LIGHTING EFFICIENCY					
2019 Net Present Cost Benefit Summary Analysis For All Participants					
			Rate	Modified	
	Participant	Utility	Impact	TRC Test (\$Total)	
	Test	Test (\$Total)	Test (\$Total)		
	(\$Total)				
Benefits					
Avoided Revenue Requirements					
Generation Capacity	N/A	\$17,025,408	\$17,025,408	\$17,025,408	
Trans. & Dist. Capacity	N/A	\$2,132,134	\$2,132,134	\$2,132,134	
Marginal Energy	N/A	\$37,661,846	\$37,661,846	\$37,661,846	
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	
Subtotal				\$56,819,388	
Non-Energy Benefits Adder (20%)				\$11,363,878	
Subtotal	N/A	\$56,819,388	\$56,819,388	\$68,183,266	
Other Benefits  Bill Reduction - Electric	\$420.054.507	NT / A	NT/A	NT / A	
	\$130,951,507	N/A	N/A	N/A	
Participant Rebates and Incentives	\$13,942,075	N/A	N/A	\$13,942,075	
Incremental Capital Savings	\$0	N/A	N/A	\$0	
Incremental O&M Savings	\$0	N/A	N/A	\$0	
Subtotal	\$144,893,582	N/A	N/A	\$13,942,075	
Total Benefits	\$144,893,582	\$56,819,388	\$56,819,388	\$82,125,340	
Utility Project Costs					
Program Planning & Design	N/A	\$0	\$0	\$0	
Administration & Program Delivery	N/A	\$3,055,429	\$3,055,429	\$3,055,429	
Advertising/Promotion/Customer Ed	N/A	\$717,064	\$717,064	\$717,064	
Participant Rebates and Incentives	N/A	\$13,942,075	\$13,942,075	\$13,942,075	
Equipment & Installation	N/A	\$0	\$0	\$0	
Measurement and Verification	N/A	\$55,000	\$55,000	\$55,000	
Subtotal	N/A	\$17,769,567	\$17,769,567	\$17,769,567	
Utility Revenue Reduction  Revenue Reduction - Electric	N/A	N/A	\$105,296,244	N/A	
Subtotal	N/A	N/A	\$105,296,244	N/A	
Participant Costs		·		,	
Incremental Capital Costs	\$46,249,137	N/A	N/A	\$36,455,602	
Incremental O&M Costs	\$4,221,220	N/A	N/A	\$3,456,956	
Subtotal	\$50,470,357	N/A	N/A	\$39,912,558	
Total Costs	\$50,470,357	\$17,769,567	\$123,065,811	\$57,682,125	
Net Benefit (Cost)	\$94,423,225	\$39,049,821	(\$66,246,423)	\$24,443,215	
Benefit/Cost Ratio	2.87	3.20	0.46	1.42	

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

2019 ELEC	GOAL	
nput Summary and Totals		
rogram Inputs per Customer kW		
Lifetime (Weighted on Generator kWh)	A	15 years
Annual Hours	В	876
Gross Customer kW	С	1 kV
Generator Peak Coincidence Factor	D	63.81%
Gross Load Factor at Customer	E	58.49%
Net-to-Gross (Energy)	F	82.8%
Net-to-Gross (Demand)	G	84.0%
Transmission Loss Factor (Energy)	H	5.332%
Transmission Loss Factor (Demand)	I	7.711%
Installation Rate (Energy)	J	99.5%
Installation Rate (Demand)	K	99.4%
MTRC Net Benefit (Cost)	L	\$70
MTRC Non-Energy Benefit Adder	M	\$32
Gross Annual kWh Saved at Customer	(BxExC)	5,124 kWl
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	4,220 kWl
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	4,457 kW
rogram Summary All Participants  Total Budget	N	\$17,769,567
8	<u></u>	\$17,709,507
Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	20,011 kV
Net Annual kWh Saved at Customer	( F x ( B x E x O x J)	146,212,202 kW
Net Annual kWh Saved at Generator	(Fx(BxExOxJ))/(1-H)	154,447,632 kW
	(OxL)	\$24,443,215
TRC Net Benefits with Adder	(011)	

