	Exe	cut	tive Sur	nmary T	Table - 2	018			
2018	Electric Participants		Electric Budget	Generator kW	Generator kWh	Participant Test Ratio	Utility Test Ratio	Ratepayer Impact Measure Test Ratio	TRC Ratio
Business Segment									
Lighting Efficiency	170	\$	389,520	425	3,364,827	2.15	4.91	0.50	1.06
Business Saver's Switch	12	\$	37,213	44	108	INF	1.28	0.64	1.28
Peak and Energy Control	1	\$	10,000	102	3,707	INF	4.71	1.80	4.71
Business Segment Total	183	\$	436,733	571	3,368,641	2.18	4.59	0.51	1.08
Residential Segment									
Home Lighting	3,225	\$	109,598	162	1,480,452	3.77	3.10	0.37	1.22
Residential Saver's Switch	770	\$	187,913	565	1,486	INF	3.28	0.86	3.28
Consumer Education	68,000	\$	27,165			-	-	-	-
Residential Segment Total	71,995	\$	324,676	727	1,481,938	5.99	2.95	0.57	1.85
Planning Segment									
Regulatory Affairs	0	\$	13,000	0	0				
Planning Segment Total	0	\$	13,000	0	0				
PORTFOLIO TOTAL	72,178	\$	774,408	1,299	4,850,580	2.63	3.83	0.53	1.23

LIGHTING EFFICIENCY	<i>I</i>					2018 ELEC	TRIC	GOAL
2018 Net Present Cost Benefit Summ	nary Analysis For Al	l Participants				Input Summary and Totals		
			Rate	Total		Program "Inputs" per Customer kW		
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	18.3 years
	Test	Test	Test	Test	Test	Annual Hours	В	8760
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW
Benefits						Generator Peak Coincidence Factor	D	55.82%
						Gross Load Factor at Customer	E	51.88%
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	F	4.710%
Generation	N/A	\$312,189	\$312,189	\$312,189	\$312,189	Transmission Loss Factor (Demand)	G	7.380%
T & D	N/A	\$190,166	\$190,166	\$190,166	\$190,166	Societal Net Benefit (Cost)	H	\$174
Marginal Energy	N/A	\$1,409,222	\$1,409,222	\$1,409,222	\$1,409,222	overein recepent (000)	**	4171
Environmental Externality	N/A	N/A	N/A	N/A	\$0			
Subtotal	N/A	\$1,911,578	\$1,911,578	\$1,911,578	\$1,911,578	Program Summary per Participant		
	- 1,	4-1,1,	# - 1, 1, - 1	4-1/10-10	4-1/10-0	Gross kW Saved at Customer	I	4.15 kW
Participant Benefits						Net coincident kW Saved at Generator	(I x D) / (1 - G)	2.50 kW
Bill Reduction - Electric	\$3,443,645	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(B x E x I)	18,861 kWh
Rebates from Xcel Energy	\$373,290	N/A	N/A	\$373,290	\$373,290	Net Annual kWh Saved at Generator	(B x E x I) / (1 - F)	19,793 kWh
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0			
Subtotal	\$3,816,935	N/A	N/A	\$373,290	\$373,290	Program Summary All Participants		
						Total Participants	J	170
Total Benefits	\$3,816,935	\$1,911,578	\$1,911,578	\$2,284,868	\$2,284,868	Total Budget	K	\$389,520
Costs						Gross kW Saved at Customer	(J x I)	706 kW
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	425 kW
Utility Project Costs						Gross Annual kWh Saved at Customer	(BxExI)xI	3,206,344 kWh
Customer Services	N/A	\$10,000	\$10,000	\$10,000	\$10,000	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	3,364,827 kWh
Utility Administration	N/A	\$2,500	\$2,500	\$2,500	\$2,500	Societal Net Benefits	(J x I x H)	\$122,599
Advertising & Promotion	N/A	\$3,730	\$3,730	\$3,730	\$3,730	·		
Measurement & Verification	N/A	\$0	\$0	\$0	\$0	<u></u>		
Rebates	N/A	\$373,290	\$373,290	\$373,290	\$373,290	Utility Program Cost per kWh Lifetime		\$0.0063
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$916
Subtotal	N/A	\$389,520	\$389,520	\$389,520	\$389,520			
Utility Revenue Reduction								
Revenue Reduction - Electric	N/A	N/A	\$3,443,645	N/A	N/A			
Subtotal	N/A	N/A	\$3,443,645	N/A	N/A			
Participant Costs								
Incremental Capital Costs	\$1,698,596	N/A	N/A	\$1,698,596	\$1,698,596			
Incremental O&M Costs			N/A					

