

Executive Summary Table-2024																
Goal					Actual								Actual Test Results			
2024	Electric Participants	Electric Budget	Generator kW	Generator kWh	Electric Participants	Percent of Goal	Electric Budget	Percent of Goal	Generator kW	Percent of Goal	Generator kWh	Percent of Goal	Participant Test Ratio	Utility Test Ratio	Ratepayer Impact Measure Test Ratio	TRC Ratio
Business Segment																
Lighting Efficiency	180	\$389,418	672	6,091,709	190	106%	\$244,791	63%	611	91%	3,962,348	65%	4.86	6.79	0.36	1.58
Business Saver's Switch	20	\$26,150	57	78	19	95%	\$58,841	225%	73	129%	103	132%	INF	1.00	1.00	1.00
Peak and Energy Control	1	\$10,350	174	448	1	100%	\$22,242	215%	73	42%	145	32%	INF	1.11	1.10	1.11
Total	201	\$425,918	903	6,092,234	210	104%	\$325,874	77%	756	84%	3,962,595	65%	4.86	5.35	0.38	1.54
Residential Segment																
Home Lighting	5,183	\$99,539	146	1,089,357	8,927	172%	\$184,485	185%	218	150%	1,533,933	141%	19.20	3.78	0.24	2.53
Heat Pump Water Heaters	21	\$11,000	8	61,901	7	33%	\$2,985	27%	3	37%	23,122	37%	6.16	2.90	0.22	1.22
Residential Demand Response	1,460	\$281,685	734	58,865	1,092	75%	\$379,338	135%	1,200	164%	29,773	51%	26.29	2.12	1.93	2.22
Consumer Education	52,579	\$22,000	N/A	N/A	39,772	76%	\$22,798	104%	N/A	N/A	N/A	N/A				
Residential Segment Total	59,243	\$414,224	887	1,210,123	49,798	84%	\$589,606	142%	1,421	160%	1,586,828	131%	18.82	2.56	0.44	2.28
Planning Segment																
Regulatory Affairs	0	\$10,350	0	0	0	N/A	\$10,077	97%	0	N/A	0	N/A				
Total	0	\$10,350	0	0	0	N/A	\$10,077	97%	0	N/A	0	N/A				
PORTFOLIO TOTAL	59,444	\$850,492	1,790	7,302,357	50,008	84%	\$925,557	109%	2,178	122%	5,549,423	76%	6.91	3.52	0.40	1.81

LIGHTING EFFICIENCY

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	(\$Total)	Test	Test
				(\$Total)	(\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$376,610	\$376,610	\$376,610	\$376,610
T & D	N/A	\$67,404	\$67,404	\$67,404	\$67,404
Marginal Energy	N/A	\$1,217,331	\$1,217,331	\$1,217,331	\$1,217,331
Environmental Externality	N/A	N/A	N/A	N/A	\$256,057
Subtotal	N/A	\$1,661,345	\$1,661,345	\$1,661,345	\$1,917,402
Participant Benefits					
Bill Reduction - Electric	\$4,309,281	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$184,973	N/A	N/A	\$184,973	\$184,973
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$4,494,254	N/A	N/A	\$184,973	\$184,973
Total Benefits					
	\$4,494,254	\$1,661,345	\$1,661,345	\$1,846,318	\$2,102,375
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$48,189	\$48,189	\$48,189	\$48,189
Advertising & Promotion	N/A	\$11,629	\$11,629	\$11,629	\$11,629
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$184,973	\$184,973	\$184,973	\$184,973
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$244,791	\$244,791	\$244,791	\$244,791
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$4,309,281	N/A	N/A
Subtotal	N/A	N/A	\$4,309,281	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$785,343	N/A	N/A	\$785,343	\$785,343
Incremental O&M Costs	\$140,296	N/A	N/A	\$140,296	\$140,296
Subtotal	\$925,639	N/A	N/A	\$925,639	\$925,639
Total Costs					
	\$925,639	\$244,791	\$4,554,072	\$1,170,430	\$1,170,430
Net Benefit (Cost)					
	\$3,568,615	\$1,416,554	(\$2,892,727)	\$675,888	\$931,945
Benefit/Cost Ratio					
	4.86	6.79	0.36	1.58	1.80

