

SMALL COMMERCIAL BUILDING CONTROLS					2020	ELECTRIC	GOAL
2020 Net Present Cost Benefit Summary Analysis For All Participants					Input Summary and Totals		
	Participant	Utility	Rate	Modified	Program Inputs per Customer kW		
	Test	Test	Impact	TRC	Lifetime (Weighted on Generator kWh)	A	5 years
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Annual Hours	B	8760
Benefits					Gross Customer kW	C	1 kW
Avoided Revenue Requirements					Generator Peak Coincidence Factor	D	100.00%
Generation Capacity	N/A	\$641,384	\$641,384	\$641,384	Gross Load Factor at Customer	E	0.19%
Trans. & Dist. Capacity	N/A	\$80,321	\$80,321	\$80,321	Net-to-Gross (Energy)	F	100.0%
Marginal Energy	N/A	\$2,695	\$2,695	\$2,695	Net-to-Gross (Demand)	G	100.0%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Transmission Loss Factor (Energy)	H	6.380%
Subtotal				\$724,401	Transmission Loss Factor (Demand)	I	9.129%
Non-Energy Benefits Adder (20%)				\$144,880	Installation Rate (Energy)	J	100.0%
Subtotal	N/A	\$724,401	\$724,401	\$869,282	Installation Rate (Demand)	K	100.0%
Other Benefits					MTRC Net Benefit (Cost)	L	\$365
Bill Reduction - Electric	\$13,970	N/A	N/A	N/A	MTRC Non-Energy Benefit Adder	M	\$100
Participant Rebates and Incentives	\$146,898	N/A	N/A	\$146,898	Gross Annual kWh Saved at Customer	(B x E x C)	16 kWh
Incremental Capital Savings	\$0	N/A	N/A	\$0	Net Annual kWh Saved at Customer	(F x (B x E x C x J))	16 kWh
Incremental O&M Savings	\$0	N/A	N/A	\$0	Net Annual kWh Saved at Generator	(F x (B x E x C x J)) / (1 - H)	17 kWh
Subtotal	\$160,868	N/A	N/A	\$146,898	Program Summary All Participants		
Total Benefits	\$160,868	\$724,401	\$724,401	\$1,016,179	Total Budget	N	\$337,498
Utility Project Costs					Gross kW Saved at Customer	O	1,455 kW
Program Planning & Design	N/A	\$0	\$0	\$0	Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	1,601 kW
Administration & Program Delivery	N/A	\$162,600	\$162,600	\$162,600	Net Annual kWh Saved at Customer	(F x (B x E x O x J))	23,694 kWh
Advertising/Promotion/Customer Ed	N/A	\$10,000	\$10,000	\$10,000	Net Annual kWh Saved at Generator	(F x (B x E x O x J)) / (1 - H)	25,308 kWh
Participant Rebates and Incentives	N/A	\$146,898	\$146,898	\$146,898	TRC Net Benefits with Adder	(O x L)	\$531,784
Equipment & Installation	N/A	\$0	\$0	\$0	TRC Net Benefits without Adder	(O x (L - M))	\$386,904
Measurement and Verification	N/A	\$18,000	\$18,000	\$18,000	Utility Program Cost per kWh Lifetime		
Subtotal	N/A	\$337,498	\$337,498	\$337,498	Utility Program Cost per kW at Gen		
Utility Revenue Reduction							\$2.6671
Revenue Reduction - Electric	N/A	N/A	\$13,970	N/A			\$211
Subtotal	N/A	N/A	\$13,970	N/A			
Participant Costs							
Incremental Capital Costs	\$146,898	N/A	N/A	\$146,898			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$146,898	N/A	N/A	\$146,898			
Total Costs	\$146,898	\$337,498	\$351,468	\$484,395			
Net Benefit (Cost)	\$13,970	\$386,904	\$372,934	\$531,784			
Benefit/Cost Ratio	1.10	2.15	2.06	2.10			

Note: Dollar values represent present value of impacts accumulated over the lifetime of the measures.