

2011-2014 OPA-Contracted Province-Wide CDM Program Portfolio

Avoided Costs by Program (\$M)

Program	Avoided Energy Cost	Avoided Capacity Cost	Total Avoided Cost
Consumer	349	468	817
Business	655	906	1,561
Industrial	172	144	316
Low Income	35	9	44
Portfolio	1,211	1,526	2,738

Avoided Cost Table

Discounted		Avoided Energy Cost by Season and Time-of-Use Period (2010 \$/kWh)								Avoided Capacity Costs (2010 \$/kW-yr)		
		Winter			Summer			Shoulder		Generation	Transmission	Distribution
Year #	Year	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak			
1	2008	\$0.083	\$0.079	\$0.041	\$0.085	\$0.069	\$0.040	\$0.044	\$0.034	\$153.90	\$3.93	\$4.97
2	2009	\$0.076	\$0.074	\$0.040	\$0.075	\$0.064	\$0.038	\$0.043	\$0.032	\$147.98	\$3.78	\$4.78
3	2010	\$0.065	\$0.063	\$0.066	\$0.066	\$0.058	\$0.037	\$0.039	\$0.029	\$142.29	\$3.64	\$4.60
4	2011	\$0.059	\$0.055	\$0.033	\$0.064	\$0.054	\$0.032	\$0.036	\$0.027	\$136.82	\$3.50	\$4.42
5	2012	\$0.057	\$0.058	\$0.032	\$0.062	\$0.053	\$0.031	\$0.033	\$0.023	\$131.55	\$3.36	\$4.25
6	2013	\$0.054	\$0.052	\$0.029	\$0.057	\$0.049	\$0.029	\$0.032	\$0.022	\$126.49	\$3.23	\$4.09
7	2014	\$0.052	\$0.051	\$0.028	\$0.055	\$0.047	\$0.029	\$0.032	\$0.023	\$121.63	\$3.11	\$3.93
8	2015	\$0.059	\$0.058	\$0.035	\$0.063	\$0.055	\$0.033	\$0.043	\$0.027	\$116.95	\$2.99	\$3.78
9	2016	\$0.058	\$0.056	\$0.037	\$0.062	\$0.055	\$0.033	\$0.042	\$0.025	\$112.45	\$2.87	\$3.63
10	2017	\$0.056	\$0.054	\$0.036	\$0.062	\$0.054	\$0.032	\$0.040	\$0.025	\$108.13	\$2.76	\$3.49
11	2018	\$0.055	\$0.053	\$0.035	\$0.059	\$0.054	\$0.031	\$0.040	\$0.023	\$103.97	\$2.66	\$3.36
12	2019	\$0.054	\$0.052	\$0.034	\$0.058	\$0.053	\$0.031	\$0.040	\$0.023	\$99.97	\$2.56	\$3.23
13	2020	\$0.051	\$0.047	\$0.030	\$0.054	\$0.048	\$0.028	\$0.032	\$0.023	\$96.12	\$2.46	\$3.11
14	2021	\$0.049	\$0.047	\$0.029	\$0.052	\$0.046	\$0.027	\$0.038	\$0.021	\$92.43	\$2.36	\$2.99
15	2022	\$0.044	\$0.042	\$0.025	\$0.045	\$0.040	\$0.024	\$0.028	\$0.018	\$88.87	\$2.27	\$2.87
16	2023	\$0.040	\$0.038	\$0.022	\$0.043	\$0.037	\$0.022	\$0.023	\$0.016	\$85.45	\$2.18	\$2.76
17	2024	\$0.038	\$0.036	\$0.021	\$0.042	\$0.036	\$0.022	\$0.022	\$0.016	\$82.17	\$2.10	\$2.65
18	2025	\$0.038	\$0.036	\$0.021	\$0.041	\$0.035	\$0.021	\$0.022	\$0.015	\$79.01	\$2.02	\$2.55