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	15.6 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	65.78%
Gross Load Factor at Customer	E	49.13%
Transmission Loss Factor (Energy)	F	4.550%
Transmission Loss Factor (Demand)	G	5.317%
Societal Net Benefit (Cost)	H	\$1,060

Program Summary per Participant

Gross kW Saved at Customer	I	4.63 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	3.21 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	19,906 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	20,854 kWh

Program Summary All Participants

Total Participants	J	190
Total Budget	K	\$244,791
Gross kW Saved at Customer	$(J \times I)$	878.82 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	611 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	3,782,061 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	3,962,348 kWh
Societal Net Benefits	$(J \times I \times H)$	\$931,945

Utility Program Cost per kWh Lifetime	\$0.0040
Utility Program Cost per kW at Gen	\$401

BUSINESS SAVER'S SWITCH

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	Test (\$Total)	Test (\$Total)	Test (\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$49,998	\$49,998	\$49,998	\$49,998
T & D	N/A	\$8,952	\$8,952	\$8,952	\$8,952
Marginal Energy	N/A	\$38	\$38	\$38	\$38
Environmental Externality	N/A	N/A	N/A	N/A	\$6
Subtotal	N/A	\$58,989	\$58,989	\$58,989	\$58,995
Participant Benefits					
Bill Reduction - Electric	\$171	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$0	N/A	N/A	\$0	\$0
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$171	N/A	N/A	\$0	\$0
Total Benefits	\$171	\$58,989	\$58,989	\$58,989	\$58,995
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$58,841	\$58,841	\$58,841	\$58,841
Advertising & Promotion	N/A	\$0	\$0	\$0	\$0
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$0	\$0	\$0	\$0
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$58,841	\$58,841	\$58,841	\$58,841
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$171	N/A	N/A
Subtotal	N/A	N/A	\$171	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$0	N/A	N/A	\$0	\$0
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0
Subtotal	\$0	N/A	N/A	\$0	\$0
Total Costs	\$0	\$58,841	\$59,012	\$58,841	\$58,841

Net Benefit (Cost)	\$171	\$148	(\$24)	\$148	\$154
Benefit/Cost Ratio	INF	1.00	1.00	1.00	1.00

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	15.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	24.66%
Gross Load Factor at Customer	E	0.00%
Transmission Loss Factor (Energy)	F	4.550%
Transmission Loss Factor (Demand)	G	5.318%
Societal Net Benefit (Cost)	H	\$1

Program Summary per Participant

Gross kW Saved at Customer	I	14.76 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	3.84 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	5 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	5 kWh

Program Summary All Participants

Total Participants	J	19
Total Budget	K	\$58,841
Gross kW Saved at Customer	$(J \times I)$	280.39 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	73 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	98 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	103 kWh
Societal Net Benefits	$(J \times I \times H)$	\$154

Utility Program Cost per kWh Lifetime	\$38.2066
Utility Program Cost per kW at Gen	\$806

PEAK AND ENERGY CONTROL

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	Test	Test	Test
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$20,927	\$20,927	\$20,927	\$20,927
T & D	N/A	\$3,692	\$3,692	\$3,692	\$3,692
Marginal Energy	N/A	\$21	\$21	\$21	\$21
Environmental Externality	N/A	N/A	N/A	N/A	\$5
Subtotal	N/A	\$24,640	\$24,640	\$24,640	\$24,645
Participant Benefits					
Bill Reduction - Electric	\$97	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$0	N/A	N/A	\$0	\$0
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$97	N/A	N/A	\$0	\$0
Total Benefits	\$97	\$24,640	\$24,640	\$24,640	\$24,645
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$21,713	\$21,713	\$21,713	\$21,713
Advertising & Promotion	N/A	\$529	\$529	\$529	\$529
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$0	\$0	\$0	\$0
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$22,242	\$22,242	\$22,242	\$22,242
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$97	N/A	N/A
Subtotal	N/A	N/A	\$97	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$0	N/A	N/A	\$0	\$0
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0
Subtotal	\$0	N/A	N/A	\$0	\$0
Total Costs	\$0	\$22,242	\$22,339	\$22,242	\$22,242

