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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			
	(\$Total)	(\$Total)	(\$Total)	(\$Total)			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
	Generation Capacity	N/A	\$4,961,628	\$4,961,628	Lifetime (Weighted on Generator kWh)	A	16.4 years
	Trans. & Dist. Capacity	N/A	\$621,372	\$621,372	Annual Hours	B	8760
	Marginal Energy	N/A	\$10,732,479	\$10,732,479	Gross Customer kW	C	1 kW
	Avoided Emissions (CO2)	N/A	N/A	N/A	Generator Peak Coincidence Factor	D	35.70%
	Subtotal				Gross Load Factor at Customer	E	30.78%
	Non-Energy Benefits Adder (19.5%)				Net-to-Gross (Energy)	F	93.8%
Subtotal	N/A	\$16,315,479	\$16,315,479	\$19,501,825	Net-to-Gross (Demand)	G	93.7%
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$30,004,078	N/A	N/A	Transmission Loss Factor (Energy)	H	5.330%
	Participant Rebates and Incentives	\$3,211,480	N/A	N/A	Transmission Loss Factor (Demand)	I	7.710%
	Incremental Capital Savings	\$0	N/A	N/A	<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
	Incremental O&M Savings	\$138,927	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Subtotal	\$33,354,486	N/A	N/A	\$3,340,683	MTRC Net Benefit (Cost)	<b>L</b>	\$854
<b>Total Benefits</b>							
	\$33,354,486	\$16,315,479	\$16,315,479	\$22,842,508	MTRC Non-Energy Benefit Adder	<b>M</b>	\$226
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.3625 kW
	Administration & Program Delivery	N/A	\$974,053	\$974,053	Gross Annual kWh Saved at Customer	$(B \times E \times C)$	2,696 kWh
	Advertising/Promotion/Customer Ed	N/A	\$0	\$0	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	2,528 kWh
	Participant Rebates and Incentives	N/A	\$3,211,480	\$3,211,480	Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	2,670 kWh
	Equipment & Installation	N/A	\$0	\$0			
	Measurement and Verification	N/A	\$189,639	\$189,639			
Subtotal	N/A	\$4,375,172	\$4,375,172	\$4,375,172			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$27,949,222			
Subtotal	N/A	N/A	\$27,949,222	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$6,933,336	N/A	N/A			
	Incremental O&M Costs	\$0	N/A	N/A			
Subtotal	\$6,933,336	N/A	N/A	\$6,449,578			
<b>Total Costs</b>							
	\$6,933,336	\$4,375,172	\$32,324,393	\$10,824,750			
<b>Net Benefit (Cost)</b>							
	\$26,421,150	\$11,940,307	(\$16,008,914)	\$12,017,758			
<b>Benefit/Cost Ratio</b>							
	4.81	3.73	0.50	<b>2.11</b>			

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	16.4 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	35.70%
Gross Load Factor at Customer	E	30.78%
Net-to-Gross (Energy)	F	93.8%
Net-to-Gross (Demand)	G	93.7%
Transmission Loss Factor (Energy)	H	5.330%
Transmission Loss Factor (Demand)	I	7.710%
<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>	\$854
MTRC Non-Energy Benefit Adder	<b>M</b>	\$226
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.3625 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	2,696 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	2,528 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	2,670 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$4,375,172</b>
Gross kW Saved at Customer	O	14,074 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>5,102 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	37,942,452 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>37,942,452 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	35,577,866 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>37,580,929 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$12,017,758</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>\$8,831,412</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0071</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$857</b>

\*Weighted average of installation and realization rates

ENERGY EFFICIENT SHOWERHEAD					2020	ELECTRIC	ACTUAL
2020 Net Present Cost Benefit Summary Analysis For All Participants							
	Participant	Utility	Rate	Modified	Input Summary and Totals		
	Test	Test	Impact	TRC	Program Inputs per Customer kW		
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Lifetime (Weighted on Generator kWh)	A	10.0 years
Benefits					Annual Hours	B	8760
<b>Avoided Revenue Requirements</b>					Gross Customer kW	C	1 kW
Generation Capacity	N/A	\$31,661	\$31,661	\$31,661	Generator Peak Coincidence Factor	D	75.90%
Trans. & Dist. Capacity	N/A	\$3,965	\$3,965	\$3,965	Gross Load Factor at Customer	E	101.00%
Marginal Energy	N/A	\$104,043	\$104,043	\$104,043	Net-to-Gross (Energy)	F	99.0%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Demand)	G	99.0%
Subtotal				\$139,669	Transmission Loss Factor (Energy)	H	6.380%
Non-Energy Benefits Adder (20%)				\$27,934	Transmission Loss Factor (Demand)	I	9.130%
Subtotal	N/A	\$139,669	\$139,669	\$167,603	<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>67.3%</b>
<b>Other Benefits</b>					<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>61.9%</b>
Bill Reduction - Electric	\$700,210	N/A	N/A	N/A	MTRC Net Benefit (Cost)	<b>L</b>	\$4,360
Participant Rebates and Incentives	\$4,345	N/A	N/A	\$4,345	MTRC Non-Energy Benefit Adder	<b>M</b>	\$325
Incremental Capital Savings	\$0	N/A	N/A	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$ 0.5123 kW	
Incremental O&M Savings	\$341,361	N/A	N/A	\$228,244	Gross Annual kWh Saved at Customer	$(B \times E \times C)$ 8,847 kWh	
Subtotal	\$1,045,916	N/A	N/A	\$232,589	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$ 5,899 kWh	
<b>Total Benefits</b>	<b>\$1,045,916</b>	<b>\$139,669</b>	<b>\$139,669</b>	<b>\$400,192</b>	Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$ 6,301 kWh	
Costs					<b>Program Summary All Participant</b>		
<b>Utility Project Costs</b>					<b>Total Budget</b>	N	<b>\$18,540</b>
Program Planning & Design	N/A	\$0	\$0	\$0	Gross kW Saved at Customer	O	86 kW
Administration & Program Delivery	N/A	\$14,195	\$14,195	\$14,195	<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$ 44 kW	
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0	Gross Annual kWh Saved at Customer	$(B \times E \times O)$ 760,924 kWh	
Participant Rebates and Incentives	N/A	\$4,345	\$4,345	\$4,345	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$ 512,436 kWh	
Equipment & Installation	N/A	\$0	\$0	\$0	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$ 507,311 kWh	
Measurement and Verification	N/A	\$0	\$0	\$0	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$ 541,883 kWh	
Subtotal	N/A	\$18,540	\$18,540	\$18,540	<b>TRC Net Benefits with Adder</b>	$(O \times L)$ \$374,986	
<b>Utility Revenue Reduction</b>					<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$ \$347,052	
Revenue Reduction - Electric	N/A	N/A	\$466,833	N/A	<b>Utility Program Cost per kWh Lifetime</b> \$0.0034		
Subtotal	N/A	N/A	\$466,833	N/A	<b>Utility Program Cost per kW at Gen</b> \$421		
<b>Participant Costs</b>					*Weighted average of installation and realization rates		
Incremental Capital Costs	\$6,734	N/A	N/A	\$6,666			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$6,734	N/A	N/A	\$6,666			
<b>Total Costs</b>	<b>\$6,734</b>	<b>\$18,540</b>	<b>\$485,373</b>	<b>\$25,206</b>			
<b>Net Benefit (Cost)</b>	<b>\$1,039,182</b>	<b>\$121,130</b>	<b>(\$345,703)</b>	<b>\$374,986</b>			
<b>Benefit/Cost Ratio</b>	<b>155.32</b>	<b>7.53</b>	<b>0.29</b>	<b>15.88</b>			

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

ENERGY FEEDBACK RESIDENTIAL					2020	ELECTRIC	ACTUAL
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			
	(\$Total)	(\$Total)	(\$Total)	(\$Total)			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
	Generation Capacity	N/A	\$1,314,403	\$1,314,403	Lifetime (Weighted on Generator kWh)	A	3.0 years
	Trans. & Dist. Capacity	N/A	\$164,594	\$164,594	Annual Hours	B	8760
	Marginal Energy	N/A	\$1,161,267	\$1,161,267	Gross Customer kW	C	1 kW
	Avoided Emissions (CO2)	N/A	N/A	N/A	Generator Peak Coincidence Factor	D	93.82%
	Subtotal				Gross Load Factor at Customer	E	33.96%
	Non-Energy Benefits Adder (20%)				Net-to-Gross (Energy)	F	100.0%
Subtotal	N/A	\$2,640,265	\$2,640,265	\$3,168,318	Net-to-Gross (Demand)	G	100.0%
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$6,006,693	N/A	N/A	Transmission Loss Factor (Energy)	H	6.380%
	Participant Rebates and Incentives	\$0	N/A	N/A	Transmission Loss Factor (Demand)	I	9.130%
	Incremental Capital Savings	\$0	N/A	N/A	<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
	Incremental O&M Savings	\$0	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Subtotal	\$6,006,693	N/A	N/A	\$0	MTRC Net Benefit (Cost)	<b>L</b>	\$335
<b>Total Benefits</b>							
	\$6,006,693	\$2,640,265	\$2,640,265	\$3,168,318	MTRC Non-Energy Benefit Adder	<b>M</b>	\$112
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	1,0324 kW
	Administration & Program Delivery	N/A	\$1,593,925	\$1,593,925	Gross Annual kWh Saved at Customer	$(B \times E \times C)$	2,975 kWh
	Advertising/Promotion/Customer Ed	N/A	\$0	\$0	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	2,975 kWh
	Participant Rebates and Incentives	N/A	\$0	\$0	Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	3,178 kWh
	Equipment & Installation	N/A	\$0	\$0	<b>Program Summary All Participant</b>		
	Measurement and Verification	N/A	\$0	\$0	<b>Total Budget</b>	N	\$1,593,925
Subtotal	N/A	\$1,593,925	\$1,593,925	\$1,593,925	Gross kW Saved at Customer	O	4,703 kW
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$6,006,693	Net coincident kW Saved at Generator	$(G \times O \times K) \times D / (1 - I)$	4,855 kW
Subtotal	N/A	N/A	\$6,006,693	N/A	Gross Annual kWh Saved at Customer	$(B \times E \times O)$	13,991,275 kWh
<b>Participant Costs</b>							
	Incremental Capital Costs	\$0	N/A	N/A	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	13,991,275 kWh
	Incremental O&M Costs	\$0	N/A	N/A	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	13,991,275 kWh
Subtotal	\$0	N/A	N/A	\$0	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	14,944,750 kWh
<b>Total Costs</b>							
	\$0	\$1,593,925	\$7,600,618	\$1,593,925	<b>TRC Net Benefits with Adder</b>	$(O \times L)$	\$1,574,393
					<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	\$1,046,340
<b>Net Benefit (Cost)</b>							
	\$6,006,693	\$1,046,340	(\$4,960,353)	\$1,574,393	<b>Utility Program Cost per kWh Lifetime</b>		\$0.0356
<b>Benefit/Cost Ratio</b>							
	INF	1.66	0.35	<b>1.99</b>	<b>Utility Program Cost per kW at Gen</b>		\$328

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

ENERGY STAR NEW HOMES					2020 ELECTRIC		ACTUAL
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	\$812,048	\$812,048	\$812,048		
	Trans. & Dist. Capacity	N/A	\$101,698	\$101,698	\$101,698		
	Marginal Energy	N/A	\$1,816,369	\$1,816,369	\$1,816,369		
	Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
	Subtotal				\$2,730,115		
	Non-Energy Benefits Adder (20%)				\$546,023		
Subtotal	N/A	\$2,730,115	\$2,730,115	\$3,276,137			
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$8,097,836	N/A	N/A	N/A		
	Participant Rebates and Incentives	\$606,618	N/A	N/A	\$606,618		
	Incremental Capital Savings	\$0	N/A	N/A	\$0		
	Incremental O&M Savings	\$3,606	N/A	N/A	\$3,318		
Subtotal	\$8,708,060	N/A	N/A	\$609,936			
<b>Total Benefits</b>	<b>\$8,708,060</b>	<b>\$2,730,115</b>	<b>\$2,730,115</b>	<b>\$3,886,073</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	\$0		
	Administration & Program Delivery	N/A	\$230,222	\$230,222	\$230,222		
	Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0		
	Participant Rebates and Incentives	N/A	\$606,618	\$606,618	\$606,618		
	Equipment & Installation	N/A	\$0	\$0	\$0		
	Measurement and Verification	N/A	\$98,595	\$98,595	\$98,595		
Subtotal	N/A	\$935,434	\$935,434	\$935,434			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$7,450,009	N/A		
Subtotal	N/A	N/A	\$7,450,009	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$2,517,879	N/A	N/A	\$2,316,449		
	Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$2,517,879	N/A	N/A	\$2,316,449			
<b>Total Costs</b>	<b>\$2,517,879</b>	<b>\$935,434</b>	<b>\$8,385,444</b>	<b>\$3,251,883</b>			
<b>Net Benefit (Cost)</b>	<b>\$6,190,181</b>	<b>\$1,794,680</b>	<b>(\$5,655,329)</b>	<b>\$634,190</b>			
<b>Benefit/Cost Ratio</b>	<b>3.46</b>	<b>2.92</b>	<b>0.33</b>	<b>1.20</b>			

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

Input Summary and Totals		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	20.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	83.78%
Gross Load Factor at Customer	E	58.81%
Net-to-Gross (Energy)	F	92.0%
Net-to-Gross (Demand)	G	92.0%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	\$755
MTRC Non-Energy Benefit Adder	M	\$650
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.8482 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	5,152 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	4,740 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	5,063 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$935,434</b>
Gross kW Saved at Customer	O	840 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>713 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	4,327,946 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>4,327,946 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	3,981,710 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>4,253,055 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$634,190</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>\$88,167</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0110</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$1.313</b>

\*Weighted average of installation and realization rates

<b>EVAPORATIVE COOLING</b>				
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>				
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>
<b>Benefits</b>				
<b>Avoided Revenue Requirements</b>				
Generation Capacity	N/A	\$6,557,593	\$6,557,593	\$6,557,593
Trans. & Dist. Capacity	N/A	\$821,244	\$821,244	\$821,244
Marginal Energy	N/A	\$1,622,740	\$1,622,740	\$1,622,740
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$9,001,576
Non-Energy Benefits Adder (20%)				\$1,800,315
Subtotal	N/A	\$9,001,576	\$9,001,576	\$10,801,891
<b>Other Benefits</b>				
Bill Reduction - Electric	\$9,486,497	N/A	N/A	N/A
Participant Rebates and Incentives	\$2,177,760	N/A	N/A	\$2,177,760
Incremental Capital Savings	\$9,397,861	N/A	N/A	\$6,554,555
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$21,062,118	N/A	N/A	\$8,732,316
<b>Total Benefits</b>	<b>\$21,062,118</b>	<b>\$9,001,576</b>	<b>\$9,001,576</b>	<b>\$19,534,207</b>
<b>Costs</b>				
<b>Utility Project Costs</b>				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$706,198	\$706,198	\$706,198
Advertising/Promotion/Customer Ed	N/A	\$252,587	\$252,587	\$252,587
Participant Rebates and Incentives	N/A	\$2,177,760	\$2,177,760	\$2,177,760
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$3,300	\$3,300	\$3,300
Subtotal	N/A	\$3,139,845	\$3,139,845	\$3,139,845
<b>Utility Revenue Reduction</b>				
Revenue Reduction - Electric	N/A	N/A	\$6,864,909	N/A
Subtotal	N/A	N/A	\$6,864,909	N/A
<b>Participant Costs</b>				
Incremental Capital Costs	\$0	N/A	N/A	\$0
Incremental O&M Costs	\$814,986	N/A	N/A	\$581,356
Subtotal	\$814,986	N/A	N/A	\$581,356
<b>Total Costs</b>	<b>\$814,986</b>	<b>\$3,139,845</b>	<b>\$10,004,754</b>	<b>\$3,721,201</b>
<b>Net Benefit (Cost)</b>	<b>\$20,247,132</b>	<b>\$5,861,731</b>	<b>(\$1,003,178)</b>	<b>\$15,813,005</b>
<b>Benefit/Cost Ratio</b>	<b>25.84</b>	<b>2.87</b>	<b>0.90</b>	<b>5.25</b>

