.42	$ 0.02	194	4.88	3.79	1.71	1.57
1	205	Fans - Replace 1-5 HP motor	Paper	3%	3%	$0.05	1.04	1.01	0.08	14	0.64	0.05	0.05	$ 0.22	2,795	0.34	0 24	32.71	1.57
1	206	Fans - ASD (1-5 hp)	Paper	6%	1%	$0.08	1.04	0.98	0.08	14	1.37	0.01	0.13	$ 0.15	19,520	0.39	0 35	22.26	1.24
1	207	Fans - Motor practices-1 (1-5 HP)	Paper	5%	5%	$0.02	1.04	0.99	0.08	14	1.10	0.09	0.09	$ 0.05	650	1.46	1 04	7.60	1.57
1	208	Fans - Replace 6-100 HP motor	Paper	3%	4%	$0.03	1.04	1.01	0.08	10	4.66	0.43	0.46	$ 0.15	1,655	0.50	0 38	16.94	1.60
1	209	Fans - ASD (6-100 hp)	Paper	4%	1%	$0.00	1.04	1.01	0.08	10	5.87	0.07	0.44	$ 0.01	863	5.19	5.40	1.20	1.17
1	210	Fans - Motor practices-1 (6-100 HP)	Paper	2%	2%	$0.01	1.04	1.02	0.08	10	3.68	0.29	0.31	$ 0.03	433	2.18	1.70	3.83	1.57
1	211	Fans - Replace 100+ HP motor	Paper	3%	3%	$0.01	1.04	1.01	0.08	6	8.30	0.66	0.71	$ 0.07	844	1.12	0 96	4.94	1.57
1	212	Fans - ASD (100+ hp)	Paper	5%	1%	$0.01	1.04	0.99	0.08	6	13.60	0.12	1.47	$ 0.03	2,905	2.19	2.45	1.94	1.21
1	213	Fans - Motor practices-1 (100+ HP)	Paper	1%	2%	$0.00	1.04	1.03	0.08	6	2.76	0.34	0.18	$ 0.05	427	1.54	1 23	3.87	1.70
1	300	Base Pumps	Paper	0%	0%	$ -	1.04	1.04	0.08	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Paper	10%	10%	$0.01	1.13	1.02	0.08	10	15.36	1.23	1.31	$ 0.01	90	10.47	8.14	0.80	1.57
1	302	Pumps - Controls	Paper	30%	30%	$0.03	1.41	0.98	0.08	10	43.90	3.51	3.75	$ 0.01	131	7.24	5 63	1.15	1.57
1	303	Pumps - System Optimization	Paper	33%	33%	$0.07	1.45	0.97	0.08	10	54.25	4.34	4.63	$ 0.02	282	3.35	2 61	2.49	1.57
1	304	Pumps - Sizing	Paper	20%	20%	$0.02	1.24	0.99	0.08	10	38.10	3.05	3.25	$ 0.01	165	5.75	4.47	1.45	1.57
1	305	Pumps - Replace 1-5 HP motor	Paper	3%	3%	$0.05	1.04	1.01	0.08	14	0.97	0.08	0.08	$ 0.22	2,788	0.34	0 24	32.63	1.57
1	306	Pumps - ASD (1-5 hp)	Paper	6%	1%	$0.08	1.04	0.98	0.08	14	2.29	0.02	0.21	$ 0.15	19,523	0.39	0 35	22.26	1.24

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	307	Pumps - Motor practices-1 (1-5 HP)	Paper	5%	5%	$0.02	1.07	1.02	0.08	14	0.77	0.06	0.07	$ 0.05	631	1.50	1 07	7.39	1.57
1	308	Pumps - Replace 6-100 HP motor	Paper	4%	4%	$0.03	1.04	1.01	0.08	10	9.68	0.77	0.83	$ 0.13	1,658	0.57	0.44	14.65	1.57
1	309	Pumps - ASD (6-100 hp)	Paper	6%	1%	$0.00	1.04	0.98	0.08	10	16.66	0.13	1.53	$ 0.01	864	8.85	8.73	0.74	1.24
1	310	Pumps - Motor practices-1 (6-100 HP)	Paper	2%	2%	$0.01	1.05	1.03	0.08	10	4.35	0.35	0.37	$ 0.03	430	2.20	1.71	3.80	1.57
1	311	Pumps - Replace 100+ HP motor	Paper	3%	3%	$0.01	1.06	1.03	0.08	6	5.70	0.46	0.49	$ 0.07	830	1.14	0 98	4.86	1.57
1	312	Pumps - ASD (100+ hp)	Paper	6%	1%	$0.01	1.04	0.98	0.08	6	28.24	0.22	2.60	$ 0.02	2,914	2.62	2 87	1.66	1.24
1	313	Pumps - Motor practices-1 (100+ HP)	Paper	2%	2%	$0.00	1.04	1.03	0.08	6	7.12	0.57	0.61	$ 0.03	427	2.21	1 90	2.50	1.57
1	400	Base Drives	Paper	0%	0%	$ -	1.04	1.04	0.08	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	405	Drives - EE motor	Paper	3%	3%	$0.01	1.05	1.02	0.08	10	15.16	1.21	1.29	$ 0.03	349	2.71	2.11	3.08	1.57
1	406	Gap Forming papermachine	Paper	8%	8%	$0.01	1.12	1.03	0.08	20	8.94	0.71	0.76	$ 0.01	113	8.37	5 33	1.60	1.57
1	407	High Consistency forming	Paper	8%	8%	$0.01	1.12	1.03	0.08	20	8.58	0.69	0.73	$ 0.01	113	8.34	5 31	1.61	1.57
1	408	Optimization control PM	Paper	5%	5%	$0.01	1.06	1.01	0.08	10	24.93	1.99	2.13	$ 0.04	480	1.97	1 53	4.24	1.57
1	500	Base Heating	Paper	0%	0%	$ -	1.04	1.04	0.08	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	550	Base Refrigeration	Paper	0%	0%	$ -	1.04	1.04	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Paper	0%	0%	$ -	1.04	1.04	0.08	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Paper	0%	0%	$ -	1.04	1.04	0.10	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Paper	12%	12%	$0.03	0.93	0.82	0.08	20	1.97	0.19	0.17	$ 0.03	296	2.75	1.70	5.03	1.62
1	702	Window Film - Chiller	Paper	10%	10%	$0.06	1.10	0.98	0.09	10	0.75	0.07	0.06	$ 0.08	863	0.94	0.71	9.15	1.62
1	703	EMS - Chiller	Paper	10%	10%	$0.09	1.08	0.97	0.09	10	1.20	0.12	0.10	$ 0.13	1,398	0.58	0.44	14.82	1.62
1	704	Cool Roof - Chiller	Paper	10%	10%	$0.16	1.08	0.98	0.09	10	0.54	0.05	0.05	$ 0.24	2,525	0.32	0 24	26.77	1.62
1	705	Chiller Tune Up/Diagnostics	Paper	8%	8%	$0.05	1.08	1.00	0.10	10	0.19	0.02	0.02	$ 0.10	1,028	0.79	0 60	10.90	1.62
1	706	Cooling Circ. Pumps - VSD	Paper	6%	6%	$0.10	1.06	0.99	0.10	15	0.63	0.06	0.05	$ 0.18	1,861	0.44	0 29	27.39	1.62
1	710	Base DX Packaged System, EER=10.3, 10 tons	Paper	0%	0%	$ -	1.04	1.04	0.10	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Paper	10%	10%	$0.07	1.10	0.99	0.09	3	4.91	0.47	0.42	$ 0.28	2,949	0.28	0 25	11.09	1.62
1	712	DX Packaged System, EER=10.9, 10 tons	Paper	6%	6%	$0.05	0.90	0.85	0.08	15	5.92	0.57	0.51	$ 0.11	1,103	0.74	0 50	16.23	1.62
1	713	Window Film - DX	Paper	10%	10%	$0.03	1.12	1.01	0.10	10	3.18	0.30	0.27	$ 0.05	493	1.65	1 24	5.22	1.62
1	714	Evaporative Pre-Cooler	Paper	10%	10%	$0.12	1.05	0.94	0.09	10	2.97	0.28	0.25	$ 0.18	1,872	0.43	0 33	19.85	1.62
1	715	Prog. Thermostat - DX	Paper	9%	3%	$0.00	1.10	0.99	0.10	10	4.19	0.11	0.38	$ 0.01	294	8.41	7 83	0.83	1.31
1	716	Cool Roof - DX	Paper	10%	10%	$0.09	1.08	0.98	0.09	10	3.81	0.37	0.33	$ 0.14	1,477	0.55	0.41	15.66	1.62
1	800	Base Lighting	Paper	0%	0%	$ -	1.04	1.04	0.08	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Paper	31%	31%	$0.10	1.05	0.72	0.06	15	16.42	1.31	1.40	$ 0.04	446	2.12	1.48	5.47	1.57
1	802	CFL Hardwired, Modular 36W	Paper	72%	72%	$0.10	1.04	0.29	0.02	4	0.31	0.02	0.03	$ 0.05	590	1.60	1.46	2.40	1.57
1	803	Metal Halide, 50W	Paper	58%	58%	$0.67	1.23	0.52	0.04	5	26.16	2.09	2.23	$ 0.27	3,346	0.28	0 25	16.62	1.57
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Paper	17%	20%	$0.05	1.05	0.87	0.07	9	2.44	0.23	0.24	$ 0.05	516	1.61	1 26	4.91	1.60
1	900	Base Other	Paper	0%	0%	$ -	1 04	1.04	0.08	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Paper	0%	0%	$0.00	1.04	1.04	0.08	5	0.02	0.00	0.00	$ 0.05	572	1.65	1.46	2.84	1.57
1	100	Base Compressed Air	Printing	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Printing	17%	17%	$0.01	1.18	0.98	0.13	10	0.90	0.12	0.12	$ 0.01	63	10.45	7.10	0.92	1.80
1	102	Compressed Air - Controls	Printing	12%	12%	$0.02	1.14	1.01	0.13	10	0.50	0.07	0.07	$ 0.02	155	4.25	2 89	2.25	1.80
1	103	Compressed Air - System Optimization	Printing	20%	20%	$0.02	1.16	0.93	0.12	10	1.69	0.22	0.22	$ 0.01	86	7.69	5 22	1.24	1.80
1	104	Compressed Air- Sizing	Printing	9%	9%	$0.00	1.12	1.02	0.13	10	0.14	0.02	0.02	$ 0.01	56	11 85	8 05	0.81	1.80
1	105	Comp Air - Replace 1-5 HP motor	Printing	3%	3%	$0.05	1.05	1.02	0.13	14	0.02	0.00	0.00	$ 0.22	1,699	0.39	0 24	32.61	1.80
1	106	Comp Air - ASD (1-5 hp)	Printing	6%	1%	$0.08	1.04	0.98	0.14	14	0.04	0.00	0.01	$ 0.16	11,907	0.38	0 34	23.37	1.26
1	107	Comp Air - Motor practices-1 (1-5 HP)	Printing	5%	5%	$0.02	1.04	0.99	0.13	14	0.04	0.00	0.00	$ 0.05	396	1.67	1 04	7.60	1.80
1	108	Comp Air - Replace 6-100 HP motor	Printing	3%	4%	$0.03	1.05	1.02	0.13	10	0.12	0.02	0.02	$ 0.13	1,000	0.66	0.45	14.48	1.80
1	109	Comp Air - ASD (6-100 hp)	Printing	6%	1%	$0.00	1.04	0.98	0.14	10	0.83	0.01	0.12	$ 0.01	528	8.55	8 31	0.78	1.26
1	110	Comp Air - Motor practices-1 (6-100 HP)	Printing	2%	2%	$0.01	1.06	1.04	0.14	10	0.02	0.00	0.00	$ 0.03	259	2.54	1.73	3.76	1.80
1	111	Comp Air - Replace 100+ HP motor	Printing	3%	3%	$0.01	1.07	1.03	0.14	6	0.07	0.01	0.01	$ 0.07	504	1.31	0 98	4.84	1.80
1	112	Comp Air - ASD (100+ hp)	Printing	6%	1%	$0.01	1.06	1.00	0.14	6	0.52	0.01	0.08	$ 0.02	1,745	2.59	2.78	1.71	1.26
1	113	Comp Air - Motor practices-1 (100+ HP)	Printing	1%	2%	$0.00	1.05	1.03	0.14	6	0.09	0.01	0.01	$ 0.03	259	2.55	1 92	2.49	1.80
1	200	Base Fans	Printing	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Printing	2%	2%	$0.00	1.04	1.02	0.13	10	0.49	0.06	0.06	$ 0.01	59	11 25	7 64	0.85	1.80
1	202	Fans - Controls	Printing	30%	30%	$0.09	1.14	0.80	0.10	10	5.61	0.74	0.74	$ 0.04	337	1.96	1 33	4.88	1.80
1	203	Fans - System Optimization	Printing	20%	10%	$0.06	1.07	0.86	0.13	10	4.16	0.28	0.59	$ 0.05	697	1.56	1 27	5.11	1.50
1	204	Fans- Improve components	Printing	5%	5%	$0.01	1.06	1.01	0.13	10	1.00	0.13	0.13	$ 0.02	118	5.59	3.79	1.71	1.80
1	205	Fans - Replace 1-5 HP motor	Printing	3%	3%	$0.05	1.04	1.01	0.13	14	0.04	0.01	0.01	$ 0.22	1,705	0.39	0 24	32.71	1.80
1	206	Fans - ASD (1-5 hp)	Printing	6%	1%	$0.08	1.04	0.98	0.14	14	0.08	0.00	0.01	$ 0.16	11,905	0.38	0 34	23.36	1.26
1	207	Fans - Motor practices-1 (1-5 HP)	Printing	5%	5%	$0.02	1.04	0.99	0.13	14	0.07	0.01	0.01	$ 0.05	396	1.67	1 04	7.60	1.80
1	208	Fans - Replace 6-100 HP motor	Printing	3%	4%	$0.03	1.04	1.01	0.13	10	0.28	0.04	0.04	$ 0.15	1,009	0.59	0 39	16.65	1.85
1	209	Fans - ASD (6-100 hp)	Printing	3%	1%	$0.00	1.04	1.01	0.14	10	0.32	0.01	0.04	$ 0.01	526	4.93	4 94	1.31	1.22
1	210	Fans - Motor practices-1 (6-100 HP)	Printing	2%	2%	$0.01	1.04	1.02	0.13	10	0.22	0.03	0.03	$ 0.03	264	2.50	1.70	3.83	1.80
1	211	Fans - Replace 100+ HP motor	Printing	3%	3%	$0.01	1.04	1.01	0.13	6	0.50	0.07	0.07	$ 0.07	515	1.28	0 96	4.94	1.80

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	212	Fans - ASD (100+ hp)	Printing	5%	1%	$0.01	1.04	0.99	0.14	6	0.78	0.01	0.14	$ 0.03	1,772	2.15	2 36	2.02	1.23
1	213	Fans - Motor practices-1 (100+ HP)	Printing	1%	2%	$0.00	1.04	1.03	0.13	6	0.16	0.03	0.02	$ 0.05	261	1.87	1 22	3.91	2.07
1	300	Base Pumps	Printing	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Printing	10%	10%	$0.01	1.13	1.02	0.13	10	0.72	0.09	0.10	$ 0.01	55	11 98	8.14	0.80	1.80
1	302	Pumps - Controls	Printing	30%	30%	$0.03	1.41	0.98	0.13	10	2.07	0.27	0.27	$ 0.01	80	8.29	5 63	1.15	1.80
1	303	Pumps - System Optimization	Printing	33%	33%	$0.07	1.45	0.97	0.13	10	2.56	0.34	0.34	$ 0.02	172	3.84	2 61	2.49	1.80
1	304	Pumps - Sizing	Printing	20%	20%	$0.02	1.24	0.99	0.13	10	1.80	0.24	0.24	$ 0.01	100	6.58	4.47	1.45	1.80
1	305	Pumps - Replace 1-5 HP motor	Printing	3%	3%	$0.05	1.04	1.01	0.13	14	0.05	0.01	0.01	$ 0.22	1,701	0.39	0 24	32.63	1.80
1	306	Pumps - ASD (1-5 hp)	Printing	6%	1%	$0.08	1.04	0.98	0.14	14	0.10	0.00	0.02	$ 0.16	11,907	0.38	0 34	23.37	1.26
1	307	Pumps - Motor practices-1 (1-5 HP)	Printing	5%	5%	$0.02	1.07	1.02	0.13	14	0.04	0.00	0.00	$ 0.05	385	1.72	1 07	7.39	1.80
1	308	Pumps - Replace 6-100 HP motor	Printing	3%	4%	$0.03	1.04	1.01	0.13	10	0.46	0.06	0.06	$ 0.13	1,011	0.65	0.44	14.65	1.80
1	309	Pumps - ASD (6-100 hp)	Printing	6%	1%	$0.00	1.04	0.98	0.14	10	0.75	0.01	0.11	$ 0.01	527	8.56	8 32	0.78	1.26
1	310	Pumps - Motor practices-1 (6-100 HP)	Printing	2%	2%	$0.01	1.05	1.03	0.13	10	0.20	0.03	0.03	$ 0.03	263	2.51	1.71	3.80	1.80
1	311	Pumps - Replace 100+ HP motor	Printing	3%	3%	$0.01	1.06	1.03	0.13	6	0.27	0.04	0.04	$ 0.07	506	1.30	0 98	4.86	1.80
1	312	Pumps - ASD (100+ hp)	Printing	6%	1%	$0.01	1.04	0.98	0.14	6	1.27	0.02	0.19	$ 0.02	1,777	2.54	2.73	1.74	1.26
1	313	Pumps - Motor practices-1 (100+ HP)	Printing	1%	2%	$0.00	1.04	1.03	0.13	6	0.34	0.04	0.04	$ 0.03	261	2.53	1 90	2.50	1.80
1	400	Base Drives	Printing	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	409	Efficient practices printing press	Printing	10%	10%	$0.01	1.10	0.99	0.13	20	7.14	0.94	0.94	$ 0.01	71	9.30	5.17	1.65	1.80
1	410	Efficient Printing press (fewer cylinders)	Printing	20%	20%	$0.06	1.24	0.99	0.13	10	6.46	0.85	0.85	$ 0.04	301	2.19	1.49	4.36	1.80
1	411	Light cylinders	Printing	10%	10%	$0.07	1.13	1.02	0.13	10	2.95	0.39	0.39	$ 0.10	770	0.86	0 58	11.16	1.80
1	412	Efficient drives	Printing	3%	4%	$0.01	1.07	1.03	0.14	10	1.46	0.19	0.19	$ 0.02	187	3.53	2.40	2.71	1.80
1	500	Base Heating	Printing	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	550	Base Refrigeration	Printing	0%	0%	$ -	1.04	1.04	0.16	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Printing	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Printing	0%	0%	$ -	1.04	1.04	0.16	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Printing	12%	12%	$0.03	0.93	0.82	0.13	20	4.54	0.71	0.60	$ 0.03	180	3.19	1.70	5.03	1.88
1	702	Window Film - Chiller	Printing	10%	10%	$0.06	1.10	0.98	0.15	10	1.73	0.27	0.23	$ 0.08	526	1.09	0.71	9.15	1.88
1	703	EMS - Chiller	Printing	10%	10%	$0.09	1.08	0.97	0.15	10	2.77	0.44	0.37	$ 0.13	853	0.67	0.44	14.82	1.88
1	704	Cool Roof - Chiller	Printing	10%	10%	$0.16	1.08	0.98	0.15	10	1.24	0.19	0.16	$ 0.24	1,540	0.37	0 24	26.77	1.88
1	705	Chiller Tune Up/Diagnostics	Printing	8%	8%	$0.05	1.08	1.00	0.16	10	0.44	0.07	0.06	$ 0.10	627	0.92	0 60	10.90	1.88
1	706	Cooling Circ. Pumps - VSD	Printing	6%	6%	$0.10	1.06	0.99	0.16	15	1.45	0.23	0.19	$ 0.18	1,135	0.51	0 29	27.39	1.88
1	710	Base DX Packaged System, EER=10.3, 10 tons	Printing	0%	0%	$ -	1 04	1.04	0.16	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Printing	10%	10%	$0.07	1.10	0.99	0.16	3	1.43	0.23	0.19	$ 0.28	1,799	0.32	0 25	11.09	1.88
1	712	DX Packaged System, EER=10.9, 10 tons	Printing	6%	6%	$0.05	0.90	0.85	0.13	15	1.73	0.27	0.23	$ 0.11	673	0.85	0 50	16.23	1.88
1	713	Window Film - DX	Printing	10%	10%	$0.03	1.12	1.01	0.16	10	0.93	0.15	0.12	$ 0.05	300	1.91	1 24	5.22	1.88
1	714	Evaporative Pre-Cooler	Printing	10%	10%	$0.12	1.05	0.94	0.15	10	0.87	0.14	0.11	$ 0.18	1,142	0.50	0 33	19.85	1.88
1	715	Prog. Thermostat - DX	Printing	9%	3%	$0.00	1.10	1.00	0.17	10	1.17	0.05	0.17	$ 0.01	180	8.51	7 51	0.86	1.38
1	716	Cool Roof - DX	Printing	10%	10%	$0.09	1.08	0.98	0.15	10	1.11	0.18	0.15	$ 0.14	901	0.64	0.41	15.66	1.88
1	800	Base Lighting	Printing	0%	0%	$ -	1.04	1.04	0.14	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Printing	31%	31%	$0.10	1.05	0.72	0.09	15	7.69	1.01	1.02	$ 0.04	272	2.43	1.48	5.47	1.80
1	802	CFL Hardwired, Modular 36W	Printing	72%	72%	$0.10	1.04	0.29	0.04	4	0.12	0.02	0.02	$ 0.05	360	1.84	1.46	2.40	1.80
1	803	Metal Halide, 50W	Printing	58%	58%	$0.67	1.23	0.52	0.07	5	10.20	1.34	1.35	$ 0.27	2,041	0.32	0 25	16.62	1.80
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Printing	18%	20%	$0.05	1.05	0.86	0.11	9	0.97	0.14	0.15	$ 0.05	315	1.90	1 28	4.83	1.85
1	900	Base Other	Printing	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Printing	0%	0%	$0.00	1.04	1.04	0.14	5	0.00	0.00	0.00	$ 0.05	349	1.89	1.46	2.84	1.80
1	100	Base Compressed Air	Chemicals	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Chemicals	17%	17%	$0.01	1.18	0.98	0.11	10	6.51	0.74	0.97	$ 0.01	73	9.95	7.10	0.92	1.71
1	102	Compressed Air - Controls	Chemicals	12%	12%	$0.02	1.14	1.01	0.11	10	3.64	0.41	0.54	$ 0.02	179	4.05	2 89	2.25	1.71
1	103	Compressed Air - System Optimization	Chemicals	20%	20%	$0.02	1.16	0.93	0.11	10	12.27	1.40	1.82	$ 0.01	99	7.33	5 22	1.24	1.71
1	104	Compressed Air- Sizing	Chemicals	9%	9%	$0.00	1.12	1.02	0.12	10	1.05	0.12	0.16	$ 0.01	64	11 29	8 05	0.81	1.71
1	105	Comp Air - Replace 1-5 HP motor	Chemicals	3%	3%	$0.05	1.05	1.02	0.12	14	0.13	0.01	0.02	$ 0.22	1,958	0.37	0 24	32.61	1.71
1	106	Comp Air - ASD (1-5 hp)	Chemicals	6%	1%	$0.08	1.04	0.98	0.12	14	0.30	0.00	0.05	$ 0.16	13,717	0.38	0 34	23.12	1.23
1	107	Comp Air - Motor practices-1 (1-5 HP)	Chemicals	5%	5%	$0.02	1.04	0.99	0.11	14	0.25	0.03	0.04	$ 0.05	456	1.59	1 04	7.60	1.71
1	108	Comp Air - Replace 6-100 HP motor	Chemicals	4%	4%	$0.03	1.05	1.02	0.12	10	0.89	0.10	0.13	$ 0.13	1,152	0.63	0.45	14.48	1.71
1	109	Comp Air - ASD (6-100 hp)	Chemicals	6%	1%	$0.00	1.04	0.98	0.12	10	6.08	0.07	1.01	$ 0.01	608	8.46	8.40	0.77	1.23
1	110	Comp Air - Motor practices-1 (6-100 HP)	Chemicals	2%	2%	$0.01	1.06	1.04	0.12	10	0.14	0.02	0.02	$ 0.03	299	2.42	1.73	3.76	1.71
1	111	Comp Air - Replace 100+ HP motor	Chemicals	3%	3%	$0.01	1.07	1.03	0.12	6	0.54	0.06	0.08	$ 0.07	581	1.25	0 98	4.84	1.71
1	112	Comp Air - ASD (100+ hp)	Chemicals	6%	1%	$0.01	1.06	1.00	0.12	6	3.83	0.04	0.64	$ 0.02	2,010	2.56	2 81	1.69	1.23
1	113	Comp Air - Motor practices-1 (100+ HP)	Chemicals	2%	2%	$0.00	1.05	1.03	0.12	6	0.63	0.07	0.09	$ 0.03	299	2.43	1 92	2.49	1.71
1	200	Base Fans	Chemicals	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Chemicals	2%	2%	$0.00	1.04	1.02	0.12	10	4.75	0.54	0.70	$ 0.01	68	10.72	7 64	0.85	1.71
1	202	Fans - Controls	Chemicals	30%	30%	$0.09	1.14	0.80	0.09	10	54.64	6.22	8.10	$ 0.04	388	1.87	1 33	4.88	1.71

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	203	Fans - System Optimization	Chemicals	20%	10%	$0.06	1.07	0.86	0.11	10	40.76	2.33	6.44	$ 0.05	803	1.51	1 28	5.08	1.45
1	204	Fans- Improve components	Chemicals	5%	5%	$0.01	1.06	1.01	0.11	10	9.69	1.10	1.44	$ 0.02	136	5.32	3.79	1.71	1.71
1	205	Fans - Replace 1-5 HP motor	Chemicals	3%	3%	$0.05	1.04	1.01	0.12	14	0.37	0.04	0.06	$ 0.22	1,964	0.37	0 24	32.71	1.71
1	206	Fans - ASD (1-5 hp)	Chemicals	6%	1%	$0.08	1.04	0.98	0.12	14	0.77	0.01	0.13	$ 0.16	13,715	0.38	0 34	23.12	1.23
1	207	Fans - Motor practices-1 (1-5 HP)	Chemicals	5%	5%	$0.02	1.04	0.99	0.11	14	0.64	0.07	0.10	$ 0.05	456	1.59	1 04	7.60	1.71
1	208	Fans - Replace 6-100 HP motor	Chemicals	3%	4%	$0.03	1.04	1.01	0.11	10	2.84	0.36	0.47	$ 0.15	1,163	0.57	0.40	16.21	1.74
1	209	Fans - ASD (6-100 hp)	Chemicals	3%	1%	$0.00	1.04	1.01	0.12	10	3.24	0.06	0.44	$ 0.01	606	5.05	5.13	1.27	1.20
1	210	Fans - Motor practices-1 (6-100 HP)	Chemicals	2%	2%	$0.01	1.04	1.02	0.12	10	2.14	0.24	0.32	$ 0.03	304	2.38	1.70	3.83	1.71
1	211	Fans - Replace 100+ HP motor	Chemicals	3%	3%	$0.01	1.04	1.01	0.12	6	4.84	0.55	0.72	$ 0.07	593	1.22	0 96	4.94	1.71
1	212	Fans - ASD (100+ hp)	Chemicals	5%	1%	$0.01	1.04	0.99	0.12	6	7.97	0.10	1.49	$ 0.03	2,041	2.20	2.47	1.93	1.21
1	213	Fans - Motor practices-1 (100+ HP)	Chemicals	1%	2%	$0.00	1.04	1.03	0.12	6	1.62	0.28	0.18	$ 0.05	300	1.79	1 24	3.84	1.95
1	300	Base Pumps	Chemicals	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Chemicals	10%	10%	$0.01	1.13	1.02	0.12	10	21.82	2.48	3.24	$ 0.01	63	11.42	8.14	0.80	1.71
1	302	Pumps - Controls	Chemicals	30%	30%	$0.03	1.41	0.98	0.11	10	62.38	7.10	9.25	$ 0.01	92	7.90	5 63	1.15	1.71
1	303	Pumps - System Optimization	Chemicals	33%	33%	$0.07	1.45	0.97	0.11	10	77.08	8.77	11.43	$ 0.02	198	3.66	2 61	2.49	1.71
1	304	Pumps - Sizing	Chemicals	20%	20%	$0.02	1.24	0.99	0.11	10	54.14	6.16	8.03	$ 0.01	116	6.27	4.47	1.45	1.71
1	305	Pumps - Replace 1-5 HP motor	Chemicals	3%	3%	$0.05	1.04	1.01	0.12	14	1.38	0.16	0.20	$ 0.22	1,959	0.37	0 24	32.63	1.71
1	306	Pumps - ASD (1-5 hp)	Chemicals	6%	1%	$0.08	1.04	0.98	0.12	14	3.13	0.04	0.52	$ 0.16	13,717	0.38	0 34	23.12	1.23
1	307	Pumps - Motor practices-1 (1-5 HP)	Chemicals	5%	5%	$0.02	1.07	1.02	0.12	14	1.09	0.12	0.16	$ 0.05	443	1.63	1 07	7.39	1.71
1	308	Pumps - Replace 6-100 HP motor	Chemicals	4%	4%	$0.03	1.04	1.01	0.11	10	13.75	1.56	2.04	$ 0.13	1,165	0.62	0.44	14.65	1.71
1	309	Pumps - ASD (6-100 hp)	Chemicals	6%	1%	$0.00	1.04	0.98	0.12	10	22.80	0.26	3.78	$ 0.01	607	8.47	8.41	0.77	1.23
1	310	Pumps - Motor practices-1 (6-100 HP)	Chemicals	2%	2%	$0.01	1.05	1.03	0.12	10	6.18	0.70	0.92	$ 0.03	302	2.40	1.71	3.80	1.71
1	311	Pumps - Replace 100+ HP motor	Chemicals	3%	3%	$0.01	1.06	1.03	0.12	6	8.10	0.92	1.20	$ 0.07	583	1.24	0 98	4.86	1.71
1	312	Pumps - ASD (100+ hp)	Chemicals	6%	1%	$0.01	1.04	0.98	0.12	6	38.64	0.44	6.41	$ 0.02	2,047	2.51	2.76	1.73	1.23
1	313	Pumps - Motor practices-1 (100+ HP)	Chemicals	2%	2%	$0.00	1.04	1.03	0.12	6	10.11	1.15	1.50	$ 0.03	300	2.41	1 90	2.50	1.71
1	400	Base Drives	Chemicals	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	413	Clean Room - Controls	Chemicals	10%	10%	$0.02	1.10	0.99	0.11	10	14.34	1.63	2.13	$ 0.03	287	2.52	1 80	3.61	1.71
1	414	Clean Room - New Designs	Chemicals	30%	30%	$0.13	1.37	0.96	0.11	10	21.50	2.45	3.19	$ 0.05	460	1.57	1.12	5.79	1.71
1	415	Drives - Process Controls (batch + site)	Chemicals	8%	8%	$0.02	1.08	1.00	0.11	10	32.53	3.70	4.83	$ 0.05	397	1.82	1 30	4.99	1.71
1	416	Process Drives - ASD	Chemicals	1%	1%	$0.00	1.04	1.04	0.12	10	3.60	0.41	0.53	$ 0.05	421	1.72	1 23	5.29	1.71
1	500	Base Heating	Chemicals	0%	0%	$ -	1 04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	550	Base Refrigeration	Chemicals	0%	0%	$ -	1 04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Chemicals	0%	0%	$ -	1 04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	601	Other Process Controls (batch + site)	Chemicals	8%	8%	$0.02	1.08	1.00	0.11	10	22.32	2.54	3.31	$ 0.05	397	1.82	1 30	4.99	1.71
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Chemicals	0%	0%	$ -	1 04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Chemicals	12%	12%	$0.03	0.93	0.82	0.11	20	3.52	0.48	0.52	$ 0.03	208	3.02	1.70	5.03	1.78
1	702	Window Film - Chiller	Chemicals	10%	10%	$0.06	1.10	0.98	0.13	10	1.34	0.18	0.20	$ 0.08	606	1.04	0.71	9.15	1.78
1	703	EMS - Chiller	Chemicals	10%	10%	$0.09	1.08	0.97	0.13	10	2.15	0.29	0.32	$ 0.13	982	0.64	0.44	14.82	1.78
1	704	Cool Roof - Chiller	Chemicals	10%	10%	$0.16	1.08	0.98	0.13	10	0.96	0.13	0.14	$ 0.24	1,774	0.35	0 24	26.77	1.78
1	705	Chiller Tune Up/Diagnostics	Chemicals	8%	8%	$0.05	1.08	1.00	0.14	10	0.34	0.05	0.05	$ 0.10	722	0.87	0 60	10.90	1.78
1	706	Cooling Circ. Pumps - VSD	Chemicals	6%	6%	$0.10	1.06	0.99	0.14	15	1.12	0.15	0.17	$ 0.18	1,308	0.48	0 29	27.39	1.78
1	710	Base DX Packaged System, EER=10.3, 10 tons	Chemicals	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Chemicals	10%	10%	$0.07	1.10	0.99	0.13	3	8.78	1.20	1.30	$ 0.28	2,072	0.30	0 25	11.09	1.78
1	712	DX Packaged System, EER=10.9, 10 tons	Chemicals	6%	6%	$0.05	0.90	0.85	0.12	15	10.58	1.45	1.57	$ 0.11	775	0.81	0 50	16.23	1.78
1	713	Window Film - DX	Chemicals	10%	10%	$0.03	1.12	1.01	0.14	10	5.68	0.78	0.84	$ 0.05	346	1.82	1 24	5.22	1.78
1	714	Evaporative Pre-Cooler	Chemicals	10%	10%	$0.12	1.05	0.94	0.13	10	5.31	0.73	0.79	$ 0.18	1,315	0.48	0 33	19.85	1.78
1	715	Prog. Thermostat - DX	Chemicals	9%	3%	$0.00	1.10	1.00	0.15	10	7.26	0.27	1.18	$ 0.01	207	8.33	7 58	0.86	1.34
1	716	Cool Roof - DX	Chemicals	10%	10%	$0.09	1.08	0.98	0.13	10	6.82	0.93	1.01	$ 0.14	1,038	0.61	0.41	15.66	1.78
1	800	Base Lighting	Chemicals	0%	0%	$ -	1.04	1.04	0.12	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Chemicals	31%	31%	$0.10	1.05	0.72	0.08	15	19.46	2.21	2.89	$ 0.04	313	2.31	1.48	5.47	1.71
1	802	CFL Hardwired, Modular 36W	Chemicals	72%	72%	$0.10	1.04	0.29	0.03	4	0.38	0.04	0.06	$ 0.05	414	1.75	1.46	2.40	1.71
1	803	Metal Halide, 50W	Chemicals	58%	58%	$0.67	1.23	0.52	0.06	5	32.00	3.64	4.75	$ 0.27	2,351	0.31	0 25	16.62	1.71
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Chemicals	18%	20%	$0.05	1.05	0.86	0.10	9	3.12	0.39	0.51	$ 0.05	363	1.84	1 32	4.70	1.74
1	900	Base Other	Chemicals	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	100	Base Compressed Air	Petroleum	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Petroleum	17%	17%	$0.01	1.18	0.98	0.11	10	9.82	1.12	1.46	$ 0.01	73	9.95	7.10	0.92	1.71
1	102	Compressed Air - Controls	Petroleum	12%	12%	$0.02	1.14	1.01	0.11	10	5.50	0.63	0.82	$ 0.02	179	4.05	2 89	2.25	1.71
1	103	Compressed Air - System Optimization	Petroleum	20%	20%	$0.02	1.16	0.93	0.11	10	18.53	2.11	2.75	$ 0.01	99	7.33	5 22	1.24	1.71
1	104	Compressed Air- Sizing	Petroleum	9%	9%	$0.00	1.12	1.02	0.12	10	1.59	0.18	0.24	$ 0.01	64	11 29	8 05	0.81	1.71
1	105	Comp Air - Replace 1-5 HP motor	Petroleum	3%	3%	$0.05	1.05	1.02	0.12	14	0.20	0.02	0.03	$ 0.22	1,958	0.37	0 24	32.61	1.71
1	106	Comp Air - ASD (1-5 hp)	Petroleum	6%	1%	$0.08	1.04	0.98	0.12	14	0.46	0.01	0.08	$ 0.16	13,717	0.38	0 34	23.12	1.23
1	107	Comp Air - Motor practices-1 (1-5 HP)	Petroleum	5%	5%	$0.02	1.04	0.99	0.11	14	0.38	0.04	0.06	$ 0.05	456	1.59	1 04	7.60	1.71