Net Benefit (Cost)	\$97	\$2,398	\$2,301	\$2,398	\$2,403
Benefit/Cost Ratio	INF	1.11	1.10	1.11	1.11

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	5.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	100.00%
Gross Load Factor at Customer	E	0.02%
Transmission Loss Factor (Energy)	F	4.550%
Transmission Loss Factor (Demand)	G	5.318%
Societal Net Benefit (Cost)	H	\$35

Program Summary per Participant

Gross kW Saved at Customer	I	69.00 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	72.88 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	138 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	145 kWh

Program Summary All Participants

Total Participants	J	1
Total Budget	K	\$22,242
Gross kW Saved at Customer	$(J \times I)$	69.00 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	73 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	138 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	145 kWh
Societal Net Benefits	$(J \times I \times H)$	\$2,403

Utility Program Cost per kWh Lifetime	\$30.7683
Utility Program Cost per kW at Gen	\$305

HOME LIGHTING

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Total Resource Test (\$Total)	Societal Test (\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$142,654	\$142,654	\$142,654	\$142,654
T & D	N/A	\$25,651	\$25,651	\$25,651	\$25,651
Marginal Energy	N/A	\$529,700	\$529,700	\$529,700	\$529,700
Environmental Externality	N/A	N/A	N/A	N/A	\$106,819
Subtotal	N/A	\$698,005	\$698,005	\$698,005	\$804,824
Participant Benefits					
Bill Reduction - Electric	\$2,741,507	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$148,040	N/A	N/A	\$148,040	\$148,040
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$2,889,547	N/A	N/A	\$148,040	\$148,040
Total Benefits	\$2,889,547	\$698,005	\$698,005	\$846,045	\$952,864
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$36,079	\$36,079	\$36,079	\$36,079
Advertising & Promotion	N/A	\$366	\$366	\$366	\$366
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$148,040	\$148,040	\$148,040	\$148,040
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$184,485	\$184,485	\$184,485	\$184,485
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$2,741,507	N/A	N/A
Subtotal	N/A	N/A	\$2,741,507	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$150,480	N/A	N/A	\$150,480	\$150,480
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0
Subtotal	\$150,480	N/A	N/A	\$150,480	\$150,480
Total Costs	\$150,480	\$184,485	\$2,925,991	\$334,965	\$334,965
Net Benefit (Cost)	\$2,739,066	\$513,521	(\$2,227,986)	\$511,080	\$617,899
Benefit/Cost Ratio	19.20	3.78	0.24	2.53	2.84

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	16.6 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	16.58%
Gross Load Factor at Customer	E	13.50%
Transmission Loss Factor (Energy)	F	5.398%
Transmission Loss Factor (Demand)	G	6.807%
Societal Net Benefit (Cost)	H	\$504

Program Summary per Participant

Gross kW Saved at Customer	I	0.14 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	0.02 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	163 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	172 kWh

Program Summary All Participants

Total Participants	J	8,927
Total Budget	K	\$184,485
Gross kW Saved at Customer	$(J \times I)$	1,226.86 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	218 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	1,451,126 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	1,533,933 kWh
Societal Net Benefits	$(J \times I \times H)$	\$617,899

Utility Program Cost per kWh Lifetime	\$0.0072
Utility Program Cost per kW at Gen	\$845