19	2026	\$0.039	\$0.037	\$0.021	\$0.040	\$0.035	\$0.021	\$0.026	\$0.015	\$75.97	\$1.94	\$2.45
20	2027	\$0.039	\$0.036	\$0.021	\$0.040	\$0.035	\$0.021	\$0.025	\$0.016	\$73.05	\$1.87	\$2.36
21	2028	\$0.037	\$0.035	\$0.020	\$0.038	\$0.033	\$0.020	\$0.024	\$0.015	\$70.24	\$1.80	\$2.27
22	2029	\$0.036	\$0.034	\$0.020	\$0.037	\$0.032	\$0.019	\$0.023	\$0.014	\$67.54	\$1.73	\$2.18
23	2030	\$0.035	\$0.032	\$0.019	\$0.036	\$0.031	\$0.019	\$0.023	\$0.014	\$64.94	\$1.66	\$2.10
24	2031	\$0.033	\$0.031	\$0.018	\$0.034	\$0.030	\$0.018	\$0.022	\$0.013	\$62.44	\$1.60	\$2.02
25	2032	\$0.032	\$0.030	\$0.017	\$0.033	\$0.029	\$0.017	\$0.021	\$0.013	\$60.04	\$1.53	\$1.94
26	2033	\$0.031	\$0.029	\$0.017	\$0.032	\$0.028	\$0.016	\$0.020	\$0.012	\$57.73	\$1.48	\$1.87
27	2034	\$0.030	\$0.028	\$0.016	\$0.030	\$0.026	\$0.016	\$0.019	\$0.012	\$55.51	\$1.42	\$1.79
28	2035	\$0.028	\$0.027	\$0.016	\$0.029	\$0.025	\$0.015	\$0.019	\$0.011	\$53.37	\$1.36	\$1.72
29	2036	\$0.027	\$0.026	\$0.015	\$0.028	\$0.024	\$0.015	\$0.018	\$0.011	\$51.32	\$1.31	\$1.66
30	2037	\$0.026	\$0.025	\$0.014	\$0.027	\$0.024	\$0.014	\$0.017	\$0.011	\$49.35	\$1.26	\$1.59
31	2038	\$0.025	\$0.024	\$0.014	\$0.026	\$0.023	\$0.014	\$0.016	\$0.010	\$47.45	\$1.21	\$1.53
32	2039	\$0.024	\$0.023	\$0.013	\$0.025	\$0.022	\$0.013	\$0.016	\$0.010	\$45.62	\$1.17	\$1.47
33	2040	\$0.023	\$0.022	\$0.013	\$0.024	\$0.021	\$0.013	\$0.015	\$0.009	\$43.87	\$1.12	\$1.42
34	2041	\$0.023	\$0.021	\$0.012	\$0.023	\$0.020	\$0.012	\$0.015	\$0.009	\$42.18	\$1.08	\$1.36
35	2042	\$0.022	\$0.020	\$0.012	\$0.022	\$0.019	\$0.012	\$0.014	\$0.009	\$40.56	\$1.04	\$1.31
36	2043	\$0.021	\$0.019	\$0.011	\$0.021	\$0.019	\$0.011	\$0.014	\$0.008	\$39.00	\$1.00	\$1.26
37	2044	\$0.020	\$0.019	\$0.011	\$0.021	\$0.018	\$0.011	\$0.013	\$0.008	\$37.50	\$0.96	\$1.21
38	2045	\$0.019	\$0.018	\$0.010	\$0.020	\$0.017	\$0.010	\$0.013	\$0.008	\$36.06	\$0.92	\$1.16
39	2046	\$0.019	\$0.017	\$0.010	\$0.019	\$0.017	\$0.010	\$0.012	\$0.007	\$34.67	\$0.89	\$1.12
40	2047	\$0.018	\$0.017	\$0.010	\$0.018	\$0.016	\$0.010	\$0.012	\$0.007	\$33.34	\$0.85	\$1.08
41	2048	\$0.017	\$0.016	\$0.009	\$0.018	\$0.015	\$0.009	\$0.011	\$0.007	\$32.06	\$0.82	\$1.04
42	2049	\$0.016	\$0.015	\$0.009	\$0.017	\$0.015	\$0.009	\$0.011	\$0.007	\$30.82	\$0.79	\$1.00
43	2050	\$0.016	\$0.015	\$0.009	\$0.016	\$0.014	\$0.008	\$0.010	\$0.006	\$29.64	\$0.76	\$0.96

