

CHARGING PERKS PILOT	2019 ELECTRIC	GOAL
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2019 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Generation Capacity	N/A	\$0	\$0	\$0
Trans. & Dist. Capacity	N/A	\$0	\$0	\$0
Marginal Energy	N/A	\$0	\$0	\$0
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$0
#DIV/0!				\$0
Subtotal	N/A	\$0	\$0	\$0
Other Benefits				
Bill Reduction - Electric	\$0	N/A	N/A	N/A
Participant Rebates and Incentives	\$30,000	N/A	N/A	\$30,000
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$30,000	N/A	N/A	\$30,000
Total Benefits	\$30,000	\$0	\$0	\$30,000
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$214,320	\$214,320	\$214,320
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0
Participant Rebates and Incentives	N/A	\$30,000	\$30,000	\$30,000
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$0	\$0	\$0
Subtotal	N/A	\$244,320	\$244,320	\$244,320
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$0	N/A
Subtotal	N/A	N/A	\$0	N/A
Participant Costs				
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
Total Costs	\$0	\$244,320	\$244,320	\$244,320
Net Benefit (Cost)	\$30,000	(\$244,320)	(\$244,320)	(\$214,320)
Benefit/Cost Ratio	INF	-	-	0.12

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	0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	62.04%
Gross Load Factor at Customer	E	0.00%
Net-to-Gross (Energy)	F	0.0%
Net-to-Gross (Demand)	G	100.0%
Transmission Loss Factor (Energy)	H	0.000%
Transmission Loss Factor (Demand)	I	100.000%
Installation Rate (Energy)	J	0.0%
Installation Rate (Demand)	K	100.0%
MTRC Net Benefit (Cost)	L	#DIV/0!
MTRC Non-Energy Benefit Adder	M	#DIV/0!
Gross Annual kWh Saved at Customer	(B x E x C)	- kWh
Net Annual kWh Saved at Customer	(F x (B x E x C x J))	- kWh
Net Annual kWh Saved at Generator	(F x (B x E x C x J)) / (1 - H)	- kWh
Program Summary All Participants		
Total Budget	N	\$244,320
Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	#DIV/0!
Net Annual kWh Saved at Customer	(F x (B x E x O x J))	0 kWh
Net Annual kWh Saved at Generator	(F x (B x E x O x J)) / (1 - H)	0 kWh
TRC Net Benefits with Adder	(O x L)	#DIV/0!
TRC Net Benefits without Adder	(O x (L - M))	#DIV/0!
Utility Program Cost per kWh Lifetime		
		#DIV/0!
Utility Program Cost per kW at Gen		
		#DIV/0!

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2020 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified TRC Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Generation Capacity	N/A	\$35,281	\$35,281	\$35,281
Trans. & Dist. Capacity	N/A	\$4,418	\$4,418	\$4,418
Marginal Energy	N/A	\$9,768	\$9,768	\$9,768
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0
Subtotal				\$49,467
Non-Energy Benefits Adder (20%)				\$9,893
Subtotal	N/A	\$49,467	\$49,467	\$59,361
Other Benefits				
Bill Reduction - Electric	\$0	N/A	N/A	N/A
Participant Rebates and Incentives	\$75,000	N/A	N/A	\$75,000
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$75,000	N/A	N/A	\$75,000
Total Benefits	\$75,000	\$49,467	\$49,467	\$134,361
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$323,720	\$323,720	\$323,720
Advertising/Promotion/Customer Ed	N/A	\$0	\$0	\$0
Participant Rebates and Incentives	N/A	\$75,000	\$75,000	\$75,000
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$135,000	\$135,000	\$135,000
Subtotal	N/A	\$533,720	\$533,720	\$533,720
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$0	N/A
Subtotal	N/A	N/A	\$0	N/A
Participant Costs				
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
Total Costs	\$0	\$533,720	\$533,720	\$533,720
Net Benefit (Cost)	\$75,000	(\$484,253)	(\$484,253)	(\$309,359)
Benefit/Cost Ratio	INF	0.09	0.09	0.25

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	0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	62.04%
Gross Load Factor at Customer	E	0.00%
Net-to-Gross (Energy)	F	0.0%
Net-to-Gross (Demand)	G	100.0%
Transmission Loss Factor (Energy)	H	0.000%
Transmission Loss Factor (Demand)	I	9.129%
Installation Rate (Energy)	J	0.0%
Installation Rate (Demand)	K	100.0%
MTRC Net Benefit (Cost)	L	-\$697
MTRC Non-Energy Benefit Adder	M	\$17
Gross Annual kWh Saved at Customer	(B x E x C)	- kWh
Net Annual kWh Saved at Customer	(F x (B x E x C x J))	- kWh
Net Annual kWh Saved at Generator	(F x (B x E x C x J)) / (1 - H)	- kWh
Program Summary All Participant		
Total Budget	N	\$533,720
Net coincident kW Saved at Generator	(G x O x K) x D / (1 - I)	391 kW
Net Annual kWh Saved at Customer	(F x (B x E x O x J))	0 kWh
Net Annual kWh Saved at Generator	(F x (B x E x O x J)) / (1 - H)	0 kWh
TRC Net Benefits with Adder	(O x L)	(\$399,359)
TRC Net Benefits without Adder	(O x (L - M))	(\$409,253)
Utility Program Cost per kWh Lifetime		
		#DIV/0!
Utility Program Cost per kW at Gen		
		\$1,365