MOTOR & DRIVE EFFICIENCY 2019 Net Present Cost Benefit Summary Analysis For All Participants						
2017 IVELTICSCIII COST DEHEIIT SUITIIIIAIY ATIAIY	sis 1 of All 1 articipant	.5	Rate	Modified		
	Participant	Utility	Impact Test (\$Total)	TRC Test (\$Total)		
	Test	Test				
	(\$Total)	(\$Total)				
Benefits	(, ,,,,,	(,)	(,,	(, , , , ,		
Avoided Revenue Requirements						
Generation Capacity	N/A	\$2,606,138	\$2,606,138	\$2,606,138		
Trans. & Dist. Capacity	N/A	\$326,376	\$326,376	\$326,376		
Marginal Energy	N/A	\$4,375,318	\$4,375,318	\$4,375,318		
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
Subtotal				\$7,307,832		
Non-Energy Benefits Adder (20%)				\$1,461,566		
Subtotal	N/A	\$7,307,832	\$7,307,832	\$8,769,398		
Other Benefits						
Bill Reduction - Electric	\$18,738,422	N/A	N/A	N/A		
Participant Rebates and Incentives	\$2,082,423	N/A	N/A	\$2,082,423		
Incremental Capital Savings	\$0	N/A	N/A	\$0		
Incremental O&M Savings	\$129,655	N/A	N/A	\$84,275		
Subtotal	\$20,950,499	N/A	N/A	\$2,166,698		
Total Benefits	\$20,950,499	\$7,307,832	\$7,307,832	\$10,936,096		
Utility Project Costs						
Program Planning & Design	N/A	\$0	\$0	\$0		
Administration & Program Delivery	N/A	\$539,581	\$539,581	\$539,581		
Advertising/Promotion/Customer Ed	N/A	\$36,450	\$36,450	\$36,450		
Participant Rebates and Incentives	N/A	\$2,082,423	\$2,082,423	\$2,082,423		
Equipment & Installation	N/A	\$0	\$0	\$0		
Measurement and Verification	N/A	\$21,600	\$21,600	\$21,600		
Subtotal	N/A	\$2,680,054	\$2,680,054	\$2,680,054		
Utility Revenue Reduction						
Revenue Reduction - Electric	N/A	N/A	\$12,788,397	N/A		
Subtotal	N/A N/A	N/A	\$12,788,397	N/A		
Participant Costs						
Incremental Capital Costs	\$6,710,220	N/A	N/A	\$4,425,350		
Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$6,710,220	N/A	N/A	\$4,425,350		
Total Costs	\$6,710,220	\$2,680,054	\$15,468,451	\$7,105,404		
Net Benefit (Cost)	\$14,240,279	\$4,627,778	(\$8,160,619)	\$3,830,692		
Benefit/Cost Ratio	3.12	2.73	0.47	1.54		

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

2019 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	С	1 kW	
Generator Peak Coincidence Factor	D	76.81%	
Gross Load Factor at Customer	E	51.05%	
Net-to-Gross (Energy)	F	68.0%	
Net-to-Gross (Demand)	G	68.1%	
Transmission Loss Factor (Energy)	Н	5.332%	
Transmission Loss Factor (Demand)	I	7.711%	
Installation Rate (Energy)	J	100.0%	
Installation Rate (Demand)	K	100.0%	
MTRC Net Benefit (Cost)	L	\$865	
MTRC Non-Energy Benefit Adder	M	\$330	
Gross Annual kWh Saved at Customer	(B x E x C)	4,472 kWł	
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	3,040 kWł	
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	3,211 kWł	
Program Summary All Participants			
Total Budget	N	\$2,680,054	
Net coincident kW Saved at Generator	(G x O x K) x D / (1-I)	2,510 kW	
Net Annual kWh Saved at Customer	(Fx(BxExOxJ)	13,455,510 kWl	
Net Annual kWh Saved at Generator	(Fx(BxExOxJ))/(1-H)	14,213,395 kWI	
TRC Net Benefits with Adder	(OxL)	\$3,830,692	
TRC Net Benefits without Adder	(Ox(L-M))	\$2,369,126	

