

<b>NEW CONSTRUCTION</b>	<b>2019 ELECTRIC</b>	<b>GOAL</b>
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**2019 Net Present Cost Benefit Summary Analysis For All Participants**

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)
<b>Benefits</b>				
<b>Avoided Revenue Requirements</b>				
Generation Capacity	N/A	\$13,238,589	\$13,238,589	\$13,238,589
Trans. & Dist. Capacity	N/A	\$1,657,920	\$1,657,920	\$1,657,920
Marginal Energy	N/A	\$14,101,615	\$14,101,615	\$14,101,615
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$28,998,124
Non-Energy Benefits Adder (20%)				\$5,799,625
Subtotal	N/A	\$28,998,124	\$28,998,124	\$34,797,748
<b>Other Benefits</b>				
Bill Reduction - Electric	\$40,456,742	N/A	N/A	N/A
Participant Rebates and Incentives	\$8,332,309	N/A	N/A	\$8,332,309
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$48,789,051	N/A	N/A	\$8,332,309
<b>Total Benefits</b>	<b>\$48,789,051</b>	<b>\$28,998,124</b>	<b>\$28,998,124</b>	<b>\$43,130,058</b>
<b>Utility Project Costs</b>				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$2,991,157	\$2,991,157	\$2,991,157
Advertising/Promotion/Customer Ed	N/A	\$18,650	\$18,650	\$18,650
Participant Rebates and Incentives	N/A	\$8,332,309	\$8,332,309	\$8,332,309
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$430,077	\$430,077	\$430,077
Subtotal	N/A	\$11,772,194	\$11,772,194	\$11,772,194
<b>Utility Revenue Reduction</b>				
Revenue Reduction - Electric	N/A	N/A	\$38,433,905	N/A
Subtotal	N/A	N/A	\$38,433,905	N/A
<b>Participant Costs</b>				
Incremental Capital Costs	\$24,579,714	N/A	N/A	\$23,350,728
Incremental O&M Costs	\$347,467	N/A	N/A	\$330,094
Subtotal	\$24,927,181	N/A	N/A	\$23,680,822
<b>Total Costs</b>	<b>\$24,927,181</b>	<b>\$11,772,194</b>	<b>\$50,206,099</b>	<b>\$35,453,016</b>
<b>Net Benefit (Cost)</b>	<b>\$23,861,870</b>	<b>\$17,225,930</b>	<b>(\$21,207,975)</b>	<b>\$7,677,042</b>
<b>Benefit/Cost Ratio</b>	<b>1.96</b>	<b>2.46</b>	<b>0.58</b>	<b>1.22</b>

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

<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	20 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	72.61%
Gross Load Factor at Customer	E	29.89%
Net-to-Gross (Energy)	F	95.0%
Net-to-Gross (Demand)	G	95.0%
Transmission Loss Factor (Energy)	H	5.332%
Transmission Loss Factor (Demand)	I	7.711%
<b>Installation Rate (Energy)</b>	<b>J</b>	<b>100.0%</b>
<b>Installation Rate (Demand)</b>	<b>K</b>	<b>100.0%</b>
MTRC Net Benefit (Cost)	<b>L</b>	\$482
MTRC Non-Energy Benefit Adder	<b>M</b>	\$364
Gross Annual kWh Saved at Customer	( B x E x C )	2,618 kWh
Net Annual kWh Saved at Customer	( F x ( B x E x C x J ) )	2,487 kWh
Net Annual kWh Saved at Generator	( F x ( B x E x C x J ) ) / ( 1 - H )	2,627 kWh
<b>Program Summary All Participants</b>		
<b>Total Budget</b>	N	<b>\$11,772,194</b>
<b>Net coincident kW Saved at Generator</b>	( G x O x K ) x D / ( 1 - I )	11,914 kW
Net Annual kWh Saved at Customer	( F x ( B x E x O x J ) )	39,642,811 kWh
<b>Net Annual kWh Saved at Generator</b>	( F x ( B x E x O x J ) ) / ( 1 - H )	<b>41,875,700 kWh</b>
<b>TRC Net Benefits with Adder</b>	( O x L )	<b>\$7,677,042</b>
<b>TRC Net Benefits without Adder</b>	( O x ( L - M ) )	<b>\$1,877,417</b>
<b>Utility Program Cost per kWh Lifetime</b>		
		<b>\$0.0143</b>
<b>Utility Program Cost per kW at Gen</b>		
		<b>\$988</b>

