

Appendix D

Program Aggregations

2024 South Dakota Status Report - Direct Impact - Residential Air Conditioning Control

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	13.46	2.14	2.34	2.35	2.32	3.32
TRC Test	13.46	2.14	2.34	2.35	2.32	3.32
RIM Test	7.79	1.29	1.36	1.36	1.34	1.87
RIM (Net Fuel) Test	7.79	1.29	1.36	1.36	1.34	1.87
Societal Test	13.46	2.14	2.34	2.35	2.32	3.32
Participant Test	0.00	0.00	0.00	0.00	0.00	0.00

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$58,219.22	\$4,324.69	\$53,894.53	13.46	Utility (PAC) Test
\$58,219.22	\$4,324.69	\$53,894.53	13.46	TRC Test
\$58,219.22	\$7,473.51	\$50,745.71	7.79	RIM Test
\$58,219.22	\$7,473.51	\$50,745.71	7.79	RIM (Net Fuel) Test
\$58,219.22	\$4,324.69	\$53,894.53	13.46	Societal Test
\$3,148.82	\$0.00	\$3,148.82	N/A	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$955.07	\$494.70	\$1,355.38	\$1,401.47	\$1,272.29	\$5,578.16
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$48,486.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$58,219.22	\$9,272.70	\$10,133.39	\$10,179.47	\$10,050.29	\$14,356.16
Administration Costs	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84
Implementation / Participation Costs	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	13.46	2.14	2.34	2.35	2.32	3.32
TRC Test						
Avoided Electric Production	\$955.07	\$494.70	\$1,355.38	\$1,401.47	\$1,272.29	\$5,578.16
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$48,486.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$58,219.22	\$9,272.70	\$10,133.39	\$10,179.47	\$10,050.29	\$14,356.16
Administration Costs	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84
Implementation / Participation Costs	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	13.46	2.14	2.34	2.35	2.32	3.32
RIM Test						
Avoided Electric Production	\$955.07	\$494.70	\$1,355.38	\$1,401.47	\$1,272.29	\$5,578.16
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$48,486.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$58,219.22	\$9,272.70	\$10,133.39	\$10,179.47	\$10,050.29	\$14,356.16
Administration Costs	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84
Implementation / Participation Costs	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$3,148.82	\$2,848.52	\$3,148.82	\$3,148.82	\$3,148.82	\$3,354.32
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,148.82	\$2,848.52	\$3,148.82	\$3,148.82	\$3,148.82	\$3,354.32
Electric Lost Revenue (Net Fuel)	\$3,148.82	\$2,848.52	\$3,148.82	\$3,148.82	\$3,148.82	\$3,354.32
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,148.82	\$2,848.52	\$3,148.82	\$3,148.82	\$3,148.82	\$3,354.32
Test Results	7.79	1.29	1.36	1.36	1.34	1.87
Societal Test						
Avoided Electric Production	\$955.07	\$494.70	\$1,355.38	\$1,401.47	\$1,272.29	\$5,578.16
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$48,486.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00	\$8,778.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$58,219.22	\$9,272.70	\$10,133.39	\$10,179.47	\$10,050.29	\$14,356.16
Administration Costs	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84	\$3,909.84
Implementation / Participation Costs	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85	\$414.85
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69	\$4,324.69
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	13.46	2.14	2.34	2.35	2.32	3.32
Participant Test						
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$3,148.82	\$2,848.52	\$3,148.82	\$3,148.82	\$3,148.82	\$3,354.32
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,148.82	\$2,848.52	\$3,148.82	\$3,148.82	\$3,148.82	\$3,354.32
Test Results	N/A	N/A	N/A	N/A	N/A	N/A

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	460.84	460.84	460.84	460.84	460.84	460.84
kWh (Discounted)	27,650.62	25,013.61	27,650.62	27,650.62	27,650.62	29,455.16
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	460.84	460.84	460.84	460.84	460.84	460.84
kWh (Undiscounted)	27,650.62	25,013.61	27,650.62	27,650.62	27,650.62	29,455.16
CCF (Undiscounted)	-	-	-	-	-	-

Participants	kWh	Summer kW	Winter kW	
665	27,651	461	0	Generator
	25,057	418	0	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$3,909.84	\$414.85	\$0.00	\$0.00	\$4,324.69

2024 South Dakota Status Report - Direct Impact - Residential Air Conditioning Control

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs Gross			Total Participant Costs Net Free Riders / Drop-Out		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
	665	0	665	0	665	665	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	665	0	665	0	665	665	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	665	0	665	0	665	665	\$0	\$0	\$0	\$0	\$0	\$0