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	108	Comp Air - Replace 6-100 HP motor	Petroleum	4%	4%	$0.03	1.05	1.02	0.12	10	1.34	0.15	0.20	$ 0.13	1,152	0.63	0.45	14.48	1.71
1	109	Comp Air - ASD (6-100 hp)	Petroleum	6%	1%	$0.00	1.04	0.98	0.12	10	9.17	0.11	1.52	$ 0.01	608	8.46	8.40	0.77	1.23
1	110	Comp Air - Motor practices-1 (6-100 HP)	Petroleum	2%	2%	$0.01	1.06	1.04	0.12	10	0.20	0.02	0.03	$ 0.03	299	2.42	1.73	3.76	1.71
1	111	Comp Air - Replace 100+ HP motor	Petroleum	3%	3%	$0.01	1.07	1.03	0.12	6	0.82	0.09	0.12	$ 0.07	581	1.25	0.98	4.84	1.71
1	112	Comp Air - ASD (100+ hp)	Petroleum	6%	1%	$0.01	1.06	1.00	0.12	6	5.78	0.07	0.96	$ 0.02	2,010	2.56	2.81	1.69	1.23
1	113	Comp Air - Motor practices-1 (100+ HP)	Petroleum	2%	2%	$0.00	1.05	1.03	0.12	6	0.96	0.11	0.14	$ 0.03	299	2.43	1.92	2.49	1.71
1	114	Power recovery	Petroleum	1%	1%	$0.00	1.04	1.03	0.12	10	1.44	0.16	0.21	$ 0.05	406	1.78	1.27	5.11	1.71
1	200	Base Fans	Petroleum	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Petroleum	2%	2%	$0.00	1.04	1.02	0.12	10	1.70	0.19	0.25	$ 0.01	68	10.72	7.64	0.85	1.71
1	202	Fans - Controls	Petroleum	30%	30%	$0.09	1.14	0.80	0.09	10	19.51	2.22	2.89	$ 0.04	388	1.87	1.33	4.88	1.71
1	203	Fans - System Optimization	Petroleum	20%	10%	$0.06	1.07	0.86	0.11	10	14.55	0.83	2.30	$ 0.05	803	1.51	1.28	5.08	1.45
1	204	Fans- Improve components	Petroleum	5%	5%	$0.01	1.06	1.01	0.11	10	3.46	0.39	0.51	$ 0.02	136	5.32	3.79	1.71	1.71
1	205	Fans - Replace 1-5 HP motor	Petroleum	3%	3%	$0.05	1.04	1.01	0.12	14	0.13	0.02	0.02	$ 0.22	1,964	0.37	0.24	32.71	1.71
1	206	Fans - ASD (1-5 hp)	Petroleum	6%	1%	$0.08	1.04	0.98	0.12	14	0.27	0.00	0.05	$ 0.16	13,715	0.38	0.34	23.12	1.23
1	207	Fans - Motor practices-1 (1-5 HP)	Petroleum	5%	5%	$0.02	1.04	0.99	0.11	14	0.23	0.03	0.03	$ 0.05	456	1.59	1.04	7.60	1.71
1	208	Fans - Replace 6-100 HP motor	Petroleum	3%	4%	$0.03	1.04	1.01	0.11	10	1.01	0.13	0.17	$ 0.15	1,163	0.57	0.40	16.21	1.74
1	209	Fans - ASD (6-100 hp)	Petroleum	3%	1%	$0.00	1.04	1.01	0.12	10	1.16	0.02	0.16	$ 0.01	606	5.05	5.13	1.27	1.20
1	210	Fans - Motor practices-1 (6-100 HP)	Petroleum	2%	2%	$0.01	1.04	1.02	0.12	10	0.77	0.09	0.11	$ 0.03	304	2.38	1.70	3.83	1.71
1	211	Fans - Replace 100+ HP motor	Petroleum	3%	3%	$0.01	1.04	1.01	0.12	6	1.73	0.20	0.26	$ 0.07	593	1.22	0.96	4.94	1.71
1	212	Fans - ASD (100+ hp)	Petroleum	5%	1%	$0.01	1.04	0.99	0.12	6	2.85	0.04	0.53	$ 0.03	2,041	2.20	2.47	1.93	1.21
1	213	Fans - Motor practices-1 (100+ HP)	Petroleum	1%	2%	$0.00	1.04	1.03	0.12	6	0.58	0.10	0.07	$ 0.05	300	1.79	1.24	3.84	1.95
1	215	Power recovery	Petroleum	1%	1%	$0.00	1.05	1.04	0.12	10	0.25	0.03	0.04	$ 0.05	404	1.79	1.28	5.08	1.71
1	300	Base Pumps	Petroleum	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Petroleum	10%	10%	$0.01	1.13	1.02	0.12	10	12.80	1.46	1.90	$ 0.01	63	11.42	8.14	0.80	1.71
1	302	Pumps - Controls	Petroleum	30%	30%	$0.03	1.41	0.98	0.11	10	36.60	4.16	5.43	$ 0.01	92	7.90	5.63	1.15	1.71
1	303	Pumps - System Optimization	Petroleum	33%	33%	$0.07	1.45	0.97	0.11	10	45.22	5.15	6.71	$ 0.02	198	3.66	2.61	2.49	1.71
1	304	Pumps - Sizing	Petroleum	20%	20%	$0.02	1.24	0.99	0.11	10	31.76	3.61	4.71	$ 0.01	116	6.27	4.47	1.45	1.71
1	305	Pumps - Replace 1-5 HP motor	Petroleum	3%	3%	$0.05	1.04	1.01	0.12	14	0.81	0.09	0.12	$ 0.22	1,959	0.37	0.24	32.63	1.71
1	306	Pumps - ASD (1-5 hp)	Petroleum	6%	1%	$0.08	1.04	0.98	0.12	14	1.83	0.02	0.30	$ 0.16	13,717	0.38	0.34	23.12	1.23
1	307	Pumps - Motor practices-1 (1-5 HP)	Petroleum	5%	5%	$0.02	1.07	1.02	0.12	14	0.64	0.07	0.09	$ 0.05	443	1.63	1.07	7.39	1.71
1	308	Pumps - Replace 6-100 HP motor	Petroleum	4%	4%	$0.03	1.04	1.01	0.11	10	8.07	0.92	1.20	$ 0.13	1,165	0.62	0.44	14.65	1.71
1	309	Pumps - ASD (6-100 hp)	Petroleum	6%	1%	$0.00	1.04	0.98	0.12	10	13.37	0.15	2.22	$ 0.01	607	8.47	8.41	0.77	1.23
1	310	Pumps - Motor practices-1 (6-100 HP)	Petroleum	2%	2%	$0.01	1.05	1.03	0.12	10	3.62	0.41	0.54	$ 0.03	302	2.40	1.71	3.80	1.71
1	311	Pumps - Replace 100+ HP motor	Petroleum	3%	3%	$0.01	1.06	1.03	0.12	6	4.75	0.54	0.70	$ 0.07	583	1.24	0.98	4.86	1.71
1	312	Pumps - ASD (100+ hp)	Petroleum	6%	1%	$0.01	1.04	0.98	0.12	6	22.67	0.26	3.76	$ 0.02	2,047	2.51	2.76	1.73	1.23
1	313	Pumps - Motor practices-1 (100+ HP)	Petroleum	2%	2%	$0.00	1.04	1.03	0.12	6	5.93	0.67	0.88	$ 0.03	300	2.41	1.90	2.50	1.71
1	314	Power recovery	Petroleum	1%	1%	$0.00	1.05	1.04	0.12	10	1.68	0.19	0.25	$ 0.05	404	1.79	1.28	5.08	1.71
1	400	Base Drives	Petroleum	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Heating	Petroleum	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	550	Base Refrigeration	Petroleum	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Petroleum	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	602	Efficient desalter	Petroleum	20%	20%	$0.04	1.16	0.93	0.11	10	0.84	0.10	0.12	$ 0.03	248	2.92	2.08	3.12	1.71
1	606	Power recovery	Petroleum	1%	1%	$0.00	1.05	1.04	0.12	10	0.02	0.00	0.00	$ 0.05	404	1.79	1.28	5.08	1.71
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Petroleum	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Petroleum	12%	12%	$0.03	0.93	0.82	0.11	20	0.67	0.09	0.10	$ 0.03	208	3.02	1.70	5.03	1.78
1	702	Window Film - Chiller	Petroleum	10%	10%	$0.06	1.10	0.98	0.13	10	0.25	0.03	0.04	$ 0.08	606	1.04	0.71	9.15	1.78
1	703	EMS - Chiller	Petroleum	10%	10%	$0.09	1.08	0.97	0.13	10	0.41	0.06	0.06	$ 0.13	982	0.64	0.44	14.82	1.78
1	704	Cool Roof - Chiller	Petroleum	10%	10%	$0.16	1.08	0.98	0.13	10	0.18	0.02	0.03	$ 0.24	1,774	0.35	0.24	26.77	1.78
1	705	Chiller Tune Up/Diagnostics	Petroleum	8%	8%	$0.05	1.08	1.00	0.14	10	0.06	0.01	0.01	$ 0.10	722	0.87	0.60	10.90	1.78
1	706	Cooling Circ. Pumps - VSD	Petroleum	6%	6%	$0.10	1.06	0.99	0.14	15	0.21	0.03	0.03	$ 0.18	1,308	0.48	0.29	27.39	1.78
1	710	Base DX Packaged System, EER=10.3, 10 tons	Petroleum	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Petroleum	10%	10%	$0.07	1.10	0.99	0.13	3	1.66	0.23	0.25	$ 0.28	2,072	0.30	0.25	11.09	1.78
1	712	DX Packaged System, EER=10.9, 10 tons	Petroleum	6%	6%	$0.05	0.90	0.85	0.12	15	2.00	0.27	0.30	$ 0.11	775	0.81	0.50	16.23	1.78
1	713	Window Film - DX	Petroleum	10%	10%	$0.03	1.12	1.01	0.14	10	1.07	0.15	0.16	$ 0.05	346	1.82	1.24	5.22	1.78
1	714	Evaporative Pre-Cooler	Petroleum	10%	10%	$0.12	1.05	0.94	0.13	10	1.00	0.14	0.15	$ 0.18	1,315	0.48	0.33	19.85	1.78
1	715	Prog. Thermostat - DX	Petroleum	9%	3%	$0.00	1.10	1.00	0.15	10	1.37	0.05	0.22	$ 0.01	207	8.33	7.58	0.86	1.34
1	716	Cool Roof - DX	Petroleum	10%	10%	$0.09	1.08	0.98	0.13	10	1.29	0.18	0.19	$ 0.14	1,038	0.61	0.41	15.66	1.78
1	800	Base Lighting	Petroleum	0%	0%	$ -	1.04	1.04	0.12	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Petroleum	31%	31%	$0.10	1.05	0.72	0.08	15	3.86	0.44	0.57	$ 0.04	313	2.31	1.48	5.47	1.71
1	802	CFL Hardwired, Modular 36W	Petroleum	72%	72%	$0.10	1.04	0.29	0.03	4	0.08	0.01	0.01	$ 0.05	414	1.75	1.46	2.40	1.71
1	803	Metal Halide, 50W	Petroleum	58%	58%	$0.67	1.23	0.52	0.06	5	6.35	0.72	0.94	$ 0.27	2,351	0.31	0.25	16.62	1.71
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Petroleum	18%	20%	$0.05	1.05	0.86	0.10	9	0.62	0.08	0.10	$ 0.05	363	1.84	1.32	4.70	1.74

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	900	Base Other	Petroleum	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Petroleum	0%	0%	$0.00	1.04	1.04	0.12	5	0.00	0.00	0.00	$ 0.05	402	1.80	1.46	2.84	1.71
1	100	Base Compressed Air	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Rubber-Plastics	17%	17%	$0.01	1.18	0.98	0.13	10	1.49	0.20	0.20	$ 0.01	60	10 63	7.10	0.92	1.83
1	102	Compressed Air - Controls	Rubber-Plastics	12%	12%	$0.02	1.14	1.01	0.14	10	0.83	0.11	0.11	$ 0.02	148	4.32	2 89	2.25	1.83
1	103	Compressed Air - System Optimization	Rubber-Plastics	20%	20%	$0.02	1.16	0.93	0.13	10	2.81	0.39	0.38	$ 0.01	82	7.82	5 22	1.24	1.83
1	104	Compressed Air- Sizing	Rubber-Plastics	9%	9%	$0.00	1.12	1.02	0.14	10	0.24	0.03	0.03	$ 0.01	53	12 05	8 05	0.81	1.83
1	105	Comp Air - Replace 1-5 HP motor	Rubber-Plastics	3%	3%	$0.05	1.05	1.02	0.14	14	0.03	0.00	0.00	$ 0.22	1,617	0.40	0 24	32.61	1.83
1	106	Comp Air - ASD (1-5 hp)	Rubber-Plastics	6%	1%	$0.08	1.04	0.98	0.14	14	0.07	0.00	0.01	$ 0.16	11,329	0.38	0 34	23.48	1.26
1	107	Comp Air - Motor practices-1 (1-5 HP)	Rubber-Plastics	5%	5%	$0.02	1.04	0.99	0.14	14	0.06	0.01	0.01	$ 0.05	377	1.69	1 04	7.60	1.83
1	108	Comp Air - Replace 6-100 HP motor	Rubber-Plastics	4%	4%	$0.03	1.05	1.02	0.14	10	0.20	0.03	0.03	$ 0.13	951	0.67	0.45	14.48	1.83
1	109	Comp Air - ASD (6-100 hp)	Rubber-Plastics	6%	1%	$0.00	1.04	0.98	0.14	10	1.37	0.02	0.21	$ 0.01	502	8.54	8 27	0.79	1.26
1	110	Comp Air - Motor practices-1 (6-100 HP)	Rubber-Plastics	2%	2%	$0.01	1.06	1.04	0.14	10	0.03	0.00	0.00	$ 0.03	247	2.59	1.73	3.76	1.83
1	111	Comp Air - Replace 100+ HP motor	Rubber-Plastics	3%	3%	$0.01	1.07	1.03	0.14	6	0.12	0.02	0.02	$ 0.07	480	1.33	0 98	4.84	1.83
1	112	Comp Air - ASD (100+ hp)	Rubber-Plastics	6%	1%	$0.01	1.06	1.00	0.15	6	0.86	0.01	0.13	$ 0.02	1,660	2.58	2.77	1.72	1.26
1	113	Comp Air - Motor practices-1 (100+ HP)	Rubber-Plastics	2%	2%	$0.00	1.05	1.03	0.14	6	0.14	0.02	0.02	$ 0.03	247	2.59	1 92	2.49	1.83
1	200	Base Fans	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Rubber-Plastics	2%	2%	$0.00	1.04	1.02	0.14	10	0.81	0.11	0.11	$ 0.01	56	11.44	7 64	0.85	1.83
1	202	Fans - Controls	Rubber-Plastics	30%	30%	$0.09	1.14	0.80	0.11	10	9.32	1.28	1.26	$ 0.04	320	1.99	1 33	4.88	1.83
1	203	Fans - System Optimization	Rubber-Plastics	20%	10%	$0.06	1.07	0.86	0.13	10	6.89	0.48	1.00	$ 0.05	663	1.58	1 27	5.13	1.52
1	204	Fans- Improve components	Rubber-Plastics	5%	5%	$0.01	1.06	1.01	0.14	10	1.65	0.23	0.22	$ 0.02	112	5.68	3.79	1.71	1.83
1	205	Fans - Replace 1-5 HP motor	Rubber-Plastics	3%	3%	$0.05	1.04	1.01	0.14	14	0.06	0.01	0.01	$ 0.22	1,622	0.39	0 24	32.71	1.83
1	206	Fans - ASD (1-5 hp)	Rubber-Plastics	6%	1%	$0.08	1.04	0.98	0.14	14	0.13	0.00	0.02	$ 0.16	11,327	0.38	0 34	23.48	1.26
1	207	Fans - Motor practices-1 (1-5 HP)	Rubber-Plastics	5%	5%	$0.02	1.04	0.99	0.14	14	0.11	0.02	0.01	$ 0.05	377	1.69	1 04	7.60	1.83
1	208	Fans - Replace 6-100 HP motor	Rubber-Plastics	3%	4%	$0.03	1.04	1.01	0.14	10	0.47	0.07	0.07	$ 0.15	960	0.60	0 39	16.72	1.89
1	209	Fans - ASD (6-100 hp)	Rubber-Plastics	3%	1%	$0.00	1.04	1.01	0.14	10	0.52	0.01	0.07	$ 0.01	501	4.85	4 83	1.35	1.23
1	210	Fans - Motor practices-1 (6-100 HP)	Rubber-Plastics	2%	2%	$0.01	1.04	1.02	0.14	10	0.37	0.05	0.05	$ 0.03	251	2.54	1.70	3.83	1.83
1	211	Fans - Replace 100+ HP motor	Rubber-Plastics	3%	3%	$0.01	1.04	1.01	0.14	6	0.82	0.11	0.11	$ 0.07	490	1.30	0 96	4.94	1.83
1	212	Fans - ASD (100+ hp)	Rubber-Plastics	5%	1%	$0.01	1.04	0.99	0.14	6	1.29	0.02	0.23	$ 0.03	1,686	2.14	2 34	2.04	1.24
1	213	Fans - Motor practices-1 (100+ HP)	Rubber-Plastics	1%	2%	$0.00	1.04	1.03	0.14	6	0.27	0.06	0.03	$ 0.05	248	1.90	1 21	3.95	2.13
1	300	Base Pumps	Rubber-Plastics	0%	0%	$ -	1 04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Rubber-Plastics	10%	10%	$0.01	1.13	1.02	0.14	10	1.20	0.17	0.16	$ 0.01	52	12.19	8.14	0.80	1.83
1	302	Pumps - Controls	Rubber-Plastics	30%	30%	$0.03	1.41	0.98	0.14	10	3.44	0.47	0.46	$ 0.01	76	8.43	5 63	1.15	1.83
1	303	Pumps - System Optimization	Rubber-Plastics	33%	33%	$0.07	1.45	0.97	0.13	10	4.25	0.59	0.57	$ 0.02	164	3.90	2 61	2.49	1.83
1	304	Pumps - Sizing	Rubber-Plastics	20%	20%	$0.02	1.24	0.99	0.14	10	2.98	0.41	0.40	$ 0.01	96	6.69	4.47	1.45	1.83
1	305	Pumps - Replace 1-5 HP motor	Rubber-Plastics	3%	3%	$0.05	1.04	1.01	0.14	14	0.08	0.01	0.01	$ 0.22	1,618	0.39	0 24	32.63	1.83
1	306	Pumps - ASD (1-5 hp)	Rubber-Plastics	6%	1%	$0.08	1.04	0.98	0.14	14	0.17	0.00	0.03	$ 0.16	11,329	0.38	0 34	23.48	1.26
1	307	Pumps - Motor practices-1 (1-5 HP)	Rubber-Plastics	5%	5%	$0.02	1.07	1.02	0.14	14	0.06	0.01	0.01	$ 0.05	366	1.74	1 07	7.39	1.83
1	308	Pumps - Replace 6-100 HP motor	Rubber-Plastics	4%	4%	$0.03	1.04	1.01	0.14	10	0.76	0.10	0.10	$ 0.13	962	0.66	0.44	14.65	1.83
1	309	Pumps - ASD (6-100 hp)	Rubber-Plastics	6%	1%	$0.00	1.04	0.98	0.14	10	1.24	0.02	0.19	$ 0.01	502	8.55	8 28	0.78	1.26
1	310	Pumps - Motor practices-1 (6-100 HP)	Rubber-Plastics	2%	2%	$0.01	1.05	1.03	0.14	10	0.34	0.05	0.05	$ 0.03	250	2.56	1.71	3.80	1.83
1	311	Pumps - Replace 100+ HP motor	Rubber-Plastics	3%	3%	$0.01	1.06	1.03	0.14	6	0.45	0.06	0.06	$ 0.07	481	1.33	0 98	4.86	1.83
1	312	Pumps - ASD (100+ hp)	Rubber-Plastics	6%	1%	$0.01	1.04	0.98	0.14	6	2.10	0.03	0.32	$ 0.02	1,691	2.54	2.72	1.75	1.26
1	313	Pumps - Motor practices-1 (100+ HP)	Rubber-Plastics	2%	2%	$0.00	1.04	1.03	0.14	6	0.56	0.08	0.08	$ 0.03	248	2.58	1 90	2.50	1.83
1	400	Base Drives	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	417	O&M - Extruders/Injection Moulding	Rubber-Plastics	10%	10%	$0.01	1.09	0.98	0.13	12	13.46	1.85	1.82	$ 0.01	46	13.74	8 80	0.83	1.83
1	418	Extruders/injection Moulding-multipump	Rubber-Plastics	30%	30%	$0.10	1.11	0.78	0.11	12	57.06	7.86	7.71	$ 0.04	299	2.14	1 37	5.35	1.83
1	419	Direct drive Extruders	Rubber-Plastics	50%	50%	$0.31	1.09	0.55	0.08	12	42.89	5.91	5.79	$ 0.08	567	1.13	0.72	10.15	1.83
1	420	Injection Moulding - Impulse Cooling	Rubber-Plastics	21%	21%	$0.07	1.08	0.85	0.12	12	18.34	2.53	2.48	$ 0.04	308	2.07	1 33	5.52	1.83
1	421	Injection Moulding - Direct drive	Rubber-Plastics	20%	20%	$0.10	1.06	0.85	0.12	12	19.16	2.64	2.59	$ 0.06	458	1.39	0 89	8.20	1.83
1	500	Base Heating	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	550	Base Refrigeration	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Rubber-Plastics	12%	12%	$0.03	0.93	0.82	0.14	20	4.46	0.74	0.60	$ 0.03	172	3.25	1.70	5.03	1.91
1	702	Window Film - Chiller	Rubber-Plastics	10%	10%	$0.06	1.10	0.98	0.16	10	1.70	0.28	0.23	$ 0.08	501	1.11	0.71	9.15	1.91
1	703	EMS - Chiller	Rubber-Plastics	10%	10%	$0.09	1.08	0.97	0.16	10	2.72	0.45	0.37	$ 0.13	811	0.69	0.44	14.82	1.91
1	704	Cool Roof - Chiller	Rubber-Plastics	10%	10%	$0.16	1.08	0.98	0.16	10	1.22	0.20	0.16	$ 0.24	1,465	0.38	0 24	26.77	1.91
1	705	Chiller Tune Up/Diagnostics	Rubber-Plastics	8%	8%	$0.05	1.08	1.00	0.16	10	0.43	0.07	0.06	$ 0.10	596	0.93	0 60	10.90	1.91
1	706	Cooling Circ. Pumps - VSD	Rubber-Plastics	6%	6%	$0.10	1.06	0.99	0.16	15	1.42	0.23	0.19	$ 0.18	1,080	0.52	0 29	27.39	1.91
1	710	Base DX Packaged System, EER=10.3, 10 tons	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.17	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Rubber-Plastics	10%	10%	$0.07	1.10	0.99	0.16	3	1.41	0.23	0.19	$ 0.28	1,711	0.33	0 25	11.09	1.91

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	712	DX Packaged System, EER=10.9, 10 tons	Rubber-Plastics	6%	6%	$0.05	0.90	0.85	0.14	15	1.70	0.28	0.23	$ 0.11	640	0.87	0 50	16.23	1.91
1	713	Window Film - DX	Rubber-Plastics	10%	10%	$0.03	1.12	1.01	0.17	10	0.91	0.15	0.12	$ 0.05	286	1.95	1 24	5.22	1.91
1	714	Evaporative Pre-Cooler	Rubber-Plastics	10%	10%	$0.12	1.05	0.94	0.16	10	0.85	0.14	0.12	$ 0.18	1,086	0.51	0 33	19.85	1.91
1	715	Prog. Thermostat - DX	Rubber-Plastics	9%	3%	$0.00	1.10	1.00	0.18	10	1.15	0.05	0.17	$ 0.01	171	8.55	7.48	0.87	1.39
1	716	Cool Roof - DX	Rubber-Plastics	10%	10%	$0.09	1.08	0.98	0.16	10	1.09	0.18	0.15	$ 0.14	857	0.65	0.41	15.66	1.91
1	800	Base Lighting	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Rubber-Plastics	31%	31%	$0.10	1.05	0.72	0.10	15	7.81	1.08	1.05	$ 0.04	259	2.47	1.48	5.47	1.83
1	802	CFL Hardwired, Modular 36W	Rubber-Plastics	72%	72%	$0.10	1.04	0.29	0.04	4	0.15	0.02	0.02	$ 0.05	342	1.87	1.46	2.40	1.83
1	803	Metal Halide, 50W	Rubber-Plastics	58%	58%	$0.67	1.23	0.52	0.07	5	12.39	1.71	1.67	$ 0.27	1,942	0.33	0 25	16.62	1.83
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Rubber-Plastics	17%	20%	$0.05	1.05	0.86	0.12	9	1.17	0.18	0.18	$ 0.05	300	1.93	1 28	4.85	1.89
1	900	Base Other	Rubber-Plastics	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Rubber-Plastics	0%	0%	$0.00	1.04	1.04	0.14	5	0.00	0.00	0.00	$ 0.05	332	1.92	1.46	2.84	1.83
1	100	Base Compressed Air	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Stone-Clay-Glass	17%	17%	$0.01	1.18	0.98	0.11	10	2.59	0.29	0.29	$ 0.01	74	9.91	7.10	0.92	1.70
1	102	Compressed Air - Controls	Stone-Clay-Glass	12%	12%	$0.02	1.14	1.01	0.11	10	1.45	0.16	0.16	$ 0.02	182	4.03	2 89	2.25	1.70
1	103	Compressed Air - System Optimization	Stone-Clay-Glass	20%	20%	$0.02	1.16	0.93	0.10	10	4.88	0.54	0.55	$ 0.01	101	7.30	5 22	1.24	1.70
1	104	Compressed Air- Sizing	Stone-Clay-Glass	9%	9%	$0.00	1.12	1.02	0.11	10	0.42	0.05	0.05	$ 0.01	65	11 24	8 05	0.81	1.70
1	105	Comp Air - Replace 1-5 HP motor	Stone-Clay-Glass	3%	3%	$0.05	1.05	1.02	0.11	14	0.05	0.01	0.01	$ 0.22	1,995	0.37	0 24	32.61	1.70
1	106	Comp Air - ASD (1-5 hp)	Stone-Clay-Glass	6%	1%	$0.08	1.04	0.98	0.12	14	0.12	0.00	0.02	$ 0.16	13,976	0.38	0 34	22.91	1.24
1	107	Comp Air - Motor practices-1 (1-5 HP)	Stone-Clay-Glass	5%	5%	$0.02	1.04	0.99	0.11	14	0.10	0.01	0.01	$ 0.05	465	1.58	1 04	7.60	1.70
1	108	Comp Air - Replace 6-100 HP motor	Stone-Clay-Glass	3%	4%	$0.03	1.05	1.02	0.11	10	0.35	0.04	0.04	$ 0.13	1,173	0.63	0.45	14.48	1.70
1	109	Comp Air - ASD (6-100 hp)	Stone-Clay-Glass	6%	1%	$0.00	1.04	0.98	0.12	10	2.44	0.03	0.31	$ 0.01	619	8.63	8.47	0.77	1.24
1	110	Comp Air - Motor practices-1 (6-100 HP)	Stone-Clay-Glass	2%	2%	$0.01	1.06	1.04	0.12	10	0.05	0.01	0.01	$ 0.03	304	2.41	1.73	3.76	1.70
1	111	Comp Air - Replace 100+ HP motor	Stone-Clay-Glass	3%	3%	$0.01	1.07	1.03	0.12	6	0.22	0.02	0.02	$ 0.07	592	1.24	0 98	4.84	1.70
1	112	Comp Air - ASD (100+ hp)	Stone-Clay-Glass	6%	1%	$0.01	1.06	1.00	0.12	6	1.54	0.02	0.19	$ 0.02	2,047	2.61	2 84	1.68	1.24
1	113	Comp Air - Motor practices-1 (100+ HP)	Stone-Clay-Glass	1%	2%	$0.00	1.05	1.03	0.12	6	0.25	0.03	0.03	$ 0.03	304	2.42	1 92	2.49	1.70
1	200	Base Fans	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Stone-Clay-Glass	2%	2%	$0.00	1.04	1.02	0.11	10	1.75	0.20	0.20	$ 0.01	69	10 67	7 64	0.85	1.70
1	202	Fans - Controls	Stone-Clay-Glass	30%	30%	$0.09	1.14	0.80	0.09	10	20.12	2.25	2.27	$ 0.04	395	1.86	1 33	4.88	1.70
1	203	Fans - System Optimization	Stone-Clay-Glass	20%	10%	$0.06	1.07	0.86	0.11	10	15.08	0.84	1.81	$ 0.05	818	1.53	1 29	5.05	1.45
1	204	Fans- Improve components	Stone-Clay-Glass	5%	5%	$0.01	1.06	1.01	0.11	10	3.57	0.40	0.40	$ 0.02	139	5.30	3.79	1.71	1.70
1	205	Fans - Replace 1-5 HP motor	Stone-Clay-Glass	3%	3%	$0.05	1.04	1.01	0.11	14	0.14	0.02	0.02	$ 0.22	2,001	0.37	0 24	32.71	1.70
1	206	Fans - ASD (1-5 hp)	Stone-Clay-Glass	6%	1%	$0.08	1.04	0.98	0.12	14	0.29	0.00	0.04	$ 0.16	13,973	0.38	0 34	22.91	1.24
1	207	Fans - Motor practices-1 (1-5 HP)	Stone-Clay-Glass	5%	5%	$0.02	1.04	0.99	0.11	14	0.24	0.03	0.03	$ 0.05	465	1.58	1 04	7.60	1.70
1	208	Fans - Replace 6-100 HP motor	Stone-Clay-Glass	3%	4%	$0.03	1.04	1.01	0.11	10	1.02	0.13	0.13	$ 0.15	1,185	0.56	0 39	16.62	1.74
1	209	Fans - ASD (6-100 hp)	Stone-Clay-Glass	4%	1%	$0.00	1.04	1.01	0.12	10	1.21	0.02	0.12	$ 0.01	618	5.10	5.19	1.25	1.20
1	210	Fans - Motor practices-1 (6-100 HP)	Stone-Clay-Glass	2%	2%	$0.01	1.04	1.02	0.11	10	0.79	0.09	0.09	$ 0.03	310	2.37	1.70	3.83	1.70
1	211	Fans - Replace 100+ HP motor	Stone-Clay-Glass	3%	3%	$0.01	1.04	1.01	0.11	6	1.78	0.20	0.20	$ 0.07	604	1.22	0 96	4.94	1.70
1	212	Fans - ASD (100+ hp)	Stone-Clay-Glass	5%	1%	$0.01	1.04	0.99	0.12	6	2.88	0.04	0.42	$ 0.03	2,079	2.18	2.42	1.97	1.22
1	213	Fans - Motor practices-1 (100+ HP)	Stone-Clay-Glass	1%	2%	$0.00	1.04	1.03	0.11	6	0.60	0.10	0.05	$ 0.05	306	1.75	1 24	3.85	1.92
1	300	Base Pumps	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Stone-Clay-Glass	10%	10%	$0.01	1.13	1.02	0.11	10	2.51	0.28	0.28	$ 0.01	65	11 37	8.14	0.80	1.70
1	302	Pumps - Controls	Stone-Clay-Glass	30%	30%	$0.03	1.41	0.98	0.11	10	7.19	0.80	0.81	$ 0.01	93	7.86	5 63	1.15	1.70
1	303	Pumps - System Optimization	Stone-Clay-Glass	33%	33%	$0.07	1.45	0.97	0.11	10	8.88	0.99	1.00	$ 0.02	202	3.64	2 61	2.49	1.70
1	304	Pumps - Sizing	Stone-Clay-Glass	20%	20%	$0.02	1.24	0.99	0.11	10	6.24	0.70	0.70	$ 0.01	118	6.24	4.47	1.45	1.70
1	305	Pumps - Replace 1-5 HP motor	Stone-Clay-Glass	3%	3%	$0.05	1.04	1.01	0.11	14	0.16	0.02	0.02	$ 0.22	1,996	0.37	0 24	32.63	1.70
1	306	Pumps - ASD (1-5 hp)	Stone-Clay-Glass	6%	1%	$0.08	1.04	0.98	0.12	14	0.36	0.00	0.05	$ 0.16	13,976	0.38	0 34	22.91	1.24
1	307	Pumps - Motor practices-1 (1-5 HP)	Stone-Clay-Glass	5%	5%	$0.02	1.07	1.02	0.11	14	0.13	0.01	0.01	$ 0.05	452	1.63	1 07	7.39	1.70
1	308	Pumps - Replace 6-100 HP motor	Stone-Clay-Glass	3%	4%	$0.03	1.04	1.01	0.11	10	1.58	0.18	0.18	$ 0.13	1,187	0.62	0.44	14.65	1.70
1	309	Pumps - ASD (6-100 hp)	Stone-Clay-Glass	6%	1%	$0.00	1.04	0.98	0.12	10	2.65	0.03	0.33	$ 0.01	619	8.64	8.48	0.77	1.24
1	310	Pumps - Motor practices-1 (6-100 HP)	Stone-Clay-Glass	2%	2%	$0.01	1.05	1.03	0.11	10	0.71	0.08	0.08	$ 0.03	308	2.39	1.71	3.80	1.70
1	311	Pumps - Replace 100+ HP motor	Stone-Clay-Glass	3%	3%	$0.01	1.06	1.03	0.11	6	0.93	0.10	0.11	$ 0.07	594	1.24	0 98	4.86	1.70
1	312	Pumps - ASD (100+ hp)	Stone-Clay-Glass	6%	1%	$0.01	1.04	0.98	0.12	6	4.49	0.05	0.56	$ 0.02	2,086	2.56	2.79	1.71	1.24
1	313	Pumps - Motor practices-1 (100+ HP)	Stone-Clay-Glass	1%	2%	$0.00	1.04	1.03	0.11	6	1.16	0.13	0.13	$ 0.03	306	2.40	1 90	2.50	1.70
1	400	Base Drives	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	405	Drives - EE motor	Stone-Clay-Glass	3%	4%	$0.01	1.05	1.02	0.11	10	2.42	0.27	0.27	$ 0.02	208	3.54	2 53	2.56	1.70
1	415	Drives - Process Controls (batch + site)	Stone-Clay-Glass	2%	2%	$0.02	1.05	1.03	0.12	10	1.50	0.17	0.17	$ 0.19	1,669	0.44	0 32	20.60	1.70
1	422	Efficient grinding	Stone-Clay-Glass	21%	21%	$0.23	1.25	0.99	0.11	15	7.50	0.84	0.85	$ 0.10	925	0.79	0 51	15.85	1.70
1	423	Process control	Stone-Clay-Glass	2%	2%	$0.00	1.05	1.03	0.12	10	1.50	0.17	0.17	$ 0.02	137	5.37	3 85	1.69	1.70
1	424	Process optimization	Stone-Clay-Glass	10%	10%	$0.03	1.13	1.01	0.11	10	1.00	0.11	0.11	$ 0.04	390	1.89	1 35	4.81	1.70
1	500	Base Heating	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	504	Top-heating (glass)	Stone-Clay-Glass	4%	4%	$0.00	1.06	1.02	0.11	8	2.78	0.31	0.31	$ 0.02	164	4.49	3 38	1.71	1.70

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	550	Base Refrigeration	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Stone-Clay-Glass	12%	12%	$0.03	0.93	0.82	0.11	20	0.64	0.09	0.07	$ 0.03	212	3.01	1.70	5.03	1.77
1	702	Window Film - Chiller	Stone-Clay-Glass	10%	10%	$0.06	1.10	0.98	0.13	10	0.24	0.03	0.03	$ 0.08	618	1.03	0.71	9.15	1.77
1	703	EMS - Chiller	Stone-Clay-Glass	10%	10%	$0.09	1.08	0.97	0.13	10	0.39	0.05	0.04	$ 0.13	1,001	0.64	0.44	14.82	1.77
1	704	Cool Roof - Chiller	Stone-Clay-Glass	10%	10%	$0.16	1.08	0.98	0.13	10	0.17	0.02	0.02	$ 0.24	1,808	0.35	0 24	26.77	1.77
1	705	Chiller Tune Up/Diagnostics	Stone-Clay-Glass	8%	8%	$0.05	1.08	1.00	0.13	10	0.06	0.01	0.01	$ 0.10	736	0.87	0 60	10.90	1.77
1	706	Cooling Circ. Pumps - VSD	Stone-Clay-Glass	6%	6%	$0.10	1.06	0.99	0.13	15	0.20	0.03	0.02	$ 0.18	1,332	0.48	0 29	27.39	1.77
1	710	Base DX Packaged System, EER=10.3, 10 tons	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Stone-Clay-Glass	10%	10%	$0.07	1.10	0.99	0.13	3	1.59	0.21	0.18	$ 0.28	2,111	0.30	0 25	11.09	1.77
1	712	DX Packaged System, EER=10.9, 10 tons	Stone-Clay-Glass	6%	6%	$0.05	0.90	0.85	0.11	15	1.92	0.26	0.22	$ 0.11	790	0.81	0 50	16.23	1.77
1	713	Window Film - DX	Stone-Clay-Glass	10%	10%	$0.03	1.12	1.01	0.13	10	1.03	0.14	0.12	$ 0.05	353	1.81	1 24	5.22	1.77
1	714	Evaporative Pre-Cooler	Stone-Clay-Glass	10%	10%	$0.12	1.05	0.94	0.13	10	0.96	0.13	0.11	$ 0.18	1,340	0.48	0 33	19.85	1.77
1	715	Prog. Thermostat - DX	Stone-Clay-Glass	9%	3%	$0.00	1.10	1.00	0.14	10	1.33	0.05	0.16	$ 0.01	211	8.45	7 64	0.85	1.35
1	716	Cool Roof - DX	Stone-Clay-Glass	10%	10%	$0.09	1.08	0.98	0.13	10	1.24	0.17	0.14	$ 0.14	1,057	0.60	0.41	15.66	1.77
1	800	Base Lighting	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Stone-Clay-Glass	31%	31%	$0.10	1.05	0.72	0.08	15	3.73	0.42	0.42	$ 0.04	319	2.30	1.48	5.47	1.70
1	802	CFL Hardwired, Modular 36W	Stone-Clay-Glass	72%	72%	$0.10	1.04	0.29	0.03	4	0.09	0.01	0.01	$ 0.05	422	1.74	1.46	2.40	1.70
1	803	Metal Halide, 50W	Stone-Clay-Glass	58%	58%	$0.67	1.23	0.52	0.06	5	7.68	0.86	0.87	$ 0.27	2,395	0.31	0 25	16.62	1.70
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Stone-Clay-Glass	18%	20%	$0.05	1.05	0.86	0.09	9	0.73	0.09	0.09	$ 0.05	370	1.79	1 28	4.82	1.74
1	900	Base Other	Stone-Clay-Glass	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Stone-Clay-Glass	0%	0%	$0.00	1.04	1.04	0.12	5	0.00	0.00	0.00	$ 0.05	410	1.80	1.46	2.84	1.70
1	100	Base Compressed Air	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Prim Metals	17%	17%	$0.01	1.18	0.98	0.14	10	5.60	0.80	0.71	$ 0.01	58	10 88	7.10	0.92	1.87
1	102	Compressed Air - Controls	Prim Metals	12%	12%	$0.02	1.14	1.01	0.14	10	3.13	0.45	0.40	$ 0.02	143	4.43	2 89	2.25	1.87
1	103	Compressed Air - System Optimization	Prim Metals	20%	20%	$0.02	1.16	0.93	0.13	10	10.56	1.51	1.35	$ 0.01	79	8.01	5 22	1.24	1.87
1	104	Compressed Air- Sizing	Prim Metals	9%	9%	$0.00	1.12	1.02	0.15	10	0.90	0.13	0.12	$ 0.01	51	12 34	8 05	0.81	1.87
1	105	Comp Air - Replace 1-5 HP motor	Prim Metals	3%	3%	$0.05	1.05	1.02	0.14	14	0.11	0.02	0.01	$ 0.22	1,562	0.40	0 24	32.61	1.87
1	106	Comp Air - ASD (1-5 hp)	Prim Metals	6%	1%	$0.08	1.04	0.98	0.15	14	0.26	0.00	0.04	$ 0.16	10,946	0.38	0 33	23.64	1.29
1	107	Comp Air - Motor practices-1 (1-5 HP)	Prim Metals	5%	5%	$0.02	1.04	0.99	0.14	14	0.22	0.03	0.03	$ 0.05	364	1.74	1 04	7.60	1.87
1	108	Comp Air - Replace 6-100 HP motor	Prim Metals	3%	4%	$0.03	1.05	1.02	0.15	10	0.77	0.11	0.10	$ 0.13	919	0.69	0.45	14.48	1.87
1	109	Comp Air - ASD (6-100 hp)	Prim Metals	6%	1%	$0.00	1.04	0.98	0.15	10	5.12	0.08	0.75	$ 0.01	485	8.66	8 21	0.79	1.29
1	110	Comp Air - Motor practices-1 (6-100 HP)	Prim Metals	2%	2%	$0.01	1.06	1.04	0.15	10	0.12	0.02	0.01	$ 0.03	238	2.65	1.73	3.76	1.87
1	111	Comp Air - Replace 100+ HP motor	Prim Metals	3%	3%	$0.01	1.07	1.03	0.15	6	0.47	0.07	0.06	$ 0.07	463	1.36	0 98	4.84	1.87
1	112	Comp Air - ASD (100+ hp)	Prim Metals	6%	1%	$0.01	1.06	1.00	0.15	6	3.22	0.05	0.47	$ 0.02	1,604	2.62	2.75	1.73	1.29
1	113	Comp Air - Motor practices-1 (100+ HP)	Prim Metals	1%	2%	$0.00	1.05	1.03	0.15	6	0.55	0.08	0.07	$ 0.03	238	2.65	1 92	2.49	1.87
1	200	Base Fans	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Prim Metals	2%	2%	$0.00	1.04	1.02	0.15	10	3.79	0.54	0.48	$ 0.01	54	11.72	7 64	0.85	1.87
1	202	Fans - Controls	Prim Metals	30%	30%	$0.09	1.14	0.80	0.11	10	43.57	6.21	5.55	$ 0.04	310	2.04	1 33	4.88	1.87
1	203	Fans - System Optimization	Prim Metals	20%	10%	$0.06	1.07	0.86	0.14	10	32.09	2.33	4.41	$ 0.05	641	1.61	1 26	5.14	1.55
1	204	Fans- Improve components	Prim Metals	5%	5%	$0.01	1.06	1.01	0.14	10	7.73	1.10	0.98	$ 0.02	109	5.82	3.79	1.71	1.87
1	205	Fans - Replace 1-5 HP motor	Prim Metals	3%	3%	$0.05	1.04	1.01	0.14	14	0.30	0.04	0.04	$ 0.22	1,567	0.40	0 24	32.71	1.87
1	206	Fans - ASD (1-5 hp)	Prim Metals	6%	1%	$0.08	1.04	0.98	0.15	14	0.60	0.01	0.09	$ 0.16	10,944	0.38	0 33	23.64	1.29
1	207	Fans - Motor practices-1 (1-5 HP)	Prim Metals	5%	5%	$0.02	1.04	0.99	0.14	14	0.51	0.07	0.07	$ 0.05	364	1.74	1 04	7.60	1.87
1	208	Fans - Replace 6-100 HP motor	Prim Metals	3%	4%	$0.03	1.04	1.01	0.14	10	2.11	0.36	0.32	$ 0.16	928	0.60	0 37	17.33	1.96
1	209	Fans - ASD (6-100 hp)	Prim Metals	3%	1%	$0.00	1.04	1.01	0.15	10	2.23	0.06	0.30	$ 0.01	484	4.49	4.41	1.47	1.24
1	210	Fans - Motor practices-1 (6-100 HP)	Prim Metals	2%	2%	$0.01	1.04	1.02	0.15	10	1.71	0.24	0.22	$ 0.03	243	2.60	1.70	3.83	1.87
1	211	Fans - Replace 100+ HP motor	Prim Metals	3%	3%	$0.01	1.04	1.01	0.14	6	3.86	0.55	0.49	$ 0.07	473	1.34	0 96	4.94	1.87
1	212	Fans - ASD (100+ hp)	Prim Metals	5%	1%	$0.01	1.04	1.00	0.15	6	5.73	0.10	1.02	$ 0.03	1,629	2.07	2 22	2.14	1.26
1	213	Fans - Motor practices-1 (100+ HP)	Prim Metals	1%	2%	$0.00	1.04	1.03	0.15	6	1.18	0.28	0.13	$ 0.06	240	1.87	1.13	4.21	2.23
1	300	Base Pumps	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Prim Metals	10%	10%	$0.01	1.13	1.02	0.15	10	5.44	0.78	0.69	$ 0.01	51	12.48	8.14	0.80	1.87
1	302	Pumps - Controls	Prim Metals	30%	30%	$0.03	1.41	0.98	0.14	10	15.56	2.22	1.98	$ 0.01	73	8.63	5 63	1.15	1.87
1	303	Pumps - System Optimization	Prim Metals	33%	33%	$0.07	1.45	0.97	0.14	10	19.23	2.74	2.45	$ 0.02	158	4.00	2 61	2.49	1.87
1	304	Pumps - Sizing	Prim Metals	20%	20%	$0.02	1.24	0.99	0.14	10	13.51	1.93	1.72	$ 0.01	92	6.85	4.47	1.45	1.87
1	305	Pumps - Replace 1-5 HP motor	Prim Metals	3%	3%	$0.05	1.04	1.01	0.14	14	0.34	0.05	0.04	$ 0.22	1,563	0.40	0 24	32.63	1.87
1	306	Pumps - ASD (1-5 hp)	Prim Metals	6%	1%	$0.08	1.04	0.98	0.15	14	0.76	0.01	0.11	$ 0.16	10,946	0.38	0 33	23.64	1.29
1	307	Pumps - Motor practices-1 (1-5 HP)	Prim Metals	5%	5%	$0.02	1.07	1.02	0.15	14	0.27	0.04	0.03	$ 0.05	354	1.79	1 07	7.39	1.87
1	308	Pumps - Replace 6-100 HP motor	Prim Metals	3%	4%	$0.03	1.04	1.01	0.14	10	3.43	0.49	0.44	$ 0.13	930	0.68	0.44	14.65	1.87
1	309	Pumps - ASD (6-100 hp)	Prim Metals	6%	1%	$0.00	1.04	0.98	0.15	10	5.56	0.08	0.81	$ 0.01	485	8.67	8 22	0.79	1.29
1	310	Pumps - Motor practices-1 (6-100 HP)	Prim Metals	2%	2%	$0.01	1.05	1.03	0.15	10	1.54	0.22	0.20	$ 0.03	241	2.62	1.71	3.80	1.87