Consumer Program*Savings are at the Generator Level (including transmission and distribution system losses)*

Year	Annual Energy Savings (GWh)								
	Summer			Winter			Shoulder		Total
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak	
2008	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0
2011	14	14	35	12	19	39	22	30	185
2012	29	29	74	28	39	82	47	64	391
2013	47	47	117	44	61	129	73	100	618
2014	64	64	161	61	84	177	100	137	848
2015	63	64	159	61	83	175	99	135	839
2016	62	63	156	61	81	172	97	132	824
2017	60	61	153	60	79	168	94	128	802
2018	58	59	148	59	76	163	90	123	775
2019	54	55	138	57	71	152	82	113	722
2020	51	52	131	55	66	143	76	104	677
2021	48	49	123	52	62	134	70	96	634
2022	43	44	110	47	55	121	60	83	563
2023	35	35	88	39	46	99	46	63	451
2024	26	26	66	32	36	78	31	44	339
2025	17	17	44	25	27	58	17	25	230
2026	17	17	44	24	27	57	17	25	228
2027	16	15	40	24	25	54	14	21	209
2028	14	14	37	23	23	50	11	18	191
2029	10	10	27	18	17	37	7	12	137
2030	6	6	16	12	10	23	3	6	83
2031	3	3	8	6	5	12	2	3	43
2032	0	0	0	0	0	0	0	0	1
2033	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0
2039	0	0	0	0	0	0	0	0	0
2040	0	0	0	0	0	0	0	0	0
2041	0	0	0	0	0	0	0	0	0
2042	0	0	0	0	0	0	0	0	0
2043	0	0	0	0	0	0	0	0	0
2044	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0
TOTAL	738	742	1,873	799	993	2,124	1,059	1,463	9,791

Annual Electric Peak Demand Savings (MW)	
Year	Total
2008	0
2009	0
2010	0
2011	62
2012	145
2013	242
2014	342
2015	341
2016	340
2017	338
2018	335
2019	331
2020	325
2021	319
2022	284
2023	230
2024	166
2025	102
2026	102
2027	101
2028	100
2029	77
2030	52
2031	27
2032	0
2033	0
2034	0
2035	0
2036	0
2037	0
2038	0
2039	0
2040	0
2041	0
2042	0
2043	0
2044	0
2045	0
2046	0
2047	0
2048	0
2049	0
2050	0

Consumer Program - Avoided Energy & Capacity Costs

Year	Avoided Energy Cost (\$K)										Avoided Capacity Cost (\$K)		
	Summer					Winter					Generation	Transmission	Distribution
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off-Peak	Shoulder	Total			
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	897	751	1,120	731	1,032	1,278	800	826	7,436	7,436	218	275	275
2012	1,832	1,565	2,316	1,577	2,251	2,629	1,553	1,470	15,193	15,193	489	618	618
2013	2,663	2,286	3,415	2,372	3,169	3,756	2,327	2,194	22,183	22,183	782	989	989
2014	3,562	3,050	4,586	3,193	4,233	4,998	3,212	3,171	29,995	29,995	1,063	1,344	1,344
2015	3,983	3,486	5,259	3,578	4,786	6,196	4,248	3,597	35,134	35,134	39,938	1,021	1,290
2016	3,849	3,420	5,137	3,489	4,557	6,456	4,068	3,345	34,320	34,320	38,253	978	1,236
2017	3,722	3,322	4,916	3,359	4,262	6,095	3,706	3,144	32,525	32,525	36,518	934	1,180
2018	3,435	3,163	4,590	3,231	4,064	5,717	3,616	2,891	30,706	30,706	34,846	891	1,126
2019	3,137	2,924	4,292	3,076	3,688	5,179	3,250	2,623	28,170	28,170	33,101	846	1,069
2020	2,729	2,493	3,719	2,761	3,113	4,301	2,447	2,338	23,902	23,902	31,246	799	1,009
2021	2,487	2,249	3,358	2,532	2,902	3,908	2,639	2,040	22,115	22,115	29,489	754	953
2022	1,964	1,738	2,629	2,049	2,353	3,011	1,716	1,515	16,976	16,976	25,265	646	816
2023	1,496	1,291	1,934	1,573	1,732	2,195	1,055	1,023	12,301	12,301	19,671	503	636
2024	1,093	935	1,416	1,213	1,293	1,674	695	713	9,032	9,032	13,677	350	442
2025	708	594	909	937	988	1,207	375	385	6,103	6,103	8,061	206	260
2026	687	584	918	951	1,010	1,210	435	384	6,178	6,178	7,721	197	249
2027	626	533	839	932	914	1,141	356	334	5,675	5,675	7,360	188	238
2028	541	464	738	878	811	1,025	276	268	5,001	5,001	7,014	179	227
2029	369	318	512	642	565	722	169	171	3,468	3,468	5,176	132	167
2030	209	182	298	418	339	440	75	82	2,044	2,044	3,401	87	110
2031	105	91	149	208	169	220	38	42	1,022	1,022	1,692	43	55
2032	2	1	2	1	1	2	1	1	12	12	2	0	0
2033	1	1	1	0	1	1	1	1	6	6	1	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
2039	0	0	0	0	0	0	0	0	0	0	0	0	0
2040	0	0	0	0	0	0	0	0	0	0	0	0	0
2041	0	0	0	0	0	0	0	0	0	0	0	0	0
2042	0	0	0	0	0	0	0	0	0	0	0	0	0
2043	0	0	0	0	0	0	0	0	0	0	0	0	0
2044	0	0	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	40,085	35,443	53,054	39,705	48,234	63,360	37,059	32,557	349,497	349,497	442,272	11,306	14,288