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

<b>2020 ELECTRIC</b>		
<b>ACTUAL</b>		
<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	15.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	70.00%
Gross Load Factor at Customer	E	6.35%
Net-to-Gross (Energy)	F	72.4%
Net-to-Gross (Demand)	G	72.4%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	\$1,287
MTRC Non-Energy Benefit Adder	M	\$147
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.5575 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	556 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	402 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	430 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$3,139,845</b>
Gross kW Saved at Customer	O	12,283 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>6,848 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	6,827,963 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>6,827,963 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	4,941,059 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>5,277,782 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$15,813,005</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>\$14,012,690</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0397</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$459</b>

\*Weighted average of installation and realization rates

<b>HIGH EFFICIENCY AIR CONDITIONING</b>				
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>				
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>
<b>Benefits</b>				
<b>Avoided Revenue Requirements</b>				
Generation Capacity	N/A	\$3,178,068	\$3,178,068	\$3,178,068
Trans. & Dist. Capacity	N/A	\$398,008	\$398,008	\$398,008
Marginal Energy	N/A	\$1,403,689	\$1,403,689	\$1,403,689
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$4,979,765
Non-Energy Benefits Adder (20%)				\$995,953
Subtotal	N/A	\$4,979,765	\$4,979,765	\$5,975,718
<b>Other Benefits</b>				
Bill Reduction - Electric	\$8,365,457	N/A	N/A	N/A
Participant Rebates and Incentives	\$2,490,635	N/A	N/A	\$2,490,635
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$10,856,091	N/A	N/A	\$2,490,635
<b>Total Benefits</b>	<b>\$10,856,091</b>	<b>\$4,979,765</b>	<b>\$4,979,765</b>	<b>\$8,466,353</b>
<b>Costs</b>				
<b>Utility Project Costs</b>				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$597,890	\$597,890	\$597,890
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0
Participant Rebates and Incentives	N/A	\$2,490,635	\$2,490,635	\$2,490,635
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$45,164	\$45,164	\$45,164
Subtotal	N/A	\$3,133,689	\$3,133,689	\$3,133,689
<b>Utility Revenue Reduction</b>				
Revenue Reduction - Electric	N/A	N/A	\$5,772,105	N/A
Subtotal	N/A	N/A	\$5,772,105	N/A
<b>Participant Costs</b>				
Incremental Capital Costs	\$3,878,779	N/A	N/A	\$2,734,212
Incremental O&M Costs	\$0	N/A	N/A	\$0
Subtotal	\$3,878,779	N/A	N/A	\$2,734,212
<b>Total Costs</b>	<b>\$3,878,779</b>	<b>\$3,133,689</b>	<b>\$8,905,794</b>	<b>\$5,867,900</b>
<b>Net Benefit (Cost)</b>	<b>\$6,977,312</b>	<b>\$1,846,076</b>	<b>(\$3,926,029)</b>	<b>\$2,598,452</b>
<b>Benefit/Cost Ratio</b>	<b>2.80</b>	<b>1.59</b>	<b>0.56</b>	<b>1.44</b>

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

<b>2020 ELECTRIC</b>			<b>ACTUAL</b>
<b>Input Summary and Totals</b>			
<b>Program Inputs per Customer kW</b>			
Lifetime (Weighted on Generator kWh)	A		18.1 years
Annual Hours	B		8760
Gross Customer kW	C		1 kW
Generator Peak Coincidence Factor	D		88.40%
Gross Load Factor at Customer	E		12.75%
Net-to-Gross (Energy)	F		70.9%
Net-to-Gross (Demand)	G		70.5%
Transmission Loss Factor (Energy)	H		6.380%
Transmission Loss Factor (Demand)	I		9.130%
<b>Installation Rate (Energy)*</b>	<b>J</b>		<b>98.3%</b>
<b>Installation Rate (Demand)*</b>	<b>K</b>		<b>97.8%</b>
MTRC Net Benefit (Cost)	<b>L</b>		\$592
MTRC Non-Energy Benefit Adder	<b>M</b>		\$227
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$		0.6707 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$		1,116 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$		779 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$		832 kWh
<b>Program Summary All Participant</b>			
<b>Total Budget</b>	<b>N</b>		<b>\$3,133,689</b>
Gross kW Saved at Customer	O		4,390 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$		<b>2,944 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$		4,901,264 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$		<b>4,819,946 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$		3,418,647 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$		<b>3,651,620 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$		<b>\$2,598,452</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$		<b>\$1,602,499</b>
<b>Utility Program Cost per kWh Lifetime</b>			<b>\$0.0474</b>
<b>Utility Program Cost per kW at Gen</b>			<b>\$1.064</b>

\*Weighted average of installation and realization rates

<b>HOME ENERGY SQUAD</b>					<b>2020 ELECTRIC</b>		<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>							
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
	Generation Capacity	N/A	\$168,309	\$168,309	\$168,309		
	Trans. & Dist. Capacity	N/A	\$21,078	\$21,078	\$21,078		
	Marginal Energy	N/A	\$375,652	\$375,652	\$375,652		
	Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
	Subtotal				\$565,040		
	Non-Energy Benefits Adder (20%)				\$113,008		
Subtotal	N/A	\$565,040	\$565,040	\$678,048			
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$1,431,573	N/A	N/A	N/A		
	Participant Rebates and Incentives	\$60,555	N/A	N/A	\$60,555		
	Incremental Capital Savings	\$0	N/A	N/A	\$0		
	Incremental O&M Savings	\$7,632	N/A	N/A	\$7,632		
Subtotal	\$1,499,761	N/A	N/A	\$68,188			
<b>Total Benefits</b>	<b>\$1,499,761</b>	<b>\$565,040</b>	<b>\$565,040</b>	<b>\$746,235</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	\$0		
	Administration & Program Delivery	N/A	\$113,746	\$113,746	\$113,746		
	Advertising/Promotion/Customer Ed	N/A	\$65,138	\$65,138	\$65,138		
	Participant Rebates and Incentives	N/A	\$60,555	\$60,555	\$60,555		
	Equipment & Installation	N/A	\$162,110	\$162,110	\$162,110		
	Measurement and Verification	N/A	\$0	\$0	\$0		
Subtotal	N/A	\$401,549	\$401,549	\$401,549			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$1,431,573	N/A		
Subtotal	N/A	N/A	\$1,431,573	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$67,600	N/A	N/A	\$67,600		
	Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$67,600	N/A	N/A	\$67,600			
<b>Total Costs</b>	<b>\$67,600</b>	<b>\$401,549</b>	<b>\$1,833,123</b>	<b>\$469,149</b>			
<b>Net Benefit (Cost)</b>	<b>\$1,432,161</b>	<b>\$163,490</b>	<b>(\$1,268,083)</b>	<b>\$277,086</b>			
<b>Benefit/Cost Ratio</b>	<b>22.19</b>	<b>1.41</b>	<b>0.31</b>	<b>1.59</b>			

  

<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	19.6 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	14.69%
Gross Load Factor at Customer	E	11.29%
Net-to-Gross (Energy)	F	100.0%
Net-to-Gross (Demand)	G	100.0%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	\$284
MTRC Non-Energy Benefit Adder	M	\$116
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.1616 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	989 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	989 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	1,056 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$401,549</b>
Gross kW Saved at Customer	O	974 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>157 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	963,366 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>963,366 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	963,366 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>1,029,017 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$277,086</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>\$164,078</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0199</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$2,550</b>

\*Weighted average of installation and realization rates

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

HOME LIGHTING & RECYCLING					2020	ELECTRIC	ACTUAL
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	\$12,934,314	\$12,934,314	\$12,934,314		
	Trans. & Dist. Capacity	N/A	\$1,619,825	\$1,619,825	\$1,619,825		
	Marginal Energy	N/A	\$27,086,074	\$27,086,074	\$27,086,074		
	Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
	Subtotal				\$41,640,213		
	Non-Energy Benefits Adder (20%)				\$8,328,043		
Subtotal	N/A	\$41,640,213	\$41,640,213	\$49,968,256			
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$214,675,195	N/A	N/A	N/A		
	Participant Rebates and Incentives	\$5,968,547	N/A	N/A	\$5,968,547		
	Incremental Capital Savings	\$0	N/A	N/A	\$0		
	Incremental O&M Savings	\$0	N/A	N/A	\$0		
Subtotal	\$220,643,742	N/A	N/A	\$5,968,547			
<b>Total Benefits</b>	<b>\$220,643,742</b>	<b>\$41,640,213</b>	<b>\$41,640,213</b>	<b>\$55,936,803</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	\$0		
	Administration & Program Delivery	N/A	\$654,426	\$654,426	\$654,426		
	Advertising/Promotion/Customer Ed	N/A	\$576,607	\$576,607	\$576,607		
	Participant Rebates and Incentives	N/A	\$5,968,547	\$5,968,547	\$5,968,547		
	Equipment & Installation	N/A	\$0	\$0	\$0		
	Measurement and Verification	N/A	\$3,000	\$3,000	\$3,000		
Subtotal	N/A	\$7,202,580	\$7,202,580	\$7,202,580			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$130,193,399	N/A		
Subtotal	N/A	N/A	\$130,193,399	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$6,247,668	N/A	N/A	\$3,881,338		
	Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$6,247,668	N/A	N/A	\$3,881,338			
<b>Total Costs</b>	<b>\$6,247,668</b>	<b>\$7,202,580</b>	<b>\$137,395,979</b>	<b>\$11,083,918</b>			
<b>Net Benefit (Cost)</b>	<b>\$214,396,074</b>	<b>\$34,437,634</b>	<b>(\$95,755,765)</b>	<b>\$44,852,885</b>			
<b>Benefit/Cost Ratio</b>	<b>35.32</b>	<b>5.78</b>	<b>0.30</b>	<b>5.05</b>			

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	12.2 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	15.83%
Gross Load Factor at Customer	E	13.23%
Net-to-Gross (Energy)	F	61.2%
Net-to-Gross (Demand)	G	61.3%
Transmission Loss Factor (Energy)	H	6.171%
Transmission Loss Factor (Demand)	I	9.046%
<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>99.0%</b>
<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>99.0%</b>
MTRC Net Benefit (Cost)	L	\$282
MTRC Non-Energy Benefit Adder	M	\$52
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.1056 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	1,159 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	702 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	749 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$7,202,580</b>
Gross kW Saved at Customer	O	159,083 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>16,794 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	184,398,307 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>182,554,324 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	111,754,789 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>119,105,184 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$44,852,885</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>\$36,524,842</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0050</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$429</b>

\*Weighted average of installation and realization rates

<b>HOME PERFORMANCE WITH ENERGY STAR</b>					<b>2020 ELECTRIC</b>		<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>							
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
Generation Capacity	N/A	\$91,706	\$91,706	\$91,706			
Trans. & Dist. Capacity	N/A	\$11,485	\$11,485	\$11,485			
Marginal Energy	N/A	\$24,615	\$24,615	\$24,615			
Avoided Emissions (CO2)	N/A	N/A	N/A	N/A			\$0
Subtotal							\$127,806
Non-Energy Benefits Adder (20%)							\$25,561
Subtotal	N/A	\$127,806	\$127,806	\$153,368			
<b>Other Benefits</b>							
Bill Reduction - Electric	\$87,145	N/A	N/A	N/A			
Participant Rebates and Incentives	\$42,508	N/A	N/A	\$42,508			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$129,653	N/A	N/A	\$42,508			
<b>Total Benefits</b>	<b>\$129,653</b>	<b>\$127,806</b>	<b>\$127,806</b>	<b>\$195,875</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$77,132	\$77,132	\$77,132			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$42,508	\$42,508	\$42,508			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$9,365	\$9,365	\$9,365			
Subtotal	N/A	\$129,005	\$129,005	\$129,005			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Electric	N/A	N/A	\$101,039	N/A			
Subtotal	N/A	N/A	\$101,039	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$142,485	N/A	N/A	\$165,239			
Incremental O&M Costs	\$429	N/A	N/A	\$497			
Subtotal	\$142,914	N/A	N/A	\$165,736			
<b>Total Costs</b>	<b>\$142,914</b>	<b>\$129,005</b>	<b>\$230,044</b>	<b>\$294,741</b>			
<b>Net Benefit (Cost)</b>	<b>(\$13,261)</b>	<b>(\$1,198)</b>	<b>(\$102,237)</b>	<b>(\$98,865)</b>			
<b>Benefit/Cost Ratio</b>	<b>0.91</b>	<b>0.99</b>	<b>0.56</b>	<b>0.66</b>			

  

<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	16.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	74.88%
Gross Load Factor at Customer	E	7.63%
Net-to-Gross (Energy)	F	115.9%
Net-to-Gross (Demand)	G	115.9%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	-\$1,064
MTRC Non-Energy Benefit Adder	M	\$275
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.9550 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	668 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	774 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	827 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$129,005</b>
Gross kW Saved at Customer	O	93 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>89 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	62,057 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	62,057 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	71,933 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>76,835 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>(\$98,865)</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>(\$124,427)</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.1051</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$1,454</b>

