

<b>WATER HEATING</b>					<b>2020 ELECTRIC</b>			<b>GOAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>					<b>Input Summary and Totals</b>			
	<b>Participant</b>	<b>Utility</b>	<b>Rate</b>	<b>Modified</b>	<b>Program Inputs per Customer kW</b>			
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>				
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>				
<b>Benefits</b>								
<b>Avoided Revenue Requirements</b>								
	Generation Capacity	N/A	\$495,445	\$495,445	\$495,445	Lifetime (Weighted on Generator kWh)	A	12 years
	Trans. & Dist. Capacity	N/A	\$62,047	\$62,047	\$62,047	Annual Hours	B	8760
	Marginal Energy	N/A	\$1,022,247	\$1,022,247	\$1,022,247	Gross Customer kW	C	1 kW
	Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Generator Peak Coincidence Factor	D	100.00%
	Subtotal				\$1,579,739	Gross Load Factor at Customer	E	87.38%
	Non-Energy Benefits Adder (20%)				\$315,948	Net-to-Gross (Energy)	F	100.0%
Subtotal	N/A	\$1,579,739	\$1,579,739	\$1,895,686		Net-to-Gross (Demand)	G	100.0%
<b>Other Benefits</b>								
	Bill Reduction - Electric	\$4,424,987	N/A	N/A	N/A	Transmission Loss Factor (Energy)	H	6.380%
	Participant Rebates and Incentives	\$562,400	N/A	N/A	\$562,400	Transmission Loss Factor (Demand)	I	9.129%
	Incremental Capital Savings	\$0	N/A	N/A	\$0	<b>Installation Rate (Energy)</b>	<b>J</b>	<b>100.0%</b>
	Incremental O&M Savings	\$0	N/A	N/A	\$0	<b>Installation Rate (Demand)</b>	<b>K</b>	<b>100.0%</b>
Subtotal	\$4,987,387	N/A	N/A	\$562,400		MTRC Net Benefit (Cost)	<b>L</b>	\$876
<b>Total Benefits</b>	<b>\$4,987,387</b>	<b>\$1,579,739</b>	<b>\$1,579,739</b>	<b>\$2,458,086</b>		MTRC Non-Energy Benefit Adder	<b>M</b>	\$577
<b>Utility Project Costs</b>								
	Program Planning & Design	N/A	\$0	\$0	\$0	Gross Annual kWh Saved at Customer	( B x E x C )	7,654 kWh
	Administration & Program Delivery	N/A	\$229,860	\$229,860	\$229,860	Net Annual kWh Saved at Customer	( F x ( B x E x C x J ) )	7,654 kWh
	Advertising/Promotion/Customer Ed	N/A	\$281,500	\$281,500	\$281,500	Net Annual kWh Saved at Generator	( F x ( B x E x C x J ) ) / ( 1 - H )	8,176 kWh
	Participant Rebates and Incentives	N/A	\$562,400	\$562,400	\$562,400			
	Equipment & Installation	N/A	\$0	\$0	\$0			
	Measurement and Verification	N/A	\$10,000	\$10,000	\$10,000			
Subtotal	N/A	\$1,083,760	\$1,083,760	\$1,083,760				
<b>Utility Revenue Reduction</b>								
	Revenue Reduction - Electric	N/A	N/A	\$4,424,987	N/A			
Subtotal	N/A	N/A	\$4,424,987	N/A				
<b>Participant Costs</b>								
	Incremental Capital Costs	\$776,545	N/A	N/A	\$776,545			
	Incremental O&M Costs	\$118,058	N/A	N/A	\$118,058			
Subtotal	\$894,602	N/A	N/A	\$894,602				
<b>Total Costs</b>	<b>\$894,602</b>	<b>\$1,083,760</b>	<b>\$5,508,747</b>	<b>\$1,978,362</b>				
<b>Net Benefit (Cost)</b>	<b>\$4,092,784</b>	<b>\$495,979</b>	<b>(\$3,929,008)</b>	<b>\$479,724</b>				
<b>Benefit/Cost Ratio</b>	<b>5.57</b>	<b>1.46</b>	<b>0.29</b>	<b>1.24</b>				

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