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	311	Pumps - Replace 100+ HP motor	Prim Metals	3%	3%	$0.01	1.06	1.03	0.15	6	2.02	0.29	0.26	$ 0.07	465	1.36	0 98	4.86	1.87
1	312	Pumps - ASD (100+ hp)	Prim Metals	6%	1%	$0.01	1.04	0.98	0.15	6	9.43	0.14	1.37	$ 0.02	1,634	2.57	2.70	1.76	1.29
1	313	Pumps - Motor practices-1 (100+ HP)	Prim Metals	1%	2%	$0.00	1.04	1.03	0.15	6	2.52	0.36	0.32	$ 0.03	240	2.64	1 90	2.50	1.87
1	400	Base Drives	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	415	Drives - Process Controls (batch + site)	Prim Metals	5%	5%	$0.02	1.07	1.01	0.14	10	8.25	1.18	1.05	$ 0.07	515	1.23	0 80	8.11	1.87
1	425	Drives - Process Control	Prim Metals	5%	5%	$0.02	1.07	1.01	0.14	15	8.25	1.18	1.05	$ 0.03	231	2.74	1 60	5.05	1.87
1	426	Efficient drives - rolling	Prim Metals	6%	6%	$0.01	1.07	1.01	0.14	10	9.17	1.31	1.17	$ 0.02	170	3.71	2.42	2.68	1.87
1	500	Base Heating	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	505	Efficient electric melting	Prim Metals	10%	10%	$0.03	1.04	0.94	0.13	20	76.54	10 91	9.75	$ 0.03	226	2.80	1 50	5.71	1.87
1	506	Intelligent extruder (DOE)	Prim Metals	2%	2%	$0.02	1.06	1.04	0.15	10	0.43	0.06	0.06	$ 0.12	863	0.73	0.48	13.61	1.87
1	507	Near Net Shape Casting	Prim Metals	12%	12%	$0.01	1.14	1.01	0.14	15	5.62	0.80	0.72	$ 0.01	72	8.76	5.12	1.58	1.87
1	508	Heating - Process Control	Prim Metals	5%	5%	$0.02	1.07	1.01	0.14	15	21.85	3.12	2.78	$ 0.03	231	2.74	1 60	5.05	1.87
1	550	Base Refrigeration	Prim Metals	0%	0%	$ -	1.04	1.04	0.18	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Prim Metals	0%	0%	$ -	1.04	1.04	0.18	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Prim Metals	12%	12%	$0.03	0.93	0.82	0.14	20	1.38	0.24	0.18	$ 0.03	166	3.33	1.70	5.03	1.96
1	702	Window Film - Chiller	Prim Metals	10%	10%	$0.06	1.10	0.98	0.17	10	0.53	0.09	0.07	$ 0.08	484	1.14	0.71	9.15	1.96
1	703	EMS - Chiller	Prim Metals	10%	10%	$0.09	1.08	0.97	0.17	10	0.84	0.14	0.11	$ 0.13	784	0.70	0.44	14.82	1.96
1	704	Cool Roof - Chiller	Prim Metals	10%	10%	$0.16	1.08	0.98	0.17	10	0.38	0.06	0.05	$ 0.24	1,416	0.39	0 24	26.77	1.96
1	705	Chiller Tune Up/Diagnostics	Prim Metals	8%	8%	$0.05	1.08	1.00	0.17	10	0.13	0.02	0.02	$ 0.10	576	0.96	0 60	10.90	1.96
1	706	Cooling Circ. Pumps - VSD	Prim Metals	6%	6%	$0.10	1.06	0.99	0.17	15	0.44	0.08	0.06	$ 0.18	1,043	0.53	0 29	27.39	1.96
1	710	Base DX Packaged System, EER=10.3, 10 tons	Prim Metals	0%	0%	$ -	1.04	1.04	0.18	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Prim Metals	10%	10%	$0.07	1.10	0.99	0.17	3	3.44	0.59	0.44	$ 0.28	1,654	0.33	0 25	11.09	1.96
1	712	DX Packaged System, EER=10.9, 10 tons	Prim Metals	6%	6%	$0.05	0.90	0.85	0.15	15	4.15	0.71	0.53	$ 0.11	618	0.89	0 50	16.23	1.96
1	713	Window Film - DX	Prim Metals	10%	10%	$0.03	1.12	1.01	0.17	10	2.23	0.38	0.28	$ 0.05	276	2.00	1 24	5.22	1.96
1	714	Evaporative Pre-Cooler	Prim Metals	10%	10%	$0.12	1.05	0.94	0.16	10	2.08	0.36	0.27	$ 0.18	1,050	0.53	0 33	19.85	1.96
1	715	Prog. Thermostat - DX	Prim Metals	9%	3%	$0.00	1.09	1.00	0.18	10	2.79	0.13	0.40	$ 0.01	166	8.69	7.44	0.87	1.43
1	716	Cool Roof - DX	Prim Metals	10%	10%	$0.09	1.08	0.98	0.17	10	2.67	0.46	0.34	$ 0.14	828	0.67	0.41	15.66	1.96
1	800	Base Lighting	Prim Metals	0%	0%	$ -	1.04	1.04	0.15	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Prim Metals	31%	31%	$0.10	1.05	0.72	0.10	15	10.73	1.53	1.37	$ 0.04	250	2.53	1.48	5.47	1.87
1	802	CFL Hardwired, Modular 36W	Prim Metals	72%	72%	$0.10	1.04	0.29	0.04	4	0.25	0.04	0.03	$ 0.05	331	1.91	1.46	2.40	1.87
1	803	Metal Halide, 50W	Prim Metals	58%	58%	$0.67	1.23	0.52	0.07	5	20.64	2.94	2.63	$ 0.27	1,876	0.34	0 25	16.62	1.87
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Prim Metals	17%	20%	$0.05	1.05	0.87	0.12	9	1.88	0.32	0.28	$ 0.05	290	1.93	1 23	5.03	1.96
1	900	Base Other	Prim Metals	0%	0%	$ -	1 04	1.04	0.15	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Prim Metals	0%	0%	$0.00	1.04	1.04	0.15	5	0.00	0.00	0.00	$ 0.05	321	1.97	1.46	2.84	1.87
1	100	Base Compressed Air	Fab Metals	0%	0%	$ -	1 04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Fab Metals	17%	17%	$0.01	1.20	1.00	0.14	10	3.32	0.46	0.40	$ 0.01	59	10 87	7 22	0.90	1.84
1	102	Compressed Air - Controls	Fab Metals	12%	12%	$0.02	1.14	1.01	0.14	10	2.57	0.36	0.31	$ 0.02	147	4.35	2 89	2.25	1.84
1	103	Compressed Air - System Optimization	Fab Metals	20%	20%	$0.02	1.16	0.93	0.13	10	8.68	1.20	1.04	$ 0.01	81	7.87	5 22	1.24	1.84
1	104	Compressed Air- Sizing	Fab Metals	9%	9%	$0.00	1.04	0.95	0.13	10	3.27	0.45	0.39	$ 0.01	57	11 23	7.46	0.87	1.84
1	105	Comp Air - Replace 1-5 HP motor	Fab Metals	3%	3%	$0.05	1.05	1.02	0.14	14	0.09	0.01	0.01	$ 0.22	1,611	0.40	0 24	32.61	1.84
1	106	Comp Air - ASD (1-5 hp)	Fab Metals	6%	1%	$0.08	1.04	0.98	0.14	14	0.21	0.00	0.03	$ 0.16	11,290	0.38	0 33	23.55	1.27
1	107	Comp Air - Motor practices-1 (1-5 HP)	Fab Metals	5%	5%	$0.02	1.04	0.99	0.14	14	0.18	0.02	0.02	$ 0.05	376	1.70	1 04	7.60	1.84
1	108	Comp Air - Replace 6-100 HP motor	Fab Metals	4%	4%	$0.03	1.07	1.03	0.14	10	0.21	0.03	0.02	$ 0.13	933	0.69	0.46	14.26	1.84
1	109	Comp Air - ASD (6-100 hp)	Fab Metals	6%	1%	$0.00	1.04	0.98	0.14	10	1.57	0.02	0.21	$ 0.01	500	8.56	8 24	0.79	1.27
1	110	Comp Air - Motor practices-1 (6-100 HP)	Fab Metals	2%	2%	$0.01	1.04	1.02	0.14	10	0.67	0.09	0.08	$ 0.03	251	2.55	1 69	3.84	1.84
1	111	Comp Air - Replace 100+ HP motor	Fab Metals	3%	3%	$0.01	1.06	1.03	0.14	6	0.56	0.08	0.07	$ 0.07	480	1.33	0 98	4.86	1.84
1	112	Comp Air - ASD (100+ hp)	Fab Metals	6%	1%	$0.01	1.04	0.98	0.14	6	4.39	0.06	0.60	$ 0.02	1,685	2.54	2.71	1.76	1.27
1	113	Comp Air - Motor practices-1 (100+ HP)	Fab Metals	2%	2%	$0.00	1.05	1.03	0.14	6	0.28	0.04	0.03	$ 0.03	245	2.61	1 92	2.48	1.84
1	200	Base Fans	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Fab Metals	2%	2%	$0.00	1.06	1.04	0.14	10	0.11	0.02	0.01	$ 0.01	55	11 68	7.75	0.84	1.84
1	202	Fans - Controls	Fab Metals	30%	30%	$0.09	1.36	0.95	0.13	10	3.21	0.44	0.38	$ 0.04	266	2.41	1 60	4.07	1.84
1	203	Fans - System Optimization	Fab Metals	20%	10%	$0.06	1.23	0.99	0.15	10	1.92	0.13	0.25	$ 0.04	575	1.82	1.45	4.47	1.53
1	204	Fans- Improve components	Fab Metals	5%	5%	$0.01	1.08	1.02	0.14	10	0.80	0.11	0.10	$ 0.02	110	5.81	3 86	1.68	1.84
1	205	Fans - Replace 1-5 HP motor	Fab Metals	3%	3%	$0.05	1.05	1.02	0.14	14	0.05	0.01	0.01	$ 0.22	1,611	0.40	0 24	32.61	1.84
1	206	Fans - ASD (1-5 hp)	Fab Metals	6%	1%	$0.08	1.05	0.99	0.14	14	0.10	0.00	0.01	$ 0.16	11,176	0.38	0 34	23.31	1.27
1	207	Fans - Motor practices-1 (1-5 HP)	Fab Metals	5%	5%	$0.02	1.04	0.99	0.14	14	0.10	0.01	0.01	$ 0.05	376	1.70	1 04	7.60	1.84
1	208	Fans - Replace 6-100 HP motor	Fab Metals	3%	4%	$0.03	1.06	1.03	0.14	10	0.23	0.04	0.03	$ 0.15	945	0.61	0 39	16.65	1.90
1	209	Fans - ASD (6-100 hp)	Fab Metals	3%	1%	$0.00	1.04	1.01	0.14	10	0.46	0.01	0.05	$ 0.01	499	4.76	4.72	1.38	1.23
1	210	Fans - Motor practices-1 (6-100 HP)	Fab Metals	2%	2%	$0.01	1.06	1.03	0.14	10	0.16	0.02	0.02	$ 0.03	248	2.59	1.72	3.78	1.84
1	211	Fans - Replace 100+ HP motor	Fab Metals	3%	3%	$0.01	1.04	1.01	0.14	6	0.72	0.10	0.09	$ 0.07	488	1.31	0 97	4.94	1.84
1	212	Fans - ASD (100+ hp)	Fab Metals	5%	1%	$0.01	1.09	1.04	0.15	6	0.14	0.00	0.02	$ 0.03	1,613	2.21	2.40	1.98	1.24

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	213	Fans - Motor practices-1 (100+ HP)	Fab Metals	1%	2%	$0.00	1.04	1.03	0.14	6	0.24	0.05	0.02	$ 0.05	247	1.89	1.19	4.01	2.15
1	300	Base Pumps	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Fab Metals	10%	10%	$0.01	1.09	0.98	0.14	10	3.30	0.46	0.39	$ 0.01	54	11.77	7 82	0.83	1.84
1	302	Pumps - Controls	Fab Metals	30%	30%	$0.03	1.35	0.94	0.13	10	4.22	0.58	0.50	$ 0.01	79	8.13	5.40	1.20	1.84
1	303	Pumps - System Optimization	Fab Metals	33%	33%	$0.07	1.12	0.75	0.10	10	12.34	1.71	1.47	$ 0.03	211	3.03	2 01	3.23	1.84
1	304	Pumps - Sizing	Fab Metals	20%	20%	$0.02	1.24	0.99	0.14	10	2.72	0.38	0.32	$ 0.01	95	6.73	4.47	1.45	1.84
1	305	Pumps - Replace 1-5 HP motor	Fab Metals	3%	3%	$0.05	1.04	1.01	0.14	14	0.07	0.01	0.01	$ 0.22	1,614	0.40	0 24	32.66	1.84
1	306	Pumps - ASD (1-5 hp)	Fab Metals	6%	1%	$0.08	1.05	0.99	0.14	14	0.13	0.00	0.02	$ 0.16	11,166	0.38	0 34	23.29	1.27
1	307	Pumps - Motor practices-1 (1-5 HP)	Fab Metals	5%	5%	$0.02	1.06	1.01	0.14	14	0.07	0.01	0.01	$ 0.05	367	1.74	1 06	7.43	1.84
1	308	Pumps - Replace 6-100 HP motor	Fab Metals	4%	4%	$0.03	1.05	1.01	0.14	10	0.64	0.09	0.08	$ 0.13	956	0.67	0.44	14.61	1.84
1	309	Pumps - ASD (6-100 hp)	Fab Metals	6%	1%	$0.00	1.07	1.01	0.15	10	0.55	0.01	0.07	$ 0.01	485	8.83	8 50	0.76	1.27
1	310	Pumps - Motor practices-1 (6-100 HP)	Fab Metals	2%	2%	$0.01	1.05	1.02	0.14	10	0.40	0.05	0.05	$ 0.03	250	2.56	1.70	3.82	1.84
1	311	Pumps - Replace 100+ HP motor	Fab Metals	3%	3%	$0.01	1.06	1.03	0.14	6	0.41	0.06	0.05	$ 0.07	480	1.33	0 98	4.86	1.84
1	312	Pumps - ASD (100+ hp)	Fab Metals	6%	1%	$0.01	1.04	0.98	0.14	6	1.86	0.03	0.25	$ 0.02	1,683	2.55	2.71	1.76	1.27
1	313	Pumps - Motor practices-1 (100+ HP)	Fab Metals	2%	2%	$0.00	1.04	1.03	0.14	6	0.51	0.07	0.06	$ 0.03	247	2.59	1 90	2.50	1.84
1	400	Base Drives	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	427	Drives - Optimization process (M&T)	Fab Metals	10%	10%	$0.01	1.10	0.99	0.14	10	3.04	0.42	0.36	$ 0.01	86	7.45	4 95	1.31	1.84
1	428	Drives - Scheduling	Fab Metals	5%	1%	$0.01	1.08	1.03	0.15	10	0.84	0.02	0.11	$ 0.03	1,099	2.06	1 88	3.45	1.33
1	429	Machinery	Fab Metals	7%	7%	$0.01	1.10	1.02	0.14	10	1.33	0.18	0.16	$ 0.03	193	3.31	2 20	2.95	1.84
1	500	Base Heating	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	509	Efficient Curing ovens	Fab Metals	20%	20%	$0.08	1.22	0.98	0.14	15	5.42	0.75	0.65	$ 0.04	278	2.31	1 37	5.89	1.84
1	510	Heating - Optimization process (M&T)	Fab Metals	10%	10%	$0.01	1.10	0.99	0.14	10	2.77	0.38	0.33	$ 0.01	86	7.45	4 95	1.31	1.84
1	511	Heating - Scheduling	Fab Metals	5%	1%	$0.01	1.08	1.03	0.15	10	0.80	0.02	0.11	$ 0.03	1,100	2.06	1 88	3.45	1.33
1	550	Base Refrigeration	Fab Metals	0%	0%	$ -	1.04	1.04	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	603	New transformers welding	Fab Metals	25%	25%	$0.05	1.19	0.89	0.12	15	4.49	0.62	0.54	$ 0.02	143	4.48	2 66	3.03	1.84
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Fab Metals	0%	0%	$ -	1.04	1.04	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Fab Metals	12%	12%	$0.03	0.93	0.82	0.14	20	3.82	0.63	0.46	$ 0.03	171	3.26	1.70	5.03	1.92
1	702	Window Film - Chiller	Fab Metals	10%	10%	$0.06	1.10	0.98	0.16	10	1.46	0.24	0.17	$ 0.08	499	1.12	0.71	9.15	1.92
1	703	EMS - Chiller	Fab Metals	10%	10%	$0.09	1.08	0.97	0.16	10	2.33	0.39	0.28	$ 0.13	809	0.69	0.44	14.82	1.92
1	704	Cool Roof - Chiller	Fab Metals	10%	10%	$0.16	1.08	0.98	0.16	10	1.04	0.17	0.12	$ 0.24	1,460	0.38	0 24	26.77	1.92
1	705	Chiller Tune Up/Diagnostics	Fab Metals	8%	8%	$0.05	1.08	1.00	0.17	10	0.37	0.06	0.04	$ 0.10	594	0.94	0 60	10.90	1.92
1	706	Cooling Circ. Pumps - VSD	Fab Metals	6%	6%	$0.10	1.06	0.99	0.16	15	1.22	0.20	0.15	$ 0.18	1,076	0.52	0 29	27.39	1.92
1	710	Base DX Packaged System, EER=10.3, 10 tons	Fab Metals	0%	0%	$ -	1 04	1.04	0.17	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Fab Metals	10%	10%	$0.07	1.10	0.99	0.16	3	1.21	0.20	0.14	$ 0.28	1,706	0.33	0 25	11.09	1.92
1	712	DX Packaged System, EER=10.9, 10 tons	Fab Metals	6%	6%	$0.05	0.90	0.85	0.14	15	1.45	0.24	0.17	$ 0.11	638	0.87	0 50	16.23	1.92
1	713	Window Film - DX	Fab Metals	10%	10%	$0.03	1.12	1.01	0.17	10	0.78	0.13	0.09	$ 0.05	285	1.96	1 24	5.22	1.92
1	714	Evaporative Pre-Cooler	Fab Metals	10%	10%	$0.12	1.05	0.94	0.16	10	0.73	0.12	0.09	$ 0.18	1,083	0.52	0 33	19.85	1.92
1	715	Prog. Thermostat - DX	Fab Metals	9%	3%	$0.00	1.10	1.00	0.18	10	0.98	0.05	0.13	$ 0.01	171	8.58	7.46	0.87	1.40
1	716	Cool Roof - DX	Fab Metals	10%	10%	$0.09	1.08	0.98	0.16	10	0.94	0.16	0.11	$ 0.14	854	0.65	0.41	15.66	1.92
1	800	Base Lighting	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Fab Metals	31%	31%	$0.10	1.05	0.72	0.10	15	8.29	1.15	0.99	$ 0.04	258	2.48	1.48	5.47	1.84
1	802	CFL Hardwired, Modular 36W	Fab Metals	72%	72%	$0.10	1.04	0.29	0.04	4	0.15	0.02	0.02	$ 0.05	341	1.88	1.46	2.40	1.84
1	803	Metal Halide, 50W	Fab Metals	58%	58%	$0.67	1.23	0.52	0.07	5	12.46	1.72	1.49	$ 0.27	1,935	0.33	0 25	16.62	1.84
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Fab Metals	17%	20%	$0.05	1.05	0.87	0.12	9	1.17	0.19	0.16	$ 0.05	299	1.93	1 26	4.89	1.90
1	900	Base Other	Fab Metals	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Fab Metals	0%	0%	$0.00	1.04	1.04	0.14	5	0.00	0.00	0.00	$ 0.05	331	1.94	1.46	2.84	1.84
1	100	Base Compressed Air	Ind Mach	0%	0%	$ -	1.04	1.04	0.23	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Ind Mach	17%	17%	$0.01	1.20	1.00	0.22	10	3.61	0.80	0.78	$ 0.01	37	13 04	7 22	0.90	2.20
1	102	Compressed Air - Controls	Ind Mach	12%	12%	$0.02	1.14	1.01	0.22	10	2.80	0.62	0.60	$ 0.02	92	5.22	2 89	2.25	2.20
1	103	Compressed Air - System Optimization	Ind Mach	20%	20%	$0.02	1.16	0.93	0.20	10	9.43	2.09	2.03	$ 0.01	51	9.44	5 22	1.24	2.20
1	104	Compressed Air- Sizing	Ind Mach	9%	9%	$0.00	1.04	0.95	0.21	10	3.55	0.79	0.76	$ 0.01	36	13.47	7.46	0.87	2.20
1	105	Comp Air - Replace 1-5 HP motor	Ind Mach	3%	3%	$0.05	1.05	1.02	0.22	14	0.10	0.02	0.02	$ 0.22	1,006	0.48	0 24	32.61	2.20
1	106	Comp Air - ASD (1-5 hp)	Ind Mach	5%	1%	$0.08	1.04	0.99	0.23	14	0.22	0.01	0.06	$ 0.17	7,051	0.38	0 32	24.96	1.34
1	107	Comp Air - Motor practices-1 (1-5 HP)	Ind Mach	5%	5%	$0.02	1.04	0.99	0.22	14	0.20	0.04	0.04	$ 0.05	235	2.04	1 04	7.60	2.20
1	108	Comp Air - Replace 6-100 HP motor	Ind Mach	4%	4%	$0.03	1.07	1.03	0.23	10	0.23	0.05	0.05	$ 0.13	583	0.82	0.46	14.26	2.20
1	109	Comp Air - ASD (6-100 hp)	Ind Mach	5%	1%	$0.00	1.04	0.99	0.23	10	1.61	0.04	0.42	$ 0.01	313	8.55	7.78	0.84	1.34
1	110	Comp Air - Motor practices-1 (6-100 HP)	Ind Mach	2%	2%	$0.01	1.04	1.02	0.22	10	0.73	0.16	0.16	$ 0.03	157	3.06	1 69	3.84	2.20
1	111	Comp Air - Replace 100+ HP motor	Ind Mach	3%	3%	$0.01	1.06	1.03	0.23	6	0.60	0.13	0.13	$ 0.07	300	1.60	0 98	4.86	2.20
1	112	Comp Air - ASD (100+ hp)	Ind Mach	5%	1%	$0.01	1.04	0.99	0.23	6	4.51	0.11	1.17	$ 0.03	1,052	2.54	2 56	1.86	1.34
1	113	Comp Air - Motor practices-1 (100+ HP)	Ind Mach	2%	2%	$0.00	1.05	1.03	0.23	6	0.30	0.07	0.06	$ 0.03	153	3.14	1 92	2.48	2.20
1	200	Base Fans	Ind Mach	0%	0%	$ -	1.04	1.04	0.23	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	201	Fans - O&M	Ind Mach	2%	2%	$0.00	1.06	1.04	0.23	10	0.08	0.02	0.02	$ 0.01	34	14 01	7.75	0.84	2.20
1	202	Fans - Controls	Ind Mach	30%	30%	$0.09	1.36	0.95	0.21	10	2.27	0.50	0.49	$ 0.04	166	2.89	1 60	4.07	2.20
1	203	Fans - System Optimization	Ind Mach	19%	10%	$0.06	1.22	0.99	0.24	10	1.31	0.15	0.31	$ 0.04	361	2.00	1.40	4.64	1.74
1	204	Fans- Improve components	Ind Mach	5%	5%	$0.01	1.08	1.02	0.23	10	0.57	0.13	0.12	$ 0.02	69	6.97	3 86	1.68	2.20
1	205	Fans - Replace 1-5 HP motor	Ind Mach	3%	3%	$0.05	1.05	1.02	0.22	14	0.04	0.01	0.01	$ 0.22	1,006	0.48	0 24	32.61	2.20
1	206	Fans - ASD (1-5 hp)	Ind Mach	5%	1%	$0.08	1.05	1.00	0.23	14	0.06	0.00	0.02	$ 0.17	6,984	0.38	0 32	24.72	1.34
1	207	Fans - Motor practices-1 (1-5 HP)	Ind Mach	5%	5%	$0.02	1.04	0.99	0.22	14	0.07	0.02	0.02	$ 0.05	235	2.04	1 04	7.60	2.20
1	208	Fans - Replace 6-100 HP motor	Ind Mach	3%	4%	$0.03	1.06	1.03	0.23	10	0.15	0.04	0.04	$ 0.16	590	0.72	0 37	17.41	2.37
1	209	Fans - ASD (6-100 hp)	Ind Mach	3%	1%	$0.00	1.04	1.02	0.23	10	0.26	0.01	0.07	$ 0.02	312	4.19	3 83	1.70	1.33
1	210	Fans - Motor practices-1 (6-100 HP)	Ind Mach	2%	2%	$0.01	1.06	1.03	0.23	10	0.11	0.02	0.02	$ 0.03	155	3.10	1.72	3.78	2.20
1	211	Fans - Replace 100+ HP motor	Ind Mach	3%	3%	$0.01	1.04	1.01	0.22	6	0.51	0.11	0.11	$ 0.07	305	1.58	0 97	4.94	2.20
1	212	Fans - ASD (100+ hp)	Ind Mach	4%	1%	$0.01	1.08	1.04	0.24	6	0.09	0.00	0.03	$ 0.03	1,013	2.07	2.11	2.26	1.32
1	213	Fans - Motor practices-1 (100+ HP)	Ind Mach	1%	2%	$0.00	1.04	1.03	0.23	6	0.16	0.06	0.03	$ 0.06	154	2.31	1.10	4.32	2.83
1	300	Base Pumps	Ind Mach	0%	0%	$ -	1.04	1.04	0.23	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Ind Mach	10%	10%	$0.01	1.09	0.98	0.22	10	2.33	0.52	0.50	$ 0.01	34	14.13	7 82	0.83	2.20
1	302	Pumps - Controls	Ind Mach	30%	30%	$0.03	1.35	0.94	0.21	10	2.99	0.66	0.64	$ 0.01	49	9.76	5.40	1.20	2.20
1	303	Pumps - System Optimization	Ind Mach	33%	33%	$0.07	1.12	0.75	0.17	10	8.72	1.93	1.88	$ 0.03	132	3.64	2 01	3.23	2.20
1	304	Pumps - Sizing	Ind Mach	20%	20%	$0.02	1.24	0.99	0.22	10	1.92	0.42	0.41	$ 0.01	59	8.07	4.47	1.45	2.20
1	305	Pumps - Replace 1-5 HP motor	Ind Mach	3%	3%	$0.05	1.04	1.01	0.22	14	0.05	0.01	0.01	$ 0.22	1,008	0.48	0 24	32.66	2.20
1	306	Pumps - ASD (1-5 hp)	Ind Mach	5%	1%	$0.08	1.05	1.00	0.23	14	0.08	0.00	0.02	$ 0.17	6,978	0.38	0 32	24.70	1.34
1	307	Pumps - Motor practices-1 (1-5 HP)	Ind Mach	5%	5%	$0.02	1.06	1.01	0.22	14	0.05	0.01	0.01	$ 0.05	229	2.09	1 06	7.43	2.20
1	308	Pumps - Replace 6-100 HP motor	Ind Mach	4%	4%	$0.03	1.05	1.01	0.22	10	0.45	0.10	0.10	$ 0.13	597	0.80	0.44	14.61	2.20
1	309	Pumps - ASD (6-100 hp)	Ind Mach	5%	1%	$0.00	1.07	1.01	0.24	10	0.37	0.01	0.10	$ 0.01	304	8.80	8 00	0.81	1.34
1	310	Pumps - Motor practices-1 (6-100 HP)	Ind Mach	2%	2%	$0.01	1.05	1.02	0.23	10	0.28	0.06	0.06	$ 0.03	156	3.07	1.70	3.82	2.20
1	311	Pumps - Replace 100+ HP motor	Ind Mach	3%	3%	$0.01	1.06	1.03	0.23	6	0.29	0.06	0.06	$ 0.07	300	1.60	0 98	4.86	2.20
1	312	Pumps - ASD (100+ hp)	Ind Mach	5%	1%	$0.01	1.04	0.99	0.23	6	1.24	0.03	0.32	$ 0.03	1,051	2.54	2 56	1.86	1.34
1	313	Pumps - Motor practices-1 (100+ HP)	Ind Mach	2%	2%	$0.00	1.04	1.03	0.23	6	0.36	0.08	0.08	$ 0.03	154	3.11	1 90	2.50	2.20
1	400	Base Drives	Ind Mach	0%	0%	$ -	1 04	1.04	0.23	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	427	Drives - Optimization process (M&T)	Ind Mach	10%	10%	$0.01	1.10	0.99	0.22	10	2.28	0.50	0.49	$ 0.01	54	8.94	4 95	1.31	2.20
1	428	Drives - Scheduling	Ind Mach	5%	1%	$0.01	1.08	1.03	0.24	10	0.60	0.03	0.15	$ 0.03	688	2.12	1.79	3.64	1.45
1	429	Machinery	Ind Mach	7%	7%	$0.01	1.10	1.02	0.23	10	1.00	0.22	0.21	$ 0.03	121	3.97	2 20	2.95	2.20
1	500	Base Heating	Ind Mach	0%	0%	$ -	1 04	1.04	0.23	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	509	Efficient Curing ovens	Ind Mach	20%	20%	$0.08	1.22	0.98	0.22	15	1.21	0.27	0.26	$ 0.04	173	2.77	1 37	5.89	2.20
1	510	Heating - Optimization process (M&T)	Ind Mach	10%	10%	$0.01	1.10	0.99	0.22	10	0.87	0.19	0.19	$ 0.01	54	8.94	4 95	1.31	2.20
1	511	Heating - Scheduling	Ind Mach	5%	1%	$0.01	1.08	1.03	0.24	10	0.24	0.01	0.06	$ 0.03	688	2.11	1.78	3.64	1.45
1	550	Base Refrigeration	Ind Mach	0%	0%	$ -	1.04	1.04	0.28	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Ind Mach	0%	0%	$ -	1.04	1.04	0.23	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	603	New transformers welding	Ind Mach	25%	25%	$0.05	1.19	0.89	0.20	15	1.05	0.23	0.23	$ 0.02	89	5.37	2 66	3.03	2.20
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Ind Mach	0%	0%	$ -	1.04	1.04	0.28	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Ind Mach	12%	12%	$0.03	0.93	0.82	0.22	20	7.60	2.02	1.63	$ 0.03	107	3.97	1.70	5.03	2.34
1	702	Window Film - Chiller	Ind Mach	10%	10%	$0.06	1.10	0.98	0.26	10	2.90	0.77	0.62	$ 0.08	312	1.36	0.71	9.15	2.34
1	703	EMS - Chiller	Ind Mach	10%	10%	$0.09	1.08	0.97	0.26	10	4.63	1.23	1.00	$ 0.13	505	0.84	0.44	14.82	2.34
1	704	Cool Roof - Chiller	Ind Mach	10%	10%	$0.16	1.08	0.98	0.26	10	2.07	0.55	0.44	$ 0.24	912	0.47	0 24	26.77	2.34
1	705	Chiller Tune Up/Diagnostics	Ind Mach	8%	8%	$0.05	1.08	1.00	0.27	10	0.74	0.20	0.16	$ 0.10	371	1.14	0 60	10.90	2.34
1	706	Cooling Circ. Pumps - VSD	Ind Mach	6%	6%	$0.10	1.06	0.99	0.26	15	2.42	0.64	0.52	$ 0.18	672	0.63	0 29	27.39	2.34
1	710	Base DX Packaged System, EER=10.3, 10 tons	Ind Mach	0%	0%	$ -	1.04	1.04	0.28	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Ind Mach	10%	10%	$0.07	1.10	0.99	0.26	3	2.40	0.64	0.52	$ 0.28	1,065	0.40	0 25	11.09	2.34
1	712	DX Packaged System, EER=10.9, 10 tons	Ind Mach	6%	6%	$0.05	0.90	0.85	0.23	15	2.89	0.77	0.62	$ 0.11	398	1.06	0 50	16.23	2.34
1	713	Window Film - DX	Ind Mach	10%	10%	$0.03	1.12	1.01	0.27	10	1.55	0.41	0.33	$ 0.05	178	2.38	1 24	5.22	2.34
1	714	Evaporative Pre-Cooler	Ind Mach	10%	10%	$0.12	1.05	0.94	0.25	10	1.45	0.38	0.31	$ 0.18	676	0.63	0 33	19.85	2.34
1	715	Prog. Thermostat - DX	Ind Mach	9%	3%	$0.00	1.09	1.00	0.28	10	1.86	0.14	0.47	$ 0.01	107	9.07	7.11	0.91	1.56
1	716	Cool Roof - DX	Ind Mach	10%	10%	$0.09	1.08	0.98	0.26	10	1.86	0.49	0.40	$ 0.14	534	0.80	0.41	15.66	2.34
1	800	Base Lighting	Ind Mach	0%	0%	$ -	1.04	1.04	0.23	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Ind Mach	31%	31%	$0.10	1.05	0.72	0.16	15	11.76	2.60	2.53	$ 0.04	161	2.98	1.48	5.47	2.20
1	802	CFL Hardwired, Modular 36W	Ind Mach	72%	72%	$0.10	1.04	0.29	0.06	4	0.21	0.05	0.04	$ 0.05	213	2.25	1.46	2.40	2.20
1	803	Metal Halide, 50W	Ind Mach	58%	58%	$0.67	1.23	0.52	0.11	5	17.28	3.82	3.72	$ 0.27	1,209	0.40	0 25	16.62	2.20
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Ind Mach	17%	20%	$0.05	1.05	0.87	0.19	9	1.55	0.41	0.40	$ 0.05	187	2.29	1 21	5.11	2.37
1	900	Base Other	Ind Mach	0%	0%	$ -	1.04	1.04	0.23	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Ind Mach	0%	0%	$0.00	1.04	1.04	0.23	5	0.00	0.00	0.00	$ 0.05	207	2.32	1.46	2.84	2.20
1	100	Base Compressed Air	Electronics	0%	0%	$ -	1.04	1.04	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Electronics	17%	17%	$0.01	1.20	1.00	0.13	10	0.81	0.10	0.10	$ 0.01	64	10 52	7 22	0.90	1.78
1	102	Compressed Air - Controls	Electronics	12%	12%	$0.02	1.14	1.01	0.13	10	0.63	0.08	0.07	$ 0.02	160	4.21	2 89	2.25	1.78

