HIGH EFFICIENCY AIR CONDITIONING 2019 Net Present Cost Benefit Summary Analysis For All Participants							
2019 Net Flesent Cost Benefit Summary Anal	ary Analysis For All Participants Rate Modified						
	Participant	Utility	Impact	TRC Test (\$Total)			
	Test	Test (\$Total)	Test (\$Total)				
	(\$Total)						
Benefits	(\$10tm)	(\$10.00)	(\$15.00)	(\$1000)			
Avoided Revenue Requirements							
Generation Capacity	N/A	\$1,914,134	\$1,914,134	\$1,914,134			
Trans. & Dist. Capacity	N/A	\$239,714	\$239,714	\$239,714			
Marginal Energy	N/A	\$643,950	\$643,950	\$643,950			
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0			
Subtotal				\$2,797,797			
Non-Energy Benefits Adder (20%)				\$559,559			
Subtotal	N/A	\$2,797,797	\$2,797,797	\$3,357,357			
Other Benefits							
Bill Reduction - Electric	\$3,867,844	N/A	N/A	N/A			
Participant Rebates and Incentives	\$1,290,887	N/A	N/A	\$1,290,887			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$5,158,731	N/A	N/A	\$1,290,887			
Total Benefits	\$5,158,731	\$2,797,797	\$2,797,797	\$4,648,244			
Utility Project Costs							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$330,525	\$330,525	\$330,525			
Advertising/Promotion/Customer Ed	N/A	\$55,000	\$55,000	\$55,000			
Participant Rebates and Incentives	N/A	\$1,290,887	\$1,290,887	\$1,290,887			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$48,000	\$48,000	\$48,000			
Subtotal	N/A	\$1,724,412	\$1,724,412	\$1,724,412			
Utility Revenue Reduction							
Revenue Reduction - Electric	N/A	N/A	\$2,735,989	N/A			
Subtotal	N/A	N/A	\$2,735,989	N/A			
Participant Costs							
Incremental Capital Costs	\$2,449,601	N/A	N/A	\$1,851,461			
Incremental O&M Costs	\$0	N/A	N/A	\$0			
Subtotal	\$2,449,601	N/A	N/A	\$1,851,461			
Total Costs	\$2,449,601	\$1,724,412	\$4,460,401	\$3,575,873			
Net Benefit (Cost)	\$2,709,131	\$1,073,385	(\$1,662,603)	\$1,072,371			
Benefit/Cost Ratio	2.11	1.62	0.63	1.30			

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

2019 ELEC	CTRIC	GOAL
Input Summary and Totals		
Program Inputs per Customer kW		
Lifetime (Weighted on Generator kWh)	A	18 years
Annual Hours	В	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	89.61%
Gross Load Factor at Customer	E	11.00%
Net-to-Gross (Energy)	F	71.7%
Net-to-Gross (Demand)	G	75.8%
Transmission Loss Factor (Energy)	Н	6.380%
Transmission Loss Factor (Demand)	I	9.129%
Installation Rate (Energy)	J	100.0%
Installation Rate (Demand)	K	100.0%
MTRC Net Benefit (Cost)	L	\$441
MTRC Non-Energy Benefit Adder	M	\$230
Gross Annual kWh Saved at Customer	(BxExC)	964 kWh
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	691 kWh
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	738 kWh
Program Summary All Participants		
Total Budget	N	\$1,724,412
Net coincident kW Saved at Generator	(G x O x K) x D / (1-I)	1,819 kW
Net Annual kWh Saved at Customer	(Fx(BxExOxJ)	1,681,037 kWh
Net Annual kWh Saved at Generator	(Fx(B xE xO xJ))/(1-H)	1,795,587 kWh
TRC Net Benefits with Adder	(OxL)	\$1,072,371
TRC Net Benefits without Adder	(Ox(L-M))	\$512,812