HEAT PUMP WATER HEATERS

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	Test (\$Total)	Test (\$Total)	Test (\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$1,838	\$1,838	\$1,838	\$1,838
T & D	N/A	\$328	\$328	\$328	\$328
Marginal Energy	N/A	\$6,479	\$6,479	\$6,479	\$6,479
Environmental Externality	N/A	N/A	N/A	N/A	\$1,256
Subtotal	N/A	\$8,645	\$8,645	\$8,645	\$9,901
Participant Benefits					
Bill Reduction - Electric	\$36,696	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$2,800	N/A	N/A	\$2,800	\$2,800
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$39,496	N/A	N/A	\$2,800	\$2,800
Total Benefits	\$39,496	\$8,645	\$8,645	\$11,445	\$12,701
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$185	\$185	\$185	\$185
Advertising & Promotion	N/A	\$0	\$0	\$0	\$0
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$2,800	\$2,800	\$2,800	\$2,800
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$2,985	\$2,985	\$2,985	\$2,985
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$36,696	N/A	N/A
Subtotal	N/A	N/A	\$36,696	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$5,488	N/A	N/A	\$5,488	\$5,488
Incremental O&M Costs	\$926	N/A	N/A	\$926	\$926
Subtotal	\$6,414	N/A	N/A	\$6,414	\$6,414
Total Costs	\$6,414	\$2,985	\$39,681	\$9,399	\$9,399
Net Benefit (Cost)	\$33,082	\$5,660	(\$31,036)	\$2,046	\$3,302
Benefit/Cost Ratio	6.16	2.90	0.22	1.22	1.35

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	13.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	100.00%
Gross Load Factor at Customer	E	90.28%
Transmission Loss Factor (Energy)	F	5.630%
Transmission Loss Factor (Demand)	G	6.900%
Societal Net Benefit (Cost)	H	\$1,197

Program Summary per Participant

Gross kW Saved at Customer	I	0.39 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	0.42 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	3,117 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	3,303 kWh

Program Summary All Participants

Total Participants	J	7
Total Budget	K	\$2,985
Gross kW Saved at Customer	$(J \times I)$	2.76 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	3 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	21,820 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	23,122 kWh
Societal Net Benefits	$(J \times I \times H)$	\$3,302

Utility Program Cost per kWh Lifetime	\$0.0099
Utility Program Cost per kW at Gen	\$1,007

RESIDENTIAL DEMAND RESPONSE

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	Test (\$Total)	Test (\$Total)	Test (\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$676,624	\$676,624	\$676,624	\$676,624
T & D	N/A	\$120,876	\$120,876	\$120,876	\$120,876
Marginal Energy	N/A	\$6,672	\$6,672	\$6,672	\$6,672
Environmental Externality	N/A	N/A	N/A	N/A	\$1,354
Subtotal	N/A	\$804,171	\$804,171	\$804,171	\$805,525
Participant Benefits					
Bill Reduction - Electric	\$38,240	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$45,902	N/A	N/A	\$45,902	\$45,902
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$84,142	N/A	N/A	\$45,902	\$45,902
Total Benefits	\$84,142	\$804,171	\$804,171	\$850,073	\$851,428
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$326,906	\$326,906	\$326,906	\$326,906
Advertising & Promotion	N/A	\$6,530	\$6,530	\$6,530	\$6,530
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$45,902	\$45,902	\$45,902	\$45,902
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$379,338	\$379,338	\$379,338	\$379,338
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$38,240	N/A	N/A
Subtotal	N/A	N/A	\$38,240	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$3,200	N/A	N/A	\$3,200	\$3,200
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0
Subtotal	\$3,200	N/A	N/A	\$3,200	\$3,200
Total Costs	\$3,200	\$379,338	\$417,578	\$382,538	\$382,538
Net Benefit (Cost)	\$80,942	\$424,833	\$386,593	\$467,535	\$468,889
Benefit/Cost Ratio	26.29	2.12	1.93	2.22	2.23