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	103	Compressed Air - System Optimization	Electronics	20%	20%	$0.02	1.16	0.93	0.12	10	2.12	0.27	0.25	$ 0.01	89	7.61	5 22	1.24	1.78
1	104	Compressed Air- Sizing	Electronics	9%	9%	$0.00	1.04	0.95	0.12	10	0.80	0.10	0.09	$ 0.01	62	10 87	7.46	0.87	1.78
1	105	Comp Air - Replace 1-5 HP motor	Electronics	3%	3%	$0.05	1.05	1.02	0.13	14	0.02	0.00	0.00	$ 0.22	1,755	0.38	0 24	32.61	1.78
1	106	Comp Air - ASD (1-5 hp)	Electronics	6%	1%	$0.08	1.04	0.98	0.13	14	0.05	0.00	0.01	$ 0.16	12,297	0.38	0 34	23.25	1.26
1	107	Comp Air - Motor practices-1 (1-5 HP)	Electronics	5%	5%	$0.02	1.04	0.99	0.13	14	0.04	0.01	0.01	$ 0.05	409	1.65	1 04	7.60	1.78
1	108	Comp Air - Replace 6-100 HP motor	Electronics	3%	4%	$0.03	1.07	1.03	0.13	10	0.05	0.01	0.01	$ 0.13	1,017	0.66	0.46	14.26	1.78
1	109	Comp Air - ASD (6-100 hp)	Electronics	6%	1%	$0.00	1.04	0.98	0.13	10	0.39	0.01	0.05	$ 0.01	545	8.59	8 35	0.78	1.26
1	110	Comp Air - Motor practices-1 (6-100 HP)	Electronics	2%	2%	$0.01	1.04	1.02	0.13	10	0.16	0.02	0.02	$ 0.03	274	2.47	1 69	3.84	1.78
1	111	Comp Air - Replace 100+ HP motor	Electronics	3%	3%	$0.01	1.06	1.03	0.13	6	0.14	0.02	0.02	$ 0.07	523	1.29	0 98	4.86	1.78
1	112	Comp Air - ASD (100+ hp)	Electronics	6%	1%	$0.01	1.04	0.98	0.13	6	1.09	0.01	0.14	$ 0.02	1,835	2.55	2.75	1.74	1.26
1	113	Comp Air - Motor practices-1 (100+ HP)	Electronics	1%	2%	$0.00	1.05	1.03	0.13	6	0.07	0.01	0.01	$ 0.03	267	2.53	1 92	2.48	1.78
1	200	Base Fans	Electronics	0%	0%	$ -	1.04	1.04	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Electronics	2%	2%	$0.00	1.06	1.04	0.13	10	0.02	0.00	0.00	$ 0.01	60	11 30	7.75	0.84	1.78
1	202	Fans - Controls	Electronics	30%	30%	$0.09	1.36	0.95	0.12	10	0.43	0.05	0.05	$ 0.04	290	2.33	1 60	4.07	1.78
1	203	Fans - System Optimization	Electronics	20%	10%	$0.06	1.23	0.99	0.14	10	0.26	0.02	0.03	$ 0.04	626	1.79	1.47	4.43	1.49
1	204	Fans- Improve components	Electronics	5%	5%	$0.01	1.08	1.02	0.13	10	0.11	0.01	0.01	$ 0.02	120	5.62	3 86	1.68	1.78
1	205	Fans - Replace 1-5 HP motor	Electronics	3%	3%	$0.05	1.05	1.02	0.13	14	0.01	0.00	0.00	$ 0.22	1,755	0.38	0 24	32.61	1.78
1	206	Fans - ASD (1-5 hp)	Electronics	6%	1%	$0.08	1.05	0.99	0.13	14	0.01	0.00	0.00	$ 0.16	12,171	0.38	0 34	23.01	1.26
1	207	Fans - Motor practices-1 (1-5 HP)	Electronics	5%	5%	$0.02	1.04	0.99	0.13	14	0.01	0.00	0.00	$ 0.05	409	1.65	1 04	7.60	1.78
1	208	Fans - Replace 6-100 HP motor	Electronics	3%	4%	$0.03	1.06	1.03	0.13	10	0.03	0.00	0.00	$ 0.15	1,029	0.59	0 39	16.52	1.83
1	209	Fans - ASD (6-100 hp)	Electronics	3%	1%	$0.00	1.04	1.01	0.13	10	0.06	0.00	0.01	$ 0.01	544	4.92	4 94	1.31	1.21
1	210	Fans - Motor practices-1 (6-100 HP)	Electronics	2%	2%	$0.01	1.06	1.03	0.13	10	0.02	0.00	0.00	$ 0.03	270	2.50	1.72	3.78	1.78
1	211	Fans - Replace 100+ HP motor	Electronics	3%	3%	$0.01	1.04	1.01	0.13	6	0.10	0.01	0.01	$ 0.07	531	1.27	0 97	4.94	1.78
1	212	Fans - ASD (100+ hp)	Electronics	5%	1%	$0.01	1.09	1.04	0.14	6	0.02	0.00	0.00	$ 0.03	1,755	2.24	2.46	1.93	1.23
1	213	Fans - Motor practices-1 (100+ HP)	Electronics	1%	2%	$0.00	1.04	1.03	0.13	6	0.03	0.01	0.00	$ 0.05	269	1.83	1 21	3.93	2.04
1	300	Base Pumps	Electronics	0%	0%	$ -	1.04	1.04	0.13	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Electronics	10%	10%	$0.01	1.09	0.98	0.12	10	0.44	0.06	0.05	$ 0.01	59	11 39	7 82	0.83	1.78
1	302	Pumps - Controls	Electronics	30%	30%	$0.03	1.35	0.94	0.12	10	0.56	0.07	0.07	$ 0.01	86	7.87	5.40	1.20	1.78
1	303	Pumps - System Optimization	Electronics	33%	33%	$0.07	1.12	0.75	0.10	10	1.64	0.21	0.19	$ 0.03	230	2.93	2 01	3.23	1.78
1	304	Pumps - Sizing	Electronics	20%	20%	$0.02	1.24	0.99	0.13	10	0.36	0.05	0.04	$ 0.01	104	6.51	4.47	1.45	1.78
1	305	Pumps - Replace 1-5 HP motor	Electronics	3%	3%	$0.05	1.04	1.01	0.13	14	0.01	0.00	0.00	$ 0.22	1,758	0.38	0 24	32.66	1.78
1	306	Pumps - ASD (1-5 hp)	Electronics	6%	1%	$0.08	1.05	0.99	0.13	14	0.02	0.00	0.00	$ 0.16	12,160	0.39	0 34	22.99	1.26
1	307	Pumps - Motor practices-1 (1-5 HP)	Electronics	5%	5%	$0.02	1.06	1.01	0.13	14	0.01	0.00	0.00	$ 0.05	400	1.69	1 06	7.43	1.78
1	308	Pumps - Replace 6-100 HP motor	Electronics	3%	4%	$0.03	1.05	1.01	0.13	10	0.08	0.01	0.01	$ 0.13	1,042	0.65	0.44	14.61	1.78
1	309	Pumps - ASD (6-100 hp)	Electronics	6%	1%	$0.00	1.07	1.01	0.14	10	0.07	0.00	0.01	$ 0.01	528	8.86	8 61	0.75	1.26
1	310	Pumps - Motor practices-1 (6-100 HP)	Electronics	2%	2%	$0.01	1.05	1.02	0.13	10	0.05	0.01	0.01	$ 0.03	272	2.48	1.70	3.82	1.78
1	311	Pumps - Replace 100+ HP motor	Electronics	3%	3%	$0.01	1.06	1.03	0.13	6	0.05	0.01	0.01	$ 0.07	523	1.29	0 98	4.86	1.78
1	312	Pumps - ASD (100+ hp)	Electronics	6%	1%	$0.01	1.04	0.98	0.13	6	0.25	0.00	0.03	$ 0.02	1,833	2.55	2.75	1.73	1.26
1	313	Pumps - Motor practices-1 (100+ HP)	Electronics	1%	2%	$0.00	1.04	1.03	0.13	6	0.07	0.01	0.01	$ 0.03	269	2.51	1 90	2.50	1.78
1	400	Base Drives	Electronics	0%	0%	$ -	1.04	1.04	0.13	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	413	Clean Room - Controls	Electronics	10%	10%	$0.03	1.10	0.99	0.13	10	0.51	0.06	0.06	$ 0.04	322	2.10	1.44	4.52	1.78
1	428	Drives - Scheduling	Electronics	4%	1%	$0.01	1.08	1.03	0.14	10	0.09	0.00	0.01	$ 0.03	1,314	1.87	1.74	3.74	1.31
1	429	Machinery	Electronics	3%	4%	$0.01	1.07	1.03	0.13	10	0.07	0.01	0.01	$ 0.03	216	3.12	2.14	3.04	1.78
1	500	Base Heating	Electronics	0%	0%	$ -	1.04	1.04	0.13	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	509	Efficient Curing ovens	Electronics	20%	20%	$0.08	1.22	0.98	0.12	15	0.85	0.11	0.10	$ 0.04	302	2.23	1 37	5.89	1.78
1	550	Base Refrigeration	Electronics	0%	0%	$ -	1.04	1.04	0.16	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Electronics	0%	0%	$ -	1.04	1.04	0.13	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	604	Efficient processes (welding, etc.)	Electronics	25%	25%	$0.05	1.19	0.89	0.11	15	2.10	0.27	0.25	$ 0.02	156	4.33	2 66	3.03	1.78
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Electronics	0%	0%	$ -	1.04	1.04	0.16	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Electronics	12%	12%	$0.03	0.93	0.82	0.12	20	2.60	0.40	0.31	$ 0.03	186	3.15	1.70	5.03	1.86
1	702	Window Film - Chiller	Electronics	10%	10%	$0.06	1.10	0.98	0.15	10	0.99	0.15	0.12	$ 0.08	543	1.08	0.71	9.15	1.86
1	703	EMS - Chiller	Electronics	10%	10%	$0.09	1.08	0.97	0.15	10	1.59	0.24	0.19	$ 0.13	881	0.67	0.44	14.82	1.86
1	704	Cool Roof - Chiller	Electronics	10%	10%	$0.16	1.08	0.98	0.15	10	0.71	0.11	0.08	$ 0.24	1,591	0.37	0 24	26.77	1.86
1	705	Chiller Tune Up/Diagnostics	Electronics	8%	8%	$0.05	1.08	1.00	0.15	10	0.25	0.04	0.03	$ 0.10	647	0.91	0 60	10.90	1.86
1	706	Cooling Circ. Pumps - VSD	Electronics	6%	6%	$0.10	1.06	0.99	0.15	15	0.83	0.13	0.10	$ 0.18	1,172	0.50	0 29	27.39	1.86
1	710	Base DX Packaged System, EER=10.3, 10 tons	Electronics	0%	0%	$ -	1.04	1.04	0.16	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Electronics	10%	10%	$0.07	1.10	0.99	0.15	3	0.82	0.13	0.10	$ 0.28	1,858	0.32	0 25	11.09	1.86
1	712	DX Packaged System, EER=10.9, 10 tons	Electronics	6%	6%	$0.05	0.90	0.85	0.13	15	0.99	0.15	0.12	$ 0.11	695	0.84	0 50	16.23	1.86
1	713	Window Film - DX	Electronics	10%	10%	$0.03	1.12	1.01	0.15	10	0.53	0.08	0.06	$ 0.05	310	1.89	1 24	5.22	1.86
1	714	Evaporative Pre-Cooler	Electronics	10%	10%	$0.12	1.05	0.94	0.14	10	0.50	0.08	0.06	$ 0.18	1,179	0.50	0 33	19.85	1.86
1	715	Prog. Thermostat - DX	Electronics	9%	3%	$0.00	1.10	1.00	0.16	10	0.68	0.03	0.09	$ 0.01	186	8.52	7 54	0.86	1.38
1	716	Cool Roof - DX	Electronics	10%	10%	$0.09	1.08	0.98	0.15	10	0.64	0.10	0.08	$ 0.14	930	0.63	0.41	15.66	1.86

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	800	Base Lighting	Electronics	0%	0%	$ -	1.04	1.04	0.13	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Electronics	31%	31%	$0.10	1.05	0.72	0.09	15	3.12	0.40	0.37	$ 0.04	281	2.40	1.48	5.47	1.78
1	802	CFL Hardwired, Modular 36W	Electronics	72%	72%	$0.10	1.04	0.29	0.04	4	0.05	0.01	0.01	$ 0.05	371	1.82	1.46	2.40	1.78
1	803	Metal Halide, 50W	Electronics	58%	58%	$0.67	1.23	0.52	0.07	5	4.41	0.56	0.52	$ 0.27	2,108	0.32	0 25	16.62	1.78
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Electronics	17%	20%	$0.05	1.05	0.86	0.11	9	0.42	0.06	0.06	$ 0.05	325	1.87	1 27	4.85	1.83
1	900	Base Other	Electronics	0%	0%	$ -	1.04	1.04	0.13	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Electronics	0%	0%	$0.00	1.04	1.04	0.13	5	0.00	0.00	0.00	$ 0.05	360	1.87	1.46	2.84	1.78
1	100	Base Compressed Air	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Transp Equip	17%	17%	$0.01	1.20	1.00	0.14	10	4.76	0.65	0.58	$ 0.01	59	10 91	7 22	0.90	1.84
1	102	Compressed Air - Controls	Transp Equip	12%	12%	$0.02	1.14	1.01	0.14	10	3.69	0.51	0.45	$ 0.02	148	4.36	2 89	2.25	1.84
1	103	Compressed Air - System Optimization	Transp Equip	20%	20%	$0.02	1.16	0.93	0.13	10	12.44	1.71	1.53	$ 0.01	82	7.90	5 22	1.24	1.84
1	104	Compressed Air- Sizing	Transp Equip	9%	9%	$0.00	1.04	0.95	0.13	10	4.69	0.64	0.58	$ 0.01	57	11 27	7.46	0.87	1.84
1	105	Comp Air - Replace 1-5 HP motor	Transp Equip	3%	3%	$0.05	1.05	1.02	0.14	14	0.13	0.02	0.02	$ 0.22	1,622	0.40	0 24	32.61	1.84
1	106	Comp Air - ASD (1-5 hp)	Transp Equip	6%	1%	$0.08	1.04	0.98	0.14	14	0.30	0.00	0.04	$ 0.16	11,364	0.38	0 33	23.62	1.27
1	107	Comp Air - Motor practices-1 (1-5 HP)	Transp Equip	5%	5%	$0.02	1.04	0.99	0.14	14	0.26	0.04	0.03	$ 0.05	378	1.71	1 04	7.60	1.84
1	108	Comp Air - Replace 6-100 HP motor	Transp Equip	4%	4%	$0.03	1.07	1.03	0.14	10	0.30	0.04	0.04	$ 0.13	940	0.69	0.46	14.26	1.84
1	109	Comp Air - ASD (6-100 hp)	Transp Equip	6%	1%	$0.00	1.04	0.98	0.14	10	2.24	0.03	0.31	$ 0.01	504	8.58	8 22	0.79	1.27
1	110	Comp Air - Motor practices-1 (6-100 HP)	Transp Equip	2%	2%	$0.01	1.04	1.02	0.14	10	0.96	0.13	0.12	$ 0.03	253	2.56	1 69	3.84	1.84
1	111	Comp Air - Replace 100+ HP motor	Transp Equip	3%	3%	$0.01	1.06	1.03	0.14	6	0.80	0.11	0.10	$ 0.07	483	1.34	0 98	4.86	1.84
1	112	Comp Air - ASD (100+ hp)	Transp Equip	6%	1%	$0.01	1.04	0.98	0.14	6	6.28	0.09	0.88	$ 0.02	1,696	2.55	2.70	1.76	1.27
1	113	Comp Air - Motor practices-1 (100+ HP)	Transp Equip	2%	2%	$0.00	1.05	1.03	0.14	6	0.40	0.05	0.05	$ 0.03	247	2.62	1 92	2.48	1.84
1	200	Base Fans	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Transp Equip	2%	2%	$0.00	1.06	1.04	0.14	10	0.13	0.02	0.02	$ 0.01	55	11.72	7.75	0.84	1.84
1	202	Fans - Controls	Transp Equip	30%	30%	$0.09	1.36	0.95	0.13	10	3.71	0.51	0.45	$ 0.04	268	2.41	1 60	4.07	1.84
1	203	Fans - System Optimization	Transp Equip	20%	10%	$0.06	1.23	0.99	0.15	10	2.21	0.15	0.29	$ 0.04	579	1.82	1.45	4.48	1.53
1	204	Fans- Improve components	Transp Equip	5%	5%	$0.01	1.08	1.02	0.14	10	0.92	0.13	0.11	$ 0.02	111	5.83	3 86	1.68	1.84
1	205	Fans - Replace 1-5 HP motor	Transp Equip	3%	3%	$0.05	1.05	1.02	0.14	14	0.06	0.01	0.01	$ 0.22	1,622	0.40	0 24	32.61	1.84
1	206	Fans - ASD (1-5 hp)	Transp Equip	6%	1%	$0.08	1.05	0.99	0.14	14	0.11	0.00	0.02	$ 0.16	11,249	0.38	0 34	23.39	1.27
1	207	Fans - Motor practices-1 (1-5 HP)	Transp Equip	5%	5%	$0.02	1.04	0.99	0.14	14	0.12	0.02	0.01	$ 0.05	378	1.71	1 04	7.60	1.84
1	208	Fans - Replace 6-100 HP motor	Transp Equip	3%	4%	$0.03	1.06	1.03	0.14	10	0.26	0.04	0.04	$ 0.15	951	0.61	0 39	16.79	1.92
1	209	Fans - ASD (6-100 hp)	Transp Equip	3%	1%	$0.00	1.04	1.01	0.14	10	0.52	0.01	0.06	$ 0.01	502	4.67	4 63	1.40	1.23
1	210	Fans - Motor practices-1 (6-100 HP)	Transp Equip	2%	2%	$0.01	1.06	1.03	0.14	10	0.18	0.02	0.02	$ 0.03	249	2.60	1.72	3.78	1.84
1	211	Fans - Replace 100+ HP motor	Transp Equip	3%	3%	$0.01	1.04	1.01	0.14	6	0.83	0.11	0.10	$ 0.07	491	1.32	0 97	4.94	1.84
1	212	Fans - ASD (100+ hp)	Transp Equip	5%	1%	$0.01	1.09	1.04	0.15	6	0.16	0.00	0.03	$ 0.03	1,625	2.19	2 37	2.01	1.25
1	213	Fans - Motor practices-1 (100+ HP)	Transp Equip	1%	2%	$0.00	1.04	1.03	0.14	6	0.27	0.06	0.03	$ 0.06	249	1.88	1.17	4.06	2.17
1	300	Base Pumps	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Transp Equip	10%	10%	$0.01	1.09	0.98	0.13	10	3.81	0.52	0.47	$ 0.01	55	11 82	7 82	0.83	1.84
1	302	Pumps - Controls	Transp Equip	30%	30%	$0.03	1.35	0.94	0.13	10	4.87	0.67	0.60	$ 0.01	79	8.16	5.40	1.20	1.84
1	303	Pumps - System Optimization	Transp Equip	33%	33%	$0.07	1.12	0.75	0.10	10	14.23	1.95	1.75	$ 0.03	213	3.04	2 01	3.23	1.84
1	304	Pumps - Sizing	Transp Equip	20%	20%	$0.02	1.24	0.99	0.14	10	3.13	0.43	0.38	$ 0.01	96	6.75	4.47	1.45	1.84
1	305	Pumps - Replace 1-5 HP motor	Transp Equip	3%	3%	$0.05	1.04	1.01	0.14	14	0.08	0.01	0.01	$ 0.22	1,625	0.40	0 24	32.66	1.84
1	306	Pumps - ASD (1-5 hp)	Transp Equip	6%	1%	$0.08	1.05	0.99	0.14	14	0.14	0.00	0.02	$ 0.16	11,240	0.38	0 34	23.36	1.27
1	307	Pumps - Motor practices-1 (1-5 HP)	Transp Equip	5%	5%	$0.02	1.06	1.01	0.14	14	0.08	0.01	0.01	$ 0.05	370	1.75	1 06	7.43	1.84
1	308	Pumps - Replace 6-100 HP motor	Transp Equip	4%	4%	$0.03	1.05	1.01	0.14	10	0.73	0.10	0.09	$ 0.13	963	0.67	0.44	14.61	1.84
1	309	Pumps - ASD (6-100 hp)	Transp Equip	6%	1%	$0.00	1.07	1.01	0.15	10	0.63	0.01	0.09	$ 0.01	489	8.84	8.47	0.77	1.27
1	310	Pumps - Motor practices-1 (6-100 HP)	Transp Equip	2%	2%	$0.01	1.05	1.02	0.14	10	0.46	0.06	0.06	$ 0.03	252	2.57	1.70	3.82	1.84
1	311	Pumps - Replace 100+ HP motor	Transp Equip	3%	3%	$0.01	1.06	1.03	0.14	6	0.47	0.06	0.06	$ 0.07	483	1.34	0 98	4.86	1.84
1	312	Pumps - ASD (100+ hp)	Transp Equip	6%	1%	$0.01	1.04	0.98	0.14	6	2.14	0.03	0.30	$ 0.02	1,694	2.55	2.71	1.76	1.27
1	313	Pumps - Motor practices-1 (100+ HP)	Transp Equip	2%	2%	$0.00	1.04	1.03	0.14	6	0.58	0.08	0.07	$ 0.03	249	2.60	1 90	2.50	1.84
1	400	Base Drives	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	427	Drives - Optimization process (M&T)	Transp Equip	10%	10%	$0.01	1.11	1.00	0.14	10	1.84	0.25	0.23	$ 0.01	86	7.56	5 00	1.30	1.84
1	428	Drives - Scheduling	Transp Equip	5%	1%	$0.01	1.08	1.03	0.15	10	0.63	0.02	0.09	$ 0.03	1,107	2.06	1 88	3.46	1.34
1	429	Machinery	Transp Equip	11%	11%	$0.02	1.14	1.02	0.14	10	1.28	0.18	0.16	$ 0.03	188	3.45	2 28	2.85	1.84
1	500	Base Heating	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	509	Efficient Curing ovens	Transp Equip	20%	20%	$0.08	1.22	0.98	0.13	15	3.89	0.53	0.48	$ 0.04	279	2.32	1 37	5.89	1.84
1	510	Heating - Optimization process (M&T)	Transp Equip	10%	10%	$0.01	1.11	1.00	0.14	10	2.25	0.31	0.28	$ 0.01	86	7.56	5 00	1.30	1.84
1	550	Base Refrigeration	Transp Equip	0%	0%	$ -	1.04	1.04	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	603	New transformers welding	Transp Equip	25%	25%	$0.05	1.19	0.89	0.12	15	4.40	0.60	0.54	$ 0.02	144	4.49	2 66	3.03	1.84
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Transp Equip	0%	0%	$ -	1.04	1.04	0.17	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Transp Equip	12%	12%	$0.03	0.93	0.82	0.13	20	10.09	1.66	1.24	$ 0.03	172	3.27	1.70	5.03	1.93
1	702	Window Film - Chiller	Transp Equip	10%	10%	$0.06	1.10	0.98	0.16	10	3.85	0.63	0.47	$ 0.08	502	1.12	0.71	9.15	1.93

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Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	703	EMS - Chiller	Transp Equip	10%	10%	$0.09	1.08	0.97	0.16	10	6.15	1.01	0.75	$ 0.13	814	0.69	0.44	14.82	1.93
1	704	Cool Roof - Chiller	Transp Equip	10%	10%	$0.16	1.08	0.98	0.16	10	2.75	0.45	0.34	$ 0.24	1,470	0.38	0 24	26.77	1.93
1	705	Chiller Tune Up/Diagnostics	Transp Equip	8%	8%	$0.05	1.08	1.00	0.16	10	0.98	0.16	0.12	$ 0.10	598	0.94	0 60	10.90	1.93
1	706	Cooling Circ. Pumps - VSD	Transp Equip	6%	6%	$0.10	1.06	0.99	0.16	15	3.21	0.53	0.39	$ 0.18	1,083	0.52	0 29	27.39	1.93
1	710	Base DX Packaged System, EER=10.3, 10 tons	Transp Equip	0%	0%	$ -	1.04	1.04	0.17	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Transp Equip	10%	10%	$0.07	1.10	0.99	0.16	3	3.18	0.52	0.39	$ 0.28	1,717	0.33	0 25	11.09	1.93
1	712	DX Packaged System, EER=10.9, 10 tons	Transp Equip	6%	6%	$0.05	0.90	0.85	0.14	15	3.83	0.63	0.47	$ 0.11	642	0.88	0 50	16.23	1.93
1	713	Window Film - DX	Transp Equip	10%	10%	$0.03	1.12	1.01	0.17	10	2.06	0.34	0.25	$ 0.05	287	1.97	1 24	5.22	1.93
1	714	Evaporative Pre-Cooler	Transp Equip	10%	10%	$0.12	1.05	0.94	0.16	10	1.92	0.32	0.24	$ 0.18	1,090	0.52	0 33	19.85	1.93
1	715	Prog. Thermostat - DX	Transp Equip	9%	3%	$0.00	1.09	1.00	0.18	10	2.58	0.12	0.35	$ 0.01	172	8.59	7.44	0.87	1.41
1	716	Cool Roof - DX	Transp Equip	10%	10%	$0.09	1.08	0.98	0.16	10	2.47	0.41	0.30	$ 0.14	860	0.66	0.41	15.66	1.93
1	800	Base Lighting	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Transp Equip	31%	31%	$0.10	1.05	0.72	0.10	15	18.73	2.57	2.30	$ 0.04	259	2.49	1.48	5.47	1.84
1	802	CFL Hardwired, Modular 36W	Transp Equip	72%	72%	$0.10	1.04	0.29	0.04	4	0.32	0.04	0.04	$ 0.05	343	1.88	1.46	2.40	1.84
1	803	Metal Halide, 50W	Transp Equip	58%	58%	$0.67	1.23	0.52	0.07	5	26.77	3.68	3.29	$ 0.27	1,948	0.33	0 25	16.62	1.84
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Transp Equip	17%	20%	$0.05	1.05	0.87	0.12	9	2.49	0.40	0.35	$ 0.05	301	1.92	1 25	4.93	1.92
1	900	Base Other	Transp Equip	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Transp Equip	0%	0%	$0.00	1.04	1.04	0.14	5	0.01	0.00	0.00	$ 0.05	333	1.94	1.46	2.84	1.84
1	100	Base Compressed Air	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Misc Ind	17%	17%	$0.01	1.20	1.00	0.11	10	0.49	0.06	0.05	$ 0.01	72	10.11	7 22	0.90	1.71
1	102	Compressed Air - Controls	Misc Ind	12%	12%	$0.02	1.14	1.01	0.11	10	0.38	0.04	0.04	$ 0.02	181	4.04	2 89	2.25	1.71
1	103	Compressed Air - System Optimization	Misc Ind	20%	20%	$0.02	1.16	0.93	0.10	10	1.28	0.14	0.14	$ 0.01	100	7.32	5 22	1.24	1.71
1	104	Compressed Air- Sizing	Misc Ind	9%	9%	$0.00	1.04	0.95	0.11	10	0.48	0.05	0.05	$ 0.01	70	10.44	7.46	0.87	1.71
1	105	Comp Air - Replace 1-5 HP motor	Misc Ind	3%	3%	$0.05	1.05	1.02	0.11	14	0.01	0.00	0.00	$ 0.22	1,978	0.37	0 24	32.61	1.71
1	106	Comp Air - ASD (1-5 hp)	Misc Ind	6%	1%	$0.08	1.04	0.98	0.12	14	0.03	0.00	0.00	$ 0.16	13,861	0.38	0 34	22.92	1.24
1	107	Comp Air - Motor practices-1 (1-5 HP)	Misc Ind	5%	5%	$0.02	1.04	0.99	0.11	14	0.03	0.00	0.00	$ 0.05	461	1.58	1 04	7.60	1.71
1	108	Comp Air - Replace 6-100 HP motor	Misc Ind	4%	4%	$0.03	1.07	1.03	0.12	10	0.03	0.00	0.00	$ 0.13	1,146	0.64	0.46	14.26	1.71
1	109	Comp Air - ASD (6-100 hp)	Misc Ind	6%	1%	$0.00	1.04	0.98	0.12	10	0.24	0.00	0.03	$ 0.01	614	8.63	8.47	0.77	1.24
1	110	Comp Air - Motor practices-1 (6-100 HP)	Misc Ind	2%	2%	$0.01	1.04	1.02	0.11	10	0.10	0.01	0.01	$ 0.03	308	2.37	1 69	3.84	1.71
1	111	Comp Air - Replace 100+ HP motor	Misc Ind	3%	3%	$0.01	1.06	1.03	0.12	6	0.08	0.01	0.01	$ 0.07	589	1.24	0 98	4.86	1.71
1	112	Comp Air - ASD (100+ hp)	Misc Ind	6%	1%	$0.01	1.04	0.98	0.12	6	0.66	0.01	0.08	$ 0.02	2,069	2.56	2.78	1.71	1.24
1	113	Comp Air - Motor practices-1 (100+ HP)	Misc Ind	2%	2%	$0.00	1.05	1.03	0.12	6	0.04	0.00	0.00	$ 0.03	301	2.43	1 92	2.48	1.71
1	200	Base Fans	Misc Ind	0%	0%	$ -	1 04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Misc Ind	2%	2%	$0.00	1.06	1.04	0.12	10	0.01	0.00	0.00	$ 0.01	67	10 86	7.75	0.84	1.71
1	202	Fans - Controls	Misc Ind	30%	30%	$0.09	1.36	0.95	0.11	10	0.32	0.04	0.04	$ 0.04	327	2.24	1 60	4.07	1.71
1	203	Fans - System Optimization	Misc Ind	20%	10%	$0.06	1.23	0.99	0.13	10	0.19	0.01	0.02	$ 0.04	704	1.76	1.48	4.39	1.45
1	204	Fans- Improve components	Misc Ind	5%	5%	$0.01	1.08	1.02	0.12	10	0.08	0.01	0.01	$ 0.02	135	5.40	3 86	1.68	1.71
1	205	Fans - Replace 1-5 HP motor	Misc Ind	3%	3%	$0.05	1.05	1.02	0.11	14	0.01	0.00	0.00	$ 0.22	1,978	0.37	0 24	32.61	1.71
1	206	Fans - ASD (1-5 hp)	Misc Ind	6%	1%	$0.08	1.05	0.99	0.12	14	0.01	0.00	0.00	$ 0.15	13,716	0.39	0 35	22.68	1.24
1	207	Fans - Motor practices-1 (1-5 HP)	Misc Ind	5%	5%	$0.02	1.04	0.99	0.11	14	0.01	0.00	0.00	$ 0.05	461	1.58	1 04	7.60	1.71
1	208	Fans - Replace 6-100 HP motor	Misc Ind	3%	4%	$0.03	1.06	1.03	0.12	10	0.02	0.00	0.00	$ 0.15	1,159	0.57	0.40	16.43	1.75
1	209	Fans - ASD (6-100 hp)	Misc Ind	4%	1%	$0.00	1.04	1.01	0.12	10	0.05	0.00	0.01	$ 0.01	613	5.10	5.19	1.25	1.20
1	210	Fans - Motor practices-1 (6-100 HP)	Misc Ind	2%	2%	$0.01	1.06	1.03	0.12	10	0.02	0.00	0.00	$ 0.03	304	2.40	1.72	3.78	1.71
1	211	Fans - Replace 100+ HP motor	Misc Ind	3%	3%	$0.01	1.04	1.01	0.11	6	0.07	0.01	0.01	$ 0.07	599	1.22	0 97	4.94	1.71
1	212	Fans - ASD (100+ hp)	Misc Ind	5%	1%	$0.01	1.09	1.04	0.12	6	0.01	0.00	0.00	$ 0.03	1,977	2.27	2 52	1.89	1.22
1	213	Fans - Motor practices-1 (100+ HP)	Misc Ind	1%	2%	$0.00	1.04	1.03	0.12	6	0.02	0.00	0.00	$ 0.05	303	1.76	1 24	3.85	1.92
1	300	Base Pumps	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Misc Ind	10%	10%	$0.01	1.09	0.98	0.11	10	0.32	0.04	0.04	$ 0.01	67	10 95	7 82	0.83	1.71
1	302	Pumps - Controls	Misc Ind	30%	30%	$0.03	1.35	0.94	0.11	10	0.41	0.05	0.05	$ 0.01	97	7.56	5.40	1.20	1.71
1	303	Pumps - System Optimization	Misc Ind	33%	33%	$0.07	1.12	0.75	0.08	10	1.21	0.14	0.14	$ 0.03	259	2.82	2 01	3.23	1.71
1	304	Pumps - Sizing	Misc Ind	20%	20%	$0.02	1.24	0.99	0.11	10	0.27	0.03	0.03	$ 0.01	117	6.26	4.47	1.45	1.71
1	305	Pumps - Replace 1-5 HP motor	Misc Ind	3%	3%	$0.05	1.04	1.01	0.11	14	0.01	0.00	0.00	$ 0.22	1,981	0.37	0 24	32.66	1.71
1	306	Pumps - ASD (1-5 hp)	Misc Ind	6%	1%	$0.08	1.05	0.99	0.12	14	0.01	0.00	0.00	$ 0.15	13,704	0.39	0 35	22.66	1.24
1	307	Pumps - Motor practices-1 (1-5 HP)	Misc Ind	5%	5%	$0.02	1.06	1.01	0.11	14	0.01	0.00	0.00	$ 0.05	451	1.62	1 06	7.43	1.71
1	308	Pumps - Replace 6-100 HP motor	Misc Ind	4%	4%	$0.03	1.05	1.01	0.11	10	0.06	0.01	0.01	$ 0.13	1,174	0.62	0.44	14.61	1.71
1	309	Pumps - ASD (6-100 hp)	Misc Ind	6%	1%	$0.00	1.07	1.01	0.12	10	0.06	0.00	0.01	$ 0.01	595	8.91	8.74	0.74	1.24
1	310	Pumps - Motor practices-1 (6-100 HP)	Misc Ind	2%	2%	$0.01	1.05	1.02	0.11	10	0.04	0.00	0.00	$ 0.03	307	2.38	1.70	3.82	1.71
1	311	Pumps - Replace 100+ HP motor	Misc Ind	3%	3%	$0.01	1.06	1.03	0.12	6	0.04	0.00	0.00	$ 0.07	589	1.24	0 98	4.86	1.71
1	312	Pumps - ASD (100+ hp)	Misc Ind	6%	1%	$0.01	1.04	0.98	0.12	6	0.19	0.00	0.02	$ 0.02	2,066	2.57	2.79	1.71	1.24
1	313	Pumps - Motor practices-1 (100+ HP)	Misc Ind	2%	2%	$0.00	1.04	1.03	0.12	6	0.05	0.01	0.01	$ 0.03	303	2.41	1 90	2.50	1.71
1	400	Base Drives	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	428	Drives - Scheduling	Misc Ind	5%	1%	$0.01	1.08	1.03	0.12	10	0.11	0.00	0.01	$ 0.03	1,480	1.87	1.76	3.69	1.30

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	430	Efficient Machinery	Misc Ind	4%	4%	$0.01	1.07	1.03	0.12	10	0.09	0.01	0.01	$ 0.03	244	3.00	2.14	3.04	1.71
1	500	Base Heating	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	509	Efficient Curing ovens	Misc Ind	20%	20%	$0.08	1.22	0.98	0.11	15	0.38	0.04	0.04	$ 0.04	341	2.15	1 37	5.89	1.71
1	550	Base Refrigeration	Misc Ind	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Misc Ind	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Misc Ind	12%	12%	$0.03	0.93	0.82	0.11	20	1.84	0.25	0.21	$ 0.03	210	3.02	1.70	5.03	1.78
1	702	Window Film - Chiller	Misc Ind	10%	10%	$0.06	1.10	0.98	0.13	10	0.70	0.09	0.08	$ 0.08	613	1.03	0.71	9.15	1.78
1	703	EMS - Chiller	Misc Ind	10%	10%	$0.09	1.08	0.97	0.13	10	1.12	0.15	0.13	$ 0.13	993	0.64	0.44	14.82	1.78
1	704	Cool Roof - Chiller	Misc Ind	10%	10%	$0.16	1.08	0.98	0.13	10	0.50	0.07	0.06	$ 0.24	1,793	0.35	0 24	26.77	1.78
1	705	Chiller Tune Up/Diagnostics	Misc Ind	8%	8%	$0.05	1.08	1.00	0.13	10	0.18	0.02	0.02	$ 0.10	730	0.87	0 60	10.90	1.78
1	706	Cooling Circ. Pumps - VSD	Misc Ind	6%	6%	$0.10	1.06	0.99	0.13	15	0.58	0.08	0.07	$ 0.18	1,321	0.48	0 29	27.39	1.78
1	710	Base DX Packaged System, EER=10.3, 10 tons	Misc Ind	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Misc Ind	10%	10%	$0.07	1.10	0.99	0.13	3	0.58	0.08	0.06	$ 0.28	2,094	0.30	0 25	11.09	1.78
1	712	DX Packaged System, EER=10.9, 10 tons	Misc Ind	6%	6%	$0.05	0.90	0.85	0.11	15	0.70	0.09	0.08	$ 0.11	783	0.81	0 50	16.23	1.78
1	713	Window Film - DX	Misc Ind	10%	10%	$0.03	1.12	1.01	0.14	10	0.37	0.05	0.04	$ 0.05	350	1.81	1 24	5.22	1.78
1	714	Evaporative Pre-Cooler	Misc Ind	10%	10%	$0.12	1.05	0.94	0.13	10	0.35	0.05	0.04	$ 0.18	1,329	0.48	0 33	19.85	1.78
1	715	Prog. Thermostat - DX	Misc Ind	9%	3%	$0.00	1.10	1.00	0.14	10	0.48	0.02	0.06	$ 0.01	209	8.46	7 63	0.85	1.35
1	716	Cool Roof - DX	Misc Ind	10%	10%	$0.09	1.08	0.98	0.13	10	0.45	0.06	0.05	$ 0.14	1,049	0.60	0.41	15.66	1.78
1	800	Base Lighting	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Misc Ind	31%	31%	$0.10	1.05	0.72	0.08	15	3.17	0.36	0.36	$ 0.04	316	2.31	1.48	5.47	1.71
1	802	CFL Hardwired, Modular 36W	Misc Ind	72%	72%	$0.10	0.61	0.17	0.02	4	0.06	0.01	0.01	$ 0.08	720	1.02	0 85	4.13	1.71
1	803	Metal Halide, 50W	Misc Ind	58%	58%	$0.67	1.23	0.52	0.06	5	4.33	0.49	0.48	$ 0.27	2,376	0.31	0 25	16.62	1.71
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Misc Ind	18%	20%	$0.05	1.05	0.86	0.09	9	0.41	0.05	0.05	$ 0.05	367	1.79	1 28	4.83	1.75
1	900	Base Other	Misc Ind	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	901	Replace V-belts	Misc Ind	0%	0%	$0.00	1.04	1.04	0.12	5	0.00	0.00	0.00	$ 0.05	406	1.80	1.46	2.84	1.71
1	100	Base Compressed Air	Water/WW	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	101	Compressed Air-O&M	Water/WW	17%	17%	$0.01	1.18	0.98	0.11	10	0.04	0.00	0.00	$ 0.01	74	9.94	7.10	0.92	1.71
1	102	Compressed Air - Controls	Water/WW	12%	12%	$0.02	1.14	1.01	0.11	10	0.02	0.00	0.00	$ 0.02	181	4.04	2 89	2.25	1.71
1	103	Compressed Air - System Optimization	Water/WW	20%	20%	$0.02	1.16	0.93	0.10	10	0.07	0.01	0.01	$ 0.01	100	7.32	5 22	1.24	1.71
1	104	Compressed Air- Sizing	Water/WW	9%	9%	$0.00	1.12	1.02	0.12	10	0.01	0.00	0.00	$ 0.01	65	11 27	8 05	0.81	1.71
1	105	Comp Air - Replace 1-5 HP motor	Water/WW	3%	3%	$0.05	1.05	1.02	0.11	14	0.00	0.00	0.00	$ 0.22	1,978	0.37	0 24	32.61	1.71
1	106	Comp Air - ASD (1-5 hp)	Water/WW	6%	1%	$0.08	1.04	0.98	0.12	14	0.00	0.00	0.00	$ 0.16	13,861	0.38	0 34	22.92	1.24
1	107	Comp Air - Motor practices-1 (1-5 HP)	Water/WW	5%	5%	$0.02	1.04	0.99	0.11	14	0.00	0.00	0.00	$ 0.05	461	1.58	1 04	7.60	1.71
1	108	Comp Air - Replace 6-100 HP motor	Water/WW	4%	4%	$0.03	1.05	1.02	0.11	10	0.01	0.00	0.00	$ 0.13	1,164	0.63	0.45	14.48	1.71
1	109	Comp Air - ASD (6-100 hp)	Water/WW	6%	1%	$0.00	1.04	0.98	0.12	10	0.01	0.00	0.00	$ 0.01	614	8.63	8.47	0.77	1.24
1	110	Comp Air - Motor practices-1 (6-100 HP)	Water/WW	2%	2%	$0.01	1.06	1.04	0.12	10	0.00	0.00	0.00	$ 0.03	302	2.42	1.73	3.76	1.71
1	111	Comp Air - Replace 100+ HP motor	Water/WW	3%	3%	$0.01	1.07	1.03	0.12	6	0.00	0.00	0.00	$ 0.07	587	1.25	0 98	4.84	1.71
1	112	Comp Air - ASD (100+ hp)	Water/WW	6%	1%	$0.01	1.06	1.00	0.12	6	0.01	0.00	0.00	$ 0.02	2,030	2.61	2 84	1.68	1.24
1	113	Comp Air - Motor practices-1 (100+ HP)	Water/WW	2%	2%	$0.00	1.05	1.03	0.12	6	0.00	0.00	0.00	$ 0.03	302	2.42	1 92	2.49	1.71
1	200	Base Fans	Water/WW	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	201	Fans - O&M	Water/WW	2%	2%	$0.00	1.04	1.02	0.12	10	1.27	0.14	0.14	$ 0.01	68	10.70	7 64	0.85	1.71
1	202	Fans - Controls	Water/WW	30%	30%	$0.09	1.14	0.80	0.09	10	17.64	1.99	1.97	$ 0.04	392	1.86	1 33	4.88	1.71
1	203	Fans - System Optimization	Water/WW	20%	10%	$0.06	1.07	0.86	0.11	10	13.18	0.74	1.56	$ 0.05	811	1.53	1 28	5.06	1.45
1	204	Fans- Improve components	Water/WW	5%	5%	$0.01	1.06	1.01	0.11	10	2.59	0.29	0.29	$ 0.02	138	5.31	3.79	1.71	1.71
1	205	Fans - Replace 1-5 HP motor	Water/WW	3%	3%	$0.05	1.04	1.01	0.11	14	0.10	0.01	0.01	$ 0.22	1,985	0.37	0 24	32.71	1.71
1	206	Fans - ASD (1-5 hp)	Water/WW	6%	1%	$0.08	1.04	0.98	0.12	14	0.21	0.00	0.03	$ 0.16	13,858	0.38	0 34	22.92	1.24
1	207	Fans - Motor practices-1 (1-5 HP)	Water/WW	5%	5%	$0.02	1.04	0.99	0.11	14	0.17	0.02	0.02	$ 0.05	461	1.59	1 04	7.60	1.71
1	208	Fans - Replace 6-100 HP motor	Water/WW	3%	4%	$0.03	1.04	1.01	0.11	10	0.74	0.09	0.09	$ 0.15	1,175	0.56	0 39	16.65	1.75
1	209	Fans - ASD (6-100 hp)	Water/WW	4%	1%	$0.00	1.04	1.01	0.12	10	0.88	0.02	0.09	$ 0.01	613	5.10	5.19	1.25	1.20
1	210	Fans - Motor practices-1 (6-100 HP)	Water/WW	2%	2%	$0.01	1.04	1.02	0.11	10	0.57	0.06	0.06	$ 0.03	308	2.38	1.70	3.83	1.71
1	211	Fans - Replace 100+ HP motor	Water/WW	3%	3%	$0.01	1.04	1.01	0.11	6	1.29	0.15	0.14	$ 0.07	599	1.22	0 96	4.94	1.71
1	212	Fans - ASD (100+ hp)	Water/WW	5%	1%	$0.01	1.04	0.99	0.12	6	2.08	0.03	0.30	$ 0.03	2,062	2.18	2.42	1.97	1.22
1	213	Fans - Motor practices-1 (100+ HP)	Water/WW	1%	2%	$0.00	1.04	1.03	0.12	6	0.43	0.07	0.04	$ 0.05	303	1.76	1 24	3.85	1.92
1	300	Base Pumps	Water/WW	0%	0%	$ -	1.04	1.04	0.12	14	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	301	Pumps - O&M	Water/WW	10%	10%	$0.01	1.13	1.02	0.11	10	2.97	0.33	0.33	$ 0.01	64	11.40	8.14	0.80	1.71
1	302	Pumps - Controls	Water/WW	30%	30%	$0.03	1.41	0.98	0.11	10	8.51	0.96	0.95	$ 0.01	93	7.89	5 63	1.15	1.71
1	303	Pumps - System Optimization	Water/WW	33%	33%	$0.07	1.45	0.97	0.11	10	10.66	1.20	1.19	$ 0.02	200	3.65	2 61	2.49	1.71
1	304	Pumps - Sizing	Water/WW	20%	20%	$0.02	1.24	0.99	0.11	10	7.38	0.83	0.83	$ 0.01	117	6.26	4.47	1.45	1.71
1	305	Pumps - Replace 1-5 HP motor	Water/WW	3%	3%	$0.05	1.04	1.01	0.11	14	0.19	0.02	0.02	$ 0.22	1,980	0.37	0 24	32.63	1.71
1	306	Pumps - ASD (1-5 hp)	Water/WW	6%	1%	$0.08	1.04	0.98	0.12	14	0.43	0.00	0.05	$ 0.16	13,861	0.38	0 34	22.92	1.24
1	307	Pumps - Motor practices-1 (1-5 HP)	Water/WW	5%	5%	$0.02	1.07	1.02	0.11	14	0.15	0.02	0.02	$ 0.05	448	1.63	1 07	7.39	1.71