\*Weighted average of installation and realization rates

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

INSULATION & AIR SEALING					2020 ELECTRIC		ACTUAL
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>					<b>Input Summary and Totals</b>		
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>	<b>Program Inputs per Customer kW</b>		
<b>Benefits</b>					Lifetime (Weighted on Generator kWh)	A	15.8 years
<b>Avoided Revenue Requirements</b>					Annual Hours	B	8760
Generation Capacity	N/A	\$434,726	\$434,726	\$434,726	Gross Customer kW	C	1 kW
Trans. & Dist. Capacity	N/A	\$54,443	\$54,443	\$54,443	Generator Peak Coincidence Factor	D	76.91%
Marginal Energy	N/A	\$133,750	\$133,750	\$133,750	Gross Load Factor at Customer	E	8.66%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Energy)	F	89.0%
Subtotal				\$622,920	Net-to-Gross (Demand)	G	89.0%
Non-Energy Benefits Adder (20%)				\$124,584	Transmission Loss Factor (Energy)	H	6.380%
Subtotal	N/A	\$622,920	\$622,920	\$747,504	Transmission Loss Factor (Demand)	I	9.130%
<b>Other Benefits</b>					<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
Bill Reduction - Electric	\$614,715	N/A	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Participant Rebates and Incentives	\$335,645	N/A	N/A	\$335,645	MTRC Net Benefit (Cost)	<b>L</b>	-\$734
Incremental Capital Savings	\$0	N/A	N/A	\$0	MTRC Non-Energy Benefit Adder	<b>M</b>	\$212
Incremental O&M Savings	\$0	N/A	N/A	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$ 0.7533 kW	
Subtotal	\$950,360	N/A	N/A	\$335,645	Gross Annual kWh Saved at Customer	$(B \times E \times C)$ 759 kWh	
<b>Total Benefits</b>	<b>\$950,360</b>	<b>\$622,920</b>	<b>\$622,920</b>	<b>\$1,083,149</b>	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$ 675 kWh	
<b>Costs</b>					Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$ 721 kWh	
<b>Utility Project Costs</b>					<b>Program Summary All Participant</b>		
Program Planning & Design	N/A	\$0	\$0	\$0	<b>Total Budget</b>	N	<b>\$366,267</b>
Administration & Program Delivery	N/A	\$30,622	\$30,622	\$30,622	Gross kW Saved at Customer	O	588 kW
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0	<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$ 443 kW	
Participant Rebates and Incentives	N/A	\$335,645	\$335,645	\$335,645	Gross Annual kWh Saved at Customer	$(B \times E \times O)$ 445,928 kWh	
Equipment & Installation	N/A	\$0	\$0	\$0	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$ 445,928 kWh	
Measurement and Verification	N/A	\$0	\$0	\$0	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$ 396,876 kWh	
Subtotal	N/A	\$366,267	\$366,267	\$366,267	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$ 423,922 kWh	
<b>Utility Revenue Reduction</b>					<b>TRC Net Benefits with Adder</b>	$(O \times L)$ (\$431,480)	
Revenue Reduction - Electric	N/A	N/A	\$547,096	N/A	<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$ (\$556,064)	
Subtotal	N/A	N/A	\$547,096	N/A	<b>Utility Program Cost per kWh Lifetime</b> \$0.0547		
<b>Participant Costs</b>					<b>Utility Program Cost per kW at Gen</b> \$827		
Incremental Capital Costs	\$1,290,293	N/A	N/A	\$1,148,361	*Weighted average of installation and realization rates		
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$1,290,293	N/A	N/A	\$1,148,361			
<b>Total Costs</b>	<b>\$1,290,293</b>	<b>\$366,267</b>	<b>\$913,364</b>	<b>\$1,514,628</b>			
<b>Net Benefit (Cost)</b>	<b>(\$339,933)</b>	<b>\$256,652</b>	<b>(\$290,444)</b>	<b>(\$431,480)</b>			
<b>Benefit/Cost Ratio</b>	<b>0.74</b>	<b>1.70</b>	<b>0.68</b>	<b>0.72</b>			

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

<b>REFRIGERATOR &amp; FREEZER RECYCLING</b>				
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	\$216,565	\$216,565	\$216,565
Trans. & Dist. Capacity	N/A	\$27,121	\$27,121	\$27,121
Marginal Energy	N/A	\$420,776	\$420,776	\$420,776
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$664,462
Non-Energy Benefits Adder (20%)				\$132,892
Subtotal	N/A	\$664,462	\$664,462	\$797,354
<b>Other Benefits</b>				
Bill Reduction - Electric	\$4,216,265	N/A	N/A	N/A
Participant Rebates and Incentives	\$323,780	N/A	N/A	\$323,780
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$4,540,045	N/A	N/A	\$323,780
<b>Total Benefits</b>	<b>\$4,540,045</b>	<b>\$664,462</b>	<b>\$664,462</b>	<b>\$1,121,134</b>
<b>Costs</b>				
<b>Utility Project Costs</b>				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$574,378	\$574,378	\$574,378
Advertising/Promotion/Customer Ed	N/A	\$130,960	\$130,960	\$130,960
Participant Rebates and Incentives	N/A	\$323,780	\$323,780	\$323,780
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$4,000	\$4,000	\$4,000
Subtotal	N/A	\$1,033,117	\$1,033,117	\$1,033,117
<b>Utility Revenue Reduction</b>				
Revenue Reduction - Electric	N/A	N/A	\$2,475,122	N/A
Subtotal	N/A	N/A	\$2,475,122	N/A
<b>Participant Costs</b>				
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
<b>Total Costs</b>	<b>\$0</b>	<b>\$1,033,117</b>	<b>\$3,508,239</b>	<b>\$1,033,117</b>
<b>Net Benefit (Cost)</b>	<b>\$4,540,045</b>	<b>(\$368,655)</b>	<b>(\$2,843,777)</b>	<b>\$88,017</b>
<b>Benefit/Cost Ratio</b>	<b>INF</b>	<b>0.64</b>	<b>0.19</b>	<b>1.09</b>

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

<b>2020 ELECTRIC</b>		
<b>ACTUAL</b>		
<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	7.4 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	65.15%
Gross Load Factor at Customer	E	60.82%
Net-to-Gross (Energy)	F	59.3%
Net-to-Gross (Demand)	G	59.2%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	\$94
MTRC Non-Energy Benefit Adder	M	\$143
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.4242 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	5,328 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	3,161 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	3,376 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$1,033,117</b>
Gross kW Saved at Customer	O	932 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>395 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	4,962,929 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>4,962,929 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	2,944,429 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>3,145,085 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$88,017</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>(\$44,875)</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0446</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$2,614</b>

\*Weighted average of installation and realization rates

<b>RESIDENTIAL HEATING</b>					<b>2020 ELECTRIC</b>		<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>					<b>Input Summary and Totals</b>		
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>	<b>Program Inputs per Customer kW</b>		
<b>Benefits</b>					Lifetime (Weighted on Generator kWh)	A	18.0 years
<b>Avoided Revenue Requirements</b>					Annual Hours	B	8760
Generation Capacity	N/A	\$316,310	\$316,310	\$316,310	Gross Customer kW	C	1 kW
Trans. & Dist. Capacity	N/A	\$39,613	\$39,613	\$39,613	Generator Peak Coincidence Factor	D	72.78%
Marginal Energy	N/A	\$515,933	\$515,933	\$515,933	Gross Load Factor at Customer	E	46.63%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Energy)	F	94.0%
Subtotal				\$871,856	Net-to-Gross (Demand)	G	94.0%
Non-Energy Benefits Adder (20%)				\$174,371	Transmission Loss Factor (Energy)	H	6.380%
Subtotal	N/A	\$871,856	\$871,856	\$1,046,227	Transmission Loss Factor (Demand)	I	9.130%
<b>Other Benefits</b>					<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
Bill Reduction - Electric	\$2,246,771	N/A	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Participant Rebates and Incentives	\$194,190	N/A	N/A	\$194,190	MTRC Net Benefit (Cost)	<b>L</b>	\$730
Incremental Capital Savings	\$0	N/A	N/A	\$0	MTRC Non-Energy Benefit Adder	<b>M</b>	\$445
Incremental O&M Savings	\$0	N/A	N/A	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.7529 kW
Subtotal	\$2,440,961	N/A	N/A	\$194,190	Gross Annual kWh Saved at Customer	$(B \times E \times C)$	4,085 kWh
<b>Total Benefits</b>	<b>\$2,440,961</b>	<b>\$871,856</b>	<b>\$871,856</b>	<b>\$1,240,417</b>	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	3,840 kWh
<b>Costs</b>					Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	4,102 kWh
<b>Utility Project Costs</b>					<b>Program Summary All Participant</b>		
Program Planning & Design	N/A	\$0	\$0	\$0	<b>Total Budget</b>	N	<b>\$226,724</b>
Administration & Program Delivery	N/A	\$29,534	\$29,534	\$29,534	Gross kW Saved at Customer	O	391 kW
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0	<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	295 kW
Participant Rebates and Incentives	N/A	\$194,190	\$194,190	\$194,190	Gross Annual kWh Saved at Customer	$(B \times E \times O)$	1,599,148 kWh
Equipment & Installation	N/A	\$0	\$0	\$0	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	1,599,148 kWh
Measurement and Verification	N/A	\$3,000	\$3,000	\$3,000	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	1,503,199 kWh
Subtotal	N/A	\$226,724	\$226,724	\$226,724	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	1,605,639 kWh
<b>Utility Revenue Reduction</b>					<b>TRC Net Benefits with Adder</b>	$(O \times L)$	\$285,907
Revenue Reduction - Electric	N/A	N/A	\$2,111,964	N/A	<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	\$111,536
Subtotal	N/A	N/A	\$2,111,964	N/A	<b>Utility Program Cost per kWh Lifetime</b>		\$0.0078
<b>Participant Costs</b>					<b>Utility Program Cost per kW at Gen</b>		\$769
Incremental Capital Costs	\$469,416	N/A	N/A	\$441,251	*Weighted average of installation and realization rates		
Incremental O&M Costs	\$304,825	N/A	N/A	\$286,535			
Subtotal	\$774,241	N/A	N/A	\$727,786			
<b>Total Costs</b>	<b>\$774,241</b>	<b>\$226,724</b>	<b>\$2,338,689</b>	<b>\$954,510</b>			
<b>Net Benefit (Cost)</b>	<b>\$1,666,720</b>	<b>\$645,132</b>	<b>(\$1,466,833)</b>	<b>\$285,907</b>			
<b>Benefit/Cost Ratio</b>	<b>3.15</b>	<b>3.85</b>	<b>0.37</b>	<b>1.30</b>			

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

SCHOOL EDUCATION KITS					2020	ELECTRIC	ACTUAL
2020 Net Present Cost Benefit Summary Analysis For All Participants					Input Summary and Totals		
	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)	Program Inputs per Customer kW		
Benefits					Lifetime (Weighted on Generator kWh)	A	14.6 years
Avoided Revenue Requirements					Annual Hours	B	8760
Generation Capacity	N/A	\$1,842,350	\$1,842,350	\$1,842,350	Gross Customer kW	C	1 kW
Trans. & Dist. Capacity	N/A	\$230,728	\$230,728	\$230,728	Generator Peak Coincidence Factor	D	50.03%
Marginal Energy	N/A	\$3,692,088	\$3,692,088	\$3,692,088	Gross Load Factor at Customer	E	9.64%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Energy)	F	100.0%
Subtotal				\$5,765,166	Net-to-Gross (Demand)	G	100.0%
Non-Energy Benefits Adder (20%)				\$1,153,033	Transmission Loss Factor (Energy)	H	6.380%
Subtotal	N/A	\$5,765,166	\$5,765,166	\$6,918,200	Transmission Loss Factor (Demand)	I	9.130%
Other Benefits					Installation Rate (Energy)*	J	55.6%
Bill Reduction - Electric	\$24,661,852	N/A	N/A	N/A	Installation Rate (Demand)*	K	15.2%
Participant Rebates and Incentives	\$1,162,791	N/A	N/A	\$1,162,791	MTRC Net Benefit (Cost)	L	\$241
Incremental Capital Savings	\$0	N/A	N/A	\$0	MTRC Non-Energy Benefit Adder	M	\$51
Incremental O&M Savings	\$797,404	N/A	N/A	\$355,458	Net coincident kW Saved at Generator	( G x C x K ) x D / ( 1 - I )	0.0838 kW
Subtotal	\$26,622,047	N/A	N/A	\$1,518,249	Gross Annual kWh Saved at Customer	( B x E x C )	844 kWh
Total Benefits	\$26,622,047	\$5,765,166	\$5,765,166	\$8,436,448	Net Annual kWh Saved at Customer	( F x ( B x E x C x J ) )	469 kWh
Costs					Net Annual kWh Saved at Generator	( F x ( B x E x C x J ) ) / ( 1 - H )	501 kWh
Utility Project Costs					Program Summary All Participant		
Program Planning & Design	N/A	\$0	\$0	\$0	Total Budget	N	\$1,882,512
Administration & Program Delivery	N/A	\$718,096	\$718,096	\$718,096	Gross kW Saved at Customer	O	22,709 kW
Advertising/Promotion/Customer Ed	N/A	\$1,625	\$1,625	\$1,625	Net coincident kW Saved at Generator	( G x O x K ) x D / ( 1 - I )	1,904 kW
Participant Rebates and Incentives	N/A	\$1,162,791	\$1,162,791	\$1,162,791	Gross Annual kWh Saved at Customer	( B x E x O )	19,173,500 kWh
Equipment & Installation	N/A	\$0	\$0	\$0	Gross Installed Annual kWh Saved at Customer	( B x E x O x J )	10,655,887 kWh
Measurement and Verification	N/A	\$0	\$0	\$0	Net Annual kWh Saved at Customer	( F x ( B x E x O x J ) )	10,655,887 kWh
Subtotal	N/A	\$1,882,512	\$1,882,512	\$1,882,512	Net Annual kWh Saved at Generator	( F x ( B x E x O x J ) ) / ( 1 - H )	11,382,062 kWh
Utility Revenue Reduction					TRC Net Benefits with Adder	( O x L )	\$5,482,199
Revenue Reduction - Electric	N/A	N/A	\$14,805,294	N/A	TRC Net Benefits without Adder	( O x ( L - M ) )	\$4,329,166
Subtotal	N/A	N/A	\$14,805,294	N/A	Utility Program Cost per kWh Lifetime		\$0.013
Participant Costs					Utility Program Cost per kW at Gen		\$989
Incremental Capital Costs	\$1,071,737	N/A	N/A	\$1,071,737	*Weighted average of installation and realization rates		
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$1,071,737	N/A	N/A	\$1,071,737			
Total Costs	\$1,071,737	\$1,882,512	\$16,687,806	\$2,954,249			
Net Benefit (Cost)	\$25,550,310	\$3,882,654	(\$10,922,639)	\$5,482,199			
Benefit/Cost Ratio	24.84	3.06	0.35	2.86			

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

<b>THERMOSTAT OPTIMIZATION</b>					<b>2020 ELECTRIC</b>		<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>							
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
	Generation Capacity	N/A	\$966,498	\$966,498	\$966,498		
	Trans. & Dist. Capacity	N/A	\$121,039	\$121,039	\$121,039		
	Marginal Energy	N/A	\$176,195	\$176,195	\$176,195		
	Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
	Subtotal				\$1,263,732		
	Non-Energy Benefits Adder (20%)				\$252,746		
Subtotal	N/A	\$1,263,732	\$1,263,732	\$1,516,479			
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$855,677	N/A	N/A	N/A		
	Participant Rebates and Incentives	\$180,558	N/A	N/A	\$180,558		
	Incremental Capital Savings	\$0	N/A	N/A	\$0		
	Incremental O&M Savings	\$0	N/A	N/A	\$0		
Subtotal	\$1,036,234	N/A	N/A	\$180,558			
<b>Total Benefits</b>	<b>\$1,036,234</b>	<b>\$1,263,732</b>	<b>\$1,263,732</b>	<b>\$1,697,036</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	\$0		
	Administration & Program Delivery	N/A	\$80,347	\$80,347	\$80,347		
	Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0		
	Participant Rebates and Incentives	N/A	\$180,558	\$180,558	\$180,558		
	Equipment & Installation	N/A	\$0	\$0	\$0		
	Measurement and Verification	N/A	\$0	\$0	\$0		
Subtotal	N/A	\$260,905	\$260,905	\$260,905			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$855,677	N/A		
Subtotal	N/A	N/A	\$855,677	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$792,639	N/A	N/A	\$792,639		
	Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$792,639	N/A	N/A	\$792,639			
<b>Total Costs</b>	<b>\$792,639</b>	<b>\$260,905</b>	<b>\$1,116,581</b>	<b>\$1,053,544</b>			
<b>Net Benefit (Cost)</b>	<b>\$243,595</b>	<b>\$1,002,827</b>	<b>\$147,151</b>	<b>\$643,492</b>			
<b>Benefit/Cost Ratio</b>	<b>1.31</b>	<b>4.84</b>	<b>1.13</b>	<b>1.61</b>			

  