\$1,772,749

\$2,162,269

\$122,599

1.06

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

\$1,772,749

\$1,772,749

\$2,044,187

2.15

N/A

4.91

\$389,520

\$1,522,058

N/A

0.50

\$3,833,165

(\$1,921,588)

\$1,772,749

\$2,162,269

\$122,599

1.06

Subtotal

Total Costs

Net Benefit (Cost)

BUSINESS SAVER'S SWI'	ГСН					2018 ELEC	CTRIC	GOAL
2018 Net Present Cost Benefit Summ	nary Analysis For Al	l Participants				Input Summary and Totals		
			Rate	Total		Program "Inputs" per Customer kW		
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	15.0 years
	Test	Test	Test	Test	Test	Annual Hours	В	8760
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW
Benefits						Generator Peak Coincidence Factor	D	20.00%
						Gross Load Factor at Customer	E	0.01%
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	F	4.710%
Generation	N/A	\$29,473	\$29,473	\$29,473	\$29,473	Transmission Loss Factor (Demand)	G	7.380%
T & D	N/A	\$17,929	\$17,929	\$17,929	\$17,929	Societal Net Benefit (Cost)	Н	\$51
Marginal Energy	N/A	\$65	\$65	\$65	\$65	Societai Net Benefit (Cost)	11	931
Environmental Externality	N/A	N/A	N/A	N/A	\$03 \$0			
Subtotal	N/A	\$47,467	\$47,467	\$47,467	\$47,467	Program Summary per Participant		
ouotoui.	11/11	ψ17,107	¥11,101	ų 11,101	911,101	Gross kW Saved at Customer	Ī	16.79 kW
Participant Benefits						Net coincident kW Saved at Generator	(I x D) / (1 - G)	3.63 kW
Bill Reduction - Electric	\$36,598	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(B x E x I)	9 kWh
Rebates from Xcel Energy	\$0	N/A	N/A	\$0	\$0	Net Annual kWh Saved at Generator	(BxExI)/(1-F)	9 kWh
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$ 0	\$0			
Subtotal	\$36,598	N/A	N/A	\$0	\$0	Program Summary All Participants		
						Total Participants	J	12
Total Benefits	\$36,598	\$47,467	\$47,467	\$47,467	\$47,467	Total Budget	K	\$37,213
Costs						Gross kW Saved at Customer	(J x I)	201 kW
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	44 kW
Utility Project Costs						Gross Annual kWh Saved at Customer	(Bx E x I) x J	103 kWh
Customer Services	N/A	\$18,700	\$18,700	\$18,700	\$18,700	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	108 kWh
Utility Administration	N/A	\$16,750	\$16,750	\$16,750	\$16,750	Societal Net Benefits	(J x I x H)	\$10,254
Advertising & Promotion	N/A	\$1,763	\$1,763	\$1,763	\$1,763			
Measurement & Verification	N/A	\$0	\$0	\$0	\$0			
Rebates	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kWh Lifetime		\$23.0528
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$855
Subtotal	N/A	\$37,213	\$37,213	\$37,213	\$37,213			
Utility Revenue Reduction								
Revenue Reduction - Electric	N/A	N/A	\$36,598	N/A	N/A			
Subtotal	N/A	N/A	\$36,598	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			

\$0

\$37,213

\$10,254

1.28

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

\$0

\$0

\$36,598

INF

N/A

\$37,213

\$10,254

1.28

N/A

\$73,811

(\$26,344)

0.64

\$0

\$37,213

\$10,254

1.28

Subtotal

Total Costs

Net Benefit (Cost)