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	10.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	41.05%
Gross Load Factor at Customer	E	0.12%
Transmission Loss Factor (Energy)	F	5.630%
Transmission Loss Factor (Demand)	G	6.900%
Societal Net Benefit (Cost)	H	\$172

Program Summary per Participant

Gross kW Saved at Customer	I	2.49 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	1.10 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	26 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	27 kWh

Program Summary All Participants

Total Participants	J	1,092
Total Budget	K	\$379,338
Gross kW Saved at Customer	$(J \times I)$	2,721.66 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	1,200 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	28,097 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	29,773 kWh
Societal Net Benefits	$(J \times I \times H)$	\$468,889

Utility Program Cost per kWh Lifetime	\$1.2697
Utility Program Cost per kW at Gen	\$316

CONSUMER EDUCATION

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Total Resource Test (\$Total)	Societal Test (\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$0	\$0	\$0	\$0
T & D	N/A	\$0	\$0	\$0	\$0
Marginal Energy	N/A	\$0	\$0	\$0	\$0
Environmental Externality	N/A	N/A	N/A	N/A	\$0
Subtotal	N/A	\$0	\$0	\$0	\$0
Participant Benefits					
Bill Reduction - Electric	\$0	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$0	N/A	N/A	\$0	\$0
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$0	N/A	N/A	\$0	\$0
Total Benefits	\$0	\$0	\$0	\$0	\$0
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$4,108	\$4,108	\$4,108	\$4,108
Advertising & Promotion	N/A	\$18,690	\$18,690	\$18,690	\$18,690
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$0	\$0	\$0	\$0
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$22,798	\$22,798	\$22,798	\$22,798
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$0	N/A	N/A
Subtotal	N/A	N/A	\$0	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$0	N/A	N/A	\$0	\$0
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0
Subtotal	\$0	N/A	N/A	\$0	\$0
Total Costs	\$0	\$22,798	\$22,798	\$22,798	\$22,798

Net Benefit (Cost)	\$0	(\$22,798)	(\$22,798)	(\$22,798)	(\$22,798)
Benefit/Cost Ratio	INF	-	-	-	-

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	0.0 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	#DIV/0!
Gross Load Factor at Customer	E	#DIV/0!
Transmission Loss Factor (Energy)	F	0.000%
Transmission Loss Factor (Demand)	G	0.000%
Societal Net Benefit (Cost)	H	#DIV/0!

Program Summary per Participant

Gross kW Saved at Customer	I	0.00 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	

Program Summary All Participants

Total Participants	J	39,772
Total Budget	K	\$22,798
Gross kW Saved at Customer	$(J \times I)$	
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	
Societal Net Benefits	$(J \times I \times H)$	

Utility Program Cost per kWh Lifetime	#DIV/0!
Utility Program Cost per kW at Gen	#DIV/0!

REGULATORY AFFAIRS						2024 ELECTRIC			GOAL
2024 Net Present Cost Benefit Summary Analysis For All Participants						Input Summary and Totals			
						Program "Inputs" per Customer kW			
	Participant	Utility	Rate	Total		Lifetime (Weighted on Generator kWh)	A	0.0	years
	Test	Test	Impact	Resource	Societal	Annual Hours	B	8760	
	(\$Total)	(\$Total)	Test	Test	Test	Gross Customer kW	C	1	kW
			(\$Total)	(\$Total)	(\$Total)	Generator Peak Coincidence Factor	D	#DIV/0!	
Benefits						Gross Load Factor at Customer	E	#DIV/0!	
						Transmission Loss Factor (Energy)	F	0.000%	
						Transmission Loss Factor (Demand)	G	0.000%	
						Societal Net Benefit (Cost)	H	#DIV/0!	

