

MOTOR & DRIVE EFFICIENCY					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	18 years	
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Annual Hours	B	8760	
					Gross Customer kW	C	1 kW	
Benefits					Generator Peak Coincidence Factor	D	76.90%	
Avoided Revenue Requirements					Gross Load Factor at Customer	E	50.87%	
Generation Capacity	N/A	\$3,513,544	\$3,513,544	\$3,513,544	Net-to-Gross (Energy)	F	83.8%	
Trans. & Dist. Capacity	N/A	\$448,118	\$448,118	\$448,118	Net-to-Gross (Demand)	G	84.0%	
Marginal Energy	N/A	\$6,271,057	\$6,271,057	\$6,271,057	Transmission Loss Factor (Energy)	H	5.332%	
Avoided Emissions (CO2)	N/A	N/A	N/A	N/A	Transmission Loss Factor (Demand)	I	7.711%	
Subtotal				\$10,232,718	Installation Rate (Energy)	J	100.0%	
Non-Energy Benefits Adder (20%)				\$2,046,544	Installation Rate (Demand)	K	100.0%	
Subtotal	N/A	\$10,232,718	\$10,232,718	\$12,279,262	MTRC Net Benefit (Cost)	L	\$1,295	
Other Benefits					MTRC Non-Energy Benefit Adder	M	\$426	
Bill Reduction - Electric	\$20,913,391	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(B x E x C)	4,456 kWh	
Participant Rebates and Incentives	\$2,140,769	N/A	N/A	\$2,140,769	Net Annual kWh Saved at Customer	(F x (B x E x C x J))	3,736 kWh	
Incremental Capital Savings	\$0	N/A	N/A	\$0	Net Annual kWh Saved at Generator	(F x (B x E x C x J)) / (1 - H)	3,947 kWh	
Incremental O&M Savings	\$129,655	N/A	N/A	\$105,020				
Subtotal	\$23,183,814	N/A	N/A	\$2,245,789	Program Summary All Participants			
Total Benefits	\$23,183,814	\$10,232,718	\$10,232,718	\$14,525,051	Total Budget	N	\$2,738,400	
Utility Project Costs					Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	3,360 kW	
Program Planning & Design	N/A	\$0	\$0	\$0	Net Annual kWh Saved at Customer	(F x (B x E x O x J))	17,940,484 kWh	
Administration & Program Delivery	N/A	\$539,581	\$539,581	\$539,581	Net Annual kWh Saved at Generator	(F x (B x E x O x J)) / (1 - H)	18,950,985 kWh	
Advertising/Promotion/Customer Ed	N/A	\$36,450	\$36,450	\$36,450	TRC Net Benefits with Adder	(O x L)	\$6,218,473	
Participant Rebates and Incentives	N/A	\$2,140,769	\$2,140,769	\$2,140,769	TRC Net Benefits without Adder	(O x (L - M))	\$4,171,929	
Equipment & Installation	N/A	\$0	\$0	\$0				
Measurement and Verification	N/A	\$21,600	\$21,600	\$21,600	Utility Program Cost per kWh Lifetime		\$0.0081	
Subtotal	N/A	\$2,738,400	\$2,738,400	\$2,738,400	Utility Program Cost per kW at Gen		\$815	
Utility Revenue Reduction								
Revenue Reduction - Electric	N/A	N/A	\$17,581,556	N/A				
Subtotal	N/A	N/A	\$17,581,556	N/A				
Participant Costs								
Incremental Capital Costs	\$6,811,736	N/A	N/A	\$5,568,178				
Incremental O&M Costs	\$0	N/A	N/A	\$0				
Subtotal	\$6,811,736	N/A	N/A	\$5,568,178				
Total Costs	\$6,811,736	\$2,738,400	\$20,319,956	\$8,306,578				
Net Benefit (Cost)	\$16,372,078	\$7,494,318	(\$10,087,238)	\$6,218,473				
Benefit/Cost Ratio	3.40	3.74	0.50	1.75				

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

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Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Generation Capacity	N/A	\$0	\$0	\$0
Trans. & Dist. Capacity	N/A	\$0	\$0	\$0
Marginal Energy	N/A	\$0	\$0	\$0
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$0
#DIV/0!				\$0
Subtotal	N/A	\$0	\$0	\$0
Other Benefits				
Bill Reduction - Electric	\$0	N/A	N/A	N/A
Participant Rebates and Incentives	\$0	N/A	N/A	\$0
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$0	N/A	N/A	\$0
Total Benefits	\$0	\$0	\$0	\$0
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$0	\$0	\$0
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0
Participant Rebates and Incentives	N/A	\$0	\$0	\$0
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$0	\$0	\$0
Subtotal	N/A	\$0	\$0	\$0
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$0	N/A
Subtotal	N/A	N/A	\$0	N/A
Participant Costs				
Incremental Capital Costs	\$0	N/A	N/A	\$0
Incremental O&M Costs	\$0	N/A	N/A	\$0
Subtotal	\$0	N/A	N/A	\$0
Total Costs	\$0	\$0	\$0	\$0
Net Benefit (Cost)	\$0	\$0	\$0	\$0
Benefit/Cost Ratio	INF	INF	INF	INF

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

Input Summary and Totals

Program Inputs per Customer kW		
Lifetime (Weighted on Generator kWh)	A	0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	#DIV/0!
Gross Load Factor at Customer	E	#DIV/0!
Net-to-Gross (Energy)	F	0.0%
Net-to-Gross (Demand)	G	0.0%
Transmission Loss Factor (Energy)	H	0.000%
Transmission Loss Factor (Demand)	I	0.000%
Installation Rate (Energy)	J	0.0%
Installation Rate (Demand)	K	0.0%
MTRC Net Benefit (Cost)	L	#DIV/0!
MTRC Non-Energy Benefit Adder	M	#DIV/0!
Gross Annual kWh Saved at Customer	(B x E x C)	#DIV/0!
Net Annual kWh Saved at Customer	(F x (B x E x C x J))	#DIV/0!
Net Annual kWh Saved at Generator	(F x (B x E x C x J)) / (1 - H)	#DIV/0!

Program Summary All Participant

Total Budget	N	\$0
Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	#DIV/0!
Net Annual kWh Saved at Customer	(F x (B x E x O x J))	#DIV/0!
Net Annual kWh Saved at Generator	(F x (B x E x O x J)) / (1 - H)	#DIV/0!
TRC Net Benefits with Adder	(O x L)	#DIV/0!
TRC Net Benefits without Adder	(O x (L - M))	#DIV/0!
Utility Program Cost per kWh Lifetime		#DIV/0!
Utility Program Cost per kW at Gen		#DIV/0!