Business Program

Savings are at the Generator Level (including transmission and distribution system losses)

Year	Annual Energy Savings (MWh)								
	Summer			Winter			Shoulder		Total
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak	
2008	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0
2011	17	20	30	40	38	41	42	33	261
2012	35	40	63	87	83	86	86	68	548
2013	49	54	88	138	127	126	120	94	798
2014	64	69	114	198	177	169	157	121	1,067
2015	59	63	105	190	169	159	146	111	1,003
2016	54	58	94	184	160	148	135	100	933
2017	52	56	91	181	157	144	132	97	910
2018	52	56	91	181	157	144	132	97	909
2019	52	56	91	181	157	144	131	96	908
2020	51	54	88	179	154	140	128	94	888
2021	48	50	83	176	150	133	121	88	849
2022	44	46	77	172	144	125	112	82	802
2023	39	40	69	166	138	115	101	73	741
2024	37	38	65	163	135	111	97	70	715
2025	36	36	63	162	133	108	94	67	700
2026	33	34	58	155	127	101	88	62	658
2027	31	32	52	146	119	92	81	55	608
2028	28	29	44	135	110	82	73	47	548
2029	25	26	38	122	101	72	66	41	492
2030	25	26	38	122	101	72	66	41	492
2031	21	22	32	119	97	66	58	35	450
2032	18	18	28	117	93	61	51	30	416
2033	18	17	27	116	92	60	49	29	408
2034	17	16	25	115	91	58	47	27	396
2035	16	15	24	115	91	57	46	26	390
2036	15	14	23	107	85	53	43	24	365
2037	14	13	21	98	77	49	39	22	335
2038	14	12	20	87	69	44	36	21	302
2039	13	11	18	73	59	38	33	19	263
2040	13	11	18	73	58	38	32	18	261
2041	12	11	17	70	56	36	31	18	252
2042	12	11	17	67	54	35	31	18	244
2043	7	6	10	58	45	27	20	11	185
2044	1	1	2	40	30	15	7	3	97
2045	1	1	1	29	22	11	5	2	72
2046	0	1	1	16	12	6	3	1	41
2047	0	0	0	0	0	0	1	0	3
2048	0	0	0	0	0	0	1	0	3
2049	0	0	0	0	0	0	1	0	3
2050	0	0	0	0	0	0	1	0	3
TOTAL	1,025	1,066	1,728	4,382	3,669	2,965	2,643	1,842	19,319

Annual Electric Peak Demand Savings (MW)	
Year	Total
2008	0
2009	0
2010	0
2011	108
2012	237
2013	376
2014	534
2015	439
2016	424
2017	418
2018	418
2019	418
2020	414
2021	405
2022	394
2023	380
2024	373
2025	370
2026	354
2027	334
2028	309
2029	282
2030	282
2031	276
2032	272
2033	271
2034	269
2035	268
2036	251
2037	228
2038	202
2039	169
2040	169
2041	162
2042	154
2043	136
2044	96
2045	71
2046	39
2047	0
2048	0
2049	0
2050	0