<b>NEW CONSTRUCTION</b>	<b>2020 ELECTRIC</b>	<b>GOAL</b>
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**2020 Net Present Cost Benefit Summary Analysis For All Participants**

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)
<b>Benefits</b>				
<b>Avoided Revenue Requirements</b>				
Generation Capacity	N/A	\$14,604,385	\$14,604,385	\$14,604,385
Trans. & Dist. Capacity	N/A	\$1,879,092	\$1,879,092	\$1,879,092
Marginal Energy	N/A	\$17,056,536	\$17,056,536	\$17,056,536
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$33,540,013
Non-Energy Benefits Adder (20%)				\$6,708,003
Subtotal	N/A	\$33,540,013	\$33,540,013	\$40,248,016
<b>Other Benefits</b>				
Bill Reduction - Electric	\$47,045,705	N/A	N/A	N/A
Participant Rebates and Incentives	\$9,264,725	N/A	N/A	\$9,264,725
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$56,310,430	N/A	N/A	\$9,264,725
<b>Total Benefits</b>	<b>\$56,310,430</b>	<b>\$33,540,013</b>	<b>\$33,540,013</b>	<b>\$49,512,741</b>
<b>Utility Project Costs</b>				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$2,971,114	\$2,971,114	\$2,971,114
Advertising/Promotion/Customer Ed	N/A	\$5,632	\$5,632	\$5,632
Participant Rebates and Incentives	N/A	\$9,264,725	\$9,264,725	\$9,264,725
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$430,077	\$430,077	\$430,077
Subtotal	N/A	\$12,671,548	\$12,671,548	\$12,671,548
<b>Utility Revenue Reduction</b>				
Revenue Reduction - Electric	N/A	N/A	\$44,693,420	N/A
Subtotal	N/A	N/A	\$44,693,420	N/A
<b>Participant Costs</b>				
Incremental Capital Costs	\$27,805,037	N/A	N/A	\$26,414,785
Incremental O&M Costs	\$456,945	N/A	N/A	\$434,098
Subtotal	\$28,261,982	N/A	N/A	\$26,848,883
<b>Total Costs</b>	<b>\$28,261,982</b>	<b>\$12,671,548</b>	<b>\$57,364,968</b>	<b>\$39,520,431</b>
<b>Net Benefit (Cost)</b>	<b>\$28,048,448</b>	<b>\$20,868,465</b>	<b>(\$23,824,955)</b>	<b>\$9,992,310</b>
<b>Benefit/Cost Ratio</b>	<b>1.99</b>	<b>2.65</b>	<b>0.58</b>	<b>1.25</b>

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

<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	19 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	71.96%
Gross Load Factor at Customer	E	30.47%
Net-to-Gross (Energy)	F	95.0%
Net-to-Gross (Demand)	G	95.0%
Transmission Loss Factor (Energy)	H	5.332%
Transmission Loss Factor (Demand)	I	7.711%
<b>Installation Rate (Energy)</b>	<b>J</b>	<b>100.0%</b>
<b>Installation Rate (Demand)</b>	<b>K</b>	<b>100.0%</b>
MTRC Net Benefit (Cost)	<b>L</b>	\$555
MTRC Non-Energy Benefit Adder	<b>M</b>	\$373
Gross Annual kWh Saved at Customer	( B x E x C )	2,669 kWh
Net Annual kWh Saved at Customer	( F x ( B x E x C x J ) )	2,535 kWh
Net Annual kWh Saved at Generator	( F x ( B x E x C x J ) ) / ( 1 - H )	2,678 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$12,671,548</b>
<b>Net coincident kW Saved at Generator</b>	( G x O x K ) x D / ( 1 - I )	<b>13,339 kW</b>
Net Annual kWh Saved at Customer	( F x ( B x E x O x J ) )	45,657,124 kWh
<b>Net Annual kWh Saved at Generator</b>	( F x ( B x E x O x J ) ) / ( 1 - H )	<b>48,228,770 kWh</b>
<b>TRC Net Benefits with Adder</b>	( O x L )	<b>\$9,992,310</b>
<b>TRC Net Benefits without Adder</b>	( O x ( L - M ) )	<b>\$3,284,307</b>
<b>Utility Program Cost per kWh Lifetime</b>		
		<b>\$0.0136</b>
<b>Utility Program Cost per kW at Gen</b>		
		<b>\$950</b>