PEAK AND ENERGY CO	NTROL	- 	- 			2018 ELEC	TRIC	GOAL		
2018 Net Present Cost Benefit Summ	ary Analysis For Al	Participants				Input Summary and Totals				
			Rate	Total		Program "Inputs" per Customer kW				
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	Α	5.0 years		
	Test	Test	Test	Test	Test	Annual Hours	В	8760		
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	C	1 kW		
Benefits						Generator Peak Coincidence Factor	D	47.46%		
						Gross Load Factor at Customer	Е	0.20%		
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	F	4.710%		
Generation	N/A	\$28,718	\$28,718	\$28,718	\$28,718	Transmission Loss Factor (Demand)	G	7.380%		
T & D	N/A	\$17,381	\$17,381	\$17,381	\$17,381	Societal Net Benefit (Cost)	H	\$186		
Marginal Energy	N/A	\$1,027	\$1,027	\$1,027	\$1,027			4-00		
Environmental Externality	N/A	N/A	N/A	N/A	\$0					
Subtotal	N/A	\$47,127	\$47,127	\$47,127	\$47,127	Program Summary per Participant				
	,		. ,	. ,	. ,	Gross kW Saved at Customer	I	200.00 kW		
Participant Benefits						Net coincident kW Saved at Generator	(IxD)/(1-G)	102.48 kW		
Bill Reduction - Electric	\$16,162	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(B x E x I)	3,532 kWh		
Rebates from Xcel Energy	\$0	N/A	N/A	\$0	\$0	Net Annual kWh Saved at Generator	(B x E x I) / (1 - F)	3,707 kWh		
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0					
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0					
Subtotal	\$16,162	N/A	N/A	\$0	\$0	Program Summary All Participants				
						Total Participants	J	1		
Total Benefits	\$16,162	\$47,127	\$47,127	\$47,127	\$47,127	Total Budget	K	\$10,000		
Costs						Gross kW Saved at Customer	(J x I)	200 kW		
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	102 kW		
Utility Project Costs						Gross Annual kWh Saved at Customer	(Bx E x I) x J	3,532 kWh		
Customer Services	N/A	\$3,200	\$3,200	\$3,200	\$3,200	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	3,707 kWh		
Utility Administration	N/A	\$1,800	\$1,800	\$1,800	\$1,800	Societal Net Benefits	(J x I x H)	\$37,127		
Advertising & Promotion	N/A	\$5,000	\$5,000	\$5,000	\$5,000					
Measurement & Verification	N/A	\$0	\$0	\$0	\$0					
Rebates	N/A	\$ 0	\$0	\$0	\$0	Utility Program Cost per kWh Lifetime		\$0.5396		
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$98		
Subtotal	N/A	\$10,000	\$10,000	\$10,000	\$10,000					
Utility Revenue Reduction										
Revenue Reduction - Electric	N/A	N/A	\$16,162	N/A	N/A					
Subtotal	N/A	N/A	\$16,162	N/A	N/A					
Participant Costs										
Incremental Capital Costs	\$0	N/A	N/A	\$0	\$0					
			N/A							

\$0

\$10,000

\$37,127

4.71

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

Subtotal

Total Costs

Net Benefit (Cost)