\$0.0533

\$948

Utility Program Cost per kWh Lifetime

Utility Program Cost per kW at Gen

HIGH EFFICIENCY AIR CONDITIONING 2020 Net Present Cost Benefit Summary Analysis For All Participants						
2020 I tet I resent cost Denent Summary Aliai	yoio 1 or Air 1 articipant	•	Rate	Modified		
	Participant	Utility	Impact	TRC		
	Test	Test	Test	Test		
	(\$Total)	(\$Total)	(\$Total)	(\$Total)		
Benefits	(+)	(+ 2 3)	(+	(+1 =)		
Avoided Revenue Requirements						
Generation Capacity	N/A	\$2,901,161	\$2,901,161	\$2,901,161		
Trans. & Dist. Capacity	N/A	\$363,335	\$363,335	\$363,335		
Marginal Energy	N/A	\$970,690	\$970,690	\$970,690		
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
Subtotal				\$4,235,186		
Non-Energy Benefits Adder (20%)				\$847,037		
Subtotal	N/A	\$4,235,186	\$4,235,186	\$5,082,224		
Other Benefits						
Bill Reduction - Electric	\$5,603,060	N/A	N/A	N/A		
Participant Rebates and Incentives	\$1,855,827	N/A	N/A	\$1,855,827		
Incremental Capital Savings	\$0	N/A	N/A	\$0		
Incremental O&M Savings	\$0	N/A	N/A	\$0		
Subtotal	\$7,458,888	N/A	N/A	\$1,855,827		
Total Benefits	\$7,458,888	\$4,235,186	\$4,235,186	\$6,938,051		
Utility Project Costs						
Program Planning & Design	N/A	\$0	\$0	\$0		
Administration & Program Delivery	N/A	\$430,963	\$430,963	\$430,963		
Advertising/Promotion/Customer Ed	N/A	\$45,000	\$45,000	\$45,000		
Participant Rebates and Incentives	N/A	\$1,855,827	\$1,855,827	\$1,855,827		
Equipment & Installation	N/A	\$0	\$0	\$0		
Measurement and Verification	N/A	\$55,000	\$55,000	\$55,000		
Subtotal	N/A	\$2,386,790	\$2,386,790	\$2,386,790		
Utility Revenue Reduction						
Revenue Reduction - Electric	N/A	N/A	\$3,986,627	N/A		
Subtotal	N/A	N/A	\$3,986,627	N/A		
Participant Costs						
Incremental Capital Costs	\$3,630,552	N/A	N/A	\$2,776,809		
Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$3,630,552	N/A	N/A	\$2,776,809		
Total Costs	\$3,630,552	\$2,386,790	\$6,373,417	\$5,163,600		
Net Benefit (Cost)	\$3,828,336	\$1,848,396	(\$2,138,230)	\$1,774,451		
Benefit/Cost Ratio	2.05	1.77	0.66	1.34		

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

2020 ELECTRIC		GOAL	
nput Summary and Totals			
Program Inputs per Customer kW			
Lifetime (Weighted on Generator kWh)	A	18 years	
Annual Hours	В	8760	
Gross Customer kW	C	1 kW	
Generator Peak Coincidence Factor	D	89.73%	
Gross Load Factor at Customer	E	10.67%	
Net-to-Gross (Energy)	F	72.2%	
Net-to-Gross (Demand)	G	76.9%	
Transmission Loss Factor (Energy)	Н	6.380%	
Transmission Loss Factor (Demand)	I	9.129%	
Installation Rate (Energy)	J	100.0%	
Installation Rate (Demand)	K	100.0%	
MTRC Net Benefit (Cost)	L	\$498	
MTRC Non-Energy Benefit Adder	M	\$238	
Gross Annual kWh Saved at Customer	(BxExC)	934 kWł	
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	675 kWł	
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	721 kWł	
Program Summary All Participant			
Total Budget	N	\$2,386,790	
Net coincident kW Saved at Generator	(G x O x K) x D / (1-I)	2,703 kW	
Net Annual kWh Saved at Customer	(Fx(BxExOxJ)	2,402,470 kWł	
Net Annual kWh Saved at Generator	(Fx(B x E x O x J))/(1-H)	2,566,181 kWl	
TRC Net Benefits with Adder	(OxL)	\$1,774,451	
TRC Net Benefits without Adder	(Ox(L-M))	\$927,414	

\$0.0516

\$883

Utility Program Cost per kWh Lifetime

Utility Program Cost per kW at Gen