

RESIDENTIAL BATTERY DEMAND RESPONSE					2020	ELECTRIC	GOAL
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)			
Benefits					Program Summary All Participants		
Avoided Revenue Requirements					Total Budget	N	\$565,980
Generation Capacity	N/A	\$445,460	\$445,460	\$445,460	Net coincident kW Saved at Generator	$(G \times O \times K) \times D / (1 - I)$	630 kW
Trans. & Dist. Capacity	N/A	\$55,787	\$55,787	\$55,787	Net Annual kWh Saved at Customer	$(F \times (B \times E \times O \times J))$	-16414kWh
Marginal Energy	N/A	(\$3,726)	(\$3,726)	(\$3,726)	Net Annual kWh Saved at Generator	$(F \times (B \times E \times O \times J)) / (1 - H)$	-17532kWh
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0	TRC Net Benefits with Adder	$(O \times L)$	\$343,546
Subtotal				\$497,521	TRC Net Benefits without Adder	$(O \times (L - M))$	\$244,041
Non-Energy Benefits Adder (20%)				\$99,504	Utility Program Cost per kWh Lifetime		
Subtotal	N/A	\$497,521	\$497,521	\$597,026	Utility Program Cost per kWh at Gen		
Other Benefits					(\$3,2282)		
Bill Reduction - Electric	(\$17,125)	N/A	N/A	N/A	\$899		
Participant Rebates and Incentives	\$312,500	N/A	N/A	\$312,500			
Incremental Capital Savings	\$0	N/A	N/A	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0			
Subtotal	\$295,375	N/A	N/A	\$312,500			
Total Benefits	\$295,375	\$497,521	\$497,521	\$909,526			
Utility Project Costs							
Program Planning & Design	N/A	\$0	\$0	\$0			
Administration & Program Delivery	N/A	\$197,500	\$197,500	\$197,500			
Advertising/Promotion/Customer Ed	N/A	\$5,000	\$5,000	\$5,000			
Participant Rebates and Incentives	N/A	\$312,500	\$312,500	\$312,500			
Equipment & Installation	N/A	\$0	\$0	\$0			
Measurement and Verification	N/A	\$50,980	\$50,980	\$50,980			
Subtotal	N/A	\$565,980	\$565,980	\$565,980			
Utility Revenue Reduction							
Revenue Reduction - Electric	N/A	N/A	(\$17,125)	N/A			
Subtotal	N/A	N/A	(\$17,125)	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	\$565,980	\$548,855	\$565,980			
Net Benefit (Cost)	\$295,375	(\$68,459)	(\$51,333)	\$343,546			
Benefit/Cost Ratio	INF	0.88	0.91	1.61			

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