DSM ASSYST SUMMARY						Year	2011												
Vintage	Existing																		
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Peak Watts/ Sq Ft	Service Life (yrs)	Technical Potential GWH	System Peak Tech. Potential MW	System Second Peak Tech. Potential MW	Levelized Cost of Conserved Energy $/kWH	Levelized Cost of Avoided Peak Capacity $/kW	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	308	Pumps - Replace 6-100 HP motor	Water/WW	4%	4%	$0.03	1.04	1.01	0.11	10	1.87	0.21	0.21	$ 0.13	1,177	0.62	0.44	14.65	1.71
1	309	Pumps - ASD (6-100 hp)	Water/WW	6%	1%	$0.00	1.04	0.98	0.12	10	3.13	0.04	0.39	$ 0.01	614	8.65	8.48	0.77	1.24
1	310	Pumps - Motor practices-1 (6-100 HP)	Water/WW	2%	2%	$0.01	1.05	1.03	0.12	10	0.84	0.09	0.09	$ 0.03	306	2.39	1.71	3.80	1.71
1	311	Pumps - Replace 100+ HP motor	Water/WW	3%	3%	$0.01	1.06	1.03	0.12	6	1.10	0.12	0.12	$ 0.07	589	1.24	0 98	4.86	1.71
1	312	Pumps - ASD (100+ hp)	Water/WW	6%	1%	$0.01	1.04	0.98	0.12	6	5.31	0.06	0.66	$ 0.02	2,069	2.56	2.78	1.71	1.24
1	313	Pumps - Motor practices-1 (100+ HP)	Water/WW	2%	2%	$0.00	1.04	1.03	0.12	6	1.38	0.16	0.15	$ 0.03	303	2.41	1 90	2.50	1.71
1	400	Base Drives	Water/WW	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	500	Base Heating	Water/WW	0%	0%	$ -	1.04	1.04	0.12	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	550	Base Refrigeration	Water/WW	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	600	Base Other Process	Water/WW	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	700	Base Centrifugal Chiller, 0.58 kW/ton, 500 tons	Water/WW	0%	0%	$ -	1.04	1.04	0.14	20	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	701	Centrifugal Chiller, 0.51 kW/ton, 500 tons	Water/WW	12%	12%	$0.03	0.93	0.82	0.11	20	0.08	0.01	0.01	$ 0.03	210	3.02	1.70	5.03	1.78
1	702	Window Film - Chiller	Water/WW	10%	10%	$0.06	1.10	0.98	0.13	10	0.03	0.00	0.00	$ 0.08	613	1.03	0.71	9.15	1.78
1	703	EMS - Chiller	Water/WW	10%	10%	$0.09	1.08	0.97	0.13	10	0.05	0.01	0.01	$ 0.13	993	0.64	0.44	14.82	1.78
1	704	Cool Roof - Chiller	Water/WW	10%	10%	$0.16	1.08	0.98	0.13	10	0.02	0.00	0.00	$ 0.24	1,793	0.35	0 24	26.77	1.78
1	705	Chiller Tune Up/Diagnostics	Water/WW	8%	8%	$0.05	1.08	1.00	0.13	10	0.01	0.00	0.00	$ 0.10	730	0.87	0 60	10.90	1.78
1	706	Cooling Circ. Pumps - VSD	Water/WW	6%	6%	$0.10	1.06	0.99	0.13	15	0.02	0.00	0.00	$ 0.18	1,321	0.48	0 29	27.39	1.78
1	710	Base DX Packaged System, EER=10.3, 10 tons	Water/WW	0%	0%	$ -	1.04	1.04	0.14	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	711	DX Tune Up/ Advanced Diagnostics	Water/WW	10%	10%	$0.07	1.10	0.99	0.13	3	0.19	0.03	0.02	$ 0.28	2,094	0.30	0 25	11.09	1.78
1	712	DX Packaged System, EER=10.9, 10 tons	Water/WW	6%	6%	$0.05	0.90	0.85	0.11	15	0.23	0.03	0.03	$ 0.11	783	0.81	0 50	16.23	1.78
1	713	Window Film - DX	Water/WW	10%	10%	$0.03	1.12	1.01	0.14	10	0.12	0.02	0.01	$ 0.05	350	1.81	1 24	5.22	1.78
1	714	Evaporative Pre-Cooler	Water/WW	10%	10%	$0.12	1.05	0.94	0.13	10	0.12	0.02	0.01	$ 0.18	1,329	0.48	0 33	19.85	1.78
1	715	Prog. Thermostat - DX	Water/WW	9%	3%	$0.00	1.10	1.00	0.14	10	0.16	0.01	0.02	$ 0.01	209	8.46	7 63	0.85	1.35
1	716	Cool Roof - DX	Water/WW	10%	10%	$0.09	1.08	0.98	0.13	10	0.15	0.02	0.02	$ 0.14	1,049	0.60	0.41	15.66	1.78
1	800	Base Lighting	Water/WW	0%	0%	$ -	1.04	1.04	0.12	10	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
1	801	RET 2L4' Premium T8, 1EB	Water/WW	31%	31%	$0.10	1.05	0.72	0.08	15	1.47	0.17	0.16	$ 0.04	316	2.31	1.48	5.47	1.71
1	802	CFL Hardwired, Modular 36W	Water/WW	72%	72%	$0.10	0.43	0.12	0.01	4	0.00	0.00	0.00	$ 0.12	1,022	0.72	0 60	5.86	1.71
1	803	Metal Halide, 50W	Water/WW	58%	58%	$0.67	1.23	0.52	0.06	5	0.01	0.00	0.00	$ 0.27	2,376	0.31	0 25	16.62	1.71
1	804	Occupancy Sensor, 4L4' Fluorescent Fixtures	Water/WW	18%	20%	$0.05	1.05	0.86	0.09	9	0.19	0.02	0.02	$ 0.05	367	1.79	1 28	4.83	1.75
1	900	Base Other	Water/WW	0%	0%	$ -	1.04	1.04	0.12	15	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY — Year 2011

Vintage
Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	100	Base Furnace	Single Family	0%	$ -	641	641	18	0	N/A	N/A	N/A	N/A	N/A
1	116	Floor R-19 to R-30 Insulation-Batts	Single Family	2%	$ 2,303.81	653	640	30	6,746	$ 15.31	0.05	0.07	114.37	0.77
1	114	Floor R-0 to R-19 Insulation-Batts	Single Family	10%	$ 2,363.51	643	578	30	1,037,131	$ 3.19	0.25	0.32	23.86	0.77
1	122	Slab insulation R-0 to R-5 (4 ft)	Single Family	7%	$ 675.90	651	607	30	1,126,007	$ 1.34	0.60	0.77	9.98	0.77
1	115	Floor R-0 to R-30 Insulation-Batts	Single Family	12%	$ 3,169.57	643	566	30	1,245,332	$ 3.57	0.22	0.29	26.64	0.77
1	102	Ceiling R-0 to R-38 Insulation	Single Family	24%	$ 1,634.70	833	633	30	1,729,952	$ 0.71	1.12	1.45	5.32	0.77
1	103	Ceiling R-0 to R-49 Insulation	Single Family	25%	$ 1,978.84	840	633	30	1,791,730	$ 0.83	0.96	1.24	6.21	0.77
1	106	Ceiling R-19 to R-38 Insulation	Single Family	4%	$ 967.91	660	636	30	2,533,692	$ 3.58	0.22	0.29	26.72	0.77
1	104	Ceiling R-11 to R-38 Insulaton	Single Family	8%	$ 1,269.04	687	633	30	2,744,402	$ 2.05	0.39	0.50	15.33	0.77
1	123	Wall 2x4 R-0 to Blow-In R-13 Insulation	Single Family	9%	$ 1,170.71	697	635	30	3,066,193	$ 1.66	0.48	0.62	12.40	0.77
1	107	Ceiling R-19 to R-49 Insulation	Single Family	4%	$ 1,355.08	665	635	30	3,146,527	$ 4.03	0.20	0.26	30.12	0.77
1	105	Ceiling R-11 to R-49 Insulation	Single Family	9%	$ 1,290.55	692	633	30	2,868,419	$ 1.88	0.42	0.55	14.06	0.77
1	121	Self Install Weatherization	Single Family	2%	$ 4.56	646	633	5	5,843,085	$ 0.10	9.11	16.39	0.23	0.77
1	120	Radiant Barrier	Single Family	7%	$ 546.59	641	597	25	6,968,938	$ 1.16	0.73	0.94	8.20	0.77
1	124	Windows - Add Storm Windows to Double-Glazed	Single Family	5%	$ 8,226.31	666	631	10	7,334,594	$ 37.13	0.02	0.04	149.90	0.77
1	119	Plastic Film (1-2 yr measure, window kit)	Single Family	2%	$ 82.11	641	628	1	7,482,164	$ 8.31	0.11	0.22	4.16	0.77
1	111	Duct insulation	Single Family	4%	$11,941.11	653	628	20	9,127,308	$ 47.47	0.02	0.03	307.86	0.77
1	110	Crawlspace insulation	Single Family	18%	$ 1,572.02	684	560	30	11,267,672	$ 1.09	0.73	0.94	8.18	0.77
1	113	ENERGY STAR Programmable Thermostat	Single Family	7%	$ 112.34	671	624	10	12,241,761	$ 0.38	2.39	3.78	1.55	0.77
1	118	Furnace Diagnostic Testing, Repair and Maintenance	Single Family	10%	$ 150.00	689	620	5	15,085,008	$ 0.62	1.48	2.66	1.41	0.77
1	108	Comprehensive Shell Air Sealing - Inf. Reduction	Single Family	6%	$ 229.16	653	611	10	16,020,131	$ 0.88	1.04	1.65	3.56	0.77
1	101	Basement insulation R-13 (Furnace)	Single Family	18%	$ 863.65	695	568	30	19,757,482	$ 0.59	1.35	1.75	4.43	0.77
1	127	Windows - Double-Glazed to Energy Star	Single Family	10%	$ 606.01	675	608	10	24,096,183	$ 1.44	0.64	1.01	5.82	0.77
1	125	Windows - Add Storm Windows to Single-Glazed	Single Family	13%	$ 8,226.31	692	600	10	29,676,880	$ 14.31	0.06	0.10	57.75	0.77
1	112	Duct Repair and Sealing	Single Family	10%	$ 497.62	644	579	18	44,648,592	$ 0.81	1.14	1.52	5.01	0.77
1	126	Single Pane to Double Pane with Gas	Single Family	32%	$ 361.83	808	549	10	66,591,861	$ 0.22	4.09	6.47	0.91	0.77
1	109	Condensing Furnace - 94 AFUE (Tier 2)	Single Family	17%	$ 974.38	637	527	18	56,779,866	$ 0.92	1.00	1.33	5.71	0.77
1	200	Base Boiler	Single Family	0%	$ -	1,127	1,127	20	0	N/A	N/A	N/A	N/A	N/A
1	215	Floor R-19 to R-30 Insulation-Batts	Single Family	2%	$ 2,303.81	1,149	1,126	30	117	$ 8.70	0.09	0.12	65.03	0.77
1	213	Floor R-0 to R-19 Insulation-Batts	Single Family	10%	$ 2,363.51	1,130	1,017	30	17,976	$ 1.82	0.44	0.57	13.57	0.77
1	214	Floor R-0 to R-30 Insulation-Batts	Single Family	12%	$ 3,169.57	1,131	995	30	21,585	$ 2.03	0.39	0.51	15.15	0.77
1	204	Ceiling R-0 to R-38 Insulation	Single Family	24%	$ 1,634.70	1,465	1,114	30	29,985	$ 0.40	1.97	2.56	3.02	0.77
1	221	Slab insulation R-0 to R-5 (4 ft)	Single Family	9%	$ 675.90	1,149	1,051	30	24,795	$ 0.60	1.34	1.73	4.47	0.77
1	205	Ceiling R-0 to R-49 Insulation	Single Family	25%	$ 1,978.84	1,477	1,114	30	31,056	$ 0.47	1.69	2.19	3.53	0.77
1	208	Ceiling R-19 to R-38 Insulation	Single Family	4%	$ 967.91	1,161	1,119	30	43,916	$ 2.03	0.39	0.51	15.20	0.77
1	206	Ceiling R-11 to R-38 Insulaton	Single Family	8%	$ 1,269.04	1,208	1,113	30	47,568	$ 1.17	0.68	0.89	8.71	0.77
1	223	Wall 2x4 R-0 to Blow-In R-13 Insulation	Single Family	9%	$ 1,170.71	1,225	1,117	30	53,146	$ 0.94	0.85	1.10	7.05	0.77
1	209	Ceiling R-19 to R-49 Insulation	Single Family	4%	$ 1,355.08	1,169	1,117	30	54,538	$ 2.29	0.35	0.45	17.13	0.77
1	207	Ceiling R-11 to R-49 Insulation	Single Family	9%	$ 1,290.55	1,217	1,113	30	49,718	$ 1.07	0.75	0.97	7.99	0.77
1	220	Self Install Weatherization	Single Family	2%	$ 4.56	1,135	1,113	5	101,277	$ 0.06	16.02	28.83	0.13	0.77
1	219	Radiant Barrier	Single Family	7%	$ 546.59	1,127	1,051	25	120,792	$ 0.66	1.28	1.66	4.66	0.77
1	224	Windows - Add Storm Windows to Double-Glazed	Single Family	5%	$ 8,226.31	1,172	1,109	10	127,130	$ 21.12	0.04	0.07	85.24	0.77
1	218	Plastic Film (1-2 yr measure, window kit)	Single Family	2%	$ 82.11	1,127	1,104	1	129,687	$ 4.72	0.19	0.39	2.36	0.77
1	217	Pipe Insulation (Boiler)	Single Family	3%	$ 501.12	1,133	1,101	30	158,868	$ 1.34	0.60	0.77	10.01	0.77
1	211	Crawlspace insulation	Single Family	18%	$ 1,572.02	1,203	984	30	195,301	$ 0.62	1.28	1.66	4.65	0.77
1	212	ENERGY STAR Programmable Thermostat	Single Family	7%	$ 112.34	1,180	1,097	10	212,185	$ 0.22	4.21	6.65	0.88	0.77
1	201	Basement insulation R-13 (Boiler)	Single Family	18%	$ 863.65	1,221	999	30	263,426	$ 0.34	2.37	3.07	2.52	0.77
1	203	Boiler Diagnostic Testing, Repair and Maintenance	Single Family	10%	$ 150.00	1,211	1,090	5	261,466	$ 0.35	2.60	4.68	0.80	0.77
1	222	Stack Damper	Single Family	4%	$ 219.00	1,127	1,082	5	324,218	$ 1.39	0.66	1.19	3.15	0.77
1	210	Comprehensive Shell Air Sealing - Inf. Reduction	Single Family	6%	$ 229.16	1,149	1,075	10	370,233	$ 0.50	1.84	2.90	2.02	0.77
1	227	Windows - Double-Glazed to Energy Star	Single Family	10%	$ 606.01	1,187	1,069	10	417,656	$ 0.82	1.12	1.77	3.31	0.77
1	225	Windows - Add Storm Windows to Single-Glazed	Single Family	13%	$ 8,226.31	1,218	1,055	10	514,385	$ 8.14	0.11	0.18	32.84	0.77

DSM ASSYST SUMMARY — Year 2011

Vintage
Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	216	High Efficiency Condensing Boiler (AFUE = 90%)	Single Family	11%	$ 900.00	1,074	953	20	804,544	$ 0.74	1.24	1.61	4.81	0.77
1	202	Boiler controls	Single Family	11%	$ 585.00	1,127	1,003	20	891,600	$ 0.47	1.95	2.52	3.06	0.77
1	226	Single Pane to Double Pane with Gas	Single Family	32%	$ 361.83	1,421	966	10	1,154,228	$ 0.13	7.19	11.37	0.52	0.77
1	300	Base Room Heat	Single Family	0%	$ -	570	570	15	0	N/A	N/A	N/A	N/A	N/A
1	313	Floor R-19 to R-30 Insulation-Batts	Single Family	2%	$ 2,303.81	581	569	30	153	$ 17.21	0.05	0.06	128.60	0.77
1	311	Floor R-0 to R-19 Insulation-Batts	Single Family	10%	$ 2,363.51	572	514	30	23,584	$ 3.59	0.22	0.29	26.82	0.77
1	312	Floor R-0 to R-30 Insulation-Batts	Single Family	12%	$ 3,169.57	572	503	30	28,319	$ 4.01	0.20	0.26	29.96	0.77
1	302	Ceiling R-0 to R-38 Insulation	Single Family	24%	$ 1,634.70	741	563	30	39,339	$ 0.80	1.00	1.29	5.98	0.77
1	319	Slab insulation R-0 to R-5 (4 ft)	Single Family	9%	$ 675.90	581	532	30	32,529	$ 1.18	0.68	0.87	8.83	0.77
1	303	Ceiling R-0 to R-49 Insulation	Single Family	25%	$ 1,978.84	747	563	30	40,744	$ 0.93	0.85	1.11	6.99	0.77
1	317	Plastic Film (1-2 yr measure, window kit)	Single Family	2%	$ 368.95	570	558	1	46,955	$ 41.97	0.02	0.04	21.00	0.77
1	306	Ceiling R-19 to R-38 Insulation	Single Family	4%	$ 967.91	587	566	30	57,616	$ 4.02	0.20	0.26	30.05	0.77
1	304	Ceiling R-11 to R-38 Insulaton	Single Family	8%	$ 1,269.04	611	563	30	62,407	$ 2.31	0.35	0.45	17.23	0.77
1	320	Wall 2x4 R-0 to Blow-In R-13 Insulation	Single Family	9%	$ 1,170.71	620	565	30	69,725	$ 1.87	0.43	0.55	13.94	0.77
1	307	Ceiling R-19 to R-49 Insulation	Single Family	4%	$ 1,355.08	591	565	30	71,552	$ 4.53	0.18	0.23	33.87	0.77
1	305	Ceiling R-11 to R-49 Insulation	Single Family	9%	$ 1,290.55	616	563	30	65,227	$ 2.12	0.38	0.49	15.81	0.77
1	318	Self Install Weatherization	Single Family	2%	$ 4.56	574	563	5	132,871	$ 0.11	8.10	14.58	0.26	0.77
1	310	ENERGY STAR Programmable Thermostat	Single Family	7%	$ 112.34	597	555	10	139,188	$ 0.43	2.13	3.36	1.74	0.77
1	321	Windows - Add Storm Windows to Double-Glazed	Single Family	5%	$ 8,226.31	592	561	10	166,788	$ 41.75	0.02	0.03	168.55	0.77
1	309	Crawlspace insulation	Single Family	18%	$ 1,572.02	609	498	30	256,225	$ 1.23	0.65	0.84	9.20	0.77
1	301	Basement insulation R-13 (Room Heater)	Single Family	18%	$ 863.65	618	505	30	345,602	$ 0.67	1.20	1.55	4.98	0.77
1	314	Heater Diagnostic Testing, Repair and Maintenance	Single Family	10%	$ 123.00	613	551	10	343,031	$ 0.32	2.85	4.51	1.30	0.77
1	308	Comprehensive Shell Air Sealing - Inf. Reduction	Single Family	6%	$ 229.16	581	544	10	485,728	$ 0.99	0.93	1.47	4.00	0.77
1	324	Windows - Double-Glazed to Energy Star	Single Family	10%	$ 606.01	600	540	10	547,944	$ 1.62	0.57	0.90	6.55	0.77
1	316	Radiant Barrier	Single Family	7%	$ 121.64	570	531	25	574,234	$ 0.29	2.91	3.77	2.05	0.77
1	322	Windows - Add Storm Windows to Single-Glazed	Single Family	13%	$ 8,226.31	616	534	10	674,848	$ 16.09	0.06	0.09	64.94	0.77
1	323	Single Pane to Double Pane with Gas	Single Family	32%	$ 361.83	719	489	10	1,514,290	$ 0.25	3.64	5.75	1.02	0.77
1	315	High efficiency gas room heater	Single Family	21%	$ 318.05	573	453	10	2,070,878	$ 0.42	2.17	3.43	1.71	0.77
1	400	Base Water Heating (.58)	Single Family	0%	$ -	311	311	15	0	N/A	N/A	N/A	N/A	N/A
1	406	Energy Star Dishwasher (EF=0.68)	Single Family	2%	$ 143.22	312	305	13	3,103,155	$ 2.76	0.33	0.49	13.95	0.77
1	410	Low-Flow Showerheads	Single Family	4%	$ 48.20	319	306	10	3,654,594	$ 0.61	1.51	2.39	2.45	0.77
1	411	Pipe Wrap	Single Family	5%	$ 2.95	321	305	15	3,849,826	$ 0.02	43.13	61.04	0.12	0.77
1	407	CEE Tier 2 DW (EF=0.72)	Single Family	2%	$ 222.56	311	303	13	4,122,172	$ 3.85	0.24	0.35	19.48	0.77
1	403	Drain Water Heat Recovery (GFX)	Single Family	38%	$ 742.00	312	195	30	8,473,041	$ 0.55	1.45	1.88	4.10	0.77
1	409	Faucent Aerators	Single Family	7%	$ 22.78	320	296	10	10,523,316	$ 0.15	6.04	9.55	0.61	0.77
1	408	Energy Star Water Heater (EF = .67)	Single Family	11%	$ 107.07	318	282	15	21,062,346	$ 0.34	2.68	3.79	1.93	0.77
1	402	Condensing Gas Storage water heater (>0.8 EF)	Single Family	36%	$ 750.00	313	199	15	40,823,969	$ 0.76	1.21	1.71	4.27	0.77
1	413	0.82 EF Tankless Hot Water Heater Energy Star Standard	Single Family	28%	$ 621.54	312	226	20	46,548,056	$ 0.72	1.27	1.65	4.69	0.77
1	412	Solar Water Heater	Single Family	50%	$ 4,500.00	312	156	15	84,636,022	$ 3.34	0.28	0.39	18.69	0.77
1	404	2011 Energy Star Clotheswasher (MEF 2.00)	Single Family	5%	$ 166.24	313	299	14	8,523,626	$ 1.42	0.65	0.94	7.59	0.77
1	405	Energy Star CW CEE Tier 3 (MEF=2.20)	Single Family	5%	$ 393.16	311	296	14	10,442,994	$ 3.23	0.28	0.41	17.29	0.77
1	500	Base Clothes Drying	Single Family	0%	$ -	95	95	18	0	N/A	N/A	N/A	N/A	N/A
1	501	Efficient Clothes Dryer (EF = 2.67)	Single Family	15%	$ 50.00	110	94	18	188,469	$ 0.32	2.91	3.89	1.96	0.77
1	600	Base Cooking	Single Family	0%	$ -	59	59	15	0	N/A	N/A	N/A	N/A	N/A
1	602	EE Gas Range	Single Family	10%	$ 100.00	59	53	15	1,988,864	$ 1.96	0.47	0.66	10.99	0.77
1	601	Convection Oven	Single Family	33%	$ 204.00	59	40	15	6,578,396	$ 1.21	0.76	1.08	6.78	0.77
1	700	Base Other	Single Family	0%	$ -	137	137	6	0	N/A	N/A	N/A	N/A	N/A
1	800	Base House Use	Single Family	0%	$ -	786	786	1	0	N/A	N/A	N/A	N/A	N/A
1	801	Conservation- Opower	Single Family	1%	$ 3.00	786	778	1	7,502,434	$ 0.49	1.86	3.77	0.25	0.77
1	100	Base Furnace	Multifamily	0%	$ -	609	609	18	0	N/A	N/A	N/A	N/A	N/A
1	116	Floor R-19 to R-30 Insulation-Batts	Multifamily	2%	$ 775.77	620	608	30	3,002	$ 5.43	0.15	0.19	40.56	0.77
1	102	Ceiling R-0 to R-38 Insulation	Multifamily	24%	$ 419.78	792	602	30	46,459	$ 0.19	4.15	5.38	1.44	0.77

DSM ASSYST SUMMARY					Year	2011								
Vintage														
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	103	Ceiling R-0 to R-49 Insulation	Multifamily	25%	$ 508.16	798	602	30	48,119	$ 0.22	3.55	4.60	1.68	0.77
1	110	Crawlspace insulation	Multifamily	18%	$ 529.35	695	568	30	51,347	$ 0.36	2.20	2.85	2.71	0.77
1	106	Ceiling R-19 to R-38 Insulation	Multifamily	4%	$ 248.56	627	605	30	68,045	$ 0.97	0.83	1.07	7.22	0.77
1	104	Ceiling R-11 to R-38 Insulaton	Multifamily	8%	$ 325.88	653	602	30	73,703	$ 0.55	1.44	1.87	4.14	0.77
1	107	Ceiling R-19 to R-49 Insulation	Multifamily	4%	$ 347.98	632	604	30	84,503	$ 1.09	0.73	0.95	8.14	0.77
1	114	Floor R-0 to R-19 Insulation-Batts	Multifamily	10%	$ 795.87	637	574	30	106,074	$ 1.08	0.74	0.95	8.10	0.77
1	105	Ceiling R-11 to R-49 Insulation	Multifamily	9%	$ 331.41	658	601	30	77,034	$ 0.51	1.57	2.03	3.80	0.77
1	115	Floor R-0 to R-30 Insulation-Batts	Multifamily	12%	$ 1,067.30	644	566	30	128,500	$ 1.20	0.67	0.86	8.96	0.77
1	123	Wall 2x4 R-0 to Blow-In R-13 Insulation	Multifamily	9%	$ 629.87	660	602	30	150,981	$ 0.94	0.85	1.10	7.04	0.77
1	101	Basement insulation R-13 (Furnace)	Multifamily	18%	$ 258.06	646	528	30	155,945	$ 0.19	4.19	5.43	1.42	0.77
1	121	Self Install Weatherization	Multifamily	2%	$ 4.56	613	601	5	420,525	$ 0.11	8.66	15.58	0.24	0.77
1	124	Windows - Add Storm Windows to Double-Glazed	Multifamily	5%	$ 1,506.42	634	600	10	489,413	$ 7.15	0.13	0.20	28.85	0.77
1	122	Slab insulation R-0 to R-5 (4 ft)	Multifamily	7%	$ 201.96	618	577	30	485,927	$ 0.42	1.90	2.46	3.14	0.77
1	119	Plastic Film (1-2 yr measure, window kit)	Multifamily	2%	$ 30.78	609	597	1	538,489	$ 3.28	0.28	0.57	1.64	0.77
1	111	Duct insulation	Multifamily	4%	$ 6,498.84	621	597	20	656,890	$ 27.19	0.03	0.04	176.31	0.77
1	118	Furnace Diagnostic Testing, Repair and Maintenance	Multifamily	10%	$ 150.00	655	589	5	1,085,664	$ 0.65	1.40	2.53	1.49	0.77
1	113	ENERGY STAR Programmable Thermostat	Multifamily	7%	$ 112.34	631	587	10	1,220,669	$ 0.41	2.25	3.56	1.65	0.77
1	127	Windows - Double-Glazed to Energy Star	Multifamily	6%	$ 110.97	622	585	10	1,312,843	$ 0.48	1.93	3.05	1.93	0.77
1	108	Comprehensive Shell Air Sealing - Inf. Reduction	Multifamily	8%	$ 71.94	624	573	10	1,466,848	$ 0.23	4.02	6.36	0.92	0.77
1	125	Windows - Add Storm Windows to Single-Glazed	Multifamily	13%	$ 1,506.42	646	559	10	2,725,926	$ 2.81	0.33	0.52	11.34	0.77
1	112	Duct Repair and Sealing	Multifamily	10%	$ 497.62	612	551	18	3,213,348	$ 0.85	1.08	1.44	5.28	0.77
1	126	Single Pane to Double Pane with Gas	Multifamily	32%	$ 66.26	776	528	10	4,485,522	$ 0.04	21.46	33.92	0.17	0.77
1	109	Condensing Furnace - 94 AFUE (Tier 2)	Multifamily	17%	$ 974.38	590	487	18	4,784,292	$ 1.00	0.92	1.23	6.17	0.77
1	200	Base Boiler	Multifamily	0%	$ -	559	559	20	0	N/A	N/A	N/A	N/A	N/A
1	215	Floor R-19 to R-30 Insulation-Batts	Multifamily	2%	$ 775.77	570	558	30	27	$ 5.91	0.14	0.17	44.16	0.77
1	204	Ceiling R-0 to R-38 Insulation	Multifamily	24%	$ 419.78	727	553	30	421	$ 0.21	3.82	4.94	1.56	0.77
1	205	Ceiling R-0 to R-49 Insulation	Multifamily	25%	$ 508.16	733	553	30	436	$ 0.24	3.26	4.23	1.83	0.77
1	211	Crawlspace insulation	Multifamily	18%	$ 529.35	638	522	30	465	$ 0.40	2.02	2.62	2.95	0.77
1	208	Ceiling R-19 to R-38 Insulation	Multifamily	4%	$ 248.56	576	556	30	616	$ 1.05	0.76	0.98	7.86	0.77
1	206	Ceiling R-11 to R-38 Insulaton	Multifamily	8%	$ 325.88	600	553	30	667	$ 0.60	1.32	1.71	4.51	0.77
1	209	Ceiling R-19 to R-49 Insulation	Multifamily	4%	$ 347.98	580	555	30	765	$ 1.19	0.67	0.87	8.86	0.77
1	213	Floor R-0 to R-19 Insulation-Batts	Multifamily	10%	$ 795.87	586	527	30	960	$ 1.18	0.68	0.88	8.82	0.77
1	207	Ceiling R-11 to R-49 Insulation	Multifamily	9%	$ 331.41	604	552	30	697	$ 0.55	1.44	1.87	4.14	0.77
1	201	Basement insulation R-13 (Boiler)	Multifamily	18%	$ 258.06	593	485	30	1,086	$ 0.21	3.85	4.99	1.55	0.77
1	214	Floor R-0 to R-30 Insulation-Batts	Multifamily	12%	$ 1,067.30	591	520	30	1,163	$ 1.31	0.61	0.79	9.76	0.77
1	223	Wall 2x4 R-0 to Blow-In R-13 Insulation	Multifamily	9%	$ 629.87	606	553	30	1,367	$ 1.03	0.78	1.01	7.66	0.77
1	220	Self Install Weatherization	Multifamily	2%	$ 4.56	564	552	5	3,807	$ 0.12	7.95	14.31	0.26	0.77
1	224	Windows - Add Storm Windows to Double-Glazed	Multifamily	5%	$ 1,506.42	582	551	10	4,431	$ 7.78	0.12	0.19	31.41	0.77
1	218	Plastic Film (1-2 yr measure, window kit)	Multifamily	2%	$ 30.78	559	548	1	4,875	$ 3.57	0.26	0.52	1.78	0.77
1	221	Slab insulation R-0 to R-5 (4 ft)	Multifamily	9%	$ 201.96	570	522	30	5,589	$ 0.36	2.22	2.87	2.69	0.77
1	217	Pipe Insulation (Boiler)	Multifamily	3%	$ 568.98	562	546	30	5,972	$ 3.06	0.26	0.34	22.89	0.77
1	203	Boiler Diagnostic Testing, Repair and Maintenance	Multifamily	10%	$ 150.00	601	541	5	9,829	$ 0.71	1.29	2.32	1.62	0.77
1	212	ENERGY STAR Programmable Thermostat	Multifamily	7%	$ 112.34	580	539	10	11,052	$ 0.44	2.07	3.27	1.80	0.77
1	227	Windows - Double-Glazed to Energy Star	Multifamily	6%	$ 110.97	572	537	10	11,886	$ 0.52	1.77	2.80	2.10	0.77
1	222	Stack Damper	Multifamily	4%	$ 219.00	559	537	5	12,188	$ 2.80	0.33	0.59	6.35	0.77
1	210	Comprehensive Shell Air Sealing - Inf. Reduction	Multifamily	8%	$ 71.94	573	527	10	17,707	$ 0.25	3.69	5.84	1.01	0.77
1	225	Windows - Add Storm Windows to Single-Glazed	Multifamily	13%	$ 1,506.42	593	514	10	24,680	$ 3.06	0.30	0.48	12.35	0.77
1	226	Single Pane to Double Pane with Gas	Multifamily	32%	$ 66.26	713	485	10	40,611	$ 0.05	19.71	31.15	0.19	0.77
1	216	High Efficiency Condensing Boiler (AFUE = 90%)	Multifamily	11%	$ 900.00	532	472	20	30,522	$ 1.50	0.61	0.80	9.70	0.77
1	202	Boiler controls	Multifamily	11%	$ 585.00	559	498	20	33,518	$ 0.95	0.97	1.25	6.17	0.77
1	300	Base Room Heat	Multifamily	0%	$ -	223	223	15	0	N/A	N/A	N/A	N/A	N/A
1	313	Floor R-19 to R-30 Insulation-Batts	Multifamily	2%	$ 775.77	227	223	30	28	$ 14.83	0.05	0.07	110.81	0.77