<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	10.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	75.95%
Gross Load Factor at Customer	E	6.55%
Net-to-Gross (Energy)	F	100.0%
Net-to-Gross (Demand)	G	100.0%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	\$400
MTRC Non-Energy Benefit Adder	M	\$157
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.8358 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	574 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	574 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	613 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$260,905</b>
Gross kW Saved at Customer	O	1,609 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>1,345 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	923,088 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	923,088 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	923,088 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>985,994 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$643,492</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>\$390,746</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0265</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$194</b>

\*Weighted average of installation and realization rates

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

<b>WATER HEATING</b>					<b>2020 ELECTRIC</b>		<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>					<b>Input Summary and Totals</b>		
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>	<b>Program Inputs per Customer kW</b>		
<b>Benefits</b>					Lifetime (Weighted on Generator kWh)	A	12.0 years
<b>Avoided Revenue Requirements</b>					Annual Hours	B	8760
Generation Capacity	N/A	\$31,571	\$31,571	\$31,571	Gross Customer kW	C	1 kW
Trans. & Dist. Capacity	N/A	\$3,954	\$3,954	\$3,954	Generator Peak Coincidence Factor	D	100.00%
Marginal Energy	N/A	\$59,918	\$59,918	\$59,918	Gross Load Factor at Customer	E	80.37%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Energy)	F	100.0%
Subtotal				\$95,443	Net-to-Gross (Demand)	G	100.0%
Non-Energy Benefits Adder (20%)				\$19,089	Transmission Loss Factor (Energy)	H	6.380%
Subtotal	N/A	\$95,443	\$95,443	\$114,531	Transmission Loss Factor (Demand)	I	9.130%
<b>Other Benefits</b>					<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
Bill Reduction - Electric	\$259,365	N/A	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Participant Rebates and Incentives	\$28,371	N/A	N/A	\$28,371	MTRC Net Benefit (Cost)	<b>L</b>	\$48
Incremental Capital Savings	\$0	N/A	N/A	\$0	MTRC Non-Energy Benefit Adder	<b>M</b>	\$547
Incremental O&M Savings	\$0	N/A	N/A	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	1,1005 kW
Subtotal	\$287,736	N/A	N/A	\$28,371	Gross Annual kWh Saved at Customer	$(B \times E \times C)$	7,041 kWh
<b>Total Benefits</b>	<b>\$287,736</b>	<b>\$95,443</b>	<b>\$95,443</b>	<b>\$142,902</b>	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	7,041 kWh
<b>Costs</b>					Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	7,521 kWh
<b>Utility Project Costs</b>					<b>Program Summary All Participant</b>		
Program Planning & Design	N/A	\$0	\$0	\$0	<b>Total Budget</b>	N	<b>\$92,007</b>
Administration & Program Delivery	N/A	\$59,341	\$59,341	\$59,341	Gross kW Saved at Customer	O	35 kW
Advertising/Promotion/Customer Ed	N/A	\$4,296	\$4,296	\$4,296	<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>38 kW</b>
Participant Rebates and Incentives	N/A	\$28,371	\$28,371	\$28,371	Gross Annual kWh Saved at Customer	$(B \times E \times O)$	245,764 kWh
Equipment & Installation	N/A	\$0	\$0	\$0	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	245,764 kWh
Measurement and Verification	N/A	\$0	\$0	\$0	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	245,764 kWh
Subtotal	N/A	\$92,007	\$92,007	\$92,007	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>262,512 kWh</b>
<b>Utility Revenue Reduction</b>					<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$1,685</b>
Revenue Reduction - Electric	N/A	N/A	\$259,365	N/A	<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>(\$17,404)</b>
Subtotal	N/A	N/A	\$259,365	N/A	<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0292</b>
<b>Participant Costs</b>					<b>Utility Program Cost per kW at Gen</b>		<b>\$2.395</b>
Incremental Capital Costs	\$43,778	N/A	N/A	\$43,778	*Weighted average of installation and realization rates		
Incremental O&M Costs	\$5,432	N/A	N/A	\$5,432			
Subtotal	\$49,210	N/A	N/A	\$49,210			
<b>Total Costs</b>	<b>\$49,210</b>	<b>\$92,007</b>	<b>\$351,372</b>	<b>\$141,217</b>			
<b>Net Benefit (Cost)</b>	<b>\$238,526</b>	<b>\$3,435</b>	<b>(\$255,930)</b>	<b>\$1,685</b>			
<b>Benefit/Cost Ratio</b>	<b>5.85</b>	<b>1.04</b>	<b>0.27</b>	<b>1.01</b>			

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

ENERGY SAVINGS KIT					2020	ELECTRIC	ACTUAL
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			
	(\$Total)	(\$Total)	(\$Total)	(\$Total)			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
	Generation Capacity	N/A	\$140,085	\$140,085	Lifetime (Weighted on Generator kWh)	A	17.9 years
	Trans. & Dist. Capacity	N/A	\$17,544	\$17,544	Annual Hours	B	8760
	Marginal Energy	N/A	\$354,790	\$354,790	Gross Customer kW	C	1 kW
	Avoided Emissions (CO2)	N/A	N/A	N/A	Generator Peak Coincidence Factor	D	14.44%
	Subtotal			\$512,418	Gross Load Factor at Customer	E	13.80%
	Non-Energy Benefits Adder (50%)			\$256,209	Net-to-Gross (Energy)	F	100.0%
Subtotal	N/A	\$512,418	\$512,418	\$768,627	Net-to-Gross (Demand)	G	100.0%
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$1,766,282	N/A	N/A	Transmission Loss Factor (Energy)	H	6.380%
	Participant Rebates and Incentives	\$86,574	N/A	N/A	Transmission Loss Factor (Demand)	I	9.130%
	Incremental Capital Savings	\$0	N/A	N/A	<b>Installation Rate (Energy)*</b>	J	77.6%
	Incremental O&M Savings	\$118,579	N/A	N/A	<b>Installation Rate (Demand)*</b>	K	77.4%
Subtotal	\$1,971,435	N/A	N/A	\$175,483	MTRC Net Benefit (Cost)	L	\$604
<b>Total Benefits</b>							
	\$1,971,435	\$512,418	\$512,418	\$944,110	MTRC Non-Energy Benefit Adder	M	\$243
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	Net coincident kW Saved at Generator	( G x C x K ) x D / ( 1 - I )	0.1230 kW
	Administration & Program Delivery	N/A	\$130,369	\$130,369	Gross Annual kWh Saved at Customer	( B x E x C )	1,209 kWh
	Advertising/Promotion/Customer Ed	N/A	\$0	\$0	Net Annual kWh Saved at Customer	( F x ( B x E x C x J ) )	938 kWh
	Participant Rebates and Incentives	N/A	\$86,574	\$86,574	Net Annual kWh Saved at Generator	( F x ( B x E x C x J ) ) / ( 1 - H )	1,002 kWh
	Equipment & Installation	N/A	\$0	\$0			
	Measurement and Verification	N/A	\$4,200	\$4,200			
Subtotal	N/A	\$221,142	\$221,142	\$221,142			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$1,374,773			
Subtotal	N/A	N/A	\$1,374,773	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$85,528	N/A	N/A			
	Incremental O&M Costs	\$0	N/A	N/A			
Subtotal	\$85,528	N/A	N/A	\$85,528			
<b>Total Costs</b>							
	\$85,528	\$221,142	\$1,595,915	\$306,670			
<b>Net Benefit (Cost)</b>							
	\$1,885,907	\$291,276	(\$1,083,497)	\$637,440			
<b>Benefit/Cost Ratio</b>							
	23.05	2.32	0.32	<b>3.08</b>			

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	17.9 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	14.44%
Gross Load Factor at Customer	E	13.80%
Net-to-Gross (Energy)	F	100.0%
Net-to-Gross (Demand)	G	100.0%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>77.6%</b>
<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>77.4%</b>
MTRC Net Benefit (Cost)	L	\$604
MTRC Non-Energy Benefit Adder	M	\$243
Net coincident kW Saved at Generator	( G x C x K ) x D / ( 1 - I )	0.1230 kW
Gross Annual kWh Saved at Customer	( B x E x C )	1,209 kWh
Net Annual kWh Saved at Customer	( F x ( B x E x C x J ) )	938 kWh
Net Annual kWh Saved at Generator	( F x ( B x E x C x J ) ) / ( 1 - H )	1,002 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$221,142</b>
Gross kW Saved at Customer	O	1,056 kW
<b>Net coincident kW Saved at Generator</b>	( G x O x K ) x D / ( 1 - I )	<b>130 kW</b>
Gross Annual kWh Saved at Customer	( B x E x O )	1,276,456 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	( B x E x O x J )	<b>990,526 kWh</b>
Net Annual kWh Saved at Customer	( F x ( B x E x O x J ) )	990,526 kWh
<b>Net Annual kWh Saved at Generator</b>	( F x ( B x E x O x J ) ) / ( 1 - H )	<b>1,058,028 kWh</b>
<b>TRC Net Benefits with Adder</b>	( O x L )	<b>\$637,440</b>
<b>TRC Net Benefits without Adder</b>	( O x ( L - M ) )	<b>\$381,231</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0117</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$1,702</b>

\*Weighted average of installation and realization rates

<b>MULTIFAMILY WEATHERIZATION</b>					<b>2020</b>	<b>ELECTRIC</b>	<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>							
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>			
<b>Benefits</b>							
<b>Avoided Revenue Requirements</b>							
	Generation Capacity	N/A	\$344,335	\$344,335	\$344,335		
	Trans. & Dist. Capacity	N/A	\$43,123	\$43,123	\$43,123		
	Marginal Energy	N/A	\$585,176	\$585,176	\$585,176		
	Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
	Subtotal				\$972,634		
	Non-Energy Benefits Adder (50%)				\$486,317		
Subtotal	N/A	\$972,634	\$972,634	\$1,458,951			
<b>Other Benefits</b>							
	Bill Reduction - Electric	\$2,431,818	N/A	N/A	N/A		
	Participant Rebates and Incentives	\$875,242	N/A	N/A	\$875,242		
	Incremental Capital Savings	\$0	N/A	N/A	\$0		
	Incremental O&M Savings	\$48,396	N/A	N/A	\$48,396		
Subtotal	\$3,355,456	N/A	N/A	\$923,638			
<b>Total Benefits</b>	<b>\$3,355,456</b>	<b>\$972,634</b>	<b>\$972,634</b>	<b>\$2,382,589</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
	Program Planning & Design	N/A	\$0	\$0	\$0		
	Administration & Program Delivery	N/A	\$158,659	\$158,659	\$158,659		
	Advertising/Promotion/Customer Ed	N/A	\$30,000	\$30,000	\$30,000		
	Participant Rebates and Incentives	N/A	\$875,242	\$875,242	\$875,242		
	Equipment & Installation	N/A	\$0	\$0	\$0		
	Measurement and Verification	N/A	\$15,350	\$15,350	\$15,350		
Subtotal	N/A	\$1,079,251	\$1,079,251	\$1,079,251			
<b>Utility Revenue Reduction</b>							
	Revenue Reduction - Electric	N/A	N/A	\$2,431,818	N/A		
Subtotal	N/A	N/A	\$2,431,818	N/A			
<b>Participant Costs</b>							
	Incremental Capital Costs	\$1,061,629	N/A	N/A	\$1,061,629		
	Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$1,061,629	N/A	N/A	\$1,061,629			
<b>Total Costs</b>	<b>\$1,061,629</b>	<b>\$1,079,251</b>	<b>\$3,511,069</b>	<b>\$2,140,881</b>			
<b>Net Benefit (Cost)</b>	<b>\$2,293,826</b>	<b>(\$106,617)</b>	<b>(\$2,538,435)</b>	<b>\$241,708</b>			
<b>Benefit/Cost Ratio</b>	<b>3.16</b>	<b>0.90</b>	<b>0.28</b>	<b>1.11</b>			

<b>Input Summary and Totals</b>		
<b>Program Inputs per Customer kW</b>		
Lifetime (Weighted on Generator kWh)	A	18.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	41.71%
Gross Load Factor at Customer	E	28.06%
Net-to-Gross (Energy)	F	100.0%
Net-to-Gross (Demand)	G	100.0%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.130%
<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)	L	\$346
MTRC Non-Energy Benefit Adder	M	\$696
Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.4590 kW
Gross Annual kWh Saved at Customer	$(B \times E \times C)$	2,458 kWh
Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	2,458 kWh
Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	2,626 kWh
<b>Program Summary All Participant</b>		
<b>Total Budget</b>	N	<b>\$1,079,251</b>
Gross kW Saved at Customer	O	699 kW
<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>321 kW</b>
Gross Annual kWh Saved at Customer	$(B \times E \times O)$	1,718,231 kWh
<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	<b>1,718,231 kWh</b>
Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	1,718,231 kWh
<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>1,835,325 kWh</b>
<b>TRC Net Benefits with Adder</b>	$(O \times L)$	<b>\$241,708</b>
<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	<b>(\$244,609)</b>
<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0327</b>
<b>Utility Program Cost per kW at Gen</b>		<b>\$3,364</b>

\*Weighted average of installation and realization rates

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

<b>NON-PROFIT</b>					<b>2020 ELECTRIC</b>		<b>ACTUAL</b>
<b>2020 Net Present Cost Benefit Summary Analysis For All Participants</b>					<b>Input Summary and Totals</b>		
	<b>Participant Test (\$Total)</b>	<b>Utility Test (\$Total)</b>	<b>Rate Impact Test (\$Total)</b>	<b>Modified TRC Test (\$Total)</b>	<b>Program Inputs per Customer kW</b>		
<b>Benefits</b>					Lifetime (Weighted on Generator kWh)	A	19.0 years
<b>Avoided Revenue Requirements</b>					Annual Hours	B	8760
Generation Capacity	N/A	\$421,252	\$421,252	\$421,252	Gross Customer kW	C	1 kW
Trans. & Dist. Capacity	N/A	\$52,756	\$52,756	\$52,756	Generator Peak Coincidence Factor	D	67.92%
Marginal Energy	N/A	\$575,765	\$575,765	\$575,765	Gross Load Factor at Customer	E	35.77%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Energy)	F	100.0%
Subtotal				\$1,049,772	Net-to-Gross (Demand)	G	100.0%
Non-Energy Benefits Adder (50%)				\$524,886	Transmission Loss Factor (Energy)	H	5.330%
Subtotal	N/A	\$1,049,772	\$1,049,772	\$1,574,658	Transmission Loss Factor (Demand)	I	7.710%
<b>Other Benefits</b>					<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
Bill Reduction - Electric	\$1,342,490	N/A	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Participant Rebates and Incentives	\$887,557	N/A	N/A	\$887,557	MTRC Net Benefit (Cost)	<b>L</b>	-\$86
Incremental Capital Savings	\$0	N/A	N/A	\$0	MTRC Non-Energy Benefit Adder	<b>M</b>	\$1,016
Incremental O&M Savings	\$0	N/A	N/A	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$	0.7359 kW
Subtotal	\$2,230,047	N/A	N/A	\$887,557	Gross Annual kWh Saved at Customer	$(B \times E \times C)$	3,133 kWh
<b>Total Benefits</b>	<b>\$2,230,047</b>	<b>\$1,049,772</b>	<b>\$1,049,772</b>	<b>\$2,462,215</b>	Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$	3,133 kWh
<b>Costs</b>					Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$	3,310 kWh
<b>Utility Project Costs</b>					<b>Program Summary All Participant</b>		
Program Planning & Design	N/A	\$0	\$0	\$0	<b>Total Budget</b>	N	<b>\$1,153,499</b>
Administration & Program Delivery	N/A	\$209,652	\$209,652	\$209,652	Gross kW Saved at Customer	O	517 kW
Advertising/Promotion/Customer Ed	N/A	\$30,000	\$30,000	\$30,000	<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$	<b>380 kW</b>
Participant Rebates and Incentives	N/A	\$887,557	\$887,557	\$887,557	Gross Annual kWh Saved at Customer	$(B \times E \times O)$	1,618,868 kWh
Equipment & Installation	N/A	\$0	\$0	\$0	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$	1,618,868 kWh
Measurement and Verification	N/A	\$26,291	\$26,291	\$26,291	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	1,618,868 kWh
Subtotal	N/A	\$1,153,499	\$1,153,499	\$1,153,499	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$	<b>1,710,012 kWh</b>
<b>Utility Revenue Reduction</b>					<b>TRC Net Benefits with Adder</b>	$(O \times L)$	(\$44,651)
Revenue Reduction - Electric	N/A	N/A	\$1,342,490	N/A	<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$	(\$569,538)
Subtotal	N/A	N/A	\$1,342,490	N/A	<b>Utility Program Cost per kWh Lifetime</b>		<b>\$0.0355</b>
<b>Participant Costs</b>					<b>Utility Program Cost per kW at Gen</b>		<b>\$3.034</b>
Incremental Capital Costs	\$1,322,338	N/A	N/A	\$1,322,338	*Weighted average of installation and realization rates		
Incremental O&M Costs	\$31,030	N/A	N/A	\$31,030			
Subtotal	\$1,353,368	N/A	N/A	\$1,353,368			
<b>Total Costs</b>	<b>\$1,353,368</b>	<b>\$1,153,499</b>	<b>\$2,495,989</b>	<b>\$2,506,866</b>			
<b>Net Benefit (Cost)</b>	<b>\$876,679</b>	<b>(\$103,727)</b>	<b>(\$1,446,217)</b>	<b>(\$44,651)</b>			
<b>Benefit/Cost Ratio</b>	<b>1.65</b>	<b>0.91</b>	<b>0.42</b>	<b>0.98</b>			