\$888

Utility Program Cost per kW at Gen

020 Net Present Cost Benefit Summary Analysis For All Participants					
	•		Rate	Modified	
	Participant	Utility	Impact Test (\$Total)	TRC	
	Test	Test (\$Total)		Test (\$Total)	
	(\$Total)				
Benefits					
Avoided Revenue Requirements					
Generation Capacity	N/A	\$21,879,603	\$21,879,603	\$21,879,603	
Trans. & Dist. Capacity	N/A	\$2,772,520	\$2,772,520	\$2,772,520	
Marginal Energy	N/A	\$46,762,162	\$46,762,162	\$46,762,162	
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	
Subtotal				\$71,414,285	
Non-Energy Benefits Adder (20%)				\$14,282,857	
Subtotal	N/A	\$71,414,285	\$71,414,285	\$85,697,142	
Other Benefits					
Bill Reduction - Electric	\$155,658,334	N/A	N/A	N/A	
Participant Rebates and Incentives	\$16,869,991	N/A	N/A	\$16,869,991	
Incremental Capital Savings	\$0	N/A	N/A	\$0	
Incremental O&M Savings	\$0	N/A	N/A	\$0	
Subtotal	\$172,528,325	N/A	N/A	\$16,869,991	
Total Benefits	\$172,528,325	\$71,414,285	\$71,414,285	\$102,567,133	
Utility Project Costs					
Program Planning & Design	N/A	\$0	\$0	\$0	
Administration & Program Delivery	N/A	\$3,225,108	\$3,225,108	\$3,225,108	
Advertising/Promotion/Customer Ed	N/A	\$692,065	\$692,065	\$692,065	
Participant Rebates and Incentives	N/A	\$16,869,991	\$16,869,991	\$16,869,991	
Equipment & Installation	N/A	\$0	\$0	\$0	
Measurement and Verification	N/A	\$55,000	\$55,000	\$55,000	
Subtotal	N/A	\$20,842,164	\$20,842,164	\$20,842,164	
Utility Revenue Reduction  Revenue Reduction - Electric	N/A	N/A	\$125,524,490	NI / A	
Subtotal	N/A N/A	N/A	\$125,524,490	N/A N/A	
Participant Costs	14/11	14/11	¥120,02 i, 170	14/2	
Incremental Capital Costs	\$51,212,088	N/A	N/A	\$40,746,476	
Incremental O&M Costs	\$5,391,883	N/A	N/A	\$4,390,987	
Subtotal	\$56,603,971	N/A	N/A	\$45,137,462	
Total Costs	\$56,603,971	\$20,842,164	\$146,366,654	\$65,979,626	
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Net Benefit (Cost)	\$115,924,354	\$50,572,121	(\$74,952,369)	\$36,587,507	

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

2020 ELEC	GOAL	
nput Summary and Totals		
rogram Inputs per Customer kW		
Lifetime (Weighted on Generator kWh)	A	15 years
Annual Hours	В	876
Gross Customer kW	С	1 kV
Generator Peak Coincidence Factor	D	70.32%
Gross Load Factor at Customer	E	59.55%
Net-to-Gross (Energy)	F	83.1%
Net-to-Gross (Demand)	G	83.7%
Transmission Loss Factor (Energy)	Н	5.332%
Transmission Loss Factor (Demand)	I	7.711%
Installation Rate (Energy)	J	99.5%
Installation Rate (Demand)	K	99.4%
MTRC Net Benefit (Cost)	L	\$918
MTRC Non-Energy Benefit Adder	M	\$358
Gross Annual kWh Saved at Customer	(BxExC)	5,217 kWl
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	4,314 kWl
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	4,557 kW
Program Summary All Participant		
Total Budget	N	\$20,842,164
Net coincident kW Saved at Generator	(G x O x K) x D / (1-I)	25,262 kV
Net Annual kWh Saved at Customer	(Fx(BxExOxJ)	171,930,816 kW
Net Annual kWh Saved at Generator	(Fx(B xE xO xJ))/(1-H)	181,614,852 kW
	(OxL)	\$36,587,507
TRC Net Benefits with Adder	( )	

\$825

Utility Program Cost per kW at Gen