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	kW	kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	0.693	0.693	0.693	0.693	0.000	0.000	41.58	41.58	461	461	461	461	0	0	27,651
2	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
3	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
4	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
5	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
6	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
7	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
8	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
9	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
10	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
11	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
12	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							42	42							

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$4.74	\$0.00	\$4.74	\$3,148.82	\$0.00	\$3,148.82	\$3,148.82	\$0.00	\$3,148.82
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$4.74	\$0.00	\$4.74	\$3,148.82	\$0.00	\$3,148.82	\$3,148.82	\$0.00	\$3,148.82

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$3,909.84	\$414.85	\$0.00	\$0.00	\$4,324.69	\$9.38	\$9.38	\$0.16	\$0.16	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$3,909.84	\$414.85	\$0.00	\$0.00	\$4,324.69	\$9.38	\$9.38	\$0.16	\$0.16	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Air Conditioning Control

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$1,355.38	\$0.00	\$8,778.00	\$0.00	\$10,133.39	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,355.38	\$0.00	\$8,778.00	\$0.00	\$10,133.39	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$955.07	\$48,486.15	\$8,778.00	\$0.00	\$58,219.22	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$955.07	\$48,486.15	\$8,778.00	\$0.00	\$58,219.22	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$1,272.29	\$0.00	\$8,778.00	\$0.00	\$10,050.29
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,272.29	\$0.00	\$8,778.00	\$0.00	\$10,050.29

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$955.07	\$48,486.15	\$8,778.00	\$0.00	\$58,219.22
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$955.07		\$48,486.15	\$8,778.00	\$0.00	\$58,219.22
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Heat Pumps

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	3.85	2.38	4.11	4.24	3.88	14.42
TRC Test	1.55	0.96	1.65	1.70	1.56	5.79
RIM Test	0.35	0.22	0.37	0.38	0.35	1.26
RIM (Net Fuel)	0.35	0.22	0.37	0.38	0.35	1.26
Societal Test	2.05	1.28	2.20	2.27	2.08	7.73
Participant Test	5.92	5.69	5.92	5.92	5.92	6.11

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$311,855.94	\$247,879.36	\$443,581.80	\$458,608.25	\$418,418.73	\$1,615,852.48
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$102,760.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$437,520.63	\$270,783.79	\$466,486.24	\$481,512.68	\$441,323.16	\$1,638,756.91
Administration Costs	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94
Implementation / Participation Costs	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00
Total	\$113,632.39	\$113,632.39	\$113,632.39	\$113,632.39	\$113,632.39	\$113,632.39
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

TRC Test						
Avoided Electric Production	\$311,855.94	\$247,879.36	\$443,581.80	\$458,608.25	\$418,418.73	\$1,615,852.48
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$102,760.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$437,520.63	\$270,783.79	\$466,486.24	\$481,512.68	\$441,323.16	\$1,638,756.91
Administration Costs	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94
Implementation / Participation Costs	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$9,507.39	\$9,507.39	\$9,507.39	\$9,507.39	\$9,507.39	\$9,507.39
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.55	0.96	1.65	1.70	1.56	5.79

RIM Test						
Avoided Electric Production	\$311,855.94	\$247,879.36	\$443,581.80	\$458,608.25	\$418,418.73	\$1,615,852.48
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$102,760.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43	\$22,904.43
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$437,520.63	\$270,783.79	\$466,486.24	\$481,512.68	\$441,323.16	\$1,638,756.91
Administration Costs	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94
Implementation / Participation Costs	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00
Total	\$113,632.39	\$113,632.39	\$113,632.39	\$113,632.39	\$113,632.39	\$113,632.39
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$1,147,599.73	\$1,099,473.39	\$1,147,599.73	\$1,147,599.73	\$1,147,599.73	\$1,186,844.70
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,147,599.73	\$1,099,473.39	\$1,147,599.73	\$1,147,599.73	\$1,147,599.73	\$1,186,844.70
Electric Lost Revenue (Net Fuel)	\$1,147,599.73	\$1,099,473.39	\$1,147,599.73	\$1,147,599.73	\$1,147,599.73	\$1,186,844.70
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,147,599.73	\$1,099,473.39	\$1,147,599.73	\$1,147,599.73	\$1,147,599.73	\$1,186,844.70
Test Results	0.35	0.22	0.37	0.38	0.35	1.26