Benefit/Cost Ratio

\$0

\$0

\$16,162

INF

N/A

\$10,000

\$37,127

4.71

N/A

\$26,162

\$20,964

1.80

\$0

\$10,000

\$37,127

4.71

BUSINESS SEGMENT TO	OTAL	•	•	•	•	2018 ELEC	TRIC	GOAL
2018 Net Present Cost Benefit Summ	nary Analysis For Al	l Participants				Input Summary and Totals		
			Rate	Total		Program "Inputs" per Customer kW		
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	18.3 years
	Test	Test	Test	Test	Test	Annual Hours	В	8760
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW
Benefits						Generator Peak Coincidence Factor	D	47.79%
						Gross Load Factor at Customer	E	33.10%
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	F	4.710%
Generation	N/A	\$370,380	\$370,380	\$370,380	\$370,380	Transmission Loss Factor (Demand)	G	7.380%
T & D	N/A	\$225,477	\$225,477	\$225,477	\$225,477	Societal Net Benefit (Cost)	Н	\$154
Marginal Energy	N/A	\$1,410,314	\$1,410,314	\$1,410,314	\$1,410,314	oocietai ivet benent (cost)		\$151
Environmental Externality	N/A	N/A	N/A	N/A	\$1,410,514			
Subtotal	N/A	\$2,006,171	\$2,006,171	\$2,006,171	\$2,006,171	Program Summary per Participant		
ouotoun.	11/11	Ψ 2 ,000,171	ψ 2, 000,171	Ψ 2 ,000,171	ψ 2, 000,171	Gross kW Saved at Customer	Ī	6.05 kW
Participant Benefits						Net coincident kW Saved at Generator	(IxD)/(1-G)	3.12 kW
Bill Reduction - Electric	\$3,496,406	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(BxExI)	17,541 kWh
Rebates from Xcel Energy	\$373,290	N/A	N/A	\$373,290	\$373,290	Net Annual kWh Saved at Generator	(B x E x I) / (1 - F)	18,408 kWh
Incremental Capital Savings	\$0	N/A	N/A	\$ 0	\$0	-		
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0			
Subtotal	\$3,869,696	N/A	N/A	\$373,290	\$373,290	Program Summary All Participants		
						Total Participants	J	183
Total Benefits	\$3,869,696	\$2,006,171	\$2,006,171	\$2,379,461	\$2,379,461	Total Budget	K	\$436,733
Costs					_	Gross kW Saved at Customer	(J x I)	1,107 kW
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	571 kW
Utility Project Costs						Gross Annual kWh Saved at Customer	(B x E x I) x J	3,209,978 kWh
Customer Services	N/A	\$31,900	\$31,900	\$31,900	\$31,900	Net Annual kWh Saved at Generator	$((B \times E \times I) / (1-F)) \times J$	3,368,641 kWh
Utility Administration	N/A	\$21,050	\$21,050	\$21,050	\$21,050	Societal Net Benefits	(J x I x H)	\$169,980
Advertising & Promotion	N/A	\$10,493	\$10,493	\$10,493	\$10,493	•		
Measurement & Verification	N/A	\$0	\$0	\$0	\$0			
Rebates	N/A	\$373,290	\$373,290	\$373,290	\$373,290	Utility Program Cost per kWh Lifetime		\$0.0071
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$765
Subtotal	N/A	\$436,733	\$436,733	\$436,733	\$436,733			
Utility Revenue Reduction								
Revenue Reduction - Electric	N/A	N/A	\$3,496,406	N/A	N/A			
Subtotal	N/A	N/A	\$3,496,406	N/A	N/A			
Participant Costs								
Incremental Capital Costs	\$1,698,596	N/A	N/A	\$1,698,596	\$1,698,596			
Incremental O&M Costs	\$74,152	N/A	N/A	\$74,152	\$74,152			

\$1,772,749

\$2,209,481

\$169,980

1.08

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

\$1,772,749

\$1,772,749

\$2,096,947

2.18

N/A

4.59

\$436,733

\$1,569,438

N/A

0.51

\$3,933,138

(\$1,926,967)

\$1,772,749

\$169,980

1.08

\$2,209,481

Subtotal

Total Costs

Net Benefit (Cost)

RESIDENTIAL HOME L	IGHTING					2018 ELEC	TRIC	GOAL		
2018 Net Present Cost Benefit Summ	nary Analysis For Al	l Participants				Input Summary and Totals				
			Rate	Total		Program "Inputs" per Customer kW				
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	5.7 years		
	Test	Test	Test	Test	Test	Annual Hours	В	8760		
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW		
Benefits						Generator Peak Coincidence Factor	D	11.70%		
						Gross Load Factor at Customer	Е	12.63%		
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	E	5.136%		
Generation	N/A	\$48,566	\$48,566	\$48,566	\$48,566	Transmission Loss Factor (Demand)	G	8.512%		
T & D	N/A			\$29,401		Societal Net Benefit (Cost)	Н			
	,	\$29,401	\$29,401		\$29,401	Societal Net Benefit (Cost)	П	\$60		
Marginal Energy	N/A	\$262,302	\$262,302	\$262,302	\$262,302					
Environmental Externality	N/A	N/A	N/A	N/A	\$0					
Subtotal	N/A	\$340,270	\$340,270	\$340,270	\$340,270	Program Summary per Participant	7	0.20.13%		
Participant Benefits						Gross kW Saved at Customer Net coincident kW Saved at Generator	(I x D) / (1 - G)	0.39 kW 0.05 kW		
Bill Reduction - Electric	\$816,536	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(BxExI)	435 kWh		
Rebates from Xcel Energy	\$83,898	N/A	N/A	\$83,898	\$83,898	Net Annual kWh Saved at Generator	(BxExI) (BxExI)/(1-F)	459 kWh		
Incremental Capital Savings	\$05,090	N/A	N/A	\$0	\$0	1 vet mindal kwii baved at Generator	(BXEXT) / (1 1)	137 KWII		
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0					
Subtotal	\$900,434	N/A	N/A	\$83,898	\$83,898	Program Summary All Participants				
	,	,	,	, ,	, ,	Total Participants	J	3,225		
Total Benefits	\$900,434	\$340,270	\$340,270	\$424,168	\$424,168	Total Budget	K	\$109,598		
Costs						Gross kW Saved at Customer	(J x I)	1,269 kW		
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	162 kW		
Utility Project Costs						Gross Annual kWh Saved at Customer	(B x E x I) x J	1,404,421 kWh		
Customer Services	N/A	\$21,000	\$21,000	\$21,000	\$21,000	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	1,480,452 kWh		
Utility Administration	N/A	\$0	\$0	\$0	\$0	Societal Net Benefits	(IxIxH)	\$75,843		
Advertising & Promotion	N/A	\$4,700	\$4,700	\$4,700	\$4,700		, , , , , , , , , , , , , , , , , , ,	·		
Measurement & Verification	N/A	\$0	\$0	\$0	\$0					
Rebates	N/A	\$83,898	\$83,898	\$83,898	\$83,898	Utility Program Cost per kWh Lifetime		\$0.0129		
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$675		
Subtotal	N/A	\$109,598	\$109,598	\$109,598	\$109,598					
Utility Revenue Reduction										
Revenue Reduction - Electric	N/A	N/A	\$816,536	N/A	N/A					
Subtotal	N/A	N/A	\$816,536	N/A	N/A					
Participant Costs										
Incremental Capital Costs	\$238,727	N/A	N/A	\$238,727	\$238,727					
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0					
		7.								