Business Program - Avoided Energy & Capacity Costs

Year	Avoided Energy Cost (\$K)									
	Summer			Winter			Shoulder			Total
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak		
2008	0	0	0	0	0	0	0	0	0	
2009	0	0	0	0	0	0	0	0	0	
2010	0	0	0	0	0	0	0	0	0	
2011	1,102	1,073	984	2,313	2,114	1,347	1,507	889	889	11,329
2012	2,186	2,135	1,983	4,970	4,785	2,775	2,866	1,565	1,565	23,263
2013	2,828	2,659	2,581	7,423	6,593	3,674	3,815	2,064	2,064	31,637
2014	3,557	3,265	3,238	10,323	8,948	4,765	5,015	2,794	2,794	41,906
2015	3,734	3,473	3,458	11,171	9,769	5,611	6,265	2,956	2,956	46,436
2016	3,353	3,147	3,106	10,605	8,990	5,530	5,651	2,538	2,538	42,918
2017	3,244	3,055	2,936	10,201	8,483	5,224	5,208	2,376	2,376	40,727
2018	3,099	2,996	2,819	9,958	8,377	5,053	5,289	2,268	2,268	39,859
2019	3,050	2,971	2,816	9,751	8,180	4,881	5,198	2,242	2,242	39,089
2020	2,718	2,594	2,510	9,088	7,274	4,202	4,131	2,105	2,105	34,623
2021	2,457	2,316	2,269	8,603	7,054	3,875	4,563	1,878	1,878	33,014
2022	1,992	1,831	1,843	7,531	6,140	3,122	3,183	1,489	1,489	27,131
2023	1,673	1,486	1,513	6,654	5,213	2,534	2,327	1,181	1,181	22,580
2024	1,546	1,366	1,406	6,240	4,793	2,376	2,142	1,126	1,126	20,994
2025	1,456	1,277	1,302	6,183	4,788	2,258	2,074	1,025	1,025	20,364
2026	1,334	1,185	1,215	6,046	4,736	2,136	2,293	953	953	19,898
2027	1,233	1,098	1,077	5,688	4,342	1,959	2,066	862	862	18,324
2028	1,065	957	888	5,043	3,854	1,665	1,792	713	713	15,976
2029	923	843	738	4,398	3,393	1,416	1,554	600	600	13,865
2030	887	810	710	4,229	3,262	1,362	1,494	577	577	13,332
2031	728	646	578	3,966	3,003	1,195	1,251	468	468	11,834
2032	605	520	476	3,737	2,786	1,061	1,062	385	385	10,632
2033	560	478	440	3,576	2,656	1,001	989	355	355	10,054
2034	507	426	397	3,414	2,521	934	905	320	320	9,423
2035	472	393	368	3,270	2,407	884	847	297	297	8,939
2036	432	354	333	2,941	2,165	794	765	267	267	8,051
2037	389	313	295	2,583	1,901	698	676	235	235	7,090
2038	355	281	265	2,200	1,625	604	599	210	210	6,139
2039	319	248	233	1,787	1,328	503	516	182	182	5,116
2040	302	233	220	1,714	1,272	479	489	172	172	4,880
2041	285	218	206	1,587	1,178	446	458	161	161	4,539
2042	272	208	195	1,451	1,082	414	432	153	153	4,206
2043	149	116	112	1,212	878	307	277	91	91	3,141
2044	15	16	20	798	550	161	93	21	21	1,674
2045	12	13	15	563	389	115	68	16	16	1,191
2046	9	9	10	297	206	62	39	10	10	642
2047	5	5	4	4	5	4	7	3	3	36
2048	4	5	4	4	5	4	7	3	3	35
2049	4	5	4	3	5	4	6	3	3	34
2050	4	4	3	3	4	4	6	3	3	32
TOTAL	48,866	45,028	43,566	181,528	147,051	75,439	77,922	35,557	35,557	654,958

Year	Avoided Capacity Cost (\$K)			Distribution
	Generation	Transmission		
2008	0	0	0	0
2009	0	0	0	0
2010	0	0	0	0
2011	14,824	379	379	479
2012	31,194	797	797	1,008
2013	47,529	1,215	1,215	1,536
2014	64,967	1,661	1,661	2,099
2015	51,300	1,311	1,311	1,657
2016	47,719	1,220	1,220	1,542
2017	45,234	1,156	1,156	1,461
2018	43,481	1,112	1,112	1,405
2019	41,798	1,068	1,068	1,350
2020	39,761	1,016	1,016	1,285
2021	37,447	957	957	1,210
2022	35,015	895	895	1,131
2023	32,462	830	830	1,049
2024	30,689	785	785	991
2025	29,243	748	748	945
2026	26,914	688	688	869
2027	24,388	623	623	788
2028	21,687	554	554	701
2029	19,052	487	487	616
2030	18,320	468	468	592
2031	17,253	441	441	557
2032	16,314	417	417	527
2033	15,625	399	399	505
2034	14,934	382	382	482
2035	14,315	366	366	462
2036	12,860	329	329	415
2037	11,270	288	288	364
2038	9,563	244	244	309
2039	7,719	197	197	249
2040	7,408	189	189	239
2041	6,847	175	175	221
2042	6,244	160	160	202
2043	5,320	136	136	172
2044	3,613	92	92	117
2045	2,551	65	65	82
2046	1,344	34	34	43
2047	13	0	0	0
2048	13	0	0	0
2049	12	0	0	0
2050	12	0	0	0
TOTAL	856,254	21,888		27,663

