

Example 2: Technology Screening Analysis

Table A. Measure Savings

Year	Measure Energy Savings (kWh)								Measure Demand Savings On Peak (kW)	Annual Water Savings litres/yr
	Winter			Summer			Shoulder			
	On Peak	Mid-Peak	Off Peak	On Peak	Mid-Peak	Off Peak	Mid-Peak	Off Peak		
1	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
2	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
3	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
4	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
5	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
6	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
7	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
8	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
9	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
10	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
11	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800
12	37.48	42.84	100.50	32.50	48.75	101.06	81.26	101.06	0.04	26,800

Table B. Measure Savings Including Distribution System Losses

Year	Measure Energy Savings (kWh)								Measure Demand Savings On Peak (kW)	Annual Water Savings litres/yr
	Winter			Summer			Shoulder			
	On Peak	Mid-Peak	Off Peak	On Peak	Mid-Peak	Off Peak	Mid-Peak	Off Peak		
1	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
2	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
3	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
4	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
5	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
6	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
7	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
8	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
9	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
10	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
11	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800
12	38.98	44.55	104.52	33.80	50.70	105.10	84.51	105.10	0.04	26,800

Table C. Avoided Electricity & Water Costs

Year	Ontario Seasonal Average Avoided Energy Cost (2005 CAD\$/kWh)								Avoided Capacity Costs (2005 CAD\$/kW-yr)			Avoided Water Cost (2005 CAD\$)
	Winter			Summer			Shoulder		Generator	Transmission	Distribution	
	On Peak	Mid-Peak	Off Peak	On Peak	Mid-Peak	Off Peak	Mid-Peak	Off Peak				
	602	688	1,614	522	783	1,623	1,305	1,623	N/A	N/A	N/A	N/A
1	\$0.118	\$0.082	\$0.044	\$0.110	\$0.079	\$0.046	\$0.082	\$0.041	\$0.00	\$0.00	\$0.00	\$0.7470
2	\$0.119	\$0.080	\$0.043	\$0.106	\$0.076	\$0.044	\$0.078	\$0.039	\$0.00	\$0.00	\$0.00	\$0.7470
3	\$0.107	\$0.081	\$0.045	\$0.103	\$0.078	\$0.047	\$0.084	\$0.042	\$69.32	\$5.22	\$0.00	\$0.7470
4	\$0.101	\$0.070	\$0.044	\$0.095	\$0.072	\$0.043	\$0.078	\$0.039	\$75.71	\$5.22	\$6.50	\$0.7470
5	\$0.100	\$0.068	\$0.046	\$0.095	\$0.071	\$0.043	\$0.074	\$0.038	\$63.19	\$5.22	\$6.50	\$0.7470
6	\$0.095	\$0.067	\$0.045	\$0.089	\$0.070	\$0.042	\$0.073	\$0.037	\$73.65	\$5.22	\$6.50	\$0.7470
7	\$0.095	\$0.066	\$0.045	\$0.095	\$0.071	\$0.043	\$0.074	\$0.040	\$68.31	\$5.22	\$6.50	\$0.7470
8	\$0.103	\$0.071	\$0.049	\$0.096	\$0.075	\$0.044	\$0.076	\$0.043	\$50.55	\$5.22	\$6.50	\$0.7470
9	\$0.101	\$0.074	\$0.050	\$0.102	\$0.078	\$0.045	\$0.079	\$0.044	\$37.34	\$5.22	\$6.50	\$0.7470
10	\$0.100	\$0.074	\$0.054	\$0.118	\$0.083	\$0.049	\$0.080	\$0.047	\$18.10	\$5.22	\$6.50	\$0.7470
11	\$0.100	\$0.074	\$0.054	\$0.116	\$0.082	\$0.049	\$0.080	\$0.047	\$20.49	\$5.22	\$6.50	\$0.7470
12	\$0.101	\$0.074	\$0.054	\$0.114	\$0.081	\$0.049	\$0.079	\$0.047	\$22.26	\$5.22	\$6.50	\$0.7470

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Table D. Avoided Electricity & Water Cost Savings