\$238,727

\$348,325

\$75,843

1.22

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

\$238,727

\$238,727

\$661,708

3.77

N/A

\$109,598

\$230,672

3.10

N/A

\$926,134

(\$585,864)

0.37

\$238,727

\$348,325

\$75,843

1.22

Subtotal

Total Costs

Net Benefit (Cost)

SWITCH					2018 ELEC	CTRIC	GOAL
ary Analysis For All	Participants				Input Summary and Totals		
		Rate	Total		Program "Inputs" per Customer kW		
Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	15.0 years
Test	Test	Test	Test	Test	Annual Hours	В	8760
(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW
					Generator Peak Coincidence Factor	D	27.31%
					Gross Load Factor at Customer	E	0.01%
					Transmission Loss Factor (Energy)	F	5,260%
N/A	\$382,722	\$382,722	\$382,722	\$382,722	(877	G	8.580%
,			" "	. ,	,		\$226
,						**	422 0
,							
					Program Summary per Participant		
- 1,7	# 0 - 0,=0 -	# · · · · · · · · · · · · · · · · · · ·	# v - v , _ v -	# 0 - 0 - 0 -		I	2.46 kW
					Net coincident kW Saved at Generator	(I x D) / (1 - G)	0.73 kW
\$528,934	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(B x E x I)	2 kWh
\$0	N/A	N/A	\$0	\$ 0	Net Annual kWh Saved at Generator	(BxExI)/(1-F)	2 kWh
\$0			\$0				
\$528,934	N/A	N/A	\$ 0	\$0			
					Total Participants	J	770
\$528,934	\$616,239	\$616,239	\$616,239	\$616,239	Total Budget	K	\$187,913
					Gross kW Saved at Customer	(J x I)	1,892 kW
					Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times I$	565 kW
					Gross Annual kWh Saved at Customer	(B x E x I) x I	1,408 kWh
N/A	\$96,550	\$96,550	\$96,550	\$96,550	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	1,486 kWh
N/A	\$82,100	\$82,100	\$82,100	\$82,100	Societal Net Benefits	(J x I x H)	\$428,327
	\$9,263	\$9,263	\$9,263	\$9,263			
							\$8.4313
					Utility Program Cost per kW at Gen		\$333
N/A	\$187,913	\$187,913	\$187,913	\$187,913			
N/A				N/A			
N/A	N/A	\$528,934	N/A	N/A			
\$0	N/A	N/A	\$0	\$0			
	Participant Test (\$Total) N/A N/A N/A N/A N/A N/A \$528,934 \$0 \$0 \$0 \$528,934 \$528,934 \$528,934 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/	Participant Utility Test Test (\$Total) N/A \$382,722 N/A \$232,819 N/A \$608 N/A N/A N/A \$616,239 \$528,934 N/A \$0 N/A \$0 N/A \$528,934 N/A \$50 N/A \$528,934 N/A \$50 N/A \$528,934 N/A \$50 N/A \$528,934 N/A \$516,239	N/A \$382,722 \$382,722 N/A \$40,239 \$616,239	Participant Utility Impact Resource Test Test Test (\$Total) (\$Total) (\$Total)	Participant Utility Impact Resource Societal Test Test Test Test (\$Total) (\$T	Input Summary and Totals Program "Inputs" per Customer kW	Input Summary and Totals