PLANNING SEGMENT TOTAL						2024 ELECTRIC	GOAL
2024 Net Present Cost Benefit Summary Analysis For All Participants						Input Summary and Totals	
	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Total Resource Test (\$Total)	Societal Test (\$Total)	Program "Inputs" per Customer kW	
Benefits						Lifetime (Weighted on Generator kWh)	A0.0 years
						Annual Hours	B8760
						Gross Customer kW	C1 kW
						Generator Peak Coincidence Factor	D#DIV/0!
						Gross Load Factor at Customer	E#DIV/0!
						Transmission Loss Factor (Energy)	F0.000%
						Transmission Loss Factor (Demand)	G0.000%
						Societal Net Benefit (Cost)	H#DIV/0!
Subtotal							
Participant Benefits						Program Summary per Participant	
Bill Reduction - Electric	\$0	N/A	N/A	N/A	N/A	Gross kW Saved at Customer	I#DIV/0!
Rebates from Xcel Energy	\$0	N/A	N/A	\$0	\$0	Net coincident kW Saved at Generator	(I x D) / (1 - G)#DIV/0!
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0	Gross Annual kWh Saved at Customer	(B x E x I)#DIV/0!
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0	Net Annual kWh Saved at Generator	(B x E x I) / (1 - F)#DIV/0!
Subtotal							
Total Benefits	\$0	\$0	\$0	\$0	\$0	Program Summary All Participants	
Costs						Total Participants	J0
Utility Project Costs						Total Budget	K\$10,077
Customer Services	N/A	\$0	\$0	\$0	\$0	Gross kW Saved at Customer	(J x I)#DIV/0!
Utility Administration	N/A	\$10,077	\$10,077	\$10,077	\$10,077	Net coincident kW Saved at Generator	(I x D) / (1 - G) x J#DIV/0!
Advertising & Promotion	N/A	\$0	\$0	\$0	\$0	Gross Annual kWh Saved at Customer	(B x E x I) x J#DIV/0!
Measurement & Verification	N/A	\$0	\$0	\$0	\$0	Net Annual kWh Saved at Generator	((B x E x I) / (1 - F)) x J#DIV/0!
Rebates	N/A	\$0	\$0	\$0	\$0	Societal Net Benefits	(J x I x H)#DIV/0!
Other	N/A	\$0	\$0	\$0	\$0		
Subtotal						Utility Program Cost per kWh Lifetime	#DIV/0!
Utility Revenue Reduction						Utility Program Cost per kW at Gen	#DIV/0!
Revenue Reduction - Electric	N/A	N/A	\$0	N/A	N/A		
Subtotal							
Participant Costs							
Incremental Capital Costs	\$0	N/A	N/A	\$0	\$0		
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0		
Subtotal							
Total Costs	\$0	\$10,077	\$10,077	\$10,077	\$10,077		
Net Benefit (Cost)	\$0	(\$10,077)	(\$10,077)	(\$10,077)	(\$10,077)		
Benefit/Cost Ratio	INF	-	-	-	-		

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

2024 SD DSM Status Report Cost-Effectiveness Analysis

BUSINESS SEGMENT TOTAL

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	Test	Test	Test
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$447,535	\$447,535	\$447,535	\$447,535
T & D	N/A	\$80,049	\$80,049	\$80,049	\$80,049
Marginal Energy	N/A	\$1,217,390	\$1,217,390	\$1,217,390	\$1,217,390
Environmental Externality	N/A	N/A	N/A	N/A	\$256,068
Subtotal	N/A	\$1,744,974	\$1,744,974	\$1,744,974	\$2,001,042
Participant Benefits					
Bill Reduction - Electric	\$4,309,549	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$184,973	N/A	N/A	\$184,973	\$184,973
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$4,494,522	N/A	N/A	\$184,973	\$184,973
Total Benefits					
	\$4,494,522	\$1,744,974	\$1,744,974	\$1,929,947	\$2,186,014
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$128,743	\$128,743	\$128,743	\$128,743
Advertising & Promotion	N/A	\$12,158	\$12,158	\$12,158	\$12,158
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$184,973	\$184,973	\$184,973	\$184,973
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$325,874	\$325,874	\$325,874	\$325,874
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$4,309,549	N/A	N/A
Subtotal	N/A	N/A	\$4,309,549	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$785,343	N/A	N/A	\$785,343	\$785,343
Incremental O&M Costs	\$140,296	N/A	N/A	\$140,296	\$140,296
Subtotal	\$925,639	N/A	N/A	\$925,639	\$925,639
Total Costs					
	\$925,639	\$325,874	\$4,635,423	\$1,251,513	\$1,251,513
Net Benefit (Cost)					
	\$3,568,883	\$1,419,100	(\$2,890,449)	\$678,434	\$934,501
Benefit/Cost Ratio					
	4.86	5.35	0.38	1.54	1.75