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





SMALL COMMERCIAL BUILDING CONTROLS					2020	ELECTRIC	ACTUAL
2020 Net Present Cost Benefit Summary Analysis For All Participants					Input Summary and Totals		
	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)	Program Inputs per Customer kW		
<b>Benefits</b>					Lifetime (Weighted on Generator kWh)	A	5.0 years
<b>Avoided Revenue Requirements</b>					Annual Hours	B	8760
Generation Capacity	N/A	\$166,381	\$166,381	\$166,381	Gross Customer kW	C	1 kW
Trans. & Dist. Capacity	N/A	\$20,836	\$20,836	\$20,836	Generator Peak Coincidence Factor	D	100.00%
Marginal Energy	N/A	\$695	\$695	\$695	Gross Load Factor at Customer	E	0.19%
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	Net-to-Gross (Energy)	F	100.0%
Subtotal				\$187,911	Net-to-Gross (Demand)	G	100.0%
Non-Energy Benefits Adder (20%)				\$37,582	Transmission Loss Factor (Energy)	H	6.380%
Subtotal	N/A	\$187,911	\$187,911	\$225,494	Transmission Loss Factor (Demand)	I	9.130%
<b>Other Benefits</b>					<b>Installation Rate (Energy)*</b>	<b>J</b>	<b>100.0%</b>
Bill Reduction - Electric	\$3,601	N/A	N/A	N/A	<b>Installation Rate (Demand)*</b>	<b>K</b>	<b>100.0%</b>
Participant Rebates and Incentives	\$17,963	N/A	N/A	\$17,963	MTRC Net Benefit (Cost)	<b>L</b>	\$239
Incremental Capital Savings	\$0	N/A	N/A	\$0	MTRC Non-Energy Benefit Adder	<b>M</b>	\$101
Incremental O&M Savings	\$0	N/A	N/A	\$0	Net coincident kW Saved at Generator	$(G \times C \times K) \times D / (1 - I)$ 1.1005 kW	
Subtotal	\$21,564	N/A	N/A	\$17,963	Gross Annual kWh Saved at Customer	$(B \times E \times C)$ 16 kWh	
<b>Total Benefits</b>					Net Annual kWh Saved at Customer	$(F \times (B \times E \times C \times J))$ 16 kWh	
<b>Costs</b>					Net Annual kWh Saved at Generator	$(F \times (B \times E \times C \times J)) / (1 - H)$ 18 kWh	
<b>Utility Project Costs</b>					<b>Program Summary All Participant</b>		
Program Planning & Design	N/A	\$0	\$0	\$0	<b>Total Budget</b>	N	<b>\$127,464</b>
Administration & Program Delivery	N/A	\$109,502	\$109,502	\$109,502	Gross kW Saved at Customer	O	372 kW
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0	<b>Net coincident kW Saved at Generator</b>	$(G \times O \times K) \times D / (1 - I)$ 409 kW	
Participant Rebates and Incentives	N/A	\$17,963	\$17,963	\$17,963	Gross Annual kWh Saved at Customer	$(B \times E \times O)$ 6,107 kWh	
Equipment & Installation	N/A	\$0	\$0	\$0	<b>Gross Installed Annual kWh Saved at Customer</b>	$(B \times E \times O \times J)$ 6,107 kWh	
Measurement and Verification	N/A	\$0	\$0	\$0	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$ 6,107 kWh	
Subtotal	N/A	\$127,464	\$127,464	\$127,464	<b>Net Annual kWh Saved at Generator</b>	$(F \times (B \times E \times O \times J)) / (1 - H)$ 6,523 kWh	
<b>Utility Revenue Reduction</b>					<b>TRC Net Benefits with Adder</b>	$(O \times L)$ \$88,992	
Revenue Reduction - Electric	N/A	N/A	\$3,601	N/A	<b>TRC Net Benefits without Adder</b>	$(O \times (L - M))$ \$51,410	
Subtotal	N/A	N/A	\$3,601	N/A	<b>Utility Program Cost per kWh Lifetime</b> \$3,9080		
<b>Participant Costs</b>					<b>Utility Program Cost per kW at Gen</b> \$312		
Incremental Capital Costs	\$27,000	N/A	N/A	\$27,000	*Weighted average of installation and realization rates		
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$27,000	N/A	N/A	\$27,000			
<b>Total Costs</b>							
	\$27,000	\$127,464	\$131,065	\$154,464			
<b>Net Benefit (Cost)</b>							
	(\$5,436)	\$60,447	\$56,846	\$88,992			
<b>Benefit/Cost Ratio</b>							
	0.80	1.47	1.43	<b>1.58</b>			

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





<b>RESIDENTIAL PROGRAM TOTAL</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	13.44 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	91.16%
					Install Rate (Weighted on Dth)	C	71.4%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>447,504</b>
Commodity Cost Reduction	N/A	\$13,743,126	\$13,743,126	\$13,743,126	Utility Costs per Net Dth/Yr	E	\$15.77
Variable O&M Savings	N/A	\$277,751	\$277,751	\$277,751	Net Benefit (Cost) per Gross Dth/Yr	F	\$23.73
Demand Savings	N/A	\$1,319,362	\$1,319,362	\$1,319,362	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$6.86
Subtotal				\$15,340,239	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>63,427</b>
Non-Energy Benefits Adder (20%)				\$3,068,048	<b>Total Utility Budget</b>	( E x D )	<b>\$7,055,479</b>
Subtotal	N/A	\$15,340,239	\$15,340,239	\$18,408,287	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$10,621,162</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$7,553,114</b>
Bill Reduction - Gas	\$29,411,994	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$4,976,572	N/A	N/A	\$4,976,572	( E / A )		<b>\$1.17</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$32,174,228	N/A	N/A	\$8,411,148			
Subtotal	\$66,562,794	N/A	N/A	\$13,387,721			
<b>Total Benefits</b>	<b>\$66,562,794</b>	<b>\$15,340,239</b>	<b>\$15,340,239</b>	<b>\$31,796,007</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$1,562,804	\$1,562,804	\$1,562,804			
Advertising/Promotion/Customer Ed	N/A	\$232,464	\$232,464	\$232,464			
Participant Rebates and Incentives	N/A	\$4,976,572	\$4,976,572	\$4,976,572			
Equipment & Installation	N/A	\$26,495	\$26,495	\$26,495			
Measurement and Verification	N/A	\$257,144	\$257,144	\$257,144			
Subtotal	N/A	\$7,055,479	\$7,055,479	\$7,055,479			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$26,013,904	N/A			
Subtotal	N/A	N/A	\$26,013,904	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$15,973,398	N/A	N/A	\$14,119,367			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$15,973,398	N/A	N/A	\$14,119,367			
<b>Total Costs</b>	<b>\$15,973,398</b>	<b>\$7,055,479</b>	<b>\$33,069,383</b>	<b>\$21,174,846</b>			
<b>Net Benefit (Cost)</b>	<b>\$50,589,396</b>	<b>\$8,284,760</b>	<b>(\$17,729,144)</b>	<b>\$10,621,162</b>			
<b>Benefit/Cost Ratio</b>	<b>4.17</b>	<b>2.17</b>	<b>0.46</b>	<b>1.50</b>			

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

<b>LOW-INCOME PROGRAM TOTAL</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	15.62 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	97.4%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>68,697</b>
Commodity Cost Reduction	N/A	\$2,434,447	\$2,434,447	\$2,434,447	Utility Costs per Net Dth/Yr	E	\$54.76
Variable O&M Savings	N/A	\$33,713	\$33,713	\$33,713	Net Benefit (Cost) per Gross Dth/Yr	F	\$14.56
Demand Savings	N/A	\$228,773	\$228,773	\$228,773	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$19.63
Subtotal				\$2,696,933	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>18,261</b>
Non-Energy Benefits Adder (50%)				\$1,348,467	<b>Total Utility Budget</b>	( E x D )	<b>\$3,762,018</b>
Subtotal	N/A	\$2,696,933	\$2,696,933	\$4,045,400	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$1,000,050</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$348,417</b>
Bill Reduction - Gas	\$4,925,510	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$3,102,807	N/A	N/A	\$3,102,807	( E / A )		<b>\$3.51</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$3,270,674	N/A	N/A	\$1,335,307			
Subtotal	\$11,298,992	N/A	N/A	\$4,438,114			
<b>Total Benefits</b>	<b>\$11,298,992</b>	<b>\$2,696,933</b>	<b>\$2,696,933</b>	<b>\$8,483,514</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$397,000	\$397,000	\$397,000			
Advertising/Promotion/Customer Ed	N/A	\$125,000	\$125,000	\$125,000			
Participant Rebates and Incentives	N/A	\$3,102,807	\$3,102,807	\$3,102,807			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$137,210	\$137,210	\$137,210			
Subtotal	N/A	\$3,762,018	\$3,762,018	\$3,762,018			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$4,925,510	N/A			
Subtotal	N/A	N/A	\$4,925,510	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$3,721,446	N/A	N/A	\$3,721,446			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$3,721,446	N/A	N/A	\$3,721,446			
<b>Total Costs</b>	<b>\$3,721,446</b>	<b>\$3,762,018</b>	<b>\$8,687,528</b>	<b>\$7,483,464</b>			
<b>Net Benefit (Cost)</b>	<b>\$7,577,545</b>	<b>(\$1,065,084)</b>	<b>(\$5,990,594)</b>	<b>\$1,000,050</b>			
<b>Benefit/Cost Ratio</b>	<b>3.04</b>	<b>0.72</b>	<b>0.31</b>	<b>1.13</b>			

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

<b>COMMERCIAL REFRIGERATION EFFICIENCY</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	19.35 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>9,204</b>
Commodity Cost Reduction	N/A	\$387,640	\$387,640	\$387,640	Utility Costs per Net Dth/Yr	E	\$5.40
Variable O&M Savings	N/A	\$4,989	\$4,989	\$4,989	Net Benefit (Cost) per Gross Dth/Yr	F	\$42.63
Demand Savings	N/A	\$34,947	\$34,947	\$34,947	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$9.29
Subtotal				\$427,576	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>185,098</b>
Non-Energy Benefits Adder (20%)				\$85,515	<b>Total Utility Budget</b>	( E x D )	<b>\$49,726</b>
Subtotal	N/A	\$427,576	\$427,576	\$513,091	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$392,358</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$306,843</b>
Bill Reduction - Gas	\$677,223	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$38,353	N/A	N/A	\$38,353	( E / A )		<b>\$0.28</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$144,940	N/A	N/A	\$72,470			
Subtotal	\$860,517	N/A	N/A	\$110,823			
<b>Total Benefits</b>	<b>\$860,517</b>	<b>\$427,576</b>	<b>\$427,576</b>	<b>\$623,914</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$9,647	\$9,647	\$9,647			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$38,353	\$38,353	\$38,353			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$1,725	\$1,725	\$1,725			
Subtotal	N/A	\$49,726	\$49,726	\$49,726			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$677,223	N/A			
Subtotal	N/A	N/A	\$677,223	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$181,831	N/A	N/A	\$181,831			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$181,831	N/A	N/A	\$181,831			
<b>Total Costs</b>	<b>\$181,831</b>	<b>\$49,726</b>	<b>\$726,949</b>	<b>\$231,557</b>			
<b>Net Benefit (Cost)</b>	<b>\$678,686</b>	<b>\$377,850</b>	<b>(\$299,373)</b>	<b>\$392,358</b>			
<b>Benefit/Cost Ratio</b>	<b>4.73</b>	<b>8.60</b>	<b>0.59</b>	<b>2.69</b>			

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

<b>CUSTOM EFFICIENCY</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	20.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	87.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>28,620</b>
Commodity Cost Reduction	N/A	\$1,238,786	\$1,238,786	\$1,238,786	Utility Costs per Net Dth/Yr	E	\$3.03
Variable O&M Savings	N/A	\$15,837	\$15,837	\$15,837	Net Benefit (Cost) per Gross Dth/Yr	F	\$48.07
Demand Savings	N/A	\$110,929	\$110,929	\$110,929	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$9.54
Subtotal				\$1,365,551	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>330,138</b>
Non-Energy Benefits Adder (20%)				\$273,110	<b>Total Utility Budget</b>	( E x D )	<b>\$86,692</b>
Subtotal	N/A	\$1,365,551	\$1,365,551	\$1,638,662	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$1,375,744</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$1,102,634</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$2,487,585	N/A	N/A	N/A	( E / A )		<b>\$0.15</b>
Participant Rebates and Incentives	\$67,107	N/A	N/A	\$67,107			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$2,554,692	N/A	N/A	\$67,107			
<b>Total Benefits</b>	<b>\$2,554,692</b>	<b>\$1,365,551</b>	<b>\$1,365,551</b>	<b>\$1,705,769</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$18,663	\$18,663	\$18,663			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$67,107	\$67,107	\$67,107			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$922	\$922	\$922			
Subtotal	N/A	\$86,692	\$86,692	\$86,692			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$2,164,199	N/A			
Subtotal	N/A	N/A	\$2,164,199	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$279,693	N/A	N/A	\$243,333			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$279,693	N/A	N/A	\$243,333			
<b>Total Costs</b>	<b>\$279,693</b>	<b>\$86,692</b>	<b>\$2,250,891</b>	<b>\$330,025</b>			
<b>Net Benefit (Cost)</b>	<b>\$2,274,999</b>	<b>\$1,278,860</b>	<b>(\$885,340)</b>	<b>\$1,375,744</b>			
<b>Benefit/Cost Ratio</b>	<b>9.13</b>	<b>15.75</b>	<b>0.61</b>	<b>5.17</b>			