\$0

\$187,913

\$428,327

3.28

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

\$0

\$0

INF

\$528,934

N/A

3.28

\$187,913

\$428,327

N/A

\$716,847

(\$100,608)

0.86

\$0

\$187,913

\$428,327

3.28

Subtotal

Total Costs

Net Benefit (Cost)

RESIDENTIAL SEGMEN	T TOTAL			•	•	2018 ELEC	CTRIC	GOAL		
2018 Net Present Cost Benefit Summ	nary Analysis For Al	l Participants				Input Summary and Totals				
			Rate	Total		Program "Inputs" per Customer kW				
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	5.8 years		
	Test	Test	Test	Test	Test	Annual Hours	В	8760		
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW		
Benefits						Generator Peak Coincidence Factor	D	21.04%		
						Gross Load Factor at Customer	E	5.08%		
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	E	5.136%		
Generation	N/A	\$431,288	\$431,288	\$431,288	\$431,288	Transmission Loss Factor (Demand)	G	8.553%		
T & D	N/A	\$262,220	\$262,220	\$262,220	\$262,220	Societal Net Benefit (Cost)	Н	\$151		
Marginal Energy	N/A	\$263,001	\$263,001	\$263,001	\$263,001	Societai ivet Benefit (Cost)	11	\$131		
Environmental Externality	N/A	\$203,001 N/A	\$205,001 N/A	\$265,001 N/A	\$203,001 \$0					
Subtotal	N/A	\$956,509	\$956,509	\$956,509	\$956,509	Program Summary per Participant				
Subtotal	14/11	\$750,507	\$750,507	\$750,507	2730,307	Gross kW Saved at Customer	Ī	0.04 kW		
Participant Benefits						Net coincident kW Saved at Generator	(I x D) / (1 - G)	0.01 kW		
Bill Reduction - Electric	\$1,345,471	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(B x E x I)	20 kWh		
Rebates from Xcel Energy	\$83,898	N/A	N/A	\$83,898	\$83,898	Net Annual kWh Saved at Generator	(BxExI)/(1-F)	21 kWh		
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0		, , ,			
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0					
Subtotal	\$1,429,369	N/A	N/A	\$83,898	\$83,898	Program Summary All Participants				
						Total Participants	J	71,995		
Total Benefits	\$1,429,369	\$956,509	\$956,509	\$1,040,407	\$1,040,407	Total Budget	K	\$324,676		
Costs						Gross kW Saved at Customer	(J x I)	3,161 kW		
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	727 kW		
Utility Project Costs						Gross Annual kWh Saved at Customer	(BxExI)xI	1,405,829 kWh		
Customer Services	N/A	\$117,550	\$117,550	\$117,550	\$117,550	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	1,481,938 kWh		
Utility Administration	N/A	\$83,900	\$83,900	\$83,900	\$83,900	Societal Net Benefits	(J x I x H)	\$477,005		
Advertising & Promotion	N/A	\$39,328	\$39,328	\$39,328	\$39,328					
Measurement & Verification	N/A	\$0	\$0	\$0	\$0					
Rebates	N/A	\$83,898	\$83,898	\$83,898	\$83,898	Utility Program Cost per kWh Lifetime		\$0.0380		
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$446		
Subtotal	N/A	\$324,676	\$324,676	\$324,676	\$324,676					
Utility Revenue Reduction										
Revenue Reduction - Electric	N/A	N/A	\$1,345,471	N/A	N/A					
Subtotal	N/A	N/A	\$1,345,471	N/A	N/A					
Participant Costs										
Incremental Capital Costs	\$238,727	N/A	N/A	\$238,727	\$238,727					
Incremental O&M Costs	\$0	N/A	N/A	\$0	\$0					

\$238,727

\$563,402

\$477,005

1.85

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

\$238,727

\$238,727

\$1,190,642

5.99

N/A

\$324,676

\$631,834

2.95

N/A

\$1,670,146

(\$713,637)

0.57

\$238,727

\$563,402

\$477,005

1.85

Subtotal

Total Costs

Net Benefit (Cost)