DSM ASSYST SUMMARY — Year 2011

Vintage
Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	302	Ceiling R-0 to R-38 Insulation	Multifamily	24%	$ 419.78	290	220	30	435	$ 0.53	1.52	1.97	3.92	0.77
1	303	Ceiling R-0 to R-49 Insulation	Multifamily	25%	$ 508.16	292	220	30	450	$ 0.61	1.30	1.69	4.59	0.77
1	309	Crawlspace insulation	Multifamily	18%	$ 529.35	254	208	30	481	$ 0.99	0.81	1.04	7.41	0.77
1	306	Ceiling R-19 to R-38 Insulation	Multifamily	4%	$ 248.56	230	221	30	637	$ 2.64	0.30	0.39	19.72	0.77
1	304	Ceiling R-11 to R-38 Insulaton	Multifamily	8%	$ 325.88	239	220	30	690	$ 1.51	0.53	0.68	11.31	0.77
1	307	Ceiling R-19 to R-49 Insulation	Multifamily	4%	$ 347.98	231	221	30	791	$ 2.98	0.27	0.35	22.24	0.77
1	311	Floor R-0 to R-19 Insulation-Batts	Multifamily	10%	$ 795.87	233	210	30	993	$ 2.96	0.27	0.35	22.12	0.77
1	305	Ceiling R-11 to R-49 Insulation	Multifamily	9%	$ 331.41	241	220	30	721	$ 1.39	0.57	0.74	10.38	0.77
1	301	Basement insulation R-13 (Room Heater)	Multifamily	18%	$ 258.06	236	193	30	1,123	$ 0.52	1.53	1.99	3.89	0.77
1	312	Floor R-0 to R-30 Insulation-Batts	Multifamily	12%	$ 1,067.30	236	207	30	1,203	$ 3.28	0.24	0.32	24.49	0.77
1	320	Wall 2x4 R-0 to Blow-In R-13 Insulation	Multifamily	9%	$ 629.87	242	220	30	1,413	$ 2.57	0.31	0.40	19.23	0.77
1	318	Self Install Weatherization	Multifamily	2%	$ 4.56	225	220	5	3,936	$ 0.29	3.17	5.70	0.66	0.77
1	321	Windows - Add Storm Windows to Double-Glazed	Multifamily	5%	$ 1,506.42	232	220	10	4,581	$ 19.52	0.05	0.07	78.81	0.77
1	310	ENERGY STAR Programmable Thermostat	Multifamily	7%	$ 112.34	231	215	10	5,713	$ 1.12	0.82	1.30	4.51	0.77
1	319	Slab insulation R-0 to R-5 (4 ft)	Multifamily	9%	$ 201.96	227	208	30	5,779	$ 0.90	0.88	1.15	6.75	0.77
1	314	Heater Diagnostic Testing, Repair and Maintenance	Multifamily	10%	$ 123.00	240	216	10	10,162	$ 0.82	1.12	1.76	3.33	0.77
1	324	Windows - Double-Glazed to Energy Star	Multifamily	6%	$ 110.97	228	214	10	12,289	$ 1.30	0.71	1.11	5.27	0.77
1	316	Radiant Barrier	Multifamily	7%	$ 45.60	223	208	25	17,012	$ 0.28	3.03	3.93	1.97	0.77
1	308	Comprehensive Shell Air Sealing - Inf. Reduction	Multifamily	8%	$ 71.94	228	210	10	18,307	$ 0.62	1.47	2.33	2.52	0.77
1	322	Windows - Add Storm Windows to Single-Glazed	Multifamily	13%	$ 1,506.42	236	205	10	25,516	$ 7.67	0.12	0.19	30.98	0.77
1	323	Single Pane to Double Pane with Gas	Multifamily	32%	$ 66.26	284	193	10	41,987	$ 0.12	7.85	12.42	0.47	0.77
1	315	High efficiency gas room heater	Multifamily	21%	$ 318.05	224	177	10	61,852	$ 1.09	0.85	1.34	4.39	0.77
1	400	Base Water Heating (.58)	Multifamily	0%	$ -	152	152	15	0	N/A	N/A	N/A	N/A	N/A
1	406	Energy Star Dishwasher (EF=0.68)	Multifamily	2%	$ 143.22	153	150	13	101,148	$ 5.62	0.16	0.24	28.44	0.77
1	410	Low-Flow Showerheads	Multifamily	4%	$ 34.43	156	150	10	115,186	$ 0.88	1.04	1.64	3.57	0.77
1	407	CEE Tier 2 DW (EF=0.72)	Multifamily	2%	$ 222.56	152	149	13	148,851	$ 7.86	0.12	0.17	39.80	0.77
1	411	Pipe Wrap	Multifamily	5%	$ 2.95	154	146	15	281,179	$ 0.04	20.70	29.29	0.25	0.77
1	403	Drain Water Heat Recovery (GFX)	Multifamily	38%	$ 742.00	153	95	30	314,119	$ 1.12	0.71	0.92	8.38	0.77
1	409	Faucent Aerators	Multifamily	7%	$ 12.82	158	146	10	335,664	$ 0.17	5.29	8.36	0.70	0.77
1	408	Energy Star Water Heater (EF = .67)	Multifamily	11%	$ 107.07	156	138	15	780,839	$ 0.70	1.31	1.85	3.93	0.77
1	402	Condensing Gas Storage water heater (>0.8 EF)	Multifamily	36%	$ 750.00	152	97	15	1,531,096	$ 1.57	0.59	0.83	8.78	0.77
1	413	0.82 EF Tankless Hot Water Heater Energy Star Standard	Multifamily	28%	$ 621.54	153	111	20	1,725,664	$ 1.48	0.62	0.81	9.59	0.77
1	401	Commercial Clotheswasher (MEF = 2.0)	Multifamily	33%	$ 10.00	163	109	15	546,812	$ 0.02	42.72	60.45	0.12	0.77
1	404	2011 Energy Star Clotheswasher (MEF 2.00)	Multifamily	9%	$ 166.24	154	140	14	451,369	$ 1.41	0.65	0.94	7.53	0.77
1	412	Solar Water Heater	Multifamily	50%	$ 4,500.00	153	76	15	3,137,690	$ 6.81	0.14	0.19	38.18	0.77
1	405	Energy Star CW CEE Tier 3 (MEF=2.20)	Multifamily	10%	$ 393.16	152	138	14	549,038	$ 3.23	0.28	0.41	17.28	0.77
1	500	Base Clothes Drying	Multifamily	0%	$ -	95	95	18	0	N/A	N/A	N/A	N/A	N/A
1	501	Efficient Clothes Dryer (EF = 2.67)	Multifamily	15%	$ 50.00	110	94	18	14,273	$ 0.32	2.91	3.89	1.96	0.77
1	600	Base Cooking	Multifamily	0%	$ -	50	50	15	0	N/A	N/A	N/A	N/A	N/A
1	602	EE Gas Range	Multifamily	10%	$ 100.00	50	45	15	123,981	$ 2.30	0.40	0.57	12.86	0.77
1	601	Convection Oven	Multifamily	33%	$ 204.00	51	34	15	410,082	$ 1.42	0.65	0.92	7.93	0.77
1	700	Base Other	Multifamily	0%	$ -	137	137	6	0	N/A	N/A	N/A	N/A	N/A
1	800	Base House Use	Multifamily	0%	$ -	621	621	1	0	N/A	N/A	N/A	N/A	N/A
1	801	Conservation- Opower	Multifamily	1%	$ 3.00	621	615	1	449,111	$ 0.63	1.47	2.98	0.31	0.77
1	100	Base Furnace	SF Low Income	0%	$ -	632	632	18	0	N/A	N/A	N/A	N/A	N/A
1	116	Floor R-19 to R-30 Insulation-Batts	SF Low Income	2%	$ 1,996.60	645	632	30	3,901	$ 13.44	0.06	0.08	100.42	0.77
1	102	Ceiling R-0 to R-38 Insulation	SF Low Income	24%	$ 1,261.11	822	625	30	558,397	$ 0.56	1.44	1.86	4.15	0.77
1	103	Ceiling R-0 to R-49 Insulation	SF Low Income	25%	$ 1,526.61	829	625	30	578,338	$ 0.65	1.23	1.59	4.86	0.77
1	114	Floor R-0 to R-19 Insulation-Batts	SF Low Income	10%	$ 2,048.33	634	571	30	599,711	$ 2.80	0.28	0.37	20.95	0.77
1	115	Floor R-0 to R-30 Insulation-Batts	SF Low Income	12%	$ 2,746.90	635	558	30	720,101	$ 3.13	0.25	0.33	23.39	0.77
1	123	Wall 2x4 R-0 to Blow-In R-13 Insulation	SF Low Income	9%	$ 974.53	688	627	30	783,505	$ 1.40	0.57	0.74	10.45	0.77
1	106	Ceiling R-19 to R-38 Insulation	SF Low Income	4%	$ 746.71	651	628	30	817,830	$ 2.80	0.29	0.37	20.89	0.77

DSM ASSYST SUMMARY — Year 2011

Vintage
Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	122	Slab insulation R-0 to R-5 (4 ft)	SF Low Income	7%	$ 565.33	642	599	30	868,161	$ 1.13	0.71	0.91	8.46	0.77
1	104	Ceiling R-11 to R-38 Insulaton	SF Low Income	8%	$ 979.02	678	625	30	885,843	$ 1.60	0.50	0.65	11.98	0.77
1	107	Ceiling R-19 to R-49 Insulation	SF Low Income	4%	$ 1,045.40	656	627	30	1,015,642	$ 3.15	0.25	0.33	23.55	0.77
1	120	Radiant Barrier	SF Low Income	7%	$ 530.76	632	590	25	1,257,767	$ 1.14	0.74	0.96	8.07	0.77
1	105	Ceiling R-11 to R-49 Insulation	SF Low Income	9%	$ 995.62	683	625	30	925,874	$ 1.47	0.54	0.70	10.99	0.77
1	121	Self Install Weatherization	SF Low Income	2%	$ 4.56	637	624	5	1,886,042	$ 0.10	8.99	16.18	0.23	0.77
1	119	Plastic Film (1-2 yr measure, window kit)	SF Low Income	2%	$ 45.57	632	620	1	2,415,108	$ 4.67	0.20	0.40	2.34	0.77
1	124	Windows - Add Storm Windows to Double-Glazed	SF Low Income	5%	$ 6,346.33	656	621	10	2,695,547	$ 29.09	0.03	0.05	117.42	0.77
1	110	Crawlspace insulation	SF Low Income	18%	$ 1,362.39	675	552	30	3,664,992	$ 0.96	0.83	1.08	7.18	0.77
1	113	ENERGY STAR Programmable Thermostat	SF Low Income	7%	$ 112.34	662	616	10	3,951,420	$ 0.39	2.36	3.73	1.57	0.77
1	111	Duct insulation	SF Low Income	4%	$ 9,212.17	638	614	20	4,456,670	$ 37.49	0.02	0.03	243.11	0.77
1	118	Furnace Diagnostic Testing, Repair and Maintenance	SF Low Income	10%	$ 150.00	680	612	5	4,869,169	$ 0.63	1.46	2.63	1.43	0.77
1	108	Comprehensive Shell Air Sealing - Inf. Reduction	SF Low Income	6%	$ 176.79	645	603	10	5,171,010	$ 0.69	1.34	2.11	2.78	0.77
1	101	Basement insulation R-13 (Furnace)	SF Low Income	18%	$ 722.37	670	548	30	6,628,758	$ 0.51	1.55	2.01	3.84	0.77
1	127	Windows - Double-Glazed to Energy Star	SF Low Income	10%	$ 467.52	665	599	10	8,027,770	$ 1.13	0.81	1.29	4.56	0.77
1	125	Windows - Add Storm Windows to Single-Glazed	SF Low Income	13%	$ 6,346.33	682	591	10	9,883,011	$ 11.21	0.08	0.13	45.24	0.77
1	112	Duct Repair and Sealing	SF Low Income	10%	$ 497.62	635	572	18	14,411,760	$ 0.82	1.12	1.50	5.08	0.77
1	109	Condensing Furnace - 94 AFUE (Tier 2)	SF Low Income	17%	$ 974.38	629	520	18	18,327,517	$ 0.93	0.99	1.32	5.79	0.77
1	126	Single Pane to Double Pane with Gas	SF Low Income	32%	$ 279.14	782	532	10	24,044,330	$ 0.18	5.13	8.11	0.72	0.77
1	200	Base Boiler	SF Low Income	0%	$ -	1,166	1,166	20	0	N/A	N/A	N/A	N/A	N/A
1	215	Floor R-19 to R-30 Insulation-Batts	SF Low Income	2%	$ 1,996.60	1,189	1,165	30	71	$ 7.29	0.11	0.14	54.47	0.77
1	204	Ceiling R-0 to R-38 Insulation	SF Low Income	24%	$ 1,261.11	1,516	1,153	30	10,147	$ 0.30	2.65	3.43	2.25	0.77
1	205	Ceiling R-0 to R-49 Insulation	SF Low Income	25%	$ 1,526.61	1,528	1,152	30	10,509	$ 0.35	2.26	2.93	2.63	0.77
1	213	Floor R-0 to R-19 Insulation-Batts	SF Low Income	10%	$ 2,048.33	1,169	1,052	30	10,897	$ 1.52	0.53	0.68	11.36	0.77
1	214	Floor R-0 to R-30 Insulation-Batts	SF Low Income	12%	$ 2,746.90	1,170	1,030	30	13,085	$ 1.70	0.47	0.61	12.69	0.77
1	223	Wall 2x4 R-0 to Blow-In R-13 Insulation	SF Low Income	9%	$ 974.53	1,268	1,156	30	14,237	$ 0.76	1.05	1.36	5.67	0.77
1	208	Ceiling R-19 to R-38 Insulation	SF Low Income	4%	$ 746.71	1,201	1,158	30	14,861	$ 1.52	0.53	0.68	11.33	0.77
1	206	Ceiling R-11 to R-38 Insulaton	SF Low Income	8%	$ 979.02	1,250	1,152	30	16,096	$ 0.87	0.92	1.19	6.50	0.77
1	221	Slab insulation R-0 to R-5 (4 ft)	SF Low Income	9%	$ 565.33	1,189	1,088	30	20,041	$ 0.48	1.65	2.14	3.61	0.77
1	209	Ceiling R-19 to R-49 Insulation	SF Low Income	4%	$ 1,045.40	1,209	1,156	30	18,455	$ 1.71	0.47	0.61	12.77	0.77
1	219	Radiant Barrier	SF Low Income	7%	$ 530.76	1,166	1,087	25	22,855	$ 0.62	1.36	1.77	4.38	0.77
1	207	Ceiling R-11 to R-49 Insulation	SF Low Income	9%	$ 995.62	1,260	1,151	30	16,824	$ 0.80	1.00	1.30	5.96	0.77
1	220	Self Install Weatherization	SF Low Income	2%	$ 4.56	1,175	1,151	5	34,271	$ 0.06	16.58	29.83	0.13	0.77
1	218	Plastic Film (1-2 yr measure, window kit)	SF Low Income	2%	$ 45.57	1,166	1,142	1	43,884	$ 2.53	0.36	0.74	1.27	0.77
1	224	Windows - Add Storm Windows to Double-Glazed	SF Low Income	5%	$ 6,346.33	1,210	1,145	10	48,980	$ 15.78	0.06	0.09	63.69	0.77
1	217	Pipe Insulation (Boiler)	SF Low Income	3%	$ 438.48	1,172	1,139	30	53,759	$ 1.13	0.70	0.91	8.46	0.77
1	211	Crawlspace insulation	SF Low Income	18%	$ 1,362.39	1,245	1,018	30	66,596	$ 0.52	1.53	1.98	3.90	0.77
1	212	ENERGY STAR Programmable Thermostat	SF Low Income	7%	$ 112.34	1,221	1,135	10	71,800	$ 0.21	4.35	6.88	0.85	0.77
1	203	Boiler Diagnostic Testing, Repair and Maintenance	SF Low Income	10%	$ 150.00	1,253	1,128	5	88,477	$ 0.34	2.69	4.84	0.78	0.77
1	201	Basement insulation R-13 (Boiler)	SF Low Income	18%	$ 722.37	1,235	1,010	30	92,654	$ 0.28	2.87	3.71	2.08	0.77
1	222	Stack Damper	SF Low Income	4%	$ 219.00	1,166	1,119	5	109,711	$ 1.34	0.69	1.23	3.05	0.77
1	210	Comprehensive Shell Air Sealing - Inf. Reduction	SF Low Income	6%	$ 176.79	1,189	1,112	10	125,282	$ 0.37	2.46	3.89	1.51	0.77
1	227	Windows - Double-Glazed to Energy Star	SF Low Income	10%	$ 467.52	1,226	1,104	10	145,871	$ 0.61	1.50	2.37	2.47	0.77
1	225	Windows - Add Storm Windows to Single-Glazed	SF Low Income	13%	$ 6,346.33	1,257	1,089	10	179,582	$ 6.08	0.15	0.24	24.54	0.77
1	216	High Efficiency Condensing Boiler (AFUE = 90%)	SF Low Income	11%	$ 900.00	1,111	986	20	272,246	$ 0.72	1.28	1.66	4.65	0.77
1	202	Boiler controls	SF Low Income	11%	$ 585.00	1,166	1,037	20	301,705	$ 0.46	2.02	2.61	2.96	0.77
1	226	Single Pane to Double Pane with Gas	SF Low Income	32%	$ 279.14	1,441	980	10	436,904	$ 0.10	9.46	14.95	0.39	0.77
1	300	Base Room Heat	SF Low Income	0%	$ -	887	887	15	0	N/A	N/A	N/A	N/A	N/A
1	313	Floor R-19 to R-30 Insulation-Batts	SF Low Income	2%	$ 1,996.60	904	886	30	140	$ 9.59	0.08	0.11	71.62	0.77
1	317	Plastic Film (1-2 yr measure, window kit)	SF Low Income	2%	$ 358.26	887	869	1	13,360	$ 26.19	0.04	0.07	13.11	0.77
1	302	Ceiling R-0 to R-38 Insulation	SF Low Income	24%	$ 1,261.11	1,153	877	30	20,019	$ 0.40	2.01	2.61	2.96	0.77
1	303	Ceiling R-0 to R-49 Insulation	SF Low Income	25%	$ 1,526.61	1,162	876	30	20,734	$ 0.46	1.72	2.23	3.46	0.77

DSM ASSYST SUMMARY					Year	2011								
Vintage														
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	311	Floor R-0 to R-19 Insulation-Batts	SF Low Income	10%	$ 2,048.33	889	800	30	21,500	$ 2.00	0.40	0.52	14.94	0.77
1	312	Floor R-0 to R-30 Insulation-Batts	SF Low Income	12%	$ 2,746.90	890	783	30	25,816	$ 2.23	0.36	0.46	16.69	0.77
1	320	Wall 2x4 R-0 to Blow-In R-13 Insulation	SF Low Income	9%	$ 974.53	964	879	30	28,089	$ 1.00	0.80	1.04	7.46	0.77
1	306	Ceiling R-19 to R-38 Insulation	SF Low Income	4%	$ 746.71	913	881	30	29,320	$ 1.99	0.40	0.52	14.90	0.77
1	304	Ceiling R-11 to R-38 Insulaton	SF Low Income	8%	$ 979.02	950	876	30	31,758	$ 1.14	0.70	0.90	8.54	0.77
1	319	Slab insulation R-0 to R-5 (4 ft)	SF Low Income	9%	$ 565.33	904	827	30	39,540	$ 0.64	1.26	1.63	4.75	0.77
1	307	Ceiling R-19 to R-49 Insulation	SF Low Income	4%	$ 1,045.40	920	879	30	36,411	$ 2.25	0.36	0.46	16.79	0.77
1	305	Ceiling R-11 to R-49 Insulation	SF Low Income	9%	$ 995.62	958	876	30	33,193	$ 1.05	0.76	0.99	7.84	0.77
1	318	Self Install Weatherization	SF Low Income	2%	$ 4.56	893	875	5	67,615	$ 0.07	12.61	22.69	0.17	0.77
1	310	ENERGY STAR Programmable Thermostat	SF Low Income	7%	$ 112.34	928	863	10	70,830	$ 0.28	3.31	5.23	1.12	0.77
1	321	Windows - Add Storm Windows to Double-Glazed	SF Low Income	5%	$ 6,346.33	920	871	10	96,636	$ 20.75	0.04	0.07	83.75	0.77
1	309	Crawlspace insulation	SF Low Income	18%	$ 1,362.39	947	774	30	131,391	$ 0.69	1.16	1.51	5.12	0.77
1	314	Heater Diagnostic Testing, Repair and Maintenance	SF Low Income	10%	$ 123.00	953	858	10	174,561	$ 0.21	4.44	7.01	0.84	0.77
1	301	Basement insulation R-13 (Room Heater)	SF Low Income	18%	$ 722.37	940	768	30	182,803	$ 0.37	2.18	2.82	2.74	0.77
1	308	Comprehensive Shell Air Sealing - Inf. Reduction	SF Low Income	6%	$ 176.79	904	846	10	247,177	$ 0.49	1.87	2.96	1.98	0.77
1	324	Windows - Double-Glazed to Energy Star	SF Low Income	10%	$ 467.52	933	839	10	287,799	$ 0.81	1.14	1.81	3.25	0.77
1	316	Radiant Barrier	SF Low Income	7%	$ 67.51	887	827	25	292,216	$ 0.10	8.15	10.56	0.73	0.77
1	322	Windows - Add Storm Windows to Single-Glazed	SF Low Income	13%	$ 6,346.33	956	828	10	354,310	$ 7.99	0.12	0.18	32.27	0.77
1	323	Single Pane to Double Pane with Gas	SF Low Income	32%	$ 279.14	1,096	745	10	861,998	$ 0.13	7.19	11.37	0.52	0.77
1	315	High efficiency gas room heater	SF Low Income	21%	$ 318.05	892	705	10	1,053,827	$ 0.27	3.37	5.33	1.10	0.77
1	400	Base Water Heating (.58)	SF Low Income	0%	$ -	277	277	15	0	N/A	N/A	N/A	N/A	N/A
1	406	Energy Star Dishwasher (EF=0.68)	SF Low Income	2%	$ 143.22	278	272	13	618,940	$ 3.09	0.30	0.44	15.65	0.77
1	407	CEE Tier 2 DW (EF=0.72)	SF Low Income	2%	$ 222.56	277	271	13	822,188	$ 4.32	0.21	0.32	21.86	0.77
1	410	Low-Flow Showerheads	SF Low Income	4%	$ 34.55	283	272	10	1,232,146	$ 0.49	1.88	2.97	1.98	0.77
1	411	Pipe Wrap	SF Low Income	5%	$ 2.95	284	270	15	1,416,968	$ 0.02	38.24	54.12	0.13	0.77
1	403	Drain Water Heat Recovery (GFX)	SF Low Income	38%	$ 742.00	278	174	30	2,469,986	$ 0.62	1.30	1.68	4.60	0.77
1	409	Faucent Aerators	SF Low Income	7%	$ 14.89	281	260	10	4,009,657	$ 0.11	8.11	12.83	0.46	0.77
1	408	Energy Star Water Heater (EF = .67)	SF Low Income	11%	$ 107.07	283	251	15	6,139,907	$ 0.39	2.39	3.38	2.16	0.77
1	402	Condensing Gas Storage water heater (>0.8 EF)	SF Low Income	36%	$ 750.00	279	177	15	11,900,639	$ 0.86	1.08	1.52	4.79	0.77
1	413	0.82 EF Tankless Hot Water Heater Energy Star Standard	SF Low Income	28%	$ 621.54	278	201	20	13,569,273	$ 0.81	1.13	1.47	5.27	0.77
1	412	Solar Water Heater	SF Low Income	50%	$ 4,500.00	278	139	15	24,672,338	$ 3.74	0.25	0.35	20.97	0.77
1	404	2011 Energy Star Clotheswasher (MEF 2.00)	SF Low Income	5%	$ 166.24	279	265	14	2,790,019	$ 1.42	0.65	0.94	7.58	0.77
1	405	Energy Star CW CEE Tier 3 (MEF=2.20)	SF Low Income	5%	$ 393.16	277	262	14	3,415,415	$ 3.23	0.28	0.41	17.29	0.77
1	500	Base Clothes Drying	SF Low Income	0%	$ -	39	39	18	0	N/A	N/A	N/A	N/A	N/A
1	501	Efficient Clothes Dryer (EF = 2.67)	SF Low Income	15%	$ 50.00	46	39	18	25,422	$ 0.77	1.20	1.60	4.75	0.77
1	600	Base Cooking	SF Low Income	0%	$ -	49	49	15	0	N/A	N/A	N/A	N/A	N/A
1	602	EE Gas Range	SF Low Income	10%	$ 100.00	49	44	15	690,430	$ 2.36	0.39	0.55	13.25	0.77
1	601	Convection Oven	SF Low Income	33%	$ 204.00	49	33	15	2,283,676	$ 1.46	0.63	0.89	8.17	0.77
1	700	Base Other	SF Low Income	0%	$ -	13	13	6	0	N/A	N/A	N/A	N/A	N/A
1	800	Base House Use	SF Low Income	0%	$ -	749	749	1	0	N/A	N/A	N/A	N/A	N/A
1	801	Conservation- Opower	SF Low Income	1%	$ 3.00	749	741	1	2,337,569	$ 0.52	1.77	3.59	0.26	0.77
1	100	Base Furnace	MF Low Income	0%	$ -	753	753	18	0	N/A	N/A	N/A	N/A	N/A
1	116	Floor R-19 to R-30 Insulation-Batts	MF Low Income	2%	$ 833.84	767	751	30	2,648	$ 4.72	0.17	0.22	35.27	0.77
1	110	Crawlspace insulation	MF Low Income	18%	$ 568.98	859	702	30	8,121	$ 0.32	2.53	3.28	2.36	0.77
1	102	Ceiling R-0 to R-38 Insulation	MF Low Income	24%	$ 442.47	978	744	30	21,142	$ 0.16	4.87	6.31	1.22	0.77
1	103	Ceiling R-0 to R-49 Insulation	MF Low Income	25%	$ 535.63	987	744	30	21,897	$ 0.19	4.17	5.40	1.43	0.77
1	106	Ceiling R-19 to R-38 Insulation	MF Low Income	4%	$ 261.99	775	748	30	30,964	$ 0.82	0.97	1.25	6.16	0.77
1	104	Ceiling R-11 to R-38 Insulaton	MF Low Income	8%	$ 343.50	807	744	30	33,539	0	1.69	2.19	3.53	0.77
1	107	Ceiling R-19 to R-49 Insulation	MF Low Income	4%	$ 366.79	781	746	30	38,454	1	0.86	1.11	6.94	0.77
1	105	Ceiling R-11 to R-49 Insulation	MF Low Income	9%	$ 349.32	813	743	30	35,055	0	1.84	2 39	3.24	0.77
1	114	Floor R-0 to R-19 Insulation-Batts	MF Low Income	10%	$ 855.44	788	709	30	93,545	1	0.85	1.10	7.04	0.77
1	101	Basement insulation R-13 (Furnace)	MF Low Income	18%	$ 395.80	798	652	30	98,674	0	3.38	4 37	1.77	0.77

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Vintage
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Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	123	Wall 2x4 R-0 to Blow-In R-13 Insulation	MF Low Income	9%	$ 637.29	816	744	30	108,781	1	1.04	1 34	5.76	0.77
1	115	Floor R-0 to R-30 Insulation-Batts	MF Low Income	12%	$ 1,147.19	796	700	30	113,322	1	0.77	0 99	7.79	0.77
1	121	Self Install Weatherization	MF Low Income	2%	$ 4.56	758	743	5	191,364	0	10.70	19 26	0.20	0.77
1	122	Slab insulation R-0 to R-5 (4 ft)	MF Low Income	7%	$ 309.75	764	713	30	228,555	1	1.53	1 98	3.89	0.77
1	119	Plastic Film (1-2 yr measure, window kit)	MF Low Income	2%	$ 48.23	753	738	1	245,045	4	0.22	0.45	2.08	0.77
1	124	Windows - Add Storm Windows to Double-Glazed	MF Low Income	5%	$ 1,587.84	780	738	10	295,620	6	0.15	0 24	24.72	0.77
1	113	ENERGY STAR Programmable Thermostat	MF Low Income	7%	$ 112.34	788	733	10	400,924	0	2.81	4.44	1.32	0.77
1	127	Windows - Double-Glazed to Energy Star	MF Low Income	6%	$ 116.97	778	731	10	437,067	0	2.28	3.61	1.63	0.77
1	111	Duct insulation	MF Low Income	4%	$ 6,850.13	760	730	20	452,188	23	0.04	0 05	151.89	0.77
1	118	Furnace Diagnostic Testing, Repair and Maintenance	MF Low Income	10%	$ 150.00	809	728	5	494,042	1	1.74	3.12	1.20	0.77
1	108	Comprehensive Shell Air Sealing - Inf. Reduction	MF Low Income	6%	$ 75.83	767	718	10	524,668	0	3.71	5.86	1.00	0.77
1	125	Windows - Add Storm Windows to Single-Glazed	MF Low Income	13%	$ 1,587.84	816	707	10	918,274	2	0.39	0.62	9.45	0.77
1	112	Duct Repair and Sealing	MF Low Income	10%	$ 497.62	756	681	18	1,462,265	1	1.34	1.79	4.27	0.77
1	126	Single Pane to Double Pane with Gas	MF Low Income	32%	$ 69.84	918	624	10	2,606,575	0	24.09	38 08	0.15	0.77
1	109	Condensing Furnace - 94 AFUE (Tier 2)	MF Low Income	17%	$ 974.38	729	602	18	2,177,138	1	1.14	1 53	4.99	0.77
1	200	Base Boiler	MF Low Income	0%	$ -	627	627	20	0	N/A	N/A	N/A	N/A	N/A
1	215	Floor R-19 to R-30 Insulation-Batts	MF Low Income	2%	$ 833.84	639	626	30	22	6	0.14	0.18	42.32	0.77
1	211	Crawlspace insulation	MF Low Income	18%	$ 568.98	716	586	30	67	0	2.11	2.73	2.83	0.77
1	204	Ceiling R-0 to R-38 Insulation	MF Low Income	24%	$ 442.47	816	620	30	174	0	4.06	5 26	1.47	0.77
1	205	Ceiling R-0 to R-49 Insulation	MF Low Income	25%	$ 535.63	822	620	30	180	0	3.47	4 50	1.72	0.77
1	208	Ceiling R-19 to R-38 Insulation	MF Low Income	4%	$ 261.99	646	623	30	254	1	0.81	1 05	7.39	0.77
1	206	Ceiling R-11 to R-38 Insulaton	MF Low Income	8%	$ 343.50	673	620	30	276	1	1.41	1 82	4.24	0.77
1	209	Ceiling R-19 to R-49 Insulation	MF Low Income	4%	$ 366.79	651	622	30	316	1	0.72	0 93	8.33	0.77
1	207	Ceiling R-11 to R-49 Insulation	MF Low Income	9%	$ 349.32	678	620	30	288	1	1.53	1 99	3.89	0.77
1	201	Basement insulation R-13 (Boiler)	MF Low Income	18%	$ 395.80	665	544	30	624	0	2.81	3.65	2.12	0.77
1	213	Floor R-0 to R-19 Insulation-Batts	MF Low Income	10%	$ 855.44	657	591	30	769	1	0.71	0 91	8.45	0.77
1	223	Wall 2x4 R-0 to Blow-In R-13 Insulation	MF Low Income	9%	$ 637.29	680	620	30	894	1	0.86	1.12	6.91	0.77
1	214	Floor R-0 to R-30 Insulation-Batts	MF Low Income	12%	$ 1,147.19	663	584	30	931	1	0.64	0 83	9.35	0.77
1	220	Self Install Weatherization	MF Low Income	2%	$ 4.56	632	619	5	1,572	0	8.92	16.05	0.23	0.77
1	218	Plastic Film (1-2 yr measure, window kit)	MF Low Income	2%	$ 48.23	627	615	1	2,013	5	0.18	0.37	2.49	0.77
1	221	Slab insulation R-0 to R-5 (4 ft)	MF Low Income	9%	$ 309.75	640	585	30	2,385	0	1.62	2.10	3.68	0.77
1	224	Windows - Add Storm Windows to Double-Glazed	MF Low Income	5%	$ 1,587.84	650	615	10	2,429	7	0.13	0 20	29.66	0.77
1	217	Pipe Insulation (Boiler)	MF Low Income	3%	$ 438.48	631	613	30	2,466	2	0.38	0.49	15.73	0.77
1	212	ENERGY STAR Programmable Thermostat	MF Low Income	7%	$ 112.34	657	611	10	3,294	0	2.34	3.70	1.58	0.77
1	227	Windows - Double-Glazed to Energy Star	MF Low Income	6%	$ 116.97	648	609	10	3,591	0	1.90	3 01	1.95	0.77
1	203	Boiler Diagnostic Testing, Repair and Maintenance	MF Low Income	10%	$ 150.00	675	607	5	4,059	1	1.45	2.60	1.44	0.77
1	222	Stack Damper	MF Low Income	4%	$ 219.00	627	602	5	5,033	2	0.37	0.66	5.66	0.77
1	210	Comprehensive Shell Air Sealing - Inf. Reduction	MF Low Income	6%	$ 75.83	640	599	10	5,747	0	3.09	4.89	1.20	0.77
1	225	Windows - Add Storm Windows to Single-Glazed	MF Low Income	13%	$ 1,587.84	680	590	10	7,544	3	0.33	0 52	11.34	0.77
1	216	High Efficiency Condensing Boiler (AFUE = 90%)	MF Low Income	11%	$ 900.00	597	530	20	12,603	1	0.69	0 89	8.65	0.77
1	202	Boiler controls	MF Low Income	11%	$ 585.00	627	558	20	13,840	1	1.08	1.41	5.50	0.77
1	226	Single Pane to Double Pane with Gas	MF Low Income	32%	$ 69.84	765	521	10	21,414	0	20.08	31.74	0.18	0.77
1	300	Base Room Heat	MF Low Income	0%	$ -	223	223	15	0	N/A	N/A	N/A	N/A	N/A
1	313	Floor R-19 to R-30 Insulation-Batts	MF Low Income	2%	$ 833.84	227	223	30	20	16	0.05	0 06	119.10	0.77
1	309	Crawlspace insulation	MF Low Income	18%	$ 568.98	254	208	30	61	1	0.75	0 97	7.96	0.77
1	302	Ceiling R-0 to R-38 Insulation	MF Low Income	24%	$ 442.47	290	220	30	160	1	1.44	1 87	4.14	0.77
1	303	Ceiling R-0 to R-49 Insulation	MF Low Income	25%	$ 535.63	292	220	30	166	1	1.23	1.60	4.83	0.77
1	306	Ceiling R-19 to R-38 Insulation	MF Low Income	4%	$ 261.99	230	221	30	234	3	0.29	0 37	20.79	0.77
1	304	Ceiling R-11 to R-38 Insulaton	MF Low Income	8%	$ 343.50	239	220	30	254	2	0.50	0.65	11.92	0.77
1	307	Ceiling R-19 to R-49 Insulation	MF Low Income	4%	$ 366.79	231	221	30	291	3	0.25	0 33	23.44	0.77
1	305	Ceiling R-11 to R-49 Insulation	MF Low Income	9%	$ 349.32	241	220	30	265	1	0.55	0.71	10.94	0.77
1	301	Basement insulation R-13 (Room Heater)	MF Low Income	18%	$ 395.80	236	193	30	575	1	1.00	1 30	5.97	0.77

DSM ASSYST SUMMARY					Year	2011								
Vintage														
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Household	Base UEC	UEC	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	311	Floor R-0 to R-19 Insulation-Batts	MF Low Income	10%	$ 855.44	233	210	30	708	3	0.25	0 33	23.78	0.77
1	320	Wall 2x4 R-0 to Blow-In R-13 Insulation	MF Low Income	9%	$ 637.29	242	220	30	824	3	0.31	0.40	19.46	0.77
1	312	Floor R-0 to R-30 Insulation-Batts	MF Low Income	12%	$ 1,147.19	236	207	30	858	4	0.23	0 29	26.32	0.77
1	318	Self Install Weatherization	MF Low Income	2%	$ 4.56	225	220	5	1,449	0	3.17	5.70	0.66	0.77
1	310	ENERGY STAR Programmable Thermostat	MF Low Income	7%	$ 112.34	233	217	10	1,518	1	0.83	1 32	4.46	0.77
1	319	Slab insulation R-0 to R-5 (4 ft)	MF Low Income	9%	$ 309.75	227	208	30	2,199	1	0.58	0.75	10.35	0.77
1	321	Windows - Add Storm Windows to Double-Glazed	MF Low Income	5%	$ 1,587.84	231	219	10	2,239	21	0.04	0 07	83.47	0.77
1	324	Windows - Double-Glazed to Energy Star	MF Low Income	6%	$ 116.97	230	217	10	3,310	1	0.68	1 07	5.49	0.77
1	314	Heater Diagnostic Testing, Repair and Maintenance	MF Low Income	10%	$ 123.00	240	216	10	3,741	1	1.12	1.76	3.33	0.77
1	308	Comprehensive Shell Air Sealing - Inf. Reduction	MF Low Income	6%	$ 75.83	227	213	10	5,297	1	1.10	1.74	3.38	0.77
1	316	Radiant Barrier	MF Low Income	7%	$ 71.45	223	208	25	6,263	0	1.94	2.51	3.08	0.77
1	322	Windows - Add Storm Windows to Single-Glazed	MF Low Income	13%	$ 1,587.84	242	210	10	6,953	8	0.12	0.18	31.92	0.77
1	323	Single Pane to Double Pane with Gas	MF Low Income	32%	$ 69.84	272	185	10	19,738	0	7.13	11 28	0.52	0.77
1	315	High efficiency gas room heater	MF Low Income	21%	$ 318.05	224	177	10	22,769	1	0.85	1 34	4.39	0.77
1	400	Base Water Heating (.58)	MF Low Income	0%	$ -	235	235	15	0	N/A	N/A	N/A	N/A	N/A
1	406	Energy Star Dishwasher (EF=0.68)	MF Low Income	2%	$ 143.22	236	231	13	24,123	4	0.25	0 37	18.42	0.77
1	407	CEE Tier 2 DW (EF=0.72)	MF Low Income	2%	$ 222.56	235	229	13	35,500	5	0.18	0 27	25.78	0.77
1	410	Low-Flow Showerheads	MF Low Income	4%	$ 31.89	240	231	10	89,064	1	1.72	2.73	2.15	0.77
1	411	Pipe Wrap	MF Low Income	5%	$ 2.95	241	229	15	102,424	0	32.42	45 89	0.16	0.77
1	403	Drain Water Heat Recovery (GFX)	MF Low Income	38%	$ 742.00	236	147	30	178,540	1	1.10	1.42	5.43	0.77
1	409	Faucent Aerators	MF Low Income	7%	$ 13.74	241	223	10	249,893	0	7.52	11 89	0.49	0.77
1	408	Energy Star Water Heater (EF = .67)	MF Low Income	11%	$ 107.07	240	213	15	443,817	0	2.02	2 86	2.55	0.77
1	402	Condensing Gas Storage water heater (>0.8 EF)	MF Low Income	36%	$ 750.00	235	149	15	870,252	1	0.91	1 28	5.69	0.77
1	413	0.82 EF Tankless Hot Water Heater Energy Star Standard	MF Low Income	28%	$ 621.54	236	171	20	980,841	1	0.96	1 24	6.21	0.77
1	404	2011 Energy Star Clotheswasher (MEF 2.00)	MF Low Income	6%	$ 166.24	237	223	14	165,280	1	0.65	0 94	7.57	0.77
1	412	Solar Water Heater	MF Low Income	50%	$ 4,500.00	236	118	15	1,783,415	4	0.21	0 30	24.73	0.77
1	405	Energy Star CW CEE Tier 3 (MEF=2.20)	MF Low Income	6%	$ 393.16	235	220	14	202,048	3	0.28	0.41	17.29	0.77
1	500	Base Clothes Drying	MF Low Income	0%	$ -	39	39	18	0	N/A	N/A	N/A	N/A	N/A
1	501	Efficient Clothes Dryer (EF = 2.67)	MF Low Income	15%	$ 50.00	46	39	18	2,167	1	1.20	1.60	4.75	0.77
1	600	Base Cooking	MF Low Income	0%	$ -	62	62	15	0	N/A	N/A	N/A	N/A	N/A
1	602	EE Gas Range	MF Low Income	10%	$ 100.00	62	56	15	63,749	2	0.49	0.70	10.49	0.77
1	601	Convection Oven	MF Low Income	33%	$ 204.00	62	42	15	210,857	1	0.80	1.13	6.47	0.77
1	700	Base Other	MF Low Income	0%	$ -	13	13	6	0	N/A	N/A	N/A	N/A	N/A
1	800	Base House Use	MF Low Income	0%	$ -	793	793	1	0	N/A	N/A	N/A	N/A	N/A
1	801	Conservation- Opower	MF Low Income	1%	$ 3.00	793	785	1	211,086	0	1.88	3.80	0.25	0.77