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

<b>ENERGY MANAGEMENT SYSTEMS</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	15.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	90.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>4,091</b>
Commodity Cost Reduction	N/A	\$142,911	\$142,911	\$142,911	Utility Costs per Net Dth/Yr	E	\$8.48
Variable O&M Savings	N/A	\$1,956	\$1,956	\$1,956	Net Benefit (Cost) per Gross Dth/Yr	F	\$14.86
Demand Savings	N/A	\$13,701	\$13,701	\$13,701	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$7.75
Subtotal				\$158,567	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>117,946</b>
Non-Energy Benefits Adder (20%)				\$31,713	<b>Total Utility Budget</b>	( E x D )	<b>\$34,683</b>
Subtotal	N/A	\$158,567	\$158,567	\$190,281	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$60,781</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$29,068</b>
Bill Reduction - Gas	\$277,409	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b> ( E / A ) <b>\$0.57</b>		
Participant Rebates and Incentives	\$30,181	N/A	N/A	\$30,181			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$136,669	N/A	N/A	\$61,501			
Subtotal	\$444,259	N/A	N/A	\$91,682			
<b>Total Benefits</b>	<b>\$444,259</b>	<b>\$158,567</b>	<b>\$158,567</b>	<b>\$281,963</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$4,502	\$4,502	\$4,502			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$30,181	\$30,181	\$30,181			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$34,683	\$34,683	\$34,683			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$249,668	N/A			
Subtotal	N/A	N/A	\$249,668	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$207,220	N/A	N/A	\$186,498			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$207,220	N/A	N/A	\$186,498			
<b>Total Costs</b>	<b>\$207,220</b>	<b>\$34,683</b>	<b>\$284,352</b>	<b>\$221,181</b>			
<b>Net Benefit (Cost)</b>	<b>\$237,039</b>	<b>\$123,884</b>	<b>(\$125,784)</b>	<b>\$60,781</b>			
<b>Benefit/Cost Ratio</b>	<b>2.14</b>	<b>4.57</b>	<b>0.56</b>	<b>1.27</b>			

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

<b>HEATING EFFICIENCY</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	18.08 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	86.01%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>26,987</b>
Commodity Cost Reduction	N/A	\$1,081,565	\$1,081,565	\$1,081,565	Utility Costs per Net Dth/Yr	E	\$31.99
Variable O&M Savings	N/A	\$14,154	\$14,154	\$14,154	Net Benefit (Cost) per Gross Dth/Yr	F	\$4.73
Demand Savings	N/A	\$99,139	\$99,139	\$99,139	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$8.86
Subtotal				\$1,194,858	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>31,264</b>
Non-Energy Benefits Adder (20%)				\$238,972	<b>Total Utility Budget</b>	( E x D )	<b>\$863,188</b>
Subtotal	N/A	\$1,194,858	\$1,194,858	\$1,433,829	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$127,713</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$111,258</b>
Bill Reduction - Gas	\$2,196,768	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$657,182	N/A	N/A	\$657,182	( E / A )		<b>\$1.77</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$2,853,950	N/A	N/A	\$657,182			
<b>Total Benefits</b>	<b>\$2,853,950</b>	<b>\$1,194,858</b>	<b>\$1,194,858</b>	<b>\$2,091,012</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$188,831	\$188,831	\$188,831			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$657,182	\$657,182	\$657,182			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$17,175	\$17,175	\$17,175			
Subtotal	N/A	\$863,188	\$863,188	\$863,188			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$1,889,526	N/A			
Subtotal	N/A	N/A	\$1,889,526	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$1,278,866	N/A	N/A	\$1,100,110			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$1,278,866	N/A	N/A	\$1,100,110			
<b>Total Costs</b>	<b>\$1,278,866</b>	<b>\$863,188</b>	<b>\$2,752,714</b>	<b>\$1,963,298</b>			
<b>Net Benefit (Cost)</b>	<b>\$1,575,085</b>	<b>\$331,670</b>	<b>(\$1,557,856)</b>	<b>\$127,713</b>			
<b>Benefit/Cost Ratio</b>	<b>2.23</b>	<b>1.38</b>	<b>0.43</b>	<b>1.07</b>			

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

<b>LIGHTING - SMALL BUSINESS</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	90.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>98</b>
Commodity Cost Reduction	N/A	\$2,439	\$2,439	\$2,439	Utility Costs per Net Dth/Yr	E	\$99.87
Variable O&M Savings	N/A	\$37	\$37	\$37	Net Benefit (Cost) per Gross Dth/Yr	F	\$70.65
Demand Savings	N/A	\$256	\$256	\$256	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$5.55
Subtotal				\$2,731	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>10,014</b>
Non-Energy Benefits Adder (20%)				\$546	<b>Total Utility Budget</b>	( E x D )	<b>\$9,833</b>
Subtotal	N/A	\$2,731	\$2,731	\$3,278	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$6,956</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$6,410</b>
Bill Reduction - Gas	\$4,736	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$418	N/A	N/A	\$418	( E / A )		<b>\$9.99</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$29,835	N/A	N/A	\$13,426			
Subtotal	\$34,989	N/A	N/A	\$13,844			
<b>Total Benefits</b>	<b>\$34,989</b>	<b>\$2,731</b>	<b>\$2,731</b>	<b>\$17,122</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$9,415	\$9,415	\$9,415			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$418	\$418	\$418			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$9,833	\$9,833	\$9,833			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$4,262	N/A			
Subtotal	N/A	N/A	\$4,262	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$370	N/A	N/A	\$333			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$370	N/A	N/A	\$333			
<b>Total Costs</b>	<b>\$370</b>	<b>\$9,833</b>	<b>\$14,095</b>	<b>\$10,166</b>			
<b>Net Benefit (Cost)</b>	<b>\$34,619</b>	<b>(\$7,101)</b>	<b>(\$11,363)</b>	<b>\$6,956</b>			
<b>Benefit/Cost Ratio</b>	<b>94.54</b>	<b>0.28</b>	<b>0.19</b>	<b>1.68</b>			

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

<b>MULTIFAMILY BUILDINGS</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.80 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>2,889</b>
Commodity Cost Reduction	N/A	\$76,126	\$76,126	\$76,126	Utility Costs per Net Dth/Yr	E	\$95.50
Variable O&M Savings	N/A	\$1,114	\$1,114	\$1,114	Net Benefit (Cost) per Gross Dth/Yr	F	\$111.01
Demand Savings	N/A	\$7,801	\$7,801	\$7,801	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$5.89
Subtotal				\$85,041	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>10,471</b>
Non-Energy Benefits Adder (20%)				\$17,008	<b>Total Utility Budget</b>	( E x D )	<b>\$275,944</b>
Subtotal	N/A	\$85,041	\$85,041	\$102,049	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$320,752</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$303,744</b>
Bill Reduction - Gas	\$154,022	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$247,288	N/A	N/A	\$247,288	( E / A )		<b>\$8.84</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$562,974	N/A	N/A	\$281,487			
Subtotal	\$964,283	N/A	N/A	\$528,775			
<b>Total Benefits</b>	<b>\$964,283</b>	<b>\$85,041</b>	<b>\$85,041</b>	<b>\$630,823</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$28,657	\$28,657	\$28,657			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$247,288	\$247,288	\$247,288			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$275,944	\$275,944	\$275,944			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$154,022	N/A			
Subtotal	N/A	N/A	\$154,022	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$34,127	N/A	N/A	\$34,127			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$34,127	N/A	N/A	\$34,127			
<b>Total Costs</b>	<b>\$34,127</b>	<b>\$275,944</b>	<b>\$429,966</b>	<b>\$310,071</b>			
<b>Net Benefit (Cost)</b>	<b>\$930,156</b>	<b>(\$190,904)</b>	<b>(\$344,925)</b>	<b>\$320,752</b>			
<b>Benefit/Cost Ratio</b>	<b>28.26</b>	<b>0.31</b>	<b>0.20</b>	<b>2.03</b>			

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

<b>NEW CONSTRUCTION</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	20.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	98.77%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>138,493</b>
Commodity Cost Reduction	N/A	\$5,994,448	\$5,994,448	\$5,994,448	Utility Costs per Net Dth/Yr	E	\$7.37
Variable O&M Savings	N/A	\$76,635	\$76,635	\$76,635	Net Benefit (Cost) per Gross Dth/Yr	F	\$130.42
Demand Savings	N/A	\$536,781	\$536,781	\$536,781	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$9.54
Subtotal				\$6,607,864	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>135,651</b>
Non-Energy Benefits Adder (20%)				\$1,321,573	<b>Total Utility Budget</b>	( E x D )	<b>\$1,020,953</b>
Subtotal	N/A	\$6,607,864	\$6,607,864	\$7,929,437	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$18,061,969</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$16,740,396</b>
Bill Reduction - Gas	\$10,603,027	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$625,430	N/A	N/A	\$625,430	( E / A )		<b>\$0.37</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$28,845,097	N/A	N/A	\$14,278,323			
Subtotal	\$40,073,555	N/A	N/A	\$14,903,753			
<b>Total Benefits</b>	<b>\$40,073,555</b>	<b>\$6,607,864</b>	<b>\$6,607,864</b>	<b>\$22,833,190</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$331,838	\$331,838	\$331,838			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$625,430	\$625,430	\$625,430			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$63,684	\$63,684	\$63,684			
Subtotal	N/A	\$1,020,953	\$1,020,953	\$1,020,953			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$10,472,498	N/A			
Subtotal	N/A	N/A	\$10,472,498	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$3,796,075	N/A	N/A	\$3,750,269			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$3,796,075	N/A	N/A	\$3,750,269			
<b>Total Costs</b>	<b>\$3,796,075</b>	<b>\$1,020,953</b>	<b>\$11,493,451</b>	<b>\$4,771,222</b>			
<b>Net Benefit (Cost)</b>	<b>\$36,277,480</b>	<b>\$5,586,912</b>	<b>(\$4,885,586)</b>	<b>\$18,061,969</b>			
<b>Benefit/Cost Ratio</b>	<b>10.56</b>	<b>6.47</b>	<b>0.57</b>	<b>4.79</b>			

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

<b>RECOMMISSIONING</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	6.02 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	90.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>896</b>
Commodity Cost Reduction	N/A	\$13,816	\$13,816	\$13,816	Utility Costs per Net Dth/Yr	E	\$20.08
Variable O&M Savings	N/A	\$226	\$226	\$226	Net Benefit (Cost) per Gross Dth/Yr	F	\$17.06
Demand Savings	N/A	\$1,585	\$1,585	\$1,585	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$3.49
Subtotal				\$15,627	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>49,798</b>
Non-Energy Benefits Adder (20%)				\$3,125	<b>Total Utility Budget</b>	( E x D )	<b>\$17,990</b>
Subtotal	N/A	\$15,627	\$15,627	\$18,752	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$15,287</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$12,162</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$26,839	N/A	N/A	N/A	( E / A )		<b>\$3.34</b>
Participant Rebates and Incentives	\$17,574	N/A	N/A	\$17,574			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$44,412	N/A	N/A	\$17,574			
<b>Total Benefits</b>	<b>\$44,412</b>	<b>\$15,627</b>	<b>\$15,627</b>	<b>\$36,326</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$416	\$416	\$416			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$17,574	\$17,574	\$17,574			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$17,990	\$17,990	\$17,990			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$24,155	N/A			
Subtotal	N/A	N/A	\$24,155	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$3,388	N/A	N/A	\$3,049			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$3,388	N/A	N/A	\$3,049			
<b>Total Costs</b>	<b>\$3,388</b>	<b>\$17,990</b>	<b>\$42,145</b>	<b>\$21,039</b>			
<b>Net Benefit (Cost)</b>	<b>\$41,025</b>	<b>(\$2,363)</b>	<b>(\$26,518)</b>	<b>\$15,287</b>			
<b>Benefit/Cost Ratio</b>	<b>13.11</b>	<b>0.87</b>	<b>0.37</b>	<b>1.73</b>			

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

<b>ENERGY EFFICIENT SHOWERHEAD</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	99.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	67.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>33,473</b>
Commodity Cost Reduction	N/A	\$829,227	\$829,227	\$829,227	Utility Costs per Net Dth/Yr	E	\$8.02
Variable O&M Savings	N/A	\$18,522	\$18,522	\$18,522	Net Benefit (Cost) per Gross Dth/Yr	F	\$132.29
Demand Savings	N/A	\$86,965	\$86,965	\$86,965	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$5.58
Subtotal				\$934,714	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>124,747</b>
Non-Energy Benefits Adder (20%)				\$186,943	<b>Total Utility Budget</b>	( E x D )	<b>\$268,330</b>
Subtotal	N/A	\$934,714	\$934,714	\$1,121,657	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$4,428,263</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$4,241,320</b>
Bill Reduction - Gas	\$1,463,625	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$134,828	N/A	N/A	\$134,828	( E / A )		<b>\$0.80</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$10,605,343	N/A	N/A	\$3,543,050			
Subtotal	\$12,203,796	N/A	N/A	\$3,677,877			
<b>Total Benefits</b>							
	\$12,203,796	\$934,714	\$934,714	\$4,799,535			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$133,502	\$133,502	\$133,502			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$134,828	\$134,828	\$134,828			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$268,330	\$268,330	\$268,330			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$1,448,989	N/A			
Subtotal	N/A	N/A	\$1,448,989	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$103,982	N/A	N/A	\$102,942			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$103,982	N/A	N/A	\$102,942			
<b>Total Costs</b>							
	\$103,982	\$268,330	\$1,717,319	\$371,272			
<b>Net Benefit (Cost)</b>							
	\$12,099,814	\$666,384	(\$782,604)	\$4,428,263			
<b>Benefit/Cost Ratio</b>							
	117.36	3.48	0.54	<b>12.93</b>			

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

<b>ENERGY FEEDBACK RESIDENTIAL</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	3.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>78,561</b>
Commodity Cost Reduction	N/A	\$606,626	\$606,626	\$606,626	Utility Costs per Net Dth/Yr	E	\$2.63
Variable O&M Savings	N/A	\$11,784	\$11,784	\$11,784	Net Benefit (Cost) per Gross Dth/Yr	F	\$8.08
Demand Savings	N/A	\$82,541	\$82,541	\$82,541	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$1.78
Subtotal				\$700,951	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>380,699</b>
Non-Energy Benefits Adder (20%)				\$140,190	<b>Total Utility Budget</b>	( E x D )	<b>\$206,359</b>
Subtotal	N/A	\$700,951	\$700,951	\$841,141	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$634,782</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$494,592</b>
Bill Reduction - Gas	\$1,227,360	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$0	N/A	N/A	\$0	( E / A )		<b>\$0.88</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$1,227,360	N/A	N/A	\$0			
<b>Total Benefits</b>	<b>\$1,227,360</b>	<b>\$700,951</b>	<b>\$700,951</b>	<b>\$841,141</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$206,359	\$206,359	\$206,359			
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	\$206,359	\$206,359	\$206,359			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$1,227,360	N/A			
Subtotal	N/A	N/A	\$1,227,360	N/A			
<b>Participant Costs</b>							
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			
<b>Total Costs</b>	<b>\$0</b>	<b>\$206,359</b>	<b>\$1,433,719</b>	<b>\$206,359</b>			
<b>Net Benefit (Cost)</b>	<b>\$1,227,360</b>	<b>\$494,592</b>	<b>(\$732,768)</b>	<b>\$634,782</b>			
<b>Benefit/Cost Ratio</b>	<b>INF</b>	<b>3.40</b>	<b>0.49</b>	<b>4.08</b>			