Industrial Program

Savings are at the Generator Level (including transmission and distribution system losses)

Year	Annual Energy Savings (MWh)								
	Summer			Winter			Shoulder		Total
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak	
2008	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0
2011	3	3	8	3	4	8	6	8	44
2012	11	13	30	10	15	30	24	30	164
2013	21	23	55	19	27	55	45	55	300
2014	30	34	80	27	39	81	65	81	436
2015	30	34	80	26	39	80	65	80	434
2016	30	34	80	26	39	80	65	80	434
2017	30	34	80	26	39	80	65	80	434
2018	30	34	80	26	39	80	65	80	434
2019	30	34	80	26	39	80	65	80	434
2020	30	34	80	26	39	80	65	80	434
2021	28	32	76	25	37	76	61	76	412
2022	25	28	66	21	32	66	53	66	358
2023	18	21	49	16	24	49	40	49	266
2024	9	10	24	8	12	24	20	24	131
2025	4	5	12	4	6	12	10	12	65
2026	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0
2039	0	0	0	0	0	0	0	0	0
2040	0	0	0	0	0	0	0	0	0
2041	0	0	0	0	0	0	0	0	0
2042	0	0	0	0	0	0	0	0	0
2043	0	0	0	0	0	0	0	0	0
2044	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0
TOTAL	328	375	880	287	427	885	712	885	4,781

Annual Electric Peak Demand Savings (MW)	
Year	Total
2008	0
2009	0
2010	0
2011	44
2012	105
2013	168
2014	229
2015	76
2016	76
2017	76
2018	76
2019	76
2020	76
2021	72
2022	62
2023	45
2024	21
2025	11
2026	0
2027	0
2028	0
2029	0
2030	0
2031	0
2032	0
2033	0
2034	0
2035	0
2036	0
2037	0
2038	0
2039	0
2040	0
2041	0
2042	0
2043	0
2044	0
2045	0
2046	0
2047	0
2048	0
2049	0
2050	0

Industrial Program - Avoided Energy & Capacity Costs

Year	Avoided Energy Cost (\$K)											Total
	Summer			Winter			Shoulder			Total		
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off-Peak				
2008	0	0	0	0	0	0	0	0	0	0		
2009	0	0	0	0	0	0	0	0	0	0		
2010	0	0	0	0	0	0	0	0	0	0		
2011	192	185	259	168	214	266	233	218	218	1,734	1,734	
2012	700	683	949	591	843	974	813	701	701	6,255	6,255	
2013	1,175	1,150	1,611	999	1,387	1,613	1,412	1,215	1,215	10,562	10,562	
2014	1,656	1,619	2,284	1,401	1,968	2,272	2,070	1,866	1,866	15,135	15,135	
2015	1,880	1,869	2,645	1,518	2,247	2,842	2,773	2,143	2,143	17,916	17,916	
2016	1,855	1,866	2,630	1,493	2,180	3,013	2,716	2,036	2,036	17,790	17,790	
2017	1,846	1,857	2,579	1,456	2,100	2,920	2,558	1,975	1,975	17,291	17,291	
2018	1,766	1,824	2,482	1,421	2,074	2,827	2,601	1,889	1,889	16,885	16,885	
2019	1,740	1,812	2,484	1,392	2,026	2,733	2,559	1,871	1,871	16,616	16,616	
2020	1,599	1,638	2,278	1,309	1,828	2,416	2,092	1,809	1,809	14,969	14,969	
2021	1,461	1,489	2,073	1,202	1,734	2,222	2,322	1,626	1,626	14,130	14,130	
2022	1,117	1,122	1,579	936	1,360	1,657	1,513	1,209	1,209	10,494	10,494	
2023	784	774	1,075	636	902	1,091	912	796	796	6,971	6,971	
2024	378	373	519	298	417	520	433	392	392	3,330	3,330	
2025	182	179	248	148	209	252	214	184	184	1,617	1,617	
2026	0	0	0	0	0	0	0	0	0	0	0	
2027	0	0	0	0	0	0	0	0	0	0	0	
2028	0	0	0	0	0	0	0	0	0	0	0	
2029	0	0	0	0	0	0	0	0	0	0	0	
2030	0	0	0	0	0	0	0	0	0	0	0	
2031	0	0	0	0	0	0	0	0	0	0	0	
2032	0	0	0	0	0	0	0	0	0	0	0	
2033	0	0	0	0	0	0	0	0	0	0	0	
2034	0	0	0	0	0	0	0	0	0	0	0	
2035	0	0	0	0	0	0	0	0	0	0	0	
2036	0	0	0	0	0	0	0	0	0	0	0	
2037	0	0	0	0	0	0	0	0	0	0	0	
2038	0	0	0	0	0	0	0	0	0	0	0	
2039	0	0	0	0	0	0	0	0	0	0	0	
2040	0	0	0	0	0	0	0	0	0	0	0	
2041	0	0	0	0	0	0	0	0	0	0	0	
2042	0	0	0	0	0	0	0	0	0	0	0	
2043	0	0	0	0	0	0	0	0	0	0	0	
2044	0	0	0	0	0	0	0	0	0	0	0	
2045	0	0	0	0	0	0	0	0	0	0	0	
2046	0	0	0	0	0	0	0	0	0	0	0	
2047	0	0	0	0	0	0	0	0	0	0	0	
2048	0	0	0	0	0	0	0	0	0	0	0	
2049	0	0	0	0	0	0	0	0	0	0	0	
2050	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	18,331	18,439	25,696	14,967	21,489	27,619	25,219	19,933	19,933	171,694	171,694	