\$0.0107

\$1,068

Utility Program Cost per kWh Lifetime

Utility Program Cost per kW at Gen

2020 Net Present Cost Benefit Summary Analysis For All Participants						
			Rate	Modified		
	Participant	Utility	Impact Test (\$Total)	TRC Test (\$Total)		
	Test	Test				
	(\$Total)	(\$Total)				
Benefits						
Avoided Revenue Requirements						
Generation Capacity	N/A	\$2,964,313	\$2,964,313	\$2,964,313		
Trans. & Dist. Capacity	N/A	\$378,273	\$378,273	\$378,273		
Marginal Energy	N/A	\$5,291,184	\$5,291,184	\$5,291,184		
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
Subtotal				\$8,633,769		
Non-Energy Benefits Adder (20%)				\$1,726,754		
Subtotal	N/A	\$8,633,769	\$8,633,769	\$10,360,523		
Other Benefits						
Bill Reduction - Electric	\$20,913,391	N/A	N/A	N/A		
Participant Rebates and Incentives	\$2,140,769	N/A	N/A	\$2,140,769		
Incremental Capital Savings	\$0	N/A	N/A	\$0		
Incremental O&M Savings	\$129,655	N/A	N/A	\$84,275		
Subtotal	\$23,183,814	N/A	N/A	\$2,225,044		
Total Benefits	\$23,183,814	\$8,633,769	\$8,633,769	\$12,585,567		
Utility Project Costs						
Program Planning & Design	N/A	\$0	\$0	\$0		
Administration & Program Delivery	N/A	\$539,581	\$539,581	\$539,581		
Advertising/Promotion/Customer Ed	N/A	\$36,450	\$36,450	\$36,450		
Participant Rebates and Incentives	N/A	\$2,140,769	\$2,140,769	\$2,140,769		
Equipment & Installation	N/A	\$0	\$0	\$0		
Measurement and Verification	N/A N/A	\$21,600	\$21,600	\$21,600		
Subtotal	N/A	\$2,738,400	\$2,738,400	\$2,738,400		
Utility Revenue Reduction	NT / A	NI/A	£14.013.440	NT / A		
Revenue Reduction - Electric Subtotal	N/A N/A	N/A N/A	\$14,812,448	N/A		
	N/A	N/A	\$14,812,448	N/A		
Participant Costs	0.011=-	27/1	A. 7. 7.	0.1.504.000		
Incremental Capital Costs	\$6,811,736	N/A	N/A	\$4,526,866		
Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$6,811,736	N/A	N/A	\$4,526,866		
Total Costs	\$6,811,736	\$2,738,400	\$17,550,848	\$7,265,266		
Net Benefit (Cost)	\$16,372,078	\$5,895,369	(\$8,917,079)	\$5,320,302		
Benefit/Cost Ratio	3.40	3.15	0.49	1.73		

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

2020 ELE	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	С	1 kW
Generator Peak Coincidence Factor	D	76.90%
Gross Load Factor at Customer	E	50.87%
Net-to-Gross (Energy)	F	70.4%
Net-to-Gross (Demand)	G	70.7%
Transmission Loss Factor (Energy)	Н	5.332%
Transmission Loss Factor (Demand)	I	7.711%
Installation Rate (Energy)	J	100.0%
Installation Rate (Demand)	K	100.0%
MTRC Net Benefit (Cost)	L	\$1,108
MTRC Non-Energy Benefit Adder	M	\$360
Gross Annual kWh Saved at Customer	(B x E x C)	4,456 kWh
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	3,137 kWh
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	3,314 kWh
Program Summary All Participant		
Total Budget	N	\$2,738,400
Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	2,827 kW
Net Annual kWh Saved at Customer	(Fx(BxExOxJ)	15,062,757 kWł
Net Annual kWh Saved at Generator	(Fx(B xE xO xJ))/(1-H)	15,911,170 kWI
TRC Net Benefits with Adder	(OxL)	\$5,320,302
TRC Net Benefits without Adder	(Ox(L-M))	\$3,593,548

\$0.0096

\$969

Utility Program Cost per kWh Lifetime

Utility Program Cost per kW at Gen