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

<b>ENERGY STAR NEW HOMES</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	19.94 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	92.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>80,409</b>
Commodity Cost Reduction	N/A	\$3,472,004	\$3,472,004	\$3,472,004	Utility Costs per Net Dth/Yr	E	\$27.24
Variable O&M Savings	N/A	\$44,412	\$44,412	\$44,412	Net Benefit (Cost) per Gross Dth/Yr	F	\$1.86
Demand Savings	N/A	\$311,078	\$311,078	\$311,078	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$9.52
Subtotal				\$3,827,493	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>36,715</b>
Non-Energy Benefits Adder (20%)				\$765,499	<b>Total Utility Budget</b>	( E x D )	<b>\$2,190,095</b>
Subtotal	N/A	\$3,827,493	\$3,827,493	\$4,592,992	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$149,257</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$616,242</b>
Bill Reduction - Gas	\$6,593,162	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$1,513,966	N/A	N/A	\$1,513,966	( E / A )		<b>\$1.37</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$22,554	N/A	N/A	\$10,375			
Subtotal	\$8,129,682	N/A	N/A	\$1,524,341			
<b>Total Benefits</b>	<b>\$8,129,682</b>	<b>\$3,827,493</b>	<b>\$3,827,493</b>	<b>\$6,117,333</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$446,075	\$446,075	\$446,075			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$1,513,966	\$1,513,966	\$1,513,966			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$230,055	\$230,055	\$230,055			
Subtotal	N/A	\$2,190,095	\$2,190,095	\$2,190,095			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$6,065,709	N/A			
Subtotal	N/A	N/A	\$6,065,709	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$4,106,501	N/A	N/A	\$3,777,981			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$4,106,501	N/A	N/A	\$3,777,981			
<b>Total Costs</b>	<b>\$4,106,501</b>	<b>\$2,190,095</b>	<b>\$8,255,805</b>	<b>\$5,968,076</b>			
<b>Net Benefit (Cost)</b>	<b>\$4,023,181</b>	<b>\$1,637,398</b>	<b>(\$4,428,311)</b>	<b>\$149,257</b>			
<b>Benefit/Cost Ratio</b>	<b>1.98</b>	<b>1.75</b>	<b>0.46</b>	<b>1.03</b>			

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

<b>HIGH EFFICIENCY AIR CONDITIONING</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	18.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	67.60%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>35,810</b>
Commodity Cost Reduction	N/A	\$1,466,947	\$1,466,947	\$1,466,947	Utility Costs per Net Dth/Yr	E	\$18.45
Variable O&M Savings	N/A	\$19,224	\$19,224	\$19,224	Net Benefit (Cost) per Gross Dth/Yr	F	\$49.12
Demand Savings	N/A	\$134,655	\$134,655	\$134,655	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$9.05
Subtotal				\$1,620,827	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>54,202</b>
Non-Energy Benefits Adder (20%)				\$324,165	<b>Total Utility Budget</b>	( E x D )	<b>\$660,686</b>
Subtotal	N/A	\$1,620,827	\$1,620,827	\$1,944,992	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$1,759,076</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$1,434,911</b>
Bill Reduction - Gas	\$3,791,135	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$660,686	N/A	N/A	\$660,686	( E / A )		<b>\$1.02</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$4,451,820	N/A	N/A	\$660,686			
<b>Total Benefits</b>	<b>\$4,451,820</b>	<b>\$1,620,827</b>	<b>\$1,620,827</b>	<b>\$2,605,678</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
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	\$660,686	\$660,686	\$660,686			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$660,686	\$660,686	\$660,686			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$2,562,807	N/A			
Subtotal	N/A	N/A	\$2,562,807	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$275,024	N/A	N/A	\$185,916			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$275,024	N/A	N/A	\$185,916			
<b>Total Costs</b>	<b>\$275,024</b>	<b>\$660,686</b>	<b>\$3,223,493</b>	<b>\$846,602</b>			
<b>Net Benefit (Cost)</b>	<b>\$4,176,797</b>	<b>\$960,141</b>	<b>(\$1,602,666)</b>	<b>\$1,759,076</b>			
<b>Benefit/Cost Ratio</b>	<b>16.19</b>	<b>2.45</b>	<b>0.50</b>	<b>3.08</b>			

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

<b>HOME ENERGY SQUAD</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>2,137</b>
Commodity Cost Reduction	N/A	\$53,109	\$53,109	\$53,109	Utility Costs per Net Dth/Yr	E	\$84.73
Variable O&M Savings	N/A	\$792	\$792	\$792	Net Benefit (Cost) per Gross Dth/Yr	F	(\$7.96)
Demand Savings	N/A	\$5,549	\$5,549	\$5,549	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$5.56
Subtotal				\$59,450	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>11,802</b>
Non-Energy Benefits Adder (20%)				\$11,890	<b>Total Utility Budget</b>	( E x D )	<b>\$181,033</b>
Subtotal	N/A	\$59,450	\$59,450	\$71,340	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$16,999</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$28,889</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$107,453	N/A	N/A	N/A	( E / A )		<b>\$8.48</b>
Participant Rebates and Incentives	\$5,568	N/A	N/A	\$5,568			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$199,958	N/A	N/A	\$99,979			
Subtotal	\$312,979	N/A	N/A	\$105,547			
<b>Total Benefits</b>	<b>\$312,979</b>	<b>\$59,450</b>	<b>\$59,450</b>	<b>\$176,887</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$59,049	\$59,049	\$59,049			
Advertising/Promotion/Customer Ed	N/A	\$89,922	\$89,922	\$89,922			
Participant Rebates and Incentives	N/A	\$5,568	\$5,568	\$5,568			
Equipment & Installation	N/A	\$26,495	\$26,495	\$26,495			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$181,033	\$181,033	\$181,033			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$107,453	N/A			
Subtotal	N/A	N/A	\$107,453	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$12,854	N/A	N/A	\$12,854			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$12,854	N/A	N/A	\$12,854			
<b>Total Costs</b>	<b>\$12,854</b>	<b>\$181,033</b>	<b>\$288,485</b>	<b>\$193,886</b>			
<b>Net Benefit (Cost)</b>	<b>\$300,125</b>	<b>(\$121,582)</b>	<b>(\$229,035)</b>	<b>(\$16,999)</b>			
<b>Benefit/Cost Ratio</b>	<b>24.35</b>	<b>0.33</b>	<b>0.21</b>	<b>0.91</b>			

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

<b>HOME PERFORMANCE WITH ENERGY STAR</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	16.80 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	115.95%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>5,201</b>
Commodity Cost Reduction	N/A	\$195,038	\$195,038	\$195,038	Utility Costs per Net Dth/Yr	E	\$22.58
Variable O&M Savings	N/A	\$2,575	\$2,575	\$2,575	Net Benefit (Cost) per Gross Dth/Yr	F	(\$10.83)
Demand Savings	N/A	\$18,035	\$18,035	\$18,035	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$8.29
Subtotal				\$215,648	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>44,284</b>
Non-Energy Benefits Adder (20%)				\$43,130	<b>Total Utility Budget</b>	( E x D )	<b>\$117,448</b>
Subtotal	N/A	\$215,648	\$215,648	\$258,778	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$56,348</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$99,478</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$340,341	N/A	N/A	N/A	( E / A )		<b>\$1.34</b>
Participant Rebates and Incentives	\$55,282	N/A	N/A	\$55,282			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$395,623	N/A	N/A	\$55,282			
<b>Total Benefits</b>	<b>\$395,623</b>	<b>\$215,648</b>	<b>\$215,648</b>	<b>\$314,060</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$52,801	\$52,801	\$52,801			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$55,282	\$55,282	\$55,282			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$9,365	\$9,365	\$9,365			
Subtotal	N/A	\$117,448	\$117,448	\$117,448			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$394,612	N/A			
Subtotal	N/A	N/A	\$394,612	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$218,104	N/A	N/A	\$252,960			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$218,104	N/A	N/A	\$252,960			
<b>Total Costs</b>	<b>\$218,104</b>	<b>\$117,448</b>	<b>\$512,059</b>	<b>\$370,408</b>			
<b>Net Benefit (Cost)</b>	<b>\$177,519</b>	<b>\$98,200</b>	<b>(\$296,412)</b>	<b>(\$56,348)</b>			
<b>Benefit/Cost Ratio</b>	<b>1.81</b>	<b>1.84</b>	<b>0.42</b>	<b>0.85</b>			

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

<b>INSULATION &amp; AIR SEALING</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	15.34 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	85.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>32,506</b>
Commodity Cost Reduction	N/A	\$1,130,591	\$1,130,591	\$1,130,591	Utility Costs per Net Dth/Yr	E	\$17.81
Variable O&M Savings	N/A	\$15,223	\$15,223	\$15,223	Net Benefit (Cost) per Gross Dth/Yr	F	(\$9.02)
Demand Savings	N/A	\$106,631	\$106,631	\$106,631	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$7.71
Subtotal				\$1,252,445	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>56,153</b>
Non-Energy Benefits Adder (20%)				\$250,489	<b>Total Utility Budget</b>	( E x D )	<b>\$578,886</b>
Subtotal	N/A	\$1,252,445	\$1,252,445	\$1,502,934	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$293,101</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$543,590</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$2,691,146	N/A	N/A	N/A	( E / A )		<b>\$1.16</b>
Participant Rebates and Incentives	\$522,413	N/A	N/A	\$522,413			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$3,213,559	N/A	N/A	\$522,413			
<b>Total Benefits</b>	<b>\$3,213,559</b>	<b>\$1,252,445</b>	<b>\$1,252,445</b>	<b>\$2,025,347</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$54,473	\$54,473	\$54,473			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$522,413	\$522,413	\$522,413			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$2,000	\$2,000	\$2,000			
Subtotal	N/A	\$578,886	\$578,886	\$578,886			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$2,287,474	N/A			
Subtotal	N/A	N/A	\$2,287,474	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$2,046,543	N/A	N/A	\$1,739,562			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$2,046,543	N/A	N/A	\$1,739,562			
<b>Total Costs</b>	<b>\$2,046,543</b>	<b>\$578,886</b>	<b>\$2,866,360</b>	<b>\$2,318,448</b>			
<b>Net Benefit (Cost)</b>	<b>\$1,167,016</b>	<b>\$673,559</b>	<b>(\$1,613,915)</b>	<b>(\$293,101)</b>			
<b>Benefit/Cost Ratio</b>	<b>1.57</b>	<b>2.16</b>	<b>0.44</b>	<b>0.87</b>			

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

<b>RESIDENTIAL HEATING</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	18.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	86.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>91,321</b>
Commodity Cost Reduction	N/A	\$3,681,337	\$3,681,337	\$3,681,337	Utility Costs per Net Dth/Yr	E	\$18.60
Variable O&M Savings	N/A	\$48,074	\$48,074	\$48,074	Net Benefit (Cost) per Gross Dth/Yr	F	(\$20.83)
Demand Savings	N/A	\$336,726	\$336,726	\$336,726	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$8.91
Subtotal				\$4,066,137	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>53,774</b>
Non-Energy Benefits Adder (20%)				\$813,227	<b>Total Utility Budget</b>	( E x D )	<b>\$1,698,232</b>
Subtotal	N/A	\$4,066,137	\$4,066,137	\$4,879,364	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$1,902,023</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$2,715,250</b>
Bill Reduction - Gas	\$8,660,798	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$1,610,100	N/A	N/A	\$1,610,100	( E / A )		<b>\$1.03</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$10,270,898	N/A	N/A	\$1,610,100			
<b>Total Benefits</b>	<b>\$10,270,898</b>	<b>\$4,066,137</b>	<b>\$4,066,137</b>	<b>\$6,489,464</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$76,482	\$76,482	\$76,482			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$1,610,100	\$1,610,100	\$1,610,100			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$11,650	\$11,650	\$11,650			
Subtotal	N/A	\$1,698,232	\$1,698,232	\$1,698,232			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$7,448,287	N/A			
Subtotal	N/A	N/A	\$7,448,287	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$7,782,854	N/A	N/A	\$6,693,255			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$7,782,854	N/A	N/A	\$6,693,255			
<b>Total Costs</b>	<b>\$7,782,854</b>	<b>\$1,698,232</b>	<b>\$9,146,519</b>	<b>\$8,391,487</b>			
<b>Net Benefit (Cost)</b>	<b>\$2,488,044</b>	<b>\$2,367,904</b>	<b>(\$5,080,382)</b>	<b>(\$1,902,023)</b>			
<b>Benefit/Cost Ratio</b>	<b>1.32</b>	<b>2.39</b>	<b>0.44</b>	<b>0.77</b>			

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

<b>SCHOOL EDUCATION KITS</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	18.8%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>52,059</b>
Commodity Cost Reduction	N/A	\$1,294,489	\$1,294,489	\$1,294,489	Utility Costs per Net Dth/Yr	E	\$12.54
Variable O&M Savings	N/A	\$102,592	\$102,592	\$102,592	Net Benefit (Cost) per Gross Dth/Yr	F	\$114.52
Demand Savings	N/A	\$135,252	\$135,252	\$135,252	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$5.89
Subtotal				\$1,532,333	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>79,744</b>
Non-Energy Benefits Adder (20%)				\$306,467	<b>Total Utility Budget</b>	( E x D )	<b>\$652,834</b>
Subtotal	N/A	\$1,532,333	\$1,532,333	\$1,838,800	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$5,961,855</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$5,655,388</b>
Bill Reduction - Gas	\$2,619,082	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b>		
Participant Rebates and Incentives	\$213,700	N/A	N/A	\$213,700	( E / A )		<b>\$1.25</b>
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$21,346,372	N/A	N/A	\$4,757,745			
Subtotal	\$24,179,154	N/A	N/A	\$4,971,445			
<b>Total Benefits</b>	<b>\$24,179,154</b>	<b>\$1,532,333</b>	<b>\$1,532,333</b>	<b>\$6,810,245</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$438,323	\$438,323	\$438,323			
Advertising/Promotion/Customer Ed	N/A	\$811	\$811	\$811			
Participant Rebates and Incentives	N/A	\$213,700	\$213,700	\$213,700			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$652,834	\$652,834	\$652,834			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$2,619,082	N/A			
Subtotal	N/A	N/A	\$2,619,082	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$195,556	N/A	N/A	\$195,556			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$195,556	N/A	N/A	\$195,556			
<b>Total Costs</b>	<b>\$195,556</b>	<b>\$652,834</b>	<b>\$3,271,916</b>	<b>\$848,390</b>			
<b>Net Benefit (Cost)</b>	<b>\$23,983,598</b>	<b>\$879,499</b>	<b>(\$1,739,583)</b>	<b>\$5,961,855</b>			
<b>Benefit/Cost Ratio</b>	<b>123.64</b>	<b>2.35</b>	<b>0.47</b>	<b>8.03</b>			