PORTFOLIO TOTAL					<u> </u>	2018 ELEC	TRIC	GOAL
2018 Net Present Cost Benefit Summ	nary Analysis For Al	1 Participants				Input Summary and Totals		
			Rate	Total		Program "Inputs" per Customer kW		
	Participant	Utility	Impact	Resource	Societal	Lifetime (Weighted on Generator kWh)	A	14.5 years
	Test	Test	Test	Test	Test	Annual Hours	В	8760
	(\$Total)	(\$Total)	(\$Total)	(\$Total)	(\$Total)	Gross Customer kW	С	1 kW
Benefits						Generator Peak Coincidence Factor	D	27.92%
						Gross Load Factor at Customer	E	12.35%
Avoided Revenue Requirements						Transmission Loss Factor (Energy)	F	4.840%
Generation	N/A	\$801,668	\$801,668	\$801,668	\$801,668	Transmission Loss Factor (Demand)	G	8.251%
T & D	N/A	\$487,697	\$487,697	\$487,697	\$487,697	Societal Net Benefit (Cost)	Н	\$149
Marginal Energy	N/A	\$1,673,315	\$1,673,315	\$1,673,315	\$1,673,315	occetai ivet beliefit (Gost)		ŲI I)
Environmental Externality	N/A	N/A	N/A	N/A	\$1,075,515			
Subtotal	N/A	\$2,962,680	\$2,962,680	\$2,962,680	\$2,962,680	Program Summary per Participant		
oubtour .	11/11	¥2,702,000	<i>\$2,702,000</i>	<i>\$2,702,000</i>	¥2,202,000	Gross kW Saved at Customer	I	0.06 kW
Participant Benefits						Net coincident kW Saved at Generator	(IxD)/(1-G)	0.02 kW
Bill Reduction - Electric	\$4,841,876	N/A	N/A	N/A	N/A	Gross Annual kWh Saved at Customer	(BxExI)	64 kWh
Rebates from Xcel Energy	\$457,188	N/A	N/A	\$457,188	\$457,188	Net Annual kWh Saved at Generator	(BxExI)/(1-F)	67 kWh
Incremental Capital Savings	\$0	N/A	N/A	\$0	\$0			
Incremental O&M Savings	\$0	N/A	N/A	\$0	\$0			
Subtotal	\$5,299,064	N/A	N/A	\$457,188	\$457,188	Program Summary All Participants		
						Total Participants	J	72,178
Total Benefits	\$5,299,064	\$2,962,680	\$2,962,680	\$3,419,868	\$3,419,868	Total Budget	K	\$774,408
Costs						Gross kW Saved at Customer	(J x I)	4,268 kW
						Net coincident kW Saved at Generator	$(I \times D) / (1 - G) \times J$	1,299 kW
Utility Project Costs						Gross Annual kWh Saved at Customer	(B x E x I) x J	4,615,807 kWh
Customer Services	N/A	\$149,450	\$149,450	\$149,450	\$149,450	Net Annual kWh Saved at Generator	$((B \times E \times I)/(1-F)) \times J$	4,850,580 kWh
Utility Administration	N/A	\$117,950	\$117,950	\$117,950	\$117,950	Societal Net Benefits	(J x I x H)	\$633,985
Advertising & Promotion	N/A	\$49,820	\$49,820	\$49,820	\$49,820			
Measurement & Verification	N/A	\$0	\$0	\$0	\$0			
Rebates	N/A	\$457,188	\$457,188	\$457,188	\$457,188	Utility Program Cost per kWh Lifetime		\$0.0110
Other	N/A	\$0	\$0	\$0	\$0	Utility Program Cost per kW at Gen		\$596
Subtotal	N/A	\$774,408	\$774,408	\$774,408	\$774,408			
Utility Revenue Reduction								
Revenue Reduction - Electric	N/A	N/A	\$4,841,876	N/A	N/A			
Subtotal	N/A	N/A	\$4,841,876	N/A	N/A			
Participant Costs								
Incremental Capital Costs	\$1,937,323	N/A	N/A	\$1,937,323	\$1,937,323			
Incremental O&M Costs	\$74,152	N/A	N/A	\$74,152	\$74,152			

\$2,011,475

\$2,785,883

\$633,985

1.23

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

\$2,011,475

\$2,011,475

\$3,287,589

2.63

N/A

3.83

\$774,408

\$2,188,272

N/A

0.53

\$5,616,284

(\$2,653,604)

\$2,011,475

\$2,785,883

\$633,985

1.23

Subtotal

Total Costs

Net Benefit (Cost)