BASIC

DSM ASSYST SUMMARY						Year	2011												
Vintage																			
Batch	1																		
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Peak Reduction Fraction	Total Costs/ Household	Base UEC	UEC	Peak Therms/Day/ Household	Service Life (yrs)	Technical Potential Therms	System Peak Tech. Potential Therms/Day	System Second Peak Tech. Potential Therms/Day	Levelized Cost of Conserved Energy $/Therm	Levelized Cost of Avoided Peak Capacity $/Therm/Day	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
2	100	Base Code Home - ES	Single Family	0%	0%	$ -	2,572	2,572	25.86	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	101	ENERGY STAR Home	Single Family	19%	19%	$ 2,415	2,572	2,075	20.86	20	2,375,563	23,884	3,104	$ 0.49	48	1 90	2.46	3.15	0.77
2	200	Base Dummy Measure	Single Family	0%	0%	$ -	0	0	0.00	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Code Home - ES	Multifamily	0%	0%	$ -	1,612	1,612	16.21	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	101	ENERGY STAR Home	Multifamily	19%	19%	$ 1,732	1,612	1,300	13.07	20	112,750	1,134	147	$ 0.56	55	1 66	2.15	3.60	0.77
2	200	Base Dummy Measure	Multifamily	0%	0%	$ -	0	0	0.00	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Code Home - ES	SF Low Income	0%	0%	$ -	2,652	2,652	26.67	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	101	ENERGY STAR Home	SF Low Income	19%	19%	$ 2,415	2,652	2,139	21.51	20	801,054	8,054	1,047	$ 0.47	47	1 95	2.53	3.05	0.77
2	200	Base Dummy Measure	SF Low Income	0%	0%	$ -	0	0	0.00	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	100	Base Code Home - ES	MF Low Income	0%	0%	$ -	1,697	1,697	17.06	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
2	101	ENERGY STAR Home	MF Low Income	19%	19%	$ 1,732	1,697	1,369	13.76	20	43,692	439	57	$ 0.53	52	1.74	2.26	3.42	0.77
2	200	Base Dummy Measure	MF Low Income	0%	0%	$ -	0	0	0.00	20	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	100	Base Cooking - Fryer	Office	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	Office	31%	$0.10	0.01	0.00	12	153,960	$ 7 35	0.13	0.13	50.55	1.16
1	110	Base Cooking - Steamer	Office	0%	$ -	0.00	0.00	10	0	N/A	N/A	N/A	N/A	N/A
1	120	Base Cooking - Convection Oven	Office	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Office	30%	$0.24	0.00	0.00	12	32,662	$ 114 32	0.01	0.01	786.15	1.16
1	130	Base Cooking - Griddle	Office	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	131	High-Efficiency Griddle	Office	5%	$0.03	0.00	0.00	12	10,172	$ 35.64	0.03	0.03	245.05	1.16
1	140	Base Cooking - Range	Office	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	141	High-Efficiency Range	Office	18%	$0.07	0.00	0.00	12	48,408	$ 17.74	0.05	0.05	121.98	1.16
1	200	Base Heating	Office	0%	$ -	0.63	0.63	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Office	18%	$0.61	0.74	0.60	20	6,716,801	$ 0.45	2.04	1.77	4.23	1.16
1	202	Insula ion (ceiling)	Office	33%	$0.21	0.88	0.59	20	2,879,823	$ 0 07	12.96	11.22	0.67	1.16
1	203	Insulation (wall)	Office	41%	$0.50	1.01	0.59	20	5,998,004	$ 0.12	7.65	6.63	1.13	1.16
1	206	Duct Repair and Sealing	Office	2%	$0.16	0.64	0.63	18	73,454	$ 1 30	0.71	0.63	11.67	1.16
1	207	Duct Insulation	Office	2%	$0.14	0.64	0.63	20	368,429	$ 1.19	0.78	0.67	11.13	1.16
1	209	Insulation of Pipes	Office	2%	$0.10	0.64	0.63	15	363,444	$ 0 91	1.01	0.95	7.42	1.16
1	212	Boiler Tune-Up	Office	2%	$0.00	0.64	0.63	2	189,615	$ 0.11	8.26	10.85	0.16	1.16
1	216	Clock / Programmable Thermostat	Office	15%	$0.12	0.66	0.56	11	21,068,849	$ 0.18	4.99	5.17	1.18	1.16
1	218	Installation of Energy Management Systems (EMS)	Office	10%	$0.20	0.67	0.60	14	8,819,762	$ 0 36	2.54	2.46	2.80	1.16
1	219	EMS Optimization	Office	2%	$0.03	0.64	0.63	5	1,433,515	$ 0.67	1.37	1.65	2.20	1.16
1	221	Heat Recovery from AC	Office	20%	$2.30	0.73	0.58	20	1,488,827	$ 1 58	0.58	0.51	14.81	1.16
1	222	Installation of Air Side Heat Recovery Systems	Office	15%	$1.00	0.73	0.62	20	2,350,643	$ 0 91	1.01	0.88	8.55	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Office	8%	$0.44	0.64	0.59	20	3,105,497	$ 0 86	1.07	0.93	8.04	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	Office	27%	$0.44	0.64	0.47	20	21,786,438	$ 0 25	3.66	3.17	2.36	1.16
1	229	Stack Heat Exchanger	Office	5%	$0.03	0.64	0.61	20	1,875,556	$ 0.10	8.98	7.77	0.96	1.16
1	232	Hot water temperature reset	Office	2%	$0.00	0.64	0.63	15	264,921	$ 0 02	47.31	44.75	0.16	1.16
1	233	Demand controlled ventilation (DCV)	Office	4%	$0.25	0.65	0.62	10	2,056,366	$ 1 54	0.60	0.63	9.02	1.16
1	235	Retrocommissioning	Office	6%	$0.06	0.66	0.62	7	1,579,800	$ 0 34	2.69	3.07	1.51	1.16
1	300	Base Miscellaneous	Office	0%	$ -	0.28	0.28	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Office	0%	$ -	0.09	0.09	15	0	N/A	N/A	N/A	N/A	N/A
1	401	Hot Water Pipe Insulation	Office	2%	$0.01	0.09	0.09	15	720	$ 0 32	2.84	2.69	2.62	1.16
1	402	Demand controlled circula ing systems	Office	6%	$0.00	0.09	0.09	15	718,900	$ 0 04	24.71	23.38	0.30	1.16
1	403	Tankless Water Heater	Office	51%	$0.08	0.09	0.04	20	7,392,728	$ 0.17	5.28	4.57	1.64	1.16
1	500	Base Water Heating - low standby loss (as % of load)	Office	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	100	Base Cooking - Fryer	Restaurant	0%	$ -	0.69	0.69	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	Restaurant	31%	$0.82	0.70	0.49	12	5,558,934	$ 0 51	1.80	1.82	3.52	1.16
1	110	Base Cooking - Steamer	Restaurant	0%	$ -	0.40	0.40	10	0	N/A	N/A	N/A	N/A	N/A
1	111	Energy Star Steamer	Restaurant	81%	$0.52	0.45	0.08	10	1,625,065	$ 0 23	3.99	4.22	1.35	1.16
1	120	Base Cooking - Convection Oven	Restaurant	0%	$ -	0.10	0.10	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Restaurant	30%	$0.20	0.11	0.07	12	285,839	$ 0 82	1.12	1.13	5.64	1.16
1	130	Base Cooking - Griddle	Restaurant	0%	$ -	0.27	0.27	12	0	N/A	N/A	N/A	N/A	N/A
1	131	High-Efficiency Griddle	Restaurant	5%	$0.36	0.28	0.26	12	305,180	$ 3 31	0.28	0.28	22.75	1.16
1	140	Base Cooking - Range	Restaurant	0%	$ -	0.35	0.35	12	0	N/A	N/A	N/A	N/A	N/A
1	141	High-Efficiency Range	Restaurant	18%	$0.31	0.36	0.29	12	1,563,133	$ 0.66	1.39	1.41	4.55	1.16
1	200	Base Heating	Restaurant	0%	$ -	0.15	0.15	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Restaurant	1%	$0.32	0.15	0.15	20	22,173	$ 15 28	0.06	0.05	143.51	1.16
1	202	Insula ion (ceiling)	Restaurant	40%	$0.33	0.18	0.11	20	954,476	$ 0.46	2.01	1.74	4.31	1.16
1	203	Insulation (wall)	Restaurant	33%	$2.02	0.19	0.13	20	177,509	$ 3 23	0.28	0.25	30.35	1.16
1	206	Duct Repair and Sealing	Restaurant	2%	$0.16	0.15	0.15	18	1,667	$ 5.47	0.17	0.15	49.12	1.16
1	209	Insulation of Pipes	Restaurant	2%	$0.22	0.15	0.15	15	1,821	$ 8.10	0.11	0.11	65.74	1.16
1	212	Boiler Tune-Up	Restaurant	2%	$0.03	0.15	0.15	2	950	$ 6 02	0.15	0.20	8.51	1.16
1	216	Clock / Programmable Thermostat	Restaurant	15%	$0.12	0.16	0.14	11	244,305	$ 0.74	1.24	1.28	4.73	1.16
1	218	Installation of Energy Management Systems (EMS)	Restaurant	10%	$0.42	0.15	0.14	14	340,136	$ 3.41	0.27	0.26	26.39	1.16
1	219	EMS Optimization	Restaurant	2%	$0.03	0.15	0.15	5	26,241	$ 2 82	0.33	0.39	9.27	1.16
1	221	Heat Recovery from AC	Restaurant	63%	$2.30	0.15	0.06	20	1,745,771	$ 2.43	0.38	0.33	22.79	1.16
1	222	Installation of Air Side Heat Recovery Systems	Restaurant	25%	$1.00	0.15	0.11	20	649,468	$ 2.66	0.35	0.30	24.96	1.16

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Restaurant	8%	$1.46	0.15	0.14	20	70,484	$ 12 07	0.08	0.07	113.34	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	Restaurant	27%	$1.46	0.15	0.11	20	109,170	$ 3 54	0.26	0.22	33.26	1.16
1	229	Stack Heat Exchanger	Restaurant	5%	$0.10	0.15	0.14	20	9,613	$ 1.44	0.64	0.55	13.57	1.16
1	232	Hot water temperature reset	Restaurant	2%	$0.03	0.15	0.15	15	1,327	$ 1 05	0.88	0.83	8.53	1.16
1	233	Demand controlled ventilation (DCV)	Restaurant	22%	$0.25	0.15	0.12	10	701,079	$ 1 21	0.76	0.80	7.09	1.16
1	300	Base Miscellaneous	Restaurant	0%	$ -	0.44	0.44	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Restaurant	0%	$ -	0.22	0.22	15	0	N/A	N/A	N/A	N/A	N/A
1	401	Hot Water Pipe Insulation	Restaurant	2%	$0.03	0.23	0.22	15	2,010	$ 0 85	1.08	1.02	6.90	1.16
1	402	Demand controlled circula ing systems	Restaurant	2%	$0.02	0.22	0.22	15	76,526	$ 0 59	1.55	1.46	4.82	1.16
1	500	Base Water Heating - low standby loss (as % of load)	Restaurant	0%	$ -	0.28	0.28	15	0	N/A	N/A	N/A	N/A	N/A
1	501	Hot Water Pipe Insulation	Restaurant	2%	$0.03	0.28	0.28	15	2,523	$ 0.68	1.36	1.28	5.50	1.16
1	502	Demand controlled circula ing systems	Restaurant	2%	$0.02	0.28	0.28	15	96,052	$ 0.47	1.94	1.84	3.85	1.16
1	503	Condensing Water Heater (gas, 95% hermal efficiency)	Restaurant	27%	$0.63	0.28	0.21	15	1,242,203	$ 0 96	0.96	0.90	7.81	1.16
1	100	Base Cooking - Fryer	Retail	0%	$ -	0.03	0.03	12	0	N/A	N/A	N/A	N/A	N/A
1	110	Base Cooking - Steamer	Retail	0%	$ -	0.02	0.02	10	0	N/A	N/A	N/A	N/A	N/A
1	120	Base Cooking - Convection Oven	Retail	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Retail	30%	$0.71	0.01	0.00	12	89,038	$ 62 09	0.01	0.02	426.98	1.16
1	130	Base Cooking - Griddle	Retail	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	140	Base Cooking - Range	Retail	0%	$ -	0.02	0.02	12	0	N/A	N/A	N/A	N/A	N/A
1	200	Base Heating	Retail	0%	$ -	0.29	0.29	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Retail	5%	$0.20	0.30	0.28	20	905,832	$ 1 31	0.70	0.61	12.31	1.16
1	202	Insula ion (ceiling)	Retail	23%	$0.38	0.36	0.28	20	920,405	$ 0.45	2.03	1.76	4.25	1.16
1	203	Insulation (wall)	Retail	29%	$1.31	0.37	0.26	20	88,630	$ 1 24	0.74	0.64	11.69	1.16
1	206	Duct Repair and Sealing	Retail	2%	$0.16	0.29	0.29	18	43,123	$ 2 85	0.32	0.29	25.59	1.16
1	207	Duct Insulation	Retail	2%	$0.10	0.29	0.28	20	414,470	$ 1 35	0.68	0.59	12.68	1.16
1	216	Clock / Programmable Thermostat	Retail	15%	$0.12	0.31	0.27	11	3,894,642	$ 0 39	2.36	2.44	2.49	1.16
1	218	Installation of Energy Management Systems (EMS)	Retail	10%	$0.37	0.29	0.27	14	4,040,481	$ 1 52	0.60	0.59	11.78	1.16
1	219	EMS Optimization	Retail	2%	$0.03	0.29	0.29	5	370,718	$ 1.47	0.63	0.75	4.83	1.16
1	222	Installation of Air Side Heat Recovery Systems	Retail	5%	$1.00	0.29	0.27	20	1,835,052	$ 6 92	0.13	0.12	65.03	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Retail	8%	$0.38	0.29	0.27	20	1,823,164	$ 1.64	0.56	0.48	15.43	1.16
1	233	Demand controlled ventilation (DCV)	Retail	15%	$0.25	0.34	0.29	10	303,342	$ 0.79	1.16	1.22	4.65	1.16
1	235	Retrocommissioning	Retail	4%	$0.06	0.30	0.29	7	11,659	$ 1.13	0.82	0.93	4.97	1.16
1	300	Base Miscellaneous	Retail	0%	$ -	0.12	0.12	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Retail	0%	$ -	0.05	0.05	15	0	N/A	N/A	N/A	N/A	N/A
1	401	Hot Water Pipe Insulation	Retail	2%	$0.03	0.05	0.05	15	1,158	$ 3.68	0.25	0.24	29.84	1.16
1	402	Demand controlled circula ing systems	Retail	1%	$0.01	0.05	0.05	15	49,336	$ 1 20	0.76	0.72	9.76	1.16
1	403	Tankless Water Heater	Retail	41%	$0.09	0.05	0.03	20	1,916,229	$ 0.44	2.10	1.82	4.11	1.16
1	500	Base Water Heating - low standby loss (as % of load)	Retail	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	100	Base Cooking - Fryer	Grocery	0%	$ -	0.08	0.08	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	Grocery	31%	$0.11	0.08	0.06	12	530,090	$ 0 58	1.58	1.60	4.00	1.16
1	110	Base Cooking - Steamer	Grocery	0%	$ -	0.05	0.05	10	0	N/A	N/A	N/A	N/A	N/A
1	111	Energy Star Steamer	Grocery	81%	$0.23	0.05	0.01	10	414,348	$ 0 89	1.04	1.10	5.18	1.16
1	120	Base Cooking - Convection Oven	Grocery	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Grocery	30%	$0.11	0.01	0.01	12	38,277	$ 4 08	0.23	0.23	28.09	1.16
1	130	Base Cooking - Griddle	Grocery	0%	$ -	0.03	0.03	12	0	N/A	N/A	N/A	N/A	N/A
1	140	Base Cooking - Range	Grocery	0%	$ -	0.04	0.04	12	0	N/A	N/A	N/A	N/A	N/A
1	200	Base Heating	Grocery	0%	$ -	0.28	0.28	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Grocery	3%	$0.29	0.29	0.28	20	78,227	$ 3.10	0.30	0.26	29.08	1.16
1	206	Duct Repair and Sealing	Grocery	1%	$0.16	0.29	0.28	18	5,207	$ 5 82	0.16	0.14	52.32	1.16
1	216	Clock / Programmable Thermostat	Grocery	15%	$0.12	0.30	0.25	11	1,065,729	$ 0.41	2.24	2.32	2.62	1.16
1	218	Installation of Energy Management Systems (EMS)	Grocery	10%	$0.30	0.30	0.27	14	636,758	$ 1 24	0.74	0.72	9.62	1.16
1	219	EMS Optimization	Grocery	2%	$0.03	0.29	0.28	5	71,617	$ 1.49	0.62	0.74	4.90	1.16
1	221	Heat Recovery from AC	Grocery	84%	$2.30	0.36	0.06	20	6,015,870	$ 0.75	1.22	1.06	7.07	1.16
1	222	Installation of Air Side Heat Recovery Systems	Grocery	15%	$1.00	0.29	0.25	20	870,888	$ 2 27	0.41	0.35	21.31	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Grocery	8%	$0.49	0.29	0.26	20	443,649	$ 2.14	0.43	0.37	20.11	1.16
1	233	Demand controlled ventilation (DCV)	Grocery	37%	$0.25	0.28	0.18	10	3,497,761	$ 0 38	2.41	2.55	2.23	1.16

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	234	Refrigeration heat recovery - space conditioning	Grocery	75%	$1.00	0.29	0.07	15	424,332	$ 0 54	1.71	1.62	4.37	1.16
1	235	Retrocommissioning	Grocery	4%	$0.06	0.29	0.28	7	37,052	$ 1.18	0.78	0.89	5.20	1.16
1	300	Base Miscellaneous	Grocery	0%	$ -	0.10	0.10	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Grocery	0%	$ -	0.21	0.21	15	0	N/A	N/A	N/A	N/A	N/A
1	401	Hot Water Pipe Insulation	Grocery	2%	$0.01	0.21	0.21	15	5,224	$ 0 33	2.76	2.61	2.70	1.16
1	402	Demand controlled circula ing systems	Grocery	1%	$0.02	0.21	0.21	15	28,413	$ 1 30	0.71	0.67	10.54	1.16
1	403	Tankless Water Heater	Grocery	43%	$0.13	0.21	0.12	20	1,671,724	$ 0.14	6.39	5.53	1.35	1.16
1	500	Base Water Heating - low standby loss (as % of load)	Grocery	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	100	Base Cooking - Fryer	Warehouse	0%	$ -	0.03	0.03	12	0	N/A	N/A	N/A	N/A	N/A
1	110	Base Cooking - Steamer	Warehouse	0%	$ -	0.02	0.02	10	0	N/A	N/A	N/A	N/A	N/A
1	120	Base Cooking - Convection Oven	Warehouse	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	130	Base Cooking - Griddle	Warehouse	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	140	Base Cooking - Range	Warehouse	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	200	Base Heating	Warehouse	0%	$ -	0.19	0.19	20	0	N/A	N/A	N/A	N/A	N/A
1	202	Insula ion (ceiling)	Warehouse	23%	$0.48	0.22	0.17	20	3,329,903	$ 0 92	1.00	0.86	8.66	1.16
1	203	Insulation (wall)	Warehouse	29%	$0.66	0.26	0.18	20	298,271	$ 0 90	1.03	0.89	8.42	1.16
1	206	Duct Repair and Sealing	Warehouse	1%	$0.16	0.19	0.19	18	9,682	$ 8 81	0.10	0.09	79.13	1.16
1	209	Insulation of Pipes	Warehouse	2%	$0.08	0.19	0.19	15	16,169	$ 2 30	0.40	0.38	18.69	1.16
1	212	Boiler Tune-Up	Warehouse	2%	$0.00	0.19	0.19	2	8,436	$ 0.40	2.29	3.01	0.57	1.16
1	216	Clock / Programmable Thermostat	Warehouse	15%	$0.12	0.21	0.18	11	1,773,080	$ 0 58	1.59	1.65	3.69	1.16
1	218	Installation of Energy Management Systems (EMS)	Warehouse	10%	$2.33	0.19	0.17	14	3,543,318	$ 14 97	0.06	0.06	115.93	1.16
1	219	EMS Optimization	Warehouse	2%	$0.03	0.19	0.19	5	275,905	$ 2 25	0.41	0.49	7.41	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Warehouse	8%	$0.32	0.19	0.17	20	824,880	$ 2 09	0.44	0.38	19.67	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	Warehouse	27%	$0.32	0.19	0.14	20	969,235	$ 0.61	1.50	1.30	5.77	1.16
1	229	Stack Heat Exchanger	Warehouse	5%	$0.02	0.19	0.18	20	83,440	$ 0 25	3.67	3.18	2.35	1.16
1	230	Condensing unit heaters	Warehouse	21%	$0.04	0.19	0.15	20	7,587,541	$ 0.10	9.34	8.09	0.92	1.16
1	231	Radiant heater	Warehouse	40%	$0.06	0.19	0.11	20	7,240,015	$ 0 08	12.19	10.55	0.71	1.16
1	232	Hot water temperature reset	Warehouse	2%	$0.00	0.19	0.19	15	11,786	$ 0 07	13.12	12.41	0.57	1.16
1	233	Demand controlled ventilation (DCV)	Warehouse	21%	$0.25	0.20	0.15	10	6,576,814	$ 0 98	0.94	0.99	5.73	1.16
1	235	Retrocommissioning	Warehouse	2%	$0.06	0.19	0.19	7	181,636	$ 3 59	0.26	0.29	15.81	1.16
1	300	Base Miscellaneous	Warehouse	0%	$ -	0.11	0.11	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Warehouse	0%	$ -	0.02	0.02	15	0	N/A	N/A	N/A	N/A	N/A
1	401	Hot Water Pipe Insulation	Warehouse	2%	$0.00	0.02	0.02	15	21,216	$ 0.61	1.50	1.42	4.96	1.16
1	402	Demand controlled circula ing systems	Warehouse	4%	$0.00	0.02	0.02	15	82,960	$ 0 23	4.07	3.85	1.83	1.16
1	403	Tankless Water Heater	Warehouse	50%	$0.03	0.02	0.01	20	925,697	$ 0 27	3.38	2.93	2.56	1.16
1	500	Base Water Heating - low standby loss (as % of load)	Warehouse	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	100	Base Cooking - Fryer	School	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	School	31%	$0.02	0.01	0.00	12	121,614	$ 1.60	0.57	0.58	11.03	1.16
1	110	Base Cooking - Steamer	School	0%	$ -	0.00	0.00	10	0	N/A	N/A	N/A	N/A	N/A
1	111	Energy Star Steamer	School	81%	$0.05	0.00	0.00	10	270,500	$ 2 37	0.39	0.41	13.85	1.16
1	120	Base Cooking - Convection Oven	School	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	School	30%	$0.05	0.00	0.00	12	25,163	$ 21.49	0.04	0.04	147.81	1.16
1	130	Base Cooking - Griddle	School	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	131	High-Efficiency Griddle	School	5%	$0.03	0.00	0.00	12	6,970	$ 27 37	0.03	0.03	188.24	1.16
1	140	Base Cooking - Range	School	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	141	High-Efficiency Range	School	18%	$0.10	0.00	0.00	12	1,077	$ 24.77	0.04	0.04	170.37	1.16
1	200	Base Heating	School	0%	$ -	0.34	0.34	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	School	1%	$0.17	0.34	0.33	20	79,300	$ 4 90	0.19	0.16	45.99	1.16
1	206	Duct Repair and Sealing	School	1%	$0.16	0.34	0.34	18	4,475	$ 4 94	0.19	0.17	44.35	1.16
1	209	Insulation of Pipes	School	2%	$0.08	0.34	0.33	15	83,081	$ 1 37	0.67	0.64	11.09	1.16
1	212	Boiler Tune-Up	School	2%	$0.01	0.34	0.33	2	108,032	$ 0.62	1.48	1.95	0.88	1.16
1	216	Clock / Programmable Thermostat	School	15%	$0.12	0.35	0.29	11	4,534,062	$ 0 35	2.61	2.70	2.25	1.16
1	218	Installation of Energy Management Systems (EMS)	School	10%	$0.35	0.36	0.33	14	1,067,485	$ 1.16	0.79	0.77	9.00	1.16
1	219	EMS Optimization	School	2%	$0.03	0.34	0.33	5	277,654	$ 1 26	0.73	0.88	4.15	1.16
1	221	Heat Recovery from AC	School	20%	$2.30	0.34	0.27	20	1,099,510	$ 3.42	0.27	0.23	32.16	1.16
1	222	Installation of Air Side Heat Recovery Systems	School	15%	$1.00	0.34	0.29	20	4,089,082	$ 1 98	0.46	0.40	18.62	1.16

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	School	8%	$1.09	0.34	0.31	20	381,275	$ 4 05	0.23	0.20	38.02	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	School	27%	$1.09	0.34	0.25	20	4,980,245	$ 1.19	0.77	0.67	11.16	1.16
1	229	Stack Heat Exchanger	School	5%	$0.08	0.34	0.32	20	428,740	$ 0.48	1.90	1.64	4.55	1.16
1	232	Hot water temperature reset	School	2%	$0.01	0.34	0.33	15	60,559	$ 0.11	8.52	8.06	0.88	1.16
1	233	Demand controlled ventilation (DCV)	School	32%	$0.25	0.39	0.26	10	7,962,098	$ 0 32	2.83	2.99	1.90	1.16
1	235	Retrocommissioning	School	6%	$0.06	0.34	0.32	7	604,792	$ 0.66	1.39	1.59	2.91	1.16
1	300	Base Miscellaneous	School	0%	$ -	0.04	0.04	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	School	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Water Heating - low standby loss (as % of load)	School	0%	$ -	0.10	0.10	15	0	N/A	N/A	N/A	N/A	N/A
1	501	Hot Water Pipe Insulation	School	2%	$0.02	0.10	0.10	15	1,106	$ 1.10	0.84	0.79	8.93	1.16
1	502	Demand controlled circula ing systems	School	5%	$0.00	0.10	0.10	15	375,069	$ 0.11	8.22	7.78	0.91	1.16
1	503	Condensing Water Heater (gas, 95% hermal efficiency)	School	26%	$0.04	0.10	0.08	15	1,875,392	$ 0.16	5.63	5.33	1.33	1.16
1	100	Base Cooking - Fryer	College	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	110	Base Cooking - Steamer	College	0%	$ -	0.01	0.01	10	0	N/A	N/A	N/A	N/A	N/A
1	120	Base Cooking - Convection Oven	College	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	130	Base Cooking - Griddle	College	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	140	Base Cooking - Range	College	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	200	Base Heating	College	0%	$ -	0.15	0.15	20	0	N/A	N/A	N/A	N/A	N/A
1	206	Duct Repair and Sealing	College	2%	$0.16	0.15	0.15	18	1,004	$ 5.48	0.17	0.15	49.20	1.16
1	207	Duct Insulation	College	4%	$0.04	0.15	0.15	20	13,447	$ 0.75	1.22	1.05	7.09	1.16
1	209	Insulation of Pipes	College	2%	$0.03	0.15	0.15	15	42,455	$ 1.12	0.82	0.78	9.07	1.16
1	212	Boiler Tune-Up	College	2%	$0.00	0.15	0.15	2	22,149	$ 0 33	2.81	3.69	0.46	1.16
1	216	Clock / Programmable Thermostat	College	15%	$0.12	0.16	0.13	11	1,205,440	$ 0.78	1.19	1.23	4.95	1.16
1	218	Installation of Energy Management Systems (EMS)	College	10%	$0.35	0.16	0.14	14	410,408	$ 2.62	0.35	0.34	20.30	1.16
1	219	EMS Optimization	College	2%	$0.03	0.15	0.15	5	83,059	$ 2 82	0.33	0.39	9.28	1.16
1	221	Heat Recovery from AC	College	20%	$2.30	0.16	0.13	20	245,780	$ 7 20	0.13	0.11	67.62	1.16
1	222	Installation of Air Side Heat Recovery Systems	College	9%	$1.00	0.15	0.14	20	534,433	$ 7 20	0.13	0.11	67.61	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	College	8%	$0.79	0.15	0.14	20	42,435	$ 6 57	0.14	0.12	61.66	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	College	27%	$0.79	0.15	0.11	20	2,544,935	$ 1 93	0.48	0.41	18.10	1.16
1	229	Stack Heat Exchanger	College	5%	$0.06	0.15	0.14	20	209,326	$ 0.79	1.16	1.00	7.44	1.16
1	232	Hot water temperature reset	College	2%	$0.00	0.15	0.15	15	30,946	$ 0 06	16.09	15.22	0.46	1.16
1	233	Demand controlled ventilation (DCV)	College	32%	$0.25	0.22	0.15	10	8,197	$ 0 57	1.62	1.71	3.32	1.16
1	235	Retrocommissioning	College	6%	$0.06	0.15	0.14	7	362,550	$ 1 50	0.61	0.70	6.62	1.16
1	300	Base Miscellaneous	College	0%	$ -	0.11	0.11	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	College	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Water Heating - low standby loss (as % of load)	College	0%	$ -	0.12	0.12	15	0	N/A	N/A	N/A	N/A	N/A
1	501	Hot Water Pipe Insulation	College	2%	$0.03	0.12	0.12	15	61	$ 1.60	0.58	0.55	12.94	1.16
1	502	Demand controlled circula ing systems	College	7%	$0.00	0.12	0.11	15	195,229	$ 0 02	54.34	51.40	0.14	1.16
1	503	Condensing Water Heater (gas, 95% hermal efficiency)	College	25%	$0.03	0.12	0.09	15	1,400,827	$ 0.13	7.04	6.66	1.06	1.16
1	100	Base Cooking - Fryer	Heal h	0%	$ -	0.02	0.02	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	Heal h	31%	$0.08	0.02	0.01	12	169,577	$ 2.18	0.42	0.43	14.99	1.16
1	110	Base Cooking - Steamer	Heal h	0%	$ -	0.01	0.01	10	0	N/A	N/A	N/A	N/A	N/A
1	111	Energy Star Steamer	Heal h	81%	$0.39	0.01	0.00	10	622,383	$ 7.72	0.12	0.13	45.13	1.16
1	120	Base Cooking - Convection Oven	Heal h	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Heal h	30%	$0.13	0.00	0.00	12	57,495	$ 23.71	0.04	0.04	163.04	1.16
1	130	Base Cooking - Griddle	Heal h	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	131	High-Efficiency Griddle	Heal h	5%	$0.06	0.01	0.01	12	11,204	$ 24.60	0.04	0.04	169.14	1.16
1	140	Base Cooking - Range	Heal h	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	141	High-Efficiency Range	Heal h	18%	$0.11	0.01	0.01	12	95,417	$ 10.71	0.09	0.09	73.67	1.16
1	200	Base Heating	Heal h	0%	$ -	0.15	0.15	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Heal h	1%	$0.14	0.15	0.15	20	1,548	$ 6 23	0.15	0.13	58.55	1.16
1	203	Insulation (wall)	Heal h	35%	$0.38	0.20	0.13	20	1,875,335	$ 0 56	1.65	1.43	5.23	1.16
1	206	Duct Repair and Sealing	Heal h	2%	$0.16	0.15	0.15	18	2,125	$ 5 54	0.17	0.15	49.81	1.16
1	207	Duct Insulation	Heal h	2%	$0.04	0.15	0.15	20	12,974	$ 1 57	0.59	0.51	14.74	1.16
1	209	Insulation of Pipes	Heal h	2%	$0.12	0.15	0.15	15	31,287	$ 4 56	0.20	0.19	36.98	1.16
1	212	Boiler Tune-Up	Heal h	2%	$0.00	0.15	0.15	2	16,323	$ 0.74	1.25	1.64	1.04	1.16

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	216	Clock / Programmable Thermostat	Heal h	15%	$0.12	0.16	0.13	11	1,376,498	$ 0.78	1.18	1.22	4.96	1.16
1	218	Installation of Energy Management Systems (EMS)	Heal h	10%	$0.19	0.15	0.14	14	952,860	$ 1 50	0.61	0.59	11.63	1.16
1	219	EMS Optimization	Heal h	2%	$0.03	0.15	0.15	5	102,759	$ 2 86	0.32	0.39	9.40	1.16
1	221	Heat Recovery from AC	Heal h	20%	$2.30	0.15	0.12	20	2,170,278	$ 7.75	0.12	0.10	72.79	1.16
1	222	Installation of Air Side Heat Recovery Systems	Heal h	25%	$1.00	0.15	0.11	20	2,543,294	$ 2.70	0.34	0.30	25.32	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Heal h	8%	$0.29	0.15	0.14	20	89,862	$ 2.47	0.37	0.32	23.23	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	Heal h	27%	$0.29	0.15	0.11	20	1,875,495	$ 0.73	1.27	1.10	6.82	1.16
1	229	Stack Heat Exchanger	Heal h	5%	$0.02	0.15	0.14	20	149,952	$ 0 30	3.07	2.66	2.81	1.16
1	232	Hot water temperature reset	Heal h	2%	$0.00	0.15	0.15	15	22,806	$ 0.13	7.13	6.75	1.05	1.16
1	235	Retrocommissioning	Heal h	10%	$0.06	0.15	0.13	7	866,052	$ 0 90	1.02	1.16	3.99	1.16
1	300	Base Miscellaneous	Heal h	0%	$ -	0.21	0.21	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Heal h	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Water Heating - low standby loss (as % of load)	Heal h	0%	$ -	0.24	0.24	15	0	N/A	N/A	N/A	N/A	N/A
1	501	Hot Water Pipe Insulation	Heal h	2%	$0.01	0.25	0.24	15	8,861	$ 0 28	3.25	3.07	2.30	1.16
1	502	Demand controlled circula ing systems	Heal h	6%	$0.00	0.25	0.23	15	841,237	$ 0 02	41.97	39.70	0.18	1.16
1	503	Condensing Water Heater (gas, 95% hermal efficiency)	Heal h	25%	$0.02	0.25	0.19	15	3,665,436	$ 0 05	20.15	19.06	0.37	1.16
1	100	Base Cooking - Fryer	Lodging	0%	$ -	0.03	0.03	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	Lodging	31%	$0.07	0.03	0.02	12	223,700	$ 0 92	1.00	1.01	6.32	1.16
1	110	Base Cooking - Steamer	Lodging	0%	$ -	0.02	0.02	10	0	N/A	N/A	N/A	N/A	N/A
1	111	Energy Star Steamer	Lodging	81%	$0.08	0.02	0.00	10	349,706	$ 0.69	1.34	1.42	4.01	1.16
1	120	Base Cooking - Convection Oven	Lodging	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Lodging	30%	$0.22	0.01	0.00	12	32,305	$ 19 05	0.05	0.05	131.02	1.16
1	130	Base Cooking - Griddle	Lodging	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	131	High-Efficiency Griddle	Lodging	5%	$0.13	0.01	0.01	12	14,780	$ 24 55	0.04	0.04	168.80	1.16
1	140	Base Cooking - Range	Lodging	0%	$ -	0.02	0.02	12	0	N/A	N/A	N/A	N/A	N/A
1	141	High-Efficiency Range	Lodging	18%	$0.39	0.02	0.01	12	63,536	$ 16 95	0.05	0.05	116.55	1.16
1	200	Base Heating	Lodging	0%	$ -	0.36	0.36	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Lodging	3%	$0.66	0.37	0.35	20	33,602	$ 6.12	0.15	0.13	57.45	1.16
1	203	Insulation (wall)	Lodging	7%	$0.40	0.37	0.35	20	203,453	$ 1.62	0.57	0.49	15.17	1.16
1	207	Duct Insulation	Lodging	2%	$0.10	0.36	0.35	20	11,493	$ 1 25	0.74	0.64	11.72	1.16
1	209	Insulation of Pipes	Lodging	2%	$0.07	0.36	0.35	15	19,995	$ 1 07	0.86	0.81	8.69	1.16
1	212	Boiler Tune-Up	Lodging	2%	$0.00	0.36	0.36	2	10,432	$ 0 26	3.51	4.60	0.37	1.16
1	216	Clock / Programmable Thermostat	Lodging	15%	$0.12	0.38	0.32	11	832,246	$ 0 32	2.86	2.96	2.05	1.16
1	218	Installation of Energy Management Systems (EMS)	Lodging	10%	$0.26	0.36	0.33	14	701,425	$ 0 88	1.05	1.02	6.79	1.16
1	219	EMS Optimization	Lodging	2%	$0.03	0.36	0.35	5	65,851	$ 1.19	0.77	0.93	3.91	1.16
1	221	Heat Recovery from AC	Lodging	20%	$2.30	0.36	0.29	20	347,694	$ 3 23	0.29	0.25	30.31	1.16
1	222	Installation of Air Side Heat Recovery Systems	Lodging	5%	$1.00	0.36	0.34	20	325,963	$ 5.61	0.16	0.14	52.71	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Lodging	8%	$0.70	0.36	0.33	20	61,173	$ 2.46	0.37	0.32	23.12	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	Lodging	27%	$0.70	0.36	0.26	20	1,198,572	$ 0.72	1.27	1.10	6.78	1.16
1	229	Stack Heat Exchanger	Lodging	5%	$0.05	0.36	0.34	20	101,491	$ 0 30	3.04	2.63	2.84	1.16
1	232	Hot water temperature reset	Lodging	2%	$0.00	0.36	0.35	15	14,575	$ 0 05	20.07	18.99	0.37	1.16
1	233	Demand controlled ventilation (DCV)	Lodging	12%	$0.25	0.36	0.31	10	1,043,082	$ 0 94	0.98	1.03	5.49	1.16
1	235	Retrocommissioning	Lodging	6%	$0.06	0.38	0.35	7	62,130	$ 0.60	1.53	1.74	2.65	1.16
1	300	Base Miscellaneous	Lodging	0%	$ -	0.04	0.04	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Lodging	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Water Heating - low standby loss (as % of load)	Lodging	0%	$ -	0.29	0.29	15	0	N/A	N/A	N/A	N/A	N/A
1	501	Hot Water Pipe Insulation	Lodging	2%	$0.05	0.29	0.29	15	2,552	$ 0 89	1.03	0.97	7.24	1.16
1	502	Demand controlled circula ing systems	Lodging	3%	$0.00	0.29	0.29	15	39,656	$ 0 03	32.25	30.51	0.23	1.16
1	503	Condensing Water Heater (gas, 95% hermal efficiency)	Lodging	25%	$0.16	0.29	0.22	15	2,869,083	$ 0 25	3.68	3.48	2.03	1.16
1	100	Base Cooking - Fryer	Other	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	101	Energy Star Fryer	Other	31%	$0.14	0.02	0.01	12	92,842	$ 3 95	0.23	0.24	27.16	1.16
1	110	Base Cooking - Steamer	Other	0%	$ -	0.01	0.01	10	0	N/A	N/A	N/A	N/A	N/A
1	111	Energy Star Steamer	Other	81%	$0.26	0.01	0.00	10	12,575	$ 5 30	0.17	0.18	31.01	1.16
1	120	Base Cooking - Convection Oven	Other	0%	$ -	0.00	0.00	12	0	N/A	N/A	N/A	N/A	N/A
1	121	High-Efficiency Convection Oven	Other	30%	$0.18	0.00	0.00	12	33,765	$ 33 82	0.03	0.03	232.54	1.16
1	130	Base Cooking - Griddle	Other	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing									Levelized Cost	Total			
Batch	1			Energy	Total				Technical	of Conserved	Resource		Customer	
	Measure		Building	Savings	Costs/	Base		Service	Potential	Energy	Cost Test	Participant	Payback	Revenue
Segment	Number	Measure	Type	Fraction	Sq Ft	EUI	EUI	Life (yrs)	Therms	$/Therm	(TRC)	Test	(Years)	Test
1	131	High-Efficiency Griddle	Other	5%	$0.15	0.01	0.01	12	7,328	$ 61 26	0.02	0.02	421.28	1.16
1	140	Base Cooking - Range	Other	0%	$ -	0.01	0.01	12	0	N/A	N/A	N/A	N/A	N/A
1	141	High-Efficiency Range	Other	18%	$0.18	0.01	0.01	12	120,071	$ 17.65	0.05	0.05	121.41	1.16
1	200	Base Heating	Other	0%	$ -	0.22	0.22	20	0	N/A	N/A	N/A	N/A	N/A
1	201	High Efficiency Windows (Multiple Glazed, Low Emissivity)	Other	3%	$0.20	0.22	0.21	20	359,495	$ 2 82	0.33	0.28	26.45	1.16
1	202	Insula ion (ceiling)	Other	23%	$0.32	0.27	0.20	20	3,204,936	$ 0 52	1.76	1.52	4.91	1.16
1	203	Insulation (wall)	Other	29%	$0.68	0.30	0.21	20	198,928	$ 0 80	1.16	1.00	7.48	1.16
1	207	Duct Insulation	Other	2%	$0.10	0.22	0.21	20	236,253	$ 2 52	0.36	0.32	23.68	1.16
1	209	Insulation of Pipes	Other	2%	$0.16	0.22	0.21	15	69,445	$ 4 24	0.22	0.21	34.41	1.16
1	212	Boiler Tune-Up	Other	2%	$0.00	0.22	0.22	2	36,231	$ 0.65	1.40	1.85	0.93	1.16
1	216	Clock / Programmable Thermostat	Other	15%	$0.12	0.23	0.19	11	6,352,138	$ 0 54	1.70	1.77	3.44	1.16
1	218	Installation of Energy Management Systems (EMS)	Other	10%	$0.11	0.22	0.20	14	3,998,223	$ 0.62	1.48	1.43	4.81	1.16
1	219	EMS Optimization	Other	2%	$0.03	0.22	0.21	5	443,329	$ 1 97	0.47	0.56	6.47	1.16
1	221	Heat Recovery from AC	Other	10%	$2.30	0.22	0.19	20	289,164	$ 10.66	0.09	0.07	100.10	1.16
1	222	Installation of Air Side Heat Recovery Systems	Other	10%	$1.00	0.22	0.20	20	3,316,907	$ 4 52	0.20	0.18	42.43	1.16
1	227	High Efficiency (Power Burner/ Premium) Furnace 95% efficiency (in situ base=82%)	Other	8%	$0.46	0.22	0.20	20	1,466,005	$ 2.67	0.34	0.30	25.07	1.16
1	228	High Efficiency (Power Burner/ Premium) Boiler 95% efficiency (in situ base=82%)	Other	27%	$0.46	0.22	0.16	20	4,162,843	$ 0.78	1.17	1.02	7.36	1.16
1	229	Stack Heat Exchanger	Other	5%	$0.03	0.22	0.21	20	376,587	$ 0 30	3.03	2.62	2.85	1.16
1	232	Hot water temperature reset	Other	2%	$0.00	0.22	0.21	15	50,620	$ 0.11	8.04	7.61	0.93	1.16
1	233	Demand controlled ventilation (DCV)	Other	12%	$0.25	0.22	0.19	10	6,363,673	$ 1 55	0.59	0.63	9.07	1.16
1	235	Retrocommissioning	Other	6%	$0.06	0.22	0.21	7	499,712	$ 1 01	0.91	1.04	4.46	1.16
1	300	Base Miscellaneous	Other	0%	$ -	0.75	0.75	10	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Water Heating - high standby loss (as % of load)	Other	0%	$ -	0.33	0.33	15	0	N/A	N/A	N/A	N/A	N/A
1	401	Hot Water Pipe Insulation	Other	2%	$0.01	0.33	0.33	15	15,263	$ 0 21	4.34	4.11	1.72	1.16
1	402	Demand controlled circula ing systems	Other	4%	$0.00	0.33	0.32	15	2,076,434	$ 0 03	29.75	28.14	0.25	1.16
1	403	Tankless Water Heater	Other	40%	$0.13	0.33	0.20	20	22,425,180	$ 0.10	9.48	8.21	0.91	1.16
1	500	Base Water Heating - low standby loss (as % of load)	Other	0%	$ -	0.00	0.00	15	0	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY					Year	2011								
Vintage	New													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
2	100	Base Bldg Design - 30%	Office	0%	$ -	0.50	0.50	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Office	30%	$0.90	0.50	0.35	20	433,671	$ 0.60	1.53	1.33	5.64	1.16
2	200	Base Bldg Design - 50%	Office	0%	$ -	0.50	0.50	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Office	50%	$1.80	0.50	0.25	20	481,856	$ 0.72	1.28	1.11	6.77	1.16
2	300	Base Bldg Design - 70%	Office	0%	$ -	0.50	0.50	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Restaurant	0%	$ -	1.75	1.75	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Restaurant	30%	$0.90	1.75	1.23	20	112,254	$ 0.17	5.37	4.65	1.61	1.16
2	200	Base Bldg Design - 50%	Restaurant	0%	$ -	1.75	1.75	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Restaurant	50%	$1.80	1.75	0.88	20	124,727	$ 0.21	4.48	3.88	1.93	1.16
2	300	Base Bldg Design - 70%	Restaurant	0%	$ -	1.75	1.75	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Retail	0%	$ -	0.24	0.24	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Retail	30%	$0.90	0.24	0.17	20	114,834	$ 1.24	0.74	0.64	11.65	1.16
2	200	Base Bldg Design - 50%	Retail	0%	$ -	0.24	0.24	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Retail	50%	$1.80	0.24	0.12	20	127,593	$ 1.49	0.62	0.54	13.98	1.16
2	300	Base Bldg Design - 70%	Retail	0%	$ -	0.24	0.24	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Grocery	0%	$ -	0.51	0.51	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Grocery	30%	$0.90	0.51	0.35	20	35,496	$ 0.59	1.56	1.35	5.56	1.16
2	200	Base Bldg Design - 50%	Grocery	0%	$ -	0.51	0.51	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Grocery	50%	$1.80	0.51	0.25	20	34,510	$ 0.71	1.30	1.12	6.67	1.16
2	300	Base Bldg Design - 70%	Grocery	0%	$ -	0.51	0.51	20	0	N/A	N/A	N/A	N/A	N/A
2	301	Near Zero Energy (60-75%)	Grocery	70%	$5.40	0.51	0.15	20	6,902	$ 1.52	0.60	0.52	14.29	1.16
2	100	Base Bldg Design - 30%	Warehouse	0%	$ -	0.19	0.19	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Warehouse	30%	$0.90	0.19	0.13	20	143,395	$ 1.59	0.58	0.50	14.89	1.16
2	200	Base Bldg Design - 50%	Warehouse	0%	$ -	0.19	0.19	20	0	N/A	N/A	N/A	N/A	N/A
2	300	Base Bldg Design - 70%	Warehouse	0%	$ -	0.19	0.19	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	School	0%	$ -	0.35	0.35	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	School	30%	$0.90	0.35	0.25	20	168,181	$ 0.85	1.09	0.94	7.95	1.16
2	200	Base Bldg Design - 50%	School	0%	$ -	0.35	0.35	20	0	N/A	N/A	N/A	N/A	N/A
2	300	Base Bldg Design - 70%	School	0%	$ -	0.35	0.35	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	College	0%	$ -	0.24	0.24	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	College	30%	$0.90	0.24	0.17	20	69,394	$ 1.22	0.75	0.65	11.50	1.16
2	200	Base Bldg Design - 50%	College	0%	$ -	0.24	0.24	20	0	N/A	N/A	N/A	N/A	N/A
2	300	Base Bldg Design - 70%	College	0%	$ -	0.24	0.24	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Health	0%	$ -	0.36	0.36	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Health	30%	$0.90	0.36	0.25	20	82,450	$ 0.83	1.11	0.96	7.78	1.16
2	200	Base Bldg Design - 50%	Health	0%	$ -	0.36	0.36	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Health	50%	$1.80	0.36	0.18	20	91,611	$ 0.99	0.92	0.80	9.34	1.16
2	300	Base Bldg Design - 70%	Health	0%	$ -	0.36	0.36	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Lodging	0%	$ -	0.44	0.44	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Lodging	30%	$0.90	0.44	0.31	20	57,398	$ 0.67	1.36	1.18	6.34	1.16
2	200	Base Bldg Design - 50%	Lodging	0%	$ -	0.44	0.44	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Lodging	50%	$1.80	0.44	0.22	20	63,776	$ 0.81	1.14	0.98	7.61	1.16
2	300	Base Bldg Design - 70%	Lodging	0%	$ -	0.44	0.44	20	0	N/A	N/A	N/A	N/A	N/A
2	100	Base Bldg Design - 30%	Other	0%	$ -	0.42	0.42	20	0	N/A	N/A	N/A	N/A	N/A
2	101	High Performance Building/Int Design - Tier 1 30%	Other	30%	$0.90	0.42	0.29	20	286,161	$ 0.72	1.29	1.11	6.72	1.16
2	200	Base Bldg Design - 50%	Other	0%	$ -	0.42	0.42	20	0	N/A	N/A	N/A	N/A	N/A
2	201	High Performance Building/Int Design - Tier 2 50%	Other	50%	$1.80	0.42	0.21	20	317,957	$ 0.86	1.07	0.93	8.06	1.16