Year	Avoided Capacity Cost (\$K)		
	Generation	Transmission	Distribution
2008	0	0	0
2009	0	0	0
2010	0	0	0
2011	6,079	155	196
2012	13,829	354	447
2013	21,200	542	685
2014	27,902	713	901
2015	8,888	227	287
2016	8,545	218	276
2017	8,213	210	265
2018	7,893	202	255
2019	7,586	194	245
2020	7,294	186	236
2021	6,645	170	215
2022	5,467	140	177
2023	3,847	98	124
2024	1,761	45	57
2025	839	21	27
2026	0	0	0
2027	0	0	0
2028	0	0	0
2029	0	0	0
2030	0	0	0
2031	0	0	0
2032	0	0	0
2033	0	0	0
2034	0	0	0
2035	0	0	0
2036	0	0	0
2037	0	0	0
2038	0	0	0
2039	0	0	0
2040	0	0	0
2041	0	0	0
2042	0	0	0
2043	0	0	0
2044	0	0	0
2045	0	0	0
2046	0	0	0
2047	0	0	0
2048	0	0	0
2049	0	0	0
2050	0	0	0
TOTAL	135,989.69	3,476.29	4,393.36

Low Income Program

Savings are at the Generator Level (including transmission and distribution system losses)

Year	Annual Energy Savings (MWh)								
	Summer			Winter			Shoulder		Total
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak	
2008	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0
2011	1	2	4	0	1	2	2	2	14
2012	4	4	9	1	2	4	4	5	32
2013	6	6	15	1	3	6	6	8	50
2014	8	8	21	2	4	7	7	11	68
2015	8	8	21	2	4	7	7	11	68
2016	8	8	21	2	4	7	7	11	68
2017	8	8	21	2	4	7	7	11	68
2018	8	8	21	2	4	7	7	10	66
2019	7	7	20	2	3	6	7	9	62
2020	7	7	19	1	3	6	6	9	58
2021	7	7	19	1	3	5	6	8	55
2022	6	7	18	1	2	5	5	8	52
2023	6	6	17	1	2	4	5	7	48
2024	5	6	15	1	2	3	4	6	43
2025	5	5	14	1	2	3	4	6	39
2026	5	5	13	1	1	3	3	5	35
2027	4	4	12	0	1	2	2	4	30
2028	4	4	10	0	0	1	2	3	23
2029	3	3	9	0	0	1	1	2	20
2030	3	3	9	0	0	1	1	2	20
2031	3	3	9	0	0	1	1	2	20
2032	3	3	9	0	0	1	1	2	20
2033	3	3	9	0	0	0	1	2	19
2034	3	3	9	0	0	0	1	2	19
2035	3	3	9	0	0	0	1	2	18
2036	3	3	9	0	0	0	1	2	18
2037	3	3	9	0	0	0	1	2	18
2038	3	3	9	0	0	0	1	2	18
2039	3	3	9	0	0	0	1	2	18
2040	3	3	9	0	0	0	1	2	18
2041	2	3	7	0	0	0	1	2	15
2042	2	2	5	0	0	0	1	1	11
2043	1	1	3	0	0	0	0	1	6
2044	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0
TOTAL	146	151	413	21	46	89	106	163	1,137