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	15.6 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	58.31%
Gross Load Factor at Customer	E	35.15%
Transmission Loss Factor (Energy)	F	4.550%
Transmission Loss Factor (Demand)	G	5.317%
Societal Net Benefit (Cost)	H	\$761

Program Summary per Participant

Gross kW Saved at Customer	I	5.85 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	3.60 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	18,011 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	18,870 kWh

Program Summary All Participants

Total Participants	J	210
Total Budget	K	\$325,874
Gross kW Saved at Customer	$(J \times I)$	1,228.20 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	756 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	3,782,297 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	3,962,595 kWh
Societal Net Benefits	$(J \times I \times H)$	\$934,501

Utility Program Cost per kWh Lifetime	\$0.0053
Utility Program Cost per kW at Gen	\$431

RESIDENTIAL SEGMENT TOTAL

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$821,116	\$821,116	\$821,116	\$821,116
T & D	N/A	\$146,855	\$146,855	\$146,855	\$146,855
Marginal Energy	N/A	\$542,850	\$542,850	\$542,850	\$542,850
Environmental Externality	N/A	N/A	N/A	N/A	\$109,429
Subtotal	N/A	\$1,510,821	\$1,510,821	\$1,510,821	\$1,620,250
Participant Benefits					
Bill Reduction - Electric	\$2,816,442	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$196,742	N/A	N/A	\$196,742	\$196,742
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$3,013,185	N/A	N/A	\$196,742	\$196,742
Total Benefits	\$3,013,185	\$1,510,821	\$1,510,821	\$1,707,564	\$1,816,993
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$367,278	\$367,278	\$367,278	\$367,278
Advertising & Promotion	N/A	\$25,586	\$25,586	\$25,586	\$25,586
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$196,742	\$196,742	\$196,742	\$196,742
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$589,606	\$589,606	\$589,606	\$589,606
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$2,816,442	N/A	N/A
Subtotal	N/A	N/A	\$2,816,442	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$159,168	N/A	N/A	\$159,168	\$159,168
Incremental O&M Costs	\$926	N/A	N/A	\$926	\$926
Subtotal	\$160,094	N/A	N/A	\$160,094	\$160,094
Total Costs	\$160,094	\$589,606	\$3,406,048	\$749,700	\$749,700
Net Benefit (Cost)	\$2,853,090	\$921,215	(\$1,895,227)	\$957,863	\$1,067,292
Benefit/Cost Ratio	18.82	2.56	0.44	2.28	2.42

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	16.5 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	33.50%
Gross Load Factor at Customer	E	4.34%
Transmission Loss Factor (Energy)	F	5.406%
Transmission Loss Factor (Demand)	G	6.871%
Societal Net Benefit (Cost)	H	\$270

Program Summary per Participant

Gross kW Saved at Customer	I	0.08 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	0.03 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	30 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	32 kWh

Program Summary All Participants

Total Participants	J	49,798
Total Budget	K	\$589,606
Gross kW Saved at Customer	$(J \times I)$	3,951.28 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	1,421 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	1,501,043 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	1,586,828 kWh
Societal Net Benefits	$(J \times I \times H)$	\$1,067,292