Societal Test						
Avoided Electric Production	\$416,127.27	\$330,759.64	\$591,896.64	\$611,947.29	\$558,320.11	\$2,156,124.64
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$132,809.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$30,440.04	\$30,440.04	\$30,440.04	\$30,440.04	\$30,440.04	\$30,440.04
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$579,377.24	\$361,199.68	\$622,336.69	\$642,387.33	\$588,760.15	\$2,186,564.69
Administration Costs	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94	\$7,045.94
Implementation / Participation Costs	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45	\$2,461.45
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$9,507.39	\$9,507.39	\$9,507.39	\$9,507.39	\$9,507.39	\$9,507.39
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.05	1.28	2.20	2.27	2.08	7.73

Participant Test						
Incentives	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00	\$104,125.00
Participant or Unit Costs (Gross)	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00	\$273,347.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$1,513,330.09	\$1,449,866.29	\$1,513,330.09	\$1,513,330.09	\$1,513,330.09	\$1,565,082.11
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,513,330.09	\$1,449,866.29	\$1,513,330.09	\$1,513,330.09	\$1,513,330.09	\$1,565,082.11
Test Results	5.92	5.69	5.92	5.92	5.92	6.11

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	1,637.69	1,637.69	1,637.69	1,637.69	1,637.69	1,637.69
kWh (Discounted)	16,070,744.97	15,407,667.46	16,070,744.97	16,070,744.97	16,070,744.97	16,650,016.50
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	1,637.69	1,637.69	1,637.69	1,637.69	1,637.69	1,637.69
kWh (Undiscounted)	16,070,744.97	15,407,667.46	16,070,744.97	16,070,744.97	16,070,744.97	16,650,016.50
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$437,520.63	\$113,632.39	\$323,888.24	3.85	Utility (PAC) Test
\$437,520.63	\$282,854.39	\$154,666.24	1.55	TRC Test
\$437,520.63	\$1,261,232.12	(\$823,711.49)	0.35	RIM Test
\$437,520.63	\$1,261,232.12	(\$823,711.49)	0.35	RIM (Net Fuel) Test
\$579,377.24	\$282,854.39	\$296,522.85	2.05	Societal Test
\$1,617,455.09	\$273,347.00	\$1,344,108.09	5.92	Participant Test

Participants	kWh	Summer kW	Winter kW	Generator Meter
82	10,893	92	0	
	9,871	83	0	

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$7,045.94	\$2,461.45	\$0.00	\$104,125.00	\$113,632.39

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	82	0	82	0	82	82	\$273,347.00	\$0.00	\$273,347.00	\$273,347.00	\$0.00	\$273,347.00
2	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	82	0	82	82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	78	0	78	78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	82	0	1,444	0	1,444	1,444	\$273,347	\$0	\$273,347	\$273,347	\$0	\$273,347

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
2	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
3	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
4	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
5	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
6	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
7	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
8	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
9	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
10	1.265	1.265	1.120	1.120	0.000	0.000	10,893.03	10,893.03	104	104	92	92	0	0	893,229
11	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
12	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
13	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
14	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
15	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
16	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
17	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
18	1.302	1.302	1.153	1.153	0.000	0.000	11,439.84	11,439.84	102	102	90	90	0	0	892,307
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							200,449	200,449							