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

<b>THERMOSTAT OPTIMIZATION</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>29,114</b>
Commodity Cost Reduction	N/A	\$721,242	\$721,242	\$721,242	Utility Costs per Net Dth/Yr	E	\$7.77
Variable O&M Savings	N/A	\$10,799	\$10,799	\$10,799	Net Benefit (Cost) per Gross Dth/Yr	F	\$14.27
Demand Savings	N/A	\$75,640	\$75,640	\$75,640	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$5.55
Subtotal				\$807,681	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>128,715</b>
Non-Energy Benefits Adder (20%)				\$161,536	<b>Total Utility Budget</b>	( E x D )	<b>\$226,193</b>
Subtotal	N/A	\$807,681	\$807,681	\$969,217	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$415,528</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$253,992</b>
Bill Reduction - Gas	\$1,260,296	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b> ( E / A ) <b>\$0.78</b>		
Participant Rebates and Incentives	\$168,095	N/A	N/A	\$168,095			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$1,428,391	N/A	N/A	\$168,095			
<b>Total Benefits</b>	<b>\$1,428,391</b>	<b>\$807,681</b>	<b>\$807,681</b>	<b>\$1,137,313</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$58,098	\$58,098	\$58,098			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$168,095	\$168,095	\$168,095			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$0	\$0	\$0			
Subtotal	N/A	\$226,193	\$226,193	\$226,193			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$1,260,296	N/A			
Subtotal	N/A	N/A	\$1,260,296	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$495,592	N/A	N/A	\$495,592			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$495,592	N/A	N/A	\$495,592			
<b>Total Costs</b>	<b>\$495,592</b>	<b>\$226,193</b>	<b>\$1,486,489</b>	<b>\$721,785</b>			
<b>Net Benefit (Cost)</b>	<b>\$932,799</b>	<b>\$581,488</b>	<b>(\$678,808)</b>	<b>\$415,528</b>			
<b>Benefit/Cost Ratio</b>	<b>2.88</b>	<b>3.57</b>	<b>0.54</b>	<b>1.58</b>			

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

<b>WATER HEATING</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	19.36 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	90.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>6,912</b>
Commodity Cost Reduction	N/A	\$292,517	\$292,517	\$292,517	Utility Costs per Net Dth/Yr	E	\$17.15
Variable O&M Savings	N/A	\$3,753	\$3,753	\$3,753	Net Benefit (Cost) per Gross Dth/Yr	F	(\$43.73)
Demand Savings	N/A	\$26,289	\$26,289	\$26,289	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$9.33
Subtotal				\$322,559	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>58,311</b>
Non-Energy Benefits Adder (20%)				\$64,512	<b>Total Utility Budget</b>	( E x D )	<b>\$118,544</b>
Subtotal	N/A	\$322,559	\$322,559	\$387,071	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$302,288</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$366,800</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$657,597	N/A	N/A	N/A	( E / A )		<b>\$0.89</b>
Participant Rebates and Incentives	\$91,935	N/A	N/A	\$91,935			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$749,531	N/A	N/A	\$91,935			
<b>Total Benefits</b>	<b>\$749,531</b>	<b>\$322,559</b>	<b>\$322,559</b>	<b>\$479,006</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$22,534	\$22,534	\$22,534			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$91,935	\$91,935	\$91,935			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$4,075	\$4,075	\$4,075			
Subtotal	N/A	\$118,544	\$118,544	\$118,544			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$591,837	N/A			
Subtotal	N/A	N/A	\$591,837	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$736,389	N/A	N/A	\$662,750			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$736,389	N/A	N/A	\$662,750			
<b>Total Costs</b>	<b>\$736,389</b>	<b>\$118,544</b>	<b>\$710,381</b>	<b>\$781,294</b>			
<b>Net Benefit (Cost)</b>	<b>\$13,143</b>	<b>\$204,015</b>	<b>(\$387,822)</b>	<b>(\$302,288)</b>			
<b>Benefit/Cost Ratio</b>	<b>1.02</b>	<b>2.72</b>	<b>0.45</b>	<b>0.61</b>			

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

<b>ENERGY SAVINGS KIT</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	10.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	74.9%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>8,479</b>
Commodity Cost Reduction	N/A	\$210,830	\$210,830	\$210,830	Utility Costs per Net Dth/Yr	E	\$8.81
Variable O&M Savings	N/A	\$4,196	\$4,196	\$4,196	Net Benefit (Cost) per Gross Dth/Yr	F	\$139.21
Demand Savings	N/A	\$22,028	\$22,028	\$22,028	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$13.98
Subtotal				\$237,055	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>113,547</b>
Non-Energy Benefits Adder (50%)				\$118,527	<b>Total Utility Budget</b>	( E x D )	<b>\$74,672</b>
Subtotal	N/A	\$237,055	\$237,055	\$355,582	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$1,180,368</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>\$1,061,840</b>
Bill Reduction - Gas	\$426,564	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b> ( E / A ) <b>\$0.88</b>		
Participant Rebates and Incentives	\$24,309	N/A	N/A	\$24,309			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$2,398,573	N/A	N/A	\$899,256			
Subtotal	\$2,849,446	N/A	N/A	\$923,565			
<b>Total Benefits</b>	<b>\$2,849,446</b>	<b>\$237,055</b>	<b>\$237,055</b>	<b>\$1,279,147</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$48,563	\$48,563	\$48,563			
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0			
Participant Rebates and Incentives	N/A	\$24,309	\$24,309	\$24,309			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$1,800	\$1,800	\$1,800			
Subtotal	N/A	\$74,672	\$74,672	\$74,672			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$426,564	N/A			
Subtotal	N/A	N/A	\$426,564	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$24,107	N/A	N/A	\$24,107			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$24,107	N/A	N/A	\$24,107			
<b>Total Costs</b>	<b>\$24,107</b>	<b>\$74,672</b>	<b>\$501,236</b>	<b>\$98,779</b>			
<b>Net Benefit (Cost)</b>	<b>\$2,825,338</b>	<b>\$162,383</b>	<b>(\$264,181)</b>	<b>\$1,180,368</b>			
<b>Benefit/Cost Ratio</b>	<b>118.20</b>	<b>3.17</b>	<b>0.47</b>	<b>12.95</b>			

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

<b>MULTIFAMILY WEATHERIZATION</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	14.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>Test</b>	<b>Test</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
			<b>(\$Total)</b>	<b>(\$Total)</b>	Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>6,324</b>
Commodity Cost Reduction	N/A	\$209,750	\$209,750	\$209,750	Utility Costs per Net Dth/Yr	E	\$84.58
Variable O&M Savings	N/A	\$2,907	\$2,907	\$2,907	Net Benefit (Cost) per Gross Dth/Yr	F	\$12.56
Demand Savings	N/A	\$20,359	\$20,359	\$20,359	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$18.42
Subtotal				\$233,016	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>11,823</b>
Non-Energy Benefits Adder (50%)				\$116,508	<b>Total Utility Budget</b>	( E x D )	<b>\$534,880</b>
Subtotal	N/A	\$233,016	\$233,016	\$349,524	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>\$79,458</b>
<b>Other Benefits</b>					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$37,050</b>
Bill Reduction - Gas	\$424,379	N/A	N/A	N/A	<b>Utility Program Cost per Net Dth Lifetime</b> ( E / A ) <b>\$6.04</b>		
Participant Rebates and Incentives	\$408,677	N/A	N/A	\$408,677			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$507,869	N/A	N/A	\$253,934			
Subtotal	\$1,340,925	N/A	N/A	\$662,611			
<b>Total Benefits</b>	<b>\$1,340,925</b>	<b>\$233,016</b>	<b>\$233,016</b>	<b>\$1,012,136</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$93,273	\$93,273	\$93,273			
Advertising/Promotion/Customer Ed	N/A	\$20,000	\$20,000	\$20,000			
Participant Rebates and Incentives	N/A	\$408,677	\$408,677	\$408,677			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$12,931	\$12,931	\$12,931			
Subtotal	N/A	\$534,880	\$534,880	\$534,880			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$424,379	N/A			
Subtotal	N/A	N/A	\$424,379	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$397,797	N/A	N/A	\$397,797			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$397,797	N/A	N/A	\$397,797			
<b>Total Costs</b>	<b>\$397,797</b>	<b>\$534,880</b>	<b>\$959,259</b>	<b>\$932,677</b>			
<b>Net Benefit (Cost)</b>	<b>\$943,128</b>	<b>(\$301,864)</b>	<b>(\$726,243)</b>	<b>\$79,458</b>			
<b>Benefit/Cost Ratio</b>	<b>3.37</b>	<b>0.44</b>	<b>0.24</b>	<b>1.09</b>			

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

<b>NON-PROFIT</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	17.00 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>4,772</b>
Commodity Cost Reduction	N/A	\$184,375	\$184,375	\$184,375	Utility Costs per Net Dth/Yr	E	\$96.05
Variable O&M Savings	N/A	\$2,440	\$2,440	\$2,440	Net Benefit (Cost) per Gross Dth/Yr	F	(\$24.80)
Demand Savings	N/A	\$17,094	\$17,094	\$17,094	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$21.37
Subtotal				\$203,909	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>10,411</b>
Non-Energy Benefits Adder (50%)				\$101,955	<b>Total Utility Budget</b>	( E x D )	<b>\$458,304</b>
Subtotal	N/A	\$203,909	\$203,909	\$305,864	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$118,336</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$220,290</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$373,038	N/A	N/A	N/A	( E / A )		<b>\$5.65</b>
Participant Rebates and Incentives	\$357,615	N/A	N/A	\$357,615			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$4,865	N/A	N/A	\$2,433			
Subtotal	\$735,518	N/A	N/A	\$360,047			
<b>Total Benefits</b>	<b>\$735,518</b>	<b>\$203,909</b>	<b>\$203,909</b>	<b>\$665,911</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$70,722	\$70,722	\$70,722			
Advertising/Promotion/Customer Ed	N/A	\$20,000	\$20,000	\$20,000			
Participant Rebates and Incentives	N/A	\$357,615	\$357,615	\$357,615			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$9,968	\$9,968	\$9,968			
Subtotal	N/A	\$458,304	\$458,304	\$458,304			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$373,038	N/A			
Subtotal	N/A	N/A	\$373,038	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$325,943	N/A	N/A	\$325,943			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$325,943	N/A	N/A	\$325,943			
<b>Total Costs</b>	<b>\$325,943</b>	<b>\$458,304</b>	<b>\$831,342</b>	<b>\$784,247</b>			
<b>Net Benefit (Cost)</b>	<b>\$409,575</b>	<b>(\$254,395)</b>	<b>(\$627,433)</b>	<b>(\$118,336)</b>			
<b>Benefit/Cost Ratio</b>	<b>2.26</b>	<b>0.44</b>	<b>0.25</b>	<b>0.85</b>			

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

<b>SINGLE-FAMILY WEATHERIZATION</b>					<b>2020</b>	<b>GAS</b>	<b>ACTUAL</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 Assumptions:</b>		
	<b>Test</b>	<b>Test</b>	<b>Impact</b>	<b>TRC</b>	Lifetime (Weighted on Dth)	A	16.66 years
	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	<b>(\$Total)</b>	Net-to-Gross (Weighted on Dth)	B	100.00%
					Install Rate (Weighted on Dth)	C	100.0%
<b>Benefits</b>					<b>Program Totals:</b>		
<b>Avoided Revenue Requirements</b>					<b>Total Dth/Yr Saved</b>	D	<b>49,123</b>
Commodity Cost Reduction	N/A	\$1,829,492	\$1,829,492	\$1,829,492	Utility Costs per Net Dth/Yr	E	\$54.85
Variable O&M Savings	N/A	\$24,169	\$24,169	\$24,169	Net Benefit (Cost) per Gross Dth/Yr	F	(\$2.88)
Demand Savings	N/A	\$169,292	\$169,292	\$169,292	Non-Energy Benefits Adder per Gross Dth/Yr	G	\$20.59
Subtotal				\$2,022,953	<b>Annual Dth/\$M</b>	(\$1M / E)	<b>18,233</b>
Non-Energy Benefits Adder (50%)				\$1,011,477	<b>Total Utility Budget</b>	( E x D )	<b>\$2,694,161</b>
Subtotal	N/A	\$2,022,953	\$2,022,953	\$3,034,430	<b>Total MTRC Net Benefits with Adder</b>	( D x F )	<b>-\$141,441</b>
					<b>Total MTRC Net Benefits without Adder</b>	( F - G ) x D	<b>-\$1,152,917</b>
<b>Other Benefits</b>					<b>Utility Program Cost per Net Dth Lifetime</b>		
Bill Reduction - Gas	\$3,701,530	N/A	N/A	N/A	( E / A )		<b>\$3.29</b>
Participant Rebates and Incentives	\$2,312,207	N/A	N/A	\$2,312,207			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$359,367	N/A	N/A	\$179,684			
Subtotal	\$6,373,104	N/A	N/A	\$2,491,891			
<b>Total Benefits</b>	<b>\$6,373,104</b>	<b>\$2,022,953</b>	<b>\$2,022,953</b>	<b>\$5,526,320</b>			
<b>Costs</b>							
<b>Utility Project Costs</b>							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$184,442	\$184,442	\$184,442			
Advertising/Promotion/Customer Ed	N/A	\$85,000	\$85,000	\$85,000			
Participant Rebates and Incentives	N/A	\$2,312,207	\$2,312,207	\$2,312,207			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$112,512	\$112,512	\$112,512			
Subtotal	N/A	\$2,694,161	\$2,694,161	\$2,694,161			
<b>Utility Revenue Reduction</b>							
Revenue Reduction - Gas	N/A	N/A	\$3,701,530	N/A			
Subtotal	N/A	N/A	\$3,701,530	N/A			
<b>Participant Costs</b>							
Incremental Capital Costs	\$2,973,600	N/A	N/A	\$2,973,600			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$2,973,600	N/A	N/A	\$2,973,600			
<b>Total Costs</b>	<b>\$2,973,600</b>	<b>\$2,694,161</b>	<b>\$6,395,691</b>	<b>\$5,667,761</b>			
<b>Net Benefit (Cost)</b>	<b>\$3,399,504</b>	<b>(\$671,208)</b>	<b>(\$4,372,738)</b>	<b>(\$141,441)</b>			
<b>Benefit/Cost Ratio</b>	<b>2.14</b>	<b>0.75</b>	<b>0.32</b>	<b>0.98</b>			

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

## **Confidential Appendix C: ISOC Product Cost and Benefit Summary**

The following section summarizes both the cost and benefits of the ISOC product for 2020 in terms of capacity and energy.

**2020 ISOC Product Cost and Benefit Summary**

<b>Avoided Capacity Benefit</b>													<b>Total kW at transmission</b>	<b>Capacity Savings Rate/kw-</b>	<b>Total Capacity Savings</b>	
Contract Interruptible: Within 10-minute Notice Capacity - Grandfathered														\$191.64		
Contract Interruptible: Within 10-minute Notice Capacity - New														\$135.24		
<b>Total Avoided Capacity Benefit</b>															\$35,728,211.76	
<b>Economic Interruptions</b>																
	<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>Total</b>			
Interruption Energy Savings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Buy Through Energy Savings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Capacity/Contingency Interruptions</b>																
	<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>Total</b>			
Energy Savings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95,167.42	\$ 124,271.37	\$ 435,589.28	\$ -	\$ -	\$ -	\$ -	\$ 655,028.07			
<b>Total Energy Savings</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95,167.42	\$ 124,271.37	\$ 435,589.28	\$ -	\$ -	\$ -	\$ -	\$ 655,028.07			
<b>Total ISOC Benefits</b>															\$36,383,239.83	
<b>Total ISOC Costs</b>															\$ (23,810,391.11)	
<b>Total Admin Costs</b>																
<b>Total Customer Credits</b>																
<b>Total Product Net Benefit</b>															\$12,572,848.72	