Utility Program Cost per kWh Lifetime	\$0.0226
Utility Program Cost per kW at Gen	\$415

PORTFOLIO TOTAL

2024 Net Present Cost Benefit Summary Analysis For All Participants

	Participant	Utility	Rate	Total	
	Test	Test	Impact	Resource	Societal
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)
Benefits					
Avoided Revenue Requirements					
Generation	N/A	\$1,268,652	\$1,268,652	\$1,268,652	\$1,268,652
T & D	N/A	\$226,904	\$226,904	\$226,904	\$226,904
Marginal Energy	N/A	\$1,760,239	\$1,760,239	\$1,760,239	\$1,760,239
Environmental Externality	N/A	N/A	N/A	N/A	\$365,497
Subtotal	N/A	\$3,255,795	\$3,255,795	\$3,255,795	\$3,621,292
Participant Benefits					
Bill Reduction - Electric	\$7,125,991	N/A	N/A	N/A	N/A
Rebates from Xcel Energy	\$381,715	N/A	N/A	\$381,715	\$381,715
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0
Subtotal	\$7,507,706	N/A	N/A	\$381,715	\$381,715
Total Benefits	\$7,507,706	\$3,255,795	\$3,255,795	\$3,637,510	\$4,003,007
Costs					
Utility Project Costs					
Customer Services	N/A	\$0	\$0	\$0	\$0
Utility Administration	N/A	\$506,099	\$506,099	\$506,099	\$506,099
Advertising & Promotion	N/A	\$37,743	\$37,743	\$37,743	\$37,743
Measurement & Verification	N/A	\$0	\$0	\$0	\$0
Rebates	N/A	\$381,715	\$381,715	\$381,715	\$381,715
Other	N/A	\$0	\$0	\$0	\$0
Subtotal	N/A	\$925,557	\$925,557	\$925,557	\$925,557
Utility Revenue Reduction					
Revenue Reduction - Electric	N/A	N/A	\$7,125,991	N/A	N/A
Subtotal	N/A	N/A	\$7,125,991	N/A	N/A
Participant Costs					
Incremental Capital Costs	\$944,512	N/A	N/A	\$944,512	\$944,512
Incremental O&M Costs	\$141,222	N/A	N/A	\$141,222	\$141,222
Subtotal	\$1,085,733	N/A	N/A	\$1,085,733	\$1,085,733
Total Costs	\$1,085,733	\$925,557	\$8,051,548	\$2,011,291	\$2,011,291
Net Benefit (Cost)	\$6,421,973	\$2,330,238	(\$4,795,753)	\$1,626,220	\$1,991,716
Benefit/Cost Ratio	6.91	3.52	0.40	1.81	1.99

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

2024 ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW		
Lifetime (Weighted on Generator kWh)	A	15.8 years
Annual Hours	B	8760
Gross Customer kW	C	1 kW
Generator Peak Coincidence Factor	D	39.31%
Gross Load Factor at Customer	E	11.64%
Transmission Loss Factor (Energy)	F	4.795%
Transmission Loss Factor (Demand)	G	6.507%
Societal Net Benefit (Cost)	H	\$385

Program Summary per Participant

Gross kW Saved at Customer	I	0.10 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G)$	0.04 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I)$	106 kWh
Net Annual kWh Saved at Generator	$(B \times E \times I) / (1 - F)$	111 kWh

Program Summary All Participants

Total Participants	J	50,008
Total Budget	K	\$925,557
Gross kW Saved at Customer	$(J \times I)$	5,179.48 kW
Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	2,178 kW
Gross Annual kWh Saved at Customer	$(B \times E \times I) \times J$	5,283,340 kWh
Net Annual kWh Saved at Generator	$((B \times E \times I) / (1 - F)) \times J$	5,549,423 kWh
Societal Net Benefits	$(J \times I \times H)$	\$1,991,716

Utility Program Cost per kWh Lifetime	\$0.0105
Utility Program Cost per kW at Gen	\$425