Annual Electric Peak Demand Savings (MW)	
Year	Total
2008	0
2009	0
2010	0
2011	1
2012	3
2013	4
2014	6
2015	6
2016	6
2017	6
2018	6
2019	6
2020	6
2021	6
2022	5
2023	5
2024	5
2025	4
2026	3
2027	2
2028	1
2029	1
2030	1
2031	1
2032	1
2033	0
2034	0
2035	0
2036	0
2037	0
2038	0
2039	0
2040	0
2041	0
2042	0
2043	0
2044	0
2045	0
2046	0
2047	0
2048	0
2049	0
2050	0

Low Income Program - Avoided Energy & Capacity Costs

Year	Avoided Energy Cost (\$K)										Total
	Summer			Winter			Shoulder				
	On Peak	Mid-Peak	Off-Peak	On Peak	Mid-Peak	Off-Peak	Mid-Peak	Off Peak			
2008	0	0	0	0	0	0	0	0	0		
2009	0	0	0	0	0	0	0	0	0		
2010	0	0	0	0	0	0	0	0	0		
2011	96	82	128	20	50	56	59	62	62	554	
2012	219	189	294	44	118	124	125	122	122	1,235	
2013	320	278	440	64	158	166	180	176	176	1,783	
2014	429	375	601	86	197	206	239	246	246	2,380	
2015	487	433	697	97	225	258	320	283	283	2,800	
2016	481	433	693	96	218	274	313	269	269	2,776	
2017	479	431	679	93	210	265	295	261	261	2,714	
2018	448	415	643	89	198	245	289	241	241	2,568	
2019	421	395	619	83	172	212	260	220	220	2,382	
2020	371	344	548	75	140	169	196	197	197	2,042	
2021	342	317	508	67	125	147	211	174	174	1,890	
2022	290	265	431	55	102	116	146	140	140	1,545	
2023	254	229	369	45	79	90	105	113	113	1,285	
2024	226	205	332	37	62	74	87	100	100	1,124	
2025	205	185	297	32	56	64	79	86	86	1,002	
2026	186	170	281	26	47	53	81	77	77	922	
2027	166	151	249	17	32	37	62	63	63	778	
2028	136	124	206	7	14	17	40	44	44	587	
2029	115	105	176	6	10	13	32	36	36	491	
2030	110	101	169	6	9	12	31	35	35	472	
2031	106	97	163	5	9	12	29	33	33	454	
2032	101	92	155	4	7	10	27	31	31	428	
2033	96	88	148	3	6	8	24	28	28	401	
2034	91	83	140	2	4	5	22	26	26	373	
2035	87	78	133	0	2	3	19	23	23	345	
2036	83	75	128	0	2	3	18	22	22	332	
2037	80	73	123	0	2	2	17	21	21	319	
2038	77	70	118	0	2	2	17	21	21	307	
2039	74	67	114	0	2	2	16	20	20	295	
2040	71	65	109	0	1	2	16	19	19	283	
2041	56	51	86	0	1	2	12	15	15	223	
2042	39	35	60	0	1	1	8	10	10	155	
2043	20	18	31	0	0	1	4	5	5	80	
2044	0	0	0	0	0	0	0	0	0	0	
2045	0	0	0	0	0	0	0	0	0	0	
2046	0	0	0	0	0	0	0	0	0	0	
2047	0	0	0	0	0	0	0	0	0	0	
2048	0	0	0	0	0	0	0	0	0	0	
2049	0	0	0	0	0	0	0	0	0	0	
2050	0	0	0	0	0	0	0	0	0	0	
TOTAL	6,765	6,118	9,868	1,061	2,259	2,651	3,381	3,219	3,219	35,322	

Year	Avoided Capacity Cost (\$K)		
	Generation	Transmission	Distribution
2008	0	0	0
2009	0	0	0
2010	0	0	0
2011	160	4	5
2012	348	9	11
2013	544	14	18
2014	744	19	24
2015	716	18	23
2016	688	18	22
2017	662	17	21
2018	630	16	20
2019	593	15	19
2020	555	14	18
2021	509	13	16
2022	464	12	15
2023	414	11	13
2024	371	9	12
2025	303	8	10
2026	227	6	7
2027	146	4	5
2028	60	2	2
2029	53	1	2
2030	51	1	2
2031	49	1	2
2032	39	1	1
2033	27	1	1
2034	14	0	0
2035	0	0	0
2036	0	0	0
2037	0	0	0
2038	0	0	0
2039	0	0	0
2040	0	0	0
2041	0	0	0
2042	0	0	0
2043	0	0	0
2044	0	0	0
2045	0	0	0
2046	0	0	0
2047	0	0	0
2048	0	0	0
2049	0	0	0
2050	0	0	0
TOTAL	8,367	214	270