

REFRIGERATOR & FREEZER RECYCLING

2021 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified Total Resource Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Generation Capacity	N/A	\$409,738	\$409,738	\$409,738
Trans. & Dist. Capacity	N/A	\$51,314	\$51,314	\$51,314
Marginal Energy	N/A	\$649,226	\$649,226	\$649,226
Avoided Emissions (CO2)	N/A	N/A	N/A	N/A
Subtotal				\$1,110,278
Non-Energy Benefits Adder				
Subtotal	N/A	\$1,110,278	\$1,110,278	\$1,332,334
Participant Benefits				
Bill Reduction - Electric	\$3,947,272	N/A	N/A	N/A
Participant Rebates and Incentives	\$350,000	N/A	N/A	\$350,000
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$4,297,272	N/A	N/A	\$350,000
Total Benefits	\$4,297,272	\$1,110,278	\$1,110,278	\$1,682,334
Costs				
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$651,268	\$651,268	\$651,268
Advertising/Promotion/Customer Ed	N/A	\$110,000	\$110,000	\$110,000
Participant Rebates and Incentives	N/A	\$350,000	\$350,000	\$350,000
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$10,000	\$10,000	\$10,000
Subtotal	N/A	\$1,121,268	\$1,121,268	\$1,121,268
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$3,947,272	N/A
Subtotal	N/A	N/A	\$3,947,272	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	\$1,121,268	\$5,068,541	\$1,121,268
Net Benefit (Cost)	\$4,297,272	(\$10,990)	(\$3,958,262)	\$561,065
Benefit/Cost Ratio	INF	0.99	0.22	1.50

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

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Input Summary and Totals

Program "Inputs" per Customer kW and per Participant

Lifetime (Weighted on Generator kWh)	A	8.1 years
T & D Loss Factor (Energy)	B	6.38%
T & D Loss Factor (Demand)	C	9.13%
Net-to-Gross (Energy)	D	80.00%
Net-to-Gross (Demand)	E	80.00%
Installation Rate (Energy)	F	100.00%
Installation Rate (Demand)	G	100.00%
Net coincident kW Saved at Generator	H	0.09 kW
Gross Annual kWh Saved at Customer	I	800.40 kWh
Net Annual kWh Saved at Generator	J	683.96 kWh

Program Summary All Participants

Total Budget	K	\$1,121,268
Net coincident kW Saved at Generator	L	670 kW
Gross Annual kWh Saved at Customer	M	5,722,859 kWh
Net Annual kWh Saved at Generator	N	4,890,288 kWh
Total MTRC Net Benefits with Adder	O	\$561,065
Total MTRC Net Benefits without Adder	P	\$339,010

Utility Program Cost per kWh Lifetime	K/(A x N)	\$0.0282
Utility Program Cost per kW at Gen	K/L	\$1,673

Avoided Lifetime CO2 Emissions, Total Program (tons CO2)		15,967
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REFRIGERATOR & FREEZER RECYCLING

2022 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified Total Resource Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Generation Capacity	N/A	\$438,210	\$438,210	\$438,210
Trans. & Dist. Capacity	N/A	\$54,880	\$54,880	\$54,880
Marginal Energy	N/A	\$685,218	\$685,218	\$685,218
Avoided Emissions (CO2)	N/A	N/A	N/A	N/A
Subtotal				\$1,178,309
Non-Energy Benefits Adder				
Subtotal	N/A	\$1,178,309	\$1,178,309	\$1,413,970
Participant Benefits				
Bill Reduction - Electric	\$4,110,993	N/A	N/A	N/A
Participant Rebates and Incentives	\$355,000	N/A	N/A	\$355,000
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0
Subtotal	\$4,465,993	N/A	N/A	\$355,000
Total Benefits	\$4,465,993	\$1,178,309	\$1,178,309	\$1,768,970
Costs				
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$662,206	\$662,206	\$662,206
Advertising/Promotion/Customer Ed	N/A	\$120,000	\$120,000	\$120,000
Participant Rebates and Incentives	N/A	\$355,000	\$355,000	\$355,000
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$10,000	\$10,000	\$10,000
Subtotal	N/A	\$1,147,206	\$1,147,206	\$1,147,206
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$4,110,993	N/A
Subtotal	N/A	N/A	\$4,110,993	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	\$1,147,206	\$5,258,199	\$1,147,206
Net Benefit (Cost)	\$4,465,993	\$31,102	(\$4,079,891)	\$621,764
Benefit/Cost Ratio	INF	1.03	0.22	1.54

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

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Input Summary and Totals

Program "Inputs" per Customer kW and per Participant

Lifetime (Weighted on Generator kWh)	A	8.1 years
T & D Loss Factor (Energy)	B	6.38%
T & D Loss Factor (Demand)	C	9.13%
Net-to-Gross (Energy)	D	80.00%
Net-to-Gross (Demand)	E	80.00%
Installation Rate (Energy)	F	100.00%
Installation Rate (Demand)	G	100.00%
Net coincident kW Saved at Generator	H	0.10 kW
Gross Annual kWh Saved at Customer	I	798.60 kWh
Net Annual kWh Saved at Generator	J	682.42 kWh

Program Summary All Participants

Total Budget	K	\$1,147,206
Net coincident kW Saved at Generator	L	713 kW
Gross Annual kWh Saved at Customer	M	5,829,759 kWh
Net Annual kWh Saved at Generator	N	4,981,636 kWh
Total MTRC Net Benefits with Adder	O	\$621,764
Total MTRC Net Benefits without Adder	P	\$386,102

Utility Program Cost per kWh Lifetime	K/(A x N)	\$0.0284
Utility Program Cost per kW at Gen	K/ L	\$1,610

Avoided Lifetime CO2 Emissions, Total Program (tons CO2)	15,088
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