Year	Savings (\$)									Savings (\$)			Savings (\$)
	Winter			Summer			Shoulder			Avoided Capacity			
	On Peak	Mid-Peak	Off Peak	On Peak	Mid-Peak	Off Peak	Mid-Peak	Off Peak	Off Peak	Generation	Transmission	Distribution	
1	\$4.59	\$3.65	\$4.63	\$3.73	\$4.03	\$4.87	\$6.94	\$4.34	\$0.00	\$0.00	\$0.00	\$20.02	
2	\$4.62	\$3.57	\$4.49	\$3.59	\$3.84	\$4.59	\$6.55	\$4.09	\$0.00	\$0.00	\$0.00	\$20.02	
3	\$4.18	\$3.59	\$4.75	\$3.47	\$3.93	\$4.90	\$7.09	\$4.38	\$2.70	\$0.20	\$0.00	\$20.02	
4	\$3.95	\$3.11	\$4.63	\$3.20	\$3.65	\$4.53	\$6.57	\$4.13	\$2.95	\$0.20	\$0.25	\$20.02	
5	\$3.91	\$3.05	\$4.82	\$3.20	\$3.61	\$4.48	\$6.24	\$4.04	\$2.46	\$0.20	\$0.25	\$20.02	
6	\$3.70	\$2.97	\$4.75	\$3.01	\$3.55	\$4.39	\$6.14	\$3.90	\$2.87	\$0.20	\$0.25	\$20.02	
7	\$3.68	\$2.96	\$4.68	\$3.22	\$3.61	\$4.53	\$6.29	\$4.23	\$2.66	\$0.20	\$0.25	\$20.02	
8	\$4.00	\$3.16	\$5.14	\$3.25	\$3.80	\$4.66	\$6.41	\$4.48	\$1.97	\$0.20	\$0.25	\$20.02	
9	\$3.93	\$3.30	\$5.26	\$3.46	\$3.93	\$4.77	\$6.69	\$4.58	\$1.46	\$0.20	\$0.25	\$20.02	
10	\$3.88	\$3.29	\$5.69	\$4.00	\$4.23	\$5.13	\$6.79	\$4.92	\$0.71	\$0.20	\$0.25	\$20.02	
11	\$3.91	\$3.31	\$5.64	\$3.93	\$4.18	\$5.12	\$6.73	\$4.92	\$0.80	\$0.20	\$0.25	\$20.02	
12	\$3.94	\$3.31	\$5.60	\$3.86	\$4.13	\$5.11	\$6.68	\$4.91	\$0.87	\$0.20	\$0.25	\$20.02	

Table E. Discounted Avoided Electricity & Water Cost Savings

Year	Discount Rate Factor	Discounted Savings (\$)									Discounted Savings (\$)			Discounted Savings (\$)	Total Savings
		Winter			Summer			Shoulder			Avoided Capacity				
		On Peak	Mid-Peak	Off Peak	On Peak	Mid-Peak	Off Peak	Mid-Peak	Off Peak	Off Peak	Generation	Transmission	Distribution		
1	1.0000	\$4.59	\$3.65	\$4.63	\$3.73	\$4.03	\$4.87	\$6.94	\$4.34	\$0.00	\$0.00	\$0.00	\$20.02	\$56.79	
2	1.0750	\$4.30	\$3.32	\$4.18	\$3.34	\$3.57	\$4.27	\$6.09	\$3.80	\$0.00	\$0.00	\$0.00	\$18.62	\$51.51	
3	1.1556	\$3.62	\$3.11	\$4.11	\$3.00	\$3.40	\$4.24	\$6.14	\$3.79	\$2.34	\$0.18	\$0.18	\$17.32	\$51.42	
4	1.2423	\$3.18	\$2.50	\$3.73	\$2.58	\$2.94	\$3.65	\$5.29	\$3.32	\$2.38	\$0.16	\$0.16	\$16.11	\$46.00	
5	1.3355	\$2.93	\$2.28	\$3.61	\$2.39	\$2.70	\$3.35	\$4.67	\$3.02	\$1.85	\$0.15	\$0.15	\$14.99	\$42.10	
6	1.4356	\$2.58	\$2.07	\$3.31	\$2.10	\$2.48	\$3.06	\$4.27	\$2.72	\$2.00	\$0.14	\$0.14	\$13.94	\$38.80	
7	1.5433	\$2.39	\$1.92	\$3.03	\$2.09	\$2.34	\$2.94	\$4.07	\$2.74	\$1.73	\$0.13	\$0.13	\$12.97	\$36.47	
8	1.6590	\$2.41	\$1.90	\$3.10	\$1.96	\$2.29	\$2.81	\$3.87	\$2.70	\$1.19	\$0.12	\$0.12	\$12.07	\$34.53	
9	1.7835	\$2.20	\$1.85	\$2.95	\$1.94	\$2.20	\$2.68	\$3.75	\$2.57	\$0.82	\$0.11	\$0.11	\$11.23	\$32.41	
10	1.9172	\$2.02	\$1.72	\$2.97	\$2.09	\$2.21	\$2.68	\$3.54	\$2.57	\$0.37	\$0.11	\$0.11	\$10.44	\$30.80	
11	2.0610	\$1.90	\$1.60	\$2.74	\$1.91	\$2.03	\$2.48	\$3.26	\$2.39	\$0.39	\$0.10	\$0.10	\$9.71	\$28.61	
12	2.2156	\$1.78	\$1.50	\$2.53	\$1.74	\$1.86	\$2.31	\$3.01	\$2.22	\$0.39	\$0.09	\$0.09	\$9.04	\$26.55	

Table F. Measure Costs and Benefits

Year	Electricity Benefits	Water Benefits	Measure Costs
1	\$36.77	\$20.02	\$7.00
2	\$32.88	\$18.62	
3	\$34.10	\$17.32	
4	\$29.89	\$16.11	
5	\$27.11	\$14.99	
6	\$24.86	\$13.94	
7	\$23.50	\$12.97	
8	\$22.47	\$12.07	
9	\$21.18	\$11.23	
10	\$20.36	\$10.44	
11	\$18.90	\$9.71	
12	\$17.52	\$9.04	
	\$309.52	\$166.47	
	\$476.00	\$7.00	