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$1,139.85	\$0.00	\$1,139.85	\$93,467.80	\$0.00	\$93,467.80	\$93,467.80	\$0.00	\$93,467.80
2	\$1,162.65	\$0.00	\$1,162.65	\$95,337.16	\$0.00	\$95,337.16	\$95,337.16	\$0.00	\$95,337.16
3	\$1,185.90	\$0.00	\$1,185.90	\$97,243.90	\$0.00	\$97,243.90	\$97,243.90	\$0.00	\$97,243.90
4	\$1,209.62	\$0.00	\$1,209.62	\$99,188.78	\$0.00	\$99,188.78	\$99,188.78	\$0.00	\$99,188.78
5	\$1,233.81	\$0.00	\$1,233.81	\$101,172.55	\$0.00	\$101,172.55	\$101,172.55	\$0.00	\$101,172.55
6	\$1,258.49	\$0.00	\$1,258.49	\$103,196.00	\$0.00	\$103,196.00	\$103,196.00	\$0.00	\$103,196.00
7	\$1,283.66	\$0.00	\$1,283.66	\$105,259.92	\$0.00	\$105,259.92	\$105,259.92	\$0.00	\$105,259.92
8	\$1,309.33	\$0.00	\$1,309.33	\$107,365.12	\$0.00	\$107,365.12	\$107,365.12	\$0.00	\$107,365.12
9	\$1,335.52	\$0.00	\$1,335.52	\$109,512.42	\$0.00	\$109,512.42	\$109,512.42	\$0.00	\$109,512.42
10	\$1,362.23	\$0.00	\$1,362.23	\$111,702.67	\$0.00	\$111,702.67	\$111,702.67	\$0.00	\$111,702.67
11	\$1,459.22	\$0.00	\$1,459.22	\$113,819.17	\$0.00	\$113,819.17	\$113,819.17	\$0.00	\$113,819.17
12	\$1,488.40	\$0.00	\$1,488.40	\$116,095.55	\$0.00	\$116,095.55	\$116,095.55	\$0.00	\$116,095.55
13	\$1,518.17	\$0.00	\$1,518.17	\$118,417.47	\$0.00	\$118,417.47	\$118,417.47	\$0.00	\$118,417.47
14	\$1,548.54	\$0.00	\$1,548.54	\$120,785.82	\$0.00	\$120,785.82	\$120,785.82	\$0.00	\$120,785.82
15	\$1,579.51	\$0.00	\$1,579.51	\$123,201.53	\$0.00	\$123,201.53	\$123,201.53	\$0.00	\$123,201.53
16	\$1,611.10	\$0.00	\$1,611.10	\$125,665.56	\$0.00	\$125,665.56	\$125,665.56	\$0.00	\$125,665.56
17	\$1,643.32	\$0.00	\$1,643.32	\$128,178.87	\$0.00	\$128,178.87	\$128,178.87	\$0.00	\$128,178.87
18	\$1,676.19	\$0.00	\$1,676.19	\$130,742.45	\$0.00	\$130,742.45	\$130,742.45	\$0.00	\$130,742.45
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$25,005.49	\$0.00	\$25,005.49	\$2,000,352.76	\$0.00	\$2,000,352.76	\$2,000,352.76	\$0.00	\$2,000,352.76

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$7,045.94	\$2,461.45	\$104,125.00	\$0.00	\$113,632.39	\$1,237.42	\$1,237.42	\$1,096.73	\$1,096.73	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$7,045.94	\$2,461.45	\$104,125.00	\$0.00	\$113,632.39	\$1,237.42	\$1,237.42	\$1,096.73	\$1,096.73	\$0.00	\$0.00