DSM ASSYST SUMMARY					Year	2011								
Vintage	New													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
2	300	Base Bldg Design - 70%	Other	0%	$ -	0.42	0.42	20	0	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	100	Base Boiler	Food	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Food	3%	$ 0.02	1.00	0.97	15	633,961	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Food	10%	$ 0.00	1.00	0.90	2	716,341	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Food	2%	$ 0.04	1.00	0.98	15	358,170	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Food	1%	$ 0.04	1.00	0.99	15	190,905	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Food	1%	$ 0.03	1.00	0.99	20	179,085	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Food	1%	$ 0.01	1.00	0.99	10	358,170	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Food	4%	$ 0.02	1.00	0.96	15	1,432,681	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Food	8%	$ 0.08	1.00	0.92	15	2,865,362	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Food	12%	$ 0.05	1.00	0.88	2	2,238,564	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Food	5%	$ 0.04	1.00	0.95	15	895,426	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Food	4%	$ 0.01	1.00	0.96	2	171,922	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Food	10%	$ 0.12	1.00	0.90	15	71,634	$ 0.14	6.50	5.48	1.41	1.30
1	113	Thermally activated heat pump/chiller	Food	33%	$ 0.59	1.00	0.67	15	9,455,695	$ 0 21	4.45	3.75	2.06	1.30
1	200	Base HVAC	Food	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Food	24%	$ 0.96	1.00	0.76	20	125,048	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Food	18%	$ 0.42	1.00	0.82	20	92,501	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Food	5%	$ 0.20	1.00	0.95	20	1,713	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Food	2%	$ 0.04	1.00	0.98	20	10,278	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Food	10%	$ 0.36	1.00	0.90	20	51,390	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Food	1%	$ 0.01	1.00	0.99	5	5,139	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Food	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Food	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Food	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Food	8%	$ 0.06	1.01	0.93	8	935,864	$ 0.15	6.06	5 99	0.92	1.30
1	502	Heat Recovery	Food	10%	$ 1.02	1.01	0.91	20	586,097	$ 1 01	0.91	0.70	11.67	1.30
1	504	Process integration	Food	25%	$ 1.11	1.08	0.81	15	2,032,858	$ 0.48	1.93	1.63	4.74	1.30
1	505	Efficient drying	Food	13%	$ 0.68	1.05	0.92	20	530,455	$ 0 50	1.85	1.42	5.75	1.30
1	100	Base Boiler	Textiles-Apparel	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Textiles-Apparel	3%	$ 0.02	1.00	0.97	15	4,676	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Textiles-Apparel	10%	$ 0.00	1.00	0.90	2	5,283	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Textiles-Apparel	2%	$ 0.04	1.00	0.98	15	2,642	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Textiles-Apparel	1%	$ 0.04	1.00	0.99	15	1,408	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Textiles-Apparel	1%	$ 0.03	1.00	0.99	20	1,321	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Textiles-Apparel	1%	$ 0.01	1.00	0.99	10	2,642	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Textiles-Apparel	4%	$ 0.02	1.00	0.96	15	10,567	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Textiles-Apparel	8%	$ 0.08	1.00	0.92	15	21,134	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Textiles-Apparel	12%	$ 0.05	1.00	0.88	2	16,511	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Textiles-Apparel	5%	$ 0.04	1.00	0.95	15	6,604	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Textiles-Apparel	4%	$ 0.01	1.00	0.96	2	1,268	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Textiles-Apparel	10%	$ 0.12	1.00	0.90	15	528	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Textiles-Apparel	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Textiles-Apparel	24%	$ 0.96	1.00	0.76	20	1,572	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Textiles-Apparel	18%	$ 0.42	1.00	0.82	20	1,163	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Textiles-Apparel	5%	$ 0.20	1.00	0.95	20	22	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Textiles-Apparel	2%	$ 0.04	1.00	0.98	20	129	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Textiles-Apparel	10%	$ 0.36	1.00	0.90	20	646	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Textiles-Apparel	1%	$ 0.01	1.00	0.99	5	65	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Textiles-Apparel	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Textiles-Apparel	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Textiles-Apparel	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Textiles-Apparel	5%	$ 0.06	1.01	0.95	8	8,303	$ 0 24	3.78	3.74	1.48	1.30
1	502	Heat Recovery	Textiles-Apparel	25%	$ 1.02	1.08	0.81	20	21,707	$ 0 38	2.43	1 88	4.36	1.30
1	100	Base Boiler	Lumber-Furniture	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A

DSM ASSYST SUMMARY Year 2011
Vintage Existing
Batch 1

Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	101	Improved process control	Lumber-Furniture	3%	$ 0.02	1.00	0.97	15	51,486	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Lumber-Furniture	10%	$ 0.00	1.00	0.90	2	58,177	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Lumber-Furniture	2%	$ 0.04	1.00	0.98	15	29,088	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Lumber-Furniture	1%	$ 0.04	1.00	0.99	15	15,504	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Lumber-Furniture	1%	$ 0.03	1.00	0.99	20	14,544	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Lumber-Furniture	1%	$ 0.01	1.00	0.99	10	29,088	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Lumber-Furniture	4%	$ 0.02	1.00	0.96	15	116,353	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Lumber-Furniture	8%	$ 0.08	1.00	0.92	15	232,706	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Lumber-Furniture	12%	$ 0.05	1.00	0.88	2	181,802	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Lumber-Furniture	5%	$ 0.04	1.00	0.95	15	72,721	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Lumber-Furniture	4%	$ 0.01	1.00	0.96	2	13,962	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Lumber-Furniture	10%	$ 0.12	1.00	0.90	15	5,818	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Lumber-Furniture	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Lumber-Furniture	24%	$ 0.96	1.00	0.76	20	86,265	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Lumber-Furniture	18%	$ 0.42	1.00	0.82	20	63,812	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Lumber-Furniture	5%	$ 0.20	1.00	0.95	20	1,182	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Lumber-Furniture	2%	$ 0.04	1.00	0.98	20	7,090	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Lumber-Furniture	10%	$ 0.36	1.00	0.90	20	35,451	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Lumber-Furniture	1%	$ 0.01	1.00	0.99	5	3,545	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Lumber-Furniture	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Lumber-Furniture	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Lumber-Furniture	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Lumber-Furniture	5%	$ 0.06	1.01	0.95	8	348,621	$ 0 24	3.78	3.74	1.48	1.30
1	502	Heat Recovery	Lumber-Furniture	25%	$ 1.02	1.08	0.81	20	911,466	$ 0 38	2.43	1 88	4.36	1.30
1	100	Base Boiler	Paper	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Paper	3%	$ 0.02	1.00	0.97	15	357,253	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Paper	10%	$ 0.00	1.00	0.90	2	403,675	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Paper	2%	$ 0.04	1.00	0.98	15	201,838	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Paper	1%	$ 0.04	1.00	0.99	15	107,580	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Paper	1%	$ 0.03	1.00	0.99	20	100,919	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Paper	1%	$ 0.01	1.00	0.99	10	201,838	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Paper	4%	$ 0.02	1.00	0.96	15	807,351	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Paper	8%	$ 0.08	1.00	0.92	15	1,614,702	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Paper	12%	$ 0.05	1.00	0.88	2	1,261,486	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Paper	5%	$ 0.04	1.00	0.95	15	504,594	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Paper	4%	$ 0.01	1.00	0.96	2	96,882	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Paper	10%	$ 0.12	1.00	0.90	15	40,368	$ 0.14	6.50	5.48	1.41	1.30
1	113	Thermally activated heat pump/chiller	Paper	33%	$ 0.59	1.00	0.67	15	5,328,516	$ 0 21	4.45	3.75	2.06	1.30
1	200	Base HVAC	Paper	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Paper	24%	$ 0.96	1.00	0.76	20	81,856	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Paper	18%	$ 0.42	1.00	0.82	20	60,551	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Paper	5%	$ 0.20	1.00	0.95	20	1,121	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Paper	2%	$ 0.04	1.00	0.98	20	6,728	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Paper	10%	$ 0.36	1.00	0.90	20	33,640	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Paper	1%	$ 0.01	1.00	0.99	5	3,364	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Paper	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Paper	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Paper	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Paper	3%	$ 0.06	1.01	0.98	8	399,864	$ 0.41	2.27	2 24	2.47	1.30
1	504	Process integration	Paper	15%	$ 1.11	1.05	0.89	15	682,818	$ 0 82	1.12	0 95	8.15	1.30
1	506	Closed hood	Paper	5%	$ 0.44	1.03	0.97	15	265,401	$ 1 00	0.92	0.77	9.99	1.30
1	507	Extended nip press	Paper	16%	$ 1.03	1.07	0.90	20	849,284	$ 0.60	1.53	1.18	6.93	1.30
1	100	Base Boiler	Printing	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Printing	3%	$ 0.02	1.00	0.97	15	18,346	$ 0 06	14.90	12.56	0.61	1.30

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	102	Maintain boilers	Printing	10%	$ 0.00	1.00	0.90	2	20,729	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Printing	2%	$ 0.04	1.00	0.98	15	10,365	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Printing	1%	$ 0.04	1.00	0.99	15	5,524	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Printing	1%	$ 0.03	1.00	0.99	20	5,182	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Printing	1%	$ 0.01	1.00	0.99	10	10,365	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Printing	4%	$ 0.02	1.00	0.96	15	41,459	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Printing	8%	$ 0.08	1.00	0.92	15	82,918	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Printing	12%	$ 0.05	1.00	0.88	2	64,779	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Printing	5%	$ 0.04	1.00	0.95	15	25,912	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Printing	4%	$ 0.01	1.00	0.96	2	4,975	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Printing	10%	$ 0.12	1.00	0.90	15	2,073	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Printing	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Printing	24%	$ 0.96	1.00	0.76	20	52,964	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Printing	18%	$ 0.42	1.00	0.82	20	39,179	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Printing	5%	$ 0.20	1.00	0.95	20	726	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Printing	2%	$ 0.04	1.00	0.98	20	4,353	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Printing	10%	$ 0.36	1.00	0.90	20	21,766	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Printing	1%	$ 0.01	1.00	0.99	5	2,177	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Printing	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Printing	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Printing	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Printing	5%	$ 0.06	1.01	0.96	8	167,511	$ 0 24	3.79	3.75	1.47	1.30
1	505	Efficient drying	Printing	20%	$ 0.82	1.09	0.87	20	337,980	$ 0 38	2.44	1 89	4.34	1.30
1	100	Base Boiler	Chemicals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Chemicals	3%	$ 0.02	1.00	0.97	15	881,605	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Chemicals	10%	$ 0.00	1.00	0.90	2	996,164	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Chemicals	2%	$ 0.04	1.00	0.98	15	498,082	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Chemicals	1%	$ 0.04	1.00	0.99	15	265,478	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Chemicals	1%	$ 0.03	1.00	0.99	20	249,041	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Chemicals	1%	$ 0.01	1.00	0.99	10	498,082	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Chemicals	4%	$ 0.02	1.00	0.96	15	1,992,328	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Chemicals	8%	$ 0.08	1.00	0.92	15	3,984,656	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Chemicals	12%	$ 0.05	1.00	0.88	2	3,113,012	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Chemicals	5%	$ 0.04	1.00	0.95	15	1,245,205	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Chemicals	4%	$ 0.01	1.00	0.96	2	239,079	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Chemicals	10%	$ 0.12	1.00	0.90	15	99,616	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Chemicals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Chemicals	24%	$ 0.96	1.00	0.76	20	107,228	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Chemicals	18%	$ 0.42	1.00	0.82	20	79,319	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Chemicals	5%	$ 0.20	1.00	0.95	20	1,469	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Chemicals	2%	$ 0.04	1.00	0.98	20	8,813	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Chemicals	10%	$ 0.36	1.00	0.90	20	44,066	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Chemicals	1%	$ 0.01	1.00	0.99	5	4,407	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Chemicals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Chemicals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Chemicals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Chemicals	4%	$ 0.06	1.02	0.98	8	821,916	$ 0 30	3.07	3 03	1.82	1.30
1	504	Process integration	Chemicals	13%	$ 1.11	1.10	0.96	15	1,295,941	$ 0 90	1.02	0 86	8.96	1.30
1	508	Improved separation processes	Chemicals	10%	$ 0.29	1.04	0.94	20	1,258,558	$ 0 28	3.28	2 53	3.23	1.30
1	509	Thermal oxidizers	Chemicals	60%	$ 2.67	1.72	0.69	15	1,562,348	$ 0 30	3.08	2.60	2.97	1.30
1	100	Base Boiler	Petroleum	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Petroleum	3%	$ 0.02	1.00	0.97	15	295,887	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Petroleum	10%	$ 0.00	1.00	0.90	2	334,336	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Petroleum	2%	$ 0.04	1.00	0.98	15	167,168	$ 0 26	3.58	3 02	2.56	1.30

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	104	Blowdown steam heat recovery	Petroleum	1%	$ 0.04	1.00	0.99	15	89,101	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Petroleum	1%	$ 0.03	1.00	0.99	20	83,584	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Petroleum	1%	$ 0.01	1.00	0.99	10	167,168	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Petroleum	4%	$ 0.02	1.00	0.96	15	668,672	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Petroleum	8%	$ 0.08	1.00	0.92	15	1,337,344	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Petroleum	12%	$ 0.05	1.00	0.88	2	1,044,800	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Petroleum	5%	$ 0.04	1.00	0.95	15	417,920	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Petroleum	4%	$ 0.01	1.00	0.96	2	80,241	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Petroleum	10%	$ 0.12	1.00	0.90	15	33,434	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Petroleum	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Petroleum	24%	$ 0.96	1.00	0.76	20	36,820	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Petroleum	18%	$ 0.42	1.00	0.82	20	27,237	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Petroleum	5%	$ 0.20	1.00	0.95	20	504	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Petroleum	2%	$ 0.04	1.00	0.98	20	3,026	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Petroleum	10%	$ 0.36	1.00	0.90	20	15,132	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Petroleum	1%	$ 0.01	1.00	0.99	5	1,513	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Petroleum	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Petroleum	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Petroleum	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Petroleum	6%	$ 0.06	1.02	0.96	8	2,718,139	$ 0 20	4.59	4 54	1.22	1.30
1	504	Process integration	Petroleum	13%	$ 1.11	1.05	0.92	15	2,905,009	$ 0 94	0.98	0 83	9.34	1.30
1	510	Flare gas controls and recovery	Petroleum	50%	$ 1.11	1.33	0.67	15	1,176,901	$ 0.19	4.77	4 02	1.92	1.30
1	511	Fouling control	Petroleum	7%	$ 0.05	1.03	0.96	5	1,964,945	$ 0.19	4.74	5 08	0.78	1.30
1	512	Efficient furnaces	Petroleum	6%	$ 0.15	1.03	0.97	20	655,182	$ 0 25	3.69	2 85	2.87	1.30
1	100	Base Boiler	Rubber-Plastics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Rubber-Plastics	3%	$ 0.02	1.00	0.97	15	84,917	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Rubber-Plastics	10%	$ 0.00	1.00	0.90	2	95,951	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Rubber-Plastics	2%	$ 0.04	1.00	0.98	15	47,976	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Rubber-Plastics	1%	$ 0.04	1.00	0.99	15	25,571	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Rubber-Plastics	1%	$ 0.03	1.00	0.99	20	23,988	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Rubber-Plastics	1%	$ 0.01	1.00	0.99	10	47,976	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Rubber-Plastics	4%	$ 0.02	1.00	0.96	15	191,903	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Rubber-Plastics	8%	$ 0.08	1.00	0.92	15	383,805	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Rubber-Plastics	12%	$ 0.05	1.00	0.88	2	299,848	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Rubber-Plastics	5%	$ 0.04	1.00	0.95	15	119,939	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Rubber-Plastics	4%	$ 0.01	1.00	0.96	2	23,028	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Rubber-Plastics	10%	$ 0.12	1.00	0.90	15	9,595	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Rubber-Plastics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Rubber-Plastics	24%	$ 0.96	1.00	0.76	20	75,048	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Rubber-Plastics	18%	$ 0.42	1.00	0.82	20	55,515	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Rubber-Plastics	5%	$ 0.20	1.00	0.95	20	1,028	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Rubber-Plastics	2%	$ 0.04	1.00	0.98	20	6,168	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Rubber-Plastics	10%	$ 0.36	1.00	0.90	20	30,842	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Rubber-Plastics	1%	$ 0.01	1.00	0.99	5	3,084	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Rubber-Plastics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Rubber-Plastics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Rubber-Plastics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Rubber-Plastics	5%	$ 0.06	1.01	0.96	8	96,574	$ 0 24	3.79	3.75	1.47	1.30
1	502	Heat Recovery	Rubber-Plastics	25%	$ 1.02	1.11	0.83	20	221,316	$ 0 37	2.50	1 93	4.24	1.30
1	100	Base Boiler	Stone-Clay-Glass	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Stone-Clay-Glass	3%	$ 0.02	1.00	0.97	15	37,306	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Stone-Clay-Glass	10%	$ 0.00	1.00	0.90	2	42,153	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Stone-Clay-Glass	2%	$ 0.04	1.00	0.98	15	21,077	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Stone-Clay-Glass	1%	$ 0.04	1.00	0.99	15	11,234	$ 0 35	2.65	2 23	3.46	1.30

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	105	Upgrade burner efficiency	Stone-Clay-Glass	1%	$ 0.03	1.00	0.99	20	10,538	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Stone-Clay-Glass	1%	$ 0.01	1.00	0.99	10	21,077	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Stone-Clay-Glass	4%	$ 0.02	1.00	0.96	15	84,306	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Stone-Clay-Glass	8%	$ 0.08	1.00	0.92	15	168,613	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Stone-Clay-Glass	12%	$ 0.05	1.00	0.88	2	131,729	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Stone-Clay-Glass	5%	$ 0.04	1.00	0.95	15	52,692	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Stone-Clay-Glass	4%	$ 0.01	1.00	0.96	2	10,117	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Stone-Clay-Glass	10%	$ 0.12	1.00	0.90	15	4,215	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Stone-Clay-Glass	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Stone-Clay-Glass	24%	$ 0.96	1.00	0.76	20	65,390	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Stone-Clay-Glass	18%	$ 0.42	1.00	0.82	20	48,371	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Stone-Clay-Glass	5%	$ 0.20	1.00	0.95	20	896	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Stone-Clay-Glass	2%	$ 0.04	1.00	0.98	20	5,375	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Stone-Clay-Glass	10%	$ 0.36	1.00	0.90	20	26,873	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Stone-Clay-Glass	1%	$ 0.01	1.00	0.99	5	2,687	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Stone-Clay-Glass	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Stone-Clay-Glass	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Stone-Clay-Glass	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Stone-Clay-Glass	7%	$ 0.06	1.01	0.94	8	1,453,816	$ 0.17	5.33	5 28	1.05	1.30
1	503	Efficient burners	Stone-Clay-Glass	15%	$ 0.23	1.05	0.89	10	2,492,746	$ 0 24	3.86	3.63	1.71	1.30
1	513	Oxyfuel	Stone-Clay-Glass	20%	$ 0.70	1.11	0.89	20	1,543,979	$ 0 32	2.92	2 25	3.64	1.30
1	514	Batch cullet preheating	Stone-Clay-Glass	16%	$ 0.36	1.09	0.91	15	476,973	$ 0 24	3.89	3 28	2.36	1.30
1	100	Base Boiler	Prim Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Prim Metals	3%	$ 0.02	1.00	0.97	15	69,740	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Prim Metals	10%	$ 0.00	1.00	0.90	2	78,802	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Prim Metals	2%	$ 0.04	1.00	0.98	15	39,401	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Prim Metals	1%	$ 0.04	1.00	0.99	15	21,001	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Prim Metals	1%	$ 0.03	1.00	0.99	20	19,700	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Prim Metals	1%	$ 0.01	1.00	0.99	10	39,401	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Prim Metals	4%	$ 0.02	1.00	0.96	15	157,604	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Prim Metals	8%	$ 0.08	1.00	0.92	15	315,208	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Prim Metals	12%	$ 0.05	1.00	0.88	2	246,256	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Prim Metals	5%	$ 0.04	1.00	0.95	15	98,502	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Prim Metals	4%	$ 0.01	1.00	0.96	2	18,912	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Prim Metals	10%	$ 0.12	1.00	0.90	15	7,880	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Prim Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Prim Metals	24%	$ 0.96	1.00	0.76	20	183,486	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Prim Metals	18%	$ 0.42	1.00	0.82	20	135,730	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Prim Metals	5%	$ 0.20	1.00	0.95	20	2,514	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Prim Metals	2%	$ 0.04	1.00	0.98	20	15,081	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Prim Metals	10%	$ 0.36	1.00	0.90	20	75,405	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Prim Metals	1%	$ 0.01	1.00	0.99	5	7,541	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Prim Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Prim Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Prim Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Prim Metals	6%	$ 0.06	1.02	0.96	8	2,068,697	$ 0 20	4.59	4 54	1.22	1.30
1	502	Heat Recovery	Prim Metals	5%	$ 1.02	1.04	0.98	20	375,918	$ 1 97	0.47	0 36	22.75	1.30
1	503	Efficient burners	Prim Metals	20%	$ 0.23	1.06	0.85	10	5,402,821	$ 0.18	5.22	4 92	1.26	1.30
1	515	Preventative maintenance	Prim Metals	2%	$ 0.01	1.00	0.98	5	874,122	$ 0.12	7.60	8.15	0.49	1.30
1	100	Base Boiler	Fab Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Fab Metals	3%	$ 0.02	1.00	0.97	15	59,821	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Fab Metals	10%	$ 0.00	1.00	0.90	2	67,595	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Fab Metals	2%	$ 0.04	1.00	0.98	15	33,797	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Fab Metals	1%	$ 0.04	1.00	0.99	15	18,014	$ 0 35	2.65	2 23	3.46	1.30

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	105	Upgrade burner efficiency	Fab Metals	1%	$ 0.03	1.00	0.99	20	16,899	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Fab Metals	1%	$ 0.01	1.00	0.99	10	33,797	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Fab Metals	4%	$ 0.02	1.00	0.96	15	135,190	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Fab Metals	8%	$ 0.08	1.00	0.92	15	270,379	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Fab Metals	12%	$ 0.05	1.00	0.88	2	211,234	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Fab Metals	5%	$ 0.04	1.00	0.95	15	84,494	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Fab Metals	4%	$ 0.01	1.00	0.96	2	16,223	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Fab Metals	10%	$ 0.12	1.00	0.90	15	6,759	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Fab Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Fab Metals	24%	$ 0.96	1.00	0.76	20	123,361	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Fab Metals	18%	$ 0.42	1.00	0.82	20	91,253	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Fab Metals	5%	$ 0.20	1.00	0.95	20	1,690	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Fab Metals	2%	$ 0.04	1.00	0.98	20	10,139	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Fab Metals	10%	$ 0.36	1.00	0.90	20	50,696	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Fab Metals	1%	$ 0.01	1.00	0.99	5	5,070	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Fab Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Fab Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Fab Metals	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	503	Efficient burners	Fab Metals	20%	$ 0.23	1.04	0.83	10	994,042	$ 0.18	5.11	4 82	1.29	1.30
1	516	Combus ion controls	Fab Metals	8%	$ 0.10	1.03	0.95	8	591,496	$ 0 24	3.88	3 84	1.44	1.30
1	517	Optimize furnace opera ions	Fab Metals	10%	$ 0.16	1.05	0.95	10	470,862	$ 0 24	3.88	3.65	1.70	1.30
1	518	Insulation/reduce heat losses	Fab Metals	5%	$ 0.39	1.05	0.99	15	62,453	$ 0 85	1.08	0 91	8.48	1.30
1	100	Base Boiler	Ind Mach	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Ind Mach	3%	$ 0.02	1.00	0.97	15	32,393	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Ind Mach	10%	$ 0.00	1.00	0.90	2	36,602	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Ind Mach	2%	$ 0.04	1.00	0.98	15	18,301	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Ind Mach	1%	$ 0.04	1.00	0.99	15	9,754	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Ind Mach	1%	$ 0.03	1.00	0.99	20	9,151	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Ind Mach	1%	$ 0.01	1.00	0.99	10	18,301	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Ind Mach	4%	$ 0.02	1.00	0.96	15	73,204	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Ind Mach	8%	$ 0.08	1.00	0.92	15	146,408	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Ind Mach	12%	$ 0.05	1.00	0.88	2	114,381	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Ind Mach	5%	$ 0.04	1.00	0.95	15	45,753	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Ind Mach	4%	$ 0.01	1.00	0.96	2	8,784	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Ind Mach	10%	$ 0.12	1.00	0.90	15	3,660	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Ind Mach	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Ind Mach	24%	$ 0.96	1.00	0.76	20	125,248	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Ind Mach	18%	$ 0.42	1.00	0.82	20	92,649	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Ind Mach	5%	$ 0.20	1.00	0.95	20	1,716	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Ind Mach	2%	$ 0.04	1.00	0.98	20	10,294	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Ind Mach	10%	$ 0.36	1.00	0.90	20	51,472	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Ind Mach	1%	$ 0.01	1.00	0.99	5	5,147	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Ind Mach	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Ind Mach	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Ind Mach	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Ind Mach	5%	$ 0.06	1.01	0.96	8	88,732	$ 0 24	3.79	3.75	1.47	1.30
1	502	Heat Recovery	Ind Mach	20%	$ 1.02	1.09	0.87	20	179,032	$ 0.47	1.96	1 51	5.42	1.30
1	100	Base Boiler	Electronics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Electronics	3%	$ 0.02	1.00	0.97	15	14,062	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Electronics	10%	$ 0.00	1.00	0.90	2	15,890	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Electronics	2%	$ 0.04	1.00	0.98	15	7,945	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Electronics	1%	$ 0.04	1.00	0.99	15	4,235	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Electronics	1%	$ 0.03	1.00	0.99	20	3,972	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Electronics	1%	$ 0.01	1.00	0.99	10	7,945	$ 0.17	5.51	5.18	1.20	1.30

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	107	Load control	Electronics	4%	$ 0.02	1.00	0.96	15	31,780	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Electronics	8%	$ 0.08	1.00	0.92	15	63,559	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Electronics	12%	$ 0.05	1.00	0.88	2	49,656	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Electronics	5%	$ 0.04	1.00	0.95	15	19,862	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Electronics	4%	$ 0.01	1.00	0.96	2	3,814	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Electronics	10%	$ 0.12	1.00	0.90	15	1,589	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Electronics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Electronics	24%	$ 0.96	1.00	0.76	20	26,768	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Electronics	18%	$ 0.42	1.00	0.82	20	19,801	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Electronics	5%	$ 0.20	1.00	0.95	20	367	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Electronics	2%	$ 0.04	1.00	0.98	20	2,200	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Electronics	10%	$ 0.36	1.00	0.90	20	11,001	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Electronics	1%	$ 0.01	1.00	0.99	5	1,100	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Electronics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Electronics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Electronics	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Electronics	5%	$ 0.06	1.01	0.96	8	24,693	$ 0 24	3.79	3.75	1.47	1.30
1	502	Heat Recovery	Electronics	20%	$ 1.02	1.09	0.87	20	49,822	$ 0.47	1.96	1 51	5.42	1.30
1	100	Base Boiler	Transp Equip	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Transp Equip	3%	$ 0.02	1.00	0.97	15	64,270	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Transp Equip	10%	$ 0.00	1.00	0.90	2	72,622	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Transp Equip	2%	$ 0.04	1.00	0.98	15	36,311	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Transp Equip	1%	$ 0.04	1.00	0.99	15	19,354	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Transp Equip	1%	$ 0.03	1.00	0.99	20	18,155	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Transp Equip	1%	$ 0.01	1.00	0.99	10	36,311	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Transp Equip	4%	$ 0.02	1.00	0.96	15	145,243	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Transp Equip	8%	$ 0.08	1.00	0.92	15	290,487	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Transp Equip	12%	$ 0.05	1.00	0.88	2	226,943	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Transp Equip	5%	$ 0.04	1.00	0.95	15	90,777	$ 0.10	8.95	7 54	1.02	1.30
1	111	Leak repair	Transp Equip	4%	$ 0.01	1.00	0.96	2	17,429	$ 0 22	4.10	4 80	0.39	1.30
1	112	Condensate return	Transp Equip	10%	$ 0.12	1.00	0.90	15	7,262	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Transp Equip	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Transp Equip	24%	$ 0.96	1.00	0.76	20	305,566	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Transp Equip	18%	$ 0.42	1.00	0.82	20	226,035	$ 0 23	3.94	3 04	2.69	1.30
1	203	Stack heat exchanger	Transp Equip	5%	$ 0.20	1.00	0.95	20	4,186	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insula ion	Transp Equip	2%	$ 0.04	1.00	0.98	20	25,115	$ 0 20	4.63	3 57	2.29	1.30
1	205	EMS install	Transp Equip	10%	$ 0.36	1.00	0.90	20	125,575	$ 0 36	2.55	1 96	4.16	1.30
1	206	EMS optimization	Transp Equip	1%	$ 0.01	1.00	0.99	5	12,558	$ 0 24	3.79	4 06	0.98	1.30
1	300	Base CHP	Transp Equip	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Transp Equip	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Transp Equip	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Transp Equip	8%	$ 0.06	1.02	0.93	8	383,117	$ 0.15	6.11	6 04	0.92	1.30
1	502	Heat Recovery	Transp Equip	20%	$ 1.02	1.09	0.87	20	480,198	$ 0.47	1.96	1 51	5.42	1.30
1	100	Base Boiler	Misc Ind	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	101	Improved process control	Misc Ind	3%	$ 0.02	1.00	0.97	15	5,903	$ 0 06	14.90	12.56	0.61	1.30
1	102	Maintain boilers	Misc Ind	10%	$ 0.00	1.00	0.90	2	6,670	$ 0 01	92.32	108.06	0.02	1.30
1	103	Flue gas heat recovery/economizer	Misc Ind	2%	$ 0.04	1.00	0.98	15	3,335	$ 0 26	3.58	3 02	2.56	1.30
1	104	Blowdown steam heat recovery	Misc Ind	1%	$ 0.04	1.00	0.99	15	1,777	$ 0 35	2.65	2 23	3.46	1.30
1	105	Upgrade burner efficiency	Misc Ind	1%	$ 0.03	1.00	0.99	20	1,667	$ 0 22	4.15	3 20	2.55	1.30
1	106	Water treatment	Misc Ind	1%	$ 0.01	1.00	0.99	10	3,335	$ 0.17	5.51	5.18	1.20	1.30
1	107	Load control	Misc Ind	4%	$ 0.02	1.00	0.96	15	13,339	$ 0 05	17.86	15.05	0.51	1.30
1	108	Improved insulation	Misc Ind	8%	$ 0.08	1.00	0.92	15	26,679	$ 0.12	7.51	6 33	1.22	1.30
1	109	Steam trap maintenance	Misc Ind	12%	$ 0.05	1.00	0.88	2	20,843	$ 0 28	3.29	3 85	0.49	1.30
1	110	Automa ic steam trap monitoring	Misc Ind	5%	$ 0.04	1.00	0.95	15	8,337	$ 0.10	8.95	7 54	1.02	1.30

DSM ASSYST SUMMARY					Year	2011								
Vintage	Existing													
Batch	1													
Segment	Measure Number	Measure	Building Type	Energy Savings Fraction	Total Costs/ Sq Ft	Base EUI	EUI	Service Life (yrs)	Technical Potential Therms	Levelized Cost of Conserved Energy $/Therm	Total Resource Cost Test (TRC)	Participant Test	Customer Payback (Years)	Revenue Test
1	111	Leak repair	Misc Ind	4%	$ 0.01	1.00	0.96	2	1,601	$ 0.22	4.10	4.80	0.39	1.30
1	112	Condensate return	Misc Ind	10%	$ 0.12	1.00	0.90	15	667	$ 0.14	6.50	5.48	1.41	1.30
1	200	Base HVAC	Misc Ind	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	201	Improve ceiling insulation	Misc Ind	24%	$ 0.96	1.00	0.76	20	36,517	$ 0.40	2.32	1.79	4.57	1.30
1	202	Install high efficiency (95%) condensing furnace/boiler	Misc Ind	18%	$ 0.42	1.00	0.82	20	27,012	$ 0.23	3.94	3.04	2.69	1.30
1	203	Stack heat exchanger	Misc Ind	5%	$ 0.20	1.00	0.95	20	500	$ 0.41	2.25	1.74	4.71	1.30
1	204	Duct insulation	Misc Ind	2%	$ 0.04	1.00	0.98	20	3,001	$ 0.20	4.63	3.57	2.29	1.30
1	205	EMS install	Misc Ind	10%	$ 0.36	1.00	0.90	20	15,007	$ 0.36	2.55	1.96	4.16	1.30
1	206	EMS optimization	Misc Ind	1%	$ 0.01	1.00	0.99	5	1,501	$ 0.24	3.79	4.06	0.98	1.30
1	300	Base CHP	Misc Ind	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	400	Base Other	Misc Ind	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	500	Base Process Heat	Misc Ind	0%	$ -	1.00	1.00	20	0	N/A	N/A	N/A	N/A	N/A
1	501	Process Controls & Management	Misc Ind	5%	$ 0.06	1.01	0.96	8	16,169	$ 0.24	3.79	3.75	1.47	1.30
1	502	Heat Recovery	Misc Ind	20%	$ 1.02	1.06	0.85	20	29,801	$ 0.48	1.91	1.48	5.54	1.30