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Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$40,239.18	\$0.00	\$1,749.14	\$0.00	\$41,988.33	\$0.00	\$0.00	\$0.00
2	\$34,404.69	\$0.00	\$1,801.62	\$0.00	\$36,206.31	\$0.00	\$0.00	\$0.00
3	\$35,575.21	\$0.00	\$1,855.67	\$0.00	\$37,430.87	\$0.00	\$0.00	\$0.00
4	\$37,016.02	\$0.00	\$1,911.34	\$0.00	\$38,927.36	\$0.00	\$0.00	\$0.00
5	\$37,588.18	\$0.00	\$1,968.68	\$0.00	\$39,556.86	\$0.00	\$0.00	\$0.00
6	\$37,158.83	\$0.00	\$2,027.74	\$0.00	\$39,186.57	\$0.00	\$0.00	\$0.00
7	\$36,991.19	\$0.00	\$2,088.57	\$0.00	\$39,079.76	\$0.00	\$0.00	\$0.00
8	\$37,434.98	\$0.00	\$2,151.23	\$0.00	\$39,586.20	\$0.00	\$0.00	\$0.00
9	\$37,867.69	\$0.00	\$2,215.76	\$0.00	\$40,083.45	\$0.00	\$0.00	\$0.00
10	\$38,665.53	\$0.00	\$2,282.24	\$0.00	\$40,947.76	\$0.00	\$0.00	\$0.00
11	\$40,796.30	\$0.00	\$2,301.91	\$0.00	\$43,098.21	\$0.00	\$0.00	\$0.00
12	\$45,706.29	\$0.00	\$2,370.97	\$0.00	\$48,077.26	\$0.00	\$0.00	\$0.00
13	\$46,656.34	\$0.00	\$2,442.10	\$0.00	\$49,098.44	\$0.00	\$0.00	\$0.00
14	\$49,593.70	\$0.00	\$2,515.36	\$0.00	\$52,109.06	\$0.00	\$0.00	\$0.00
15	\$52,847.66	\$0.00	\$2,590.82	\$0.00	\$55,438.48	\$0.00	\$0.00	\$0.00
16	\$58,117.00	\$0.00	\$2,668.55	\$0.00	\$60,785.55	\$0.00	\$0.00	\$0.00
17	\$60,264.63	\$0.00	\$2,748.61	\$0.00	\$63,013.23	\$0.00	\$0.00	\$0.00
18	\$65,647.50	\$0.00	\$2,831.06	\$0.00	\$68,478.57	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$792,570.90	\$0.00	\$40,521.38	\$0.00	\$833,092.28	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$28,289.77	\$9,661.57	\$1,749.14	\$0.00	\$39,700.48	\$0.00	\$0.00	\$0.00
2	\$24,187.89	\$9,661.57	\$1,801.62	\$0.00	\$35,651.07	\$0.00	\$0.00	\$0.00
3	\$25,010.81	\$9,661.57	\$1,855.67	\$0.00	\$36,528.04	\$0.00	\$0.00	\$0.00
4	\$26,023.76	\$9,661.57	\$1,911.34	\$0.00	\$37,596.66	\$0.00	\$0.00	\$0.00
5	\$26,426.01	\$9,661.57	\$1,968.68	\$0.00	\$38,056.26	\$0.00	\$0.00	\$0.00
6	\$26,124.16	\$9,661.57	\$2,027.74	\$0.00	\$37,813.47	\$0.00	\$0.00	\$0.00
7	\$26,006.30	\$9,661.57	\$2,088.57	\$0.00	\$37,756.44	\$0.00	\$0.00	\$0.00
8	\$26,318.30	\$9,661.57	\$2,151.23	\$0.00	\$38,131.10	\$0.00	\$0.00	\$0.00
9	\$26,622.51	\$9,661.57	\$2,215.76	\$0.00	\$38,499.84	\$0.00	\$0.00	\$0.00
10	\$27,183.43	\$9,661.57	\$2,282.24	\$0.00	\$39,127.23	\$0.00	\$0.00	\$0.00
11	\$28,681.45	\$9,461.04	\$2,301.91	\$0.00	\$40,444.40	\$0.00	\$0.00	\$0.00
12	\$32,133.37	\$9,461.04	\$2,370.97	\$0.00	\$43,965.38	\$0.00	\$0.00	\$0.00
13	\$32,801.30	\$9,461.04	\$2,442.10	\$0.00	\$44,704.43	\$0.00	\$0.00	\$0.00
14	\$34,866.38	\$9,461.04	\$2,515.36	\$0.00	\$46,842.78	\$0.00	\$0.00	\$0.00
15	\$37,154.04	\$9,461.04	\$2,590.82	\$0.00	\$49,205.90	\$0.00	\$0.00	\$0.00
16	\$40,858.60	\$9,461.04	\$2,668.55	\$0.00	\$52,988.19	\$0.00	\$0.00	\$0.00
17	\$42,368.47	\$9,461.04	\$2,748.61	\$0.00	\$54,578.11	\$0.00	\$0.00	\$0.00
18	\$46,152.85	\$9,461.04	\$2,831.06	\$0.00	\$58,444.95	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$557,209.40	\$172,303.96	\$40,521.38	\$0.00	\$770,034.73	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$37,956.53	\$0.00	\$1,749.14	\$0.00	\$39,705.68
2	\$32,453.01	\$0.00	\$1,801.62	\$0.00	\$34,254.63
3	\$33,557.13	\$0.00	\$1,855.67	\$0.00	\$35,412.80
4	\$34,916.21	\$0.00	\$1,911.34	\$0.00	\$36,827.55
5	\$35,455.92	\$0.00	\$1,968.68	\$0.00	\$37,424.59
6	\$35,050.92	\$0.00	\$2,027.74	\$0.00	\$37,078.66
7	\$34,892.79	\$0.00	\$2,088.57	\$0.00	\$36,981.36
8	\$35,311.40	\$0.00	\$2,151.23	\$0.00	\$37,462.63
9	\$35,719.56	\$0.00	\$2,215.76	\$0.00	\$37,935.33
10	\$36,472.15	\$0.00	\$2,282.24	\$0.00	\$38,754.38
11	\$38,482.04	\$0.00	\$2,301.91	\$0.00	\$40,783.96
12	\$43,113.51	\$0.00	\$2,370.97	\$0.00	\$45,484.48
13	\$44,009.67	\$0.00	\$2,442.10	\$0.00	\$46,451.77
14	\$46,780.40	\$0.00	\$2,515.36	\$0.00	\$49,295.76
15	\$49,849.77	\$0.00	\$2,590.82	\$0.00	\$52,440.59
16	\$54,820.19	\$0.00	\$2,668.55	\$0.00	\$57,488.74
17	\$56,845.99	\$0.00	\$2,748.61	\$0.00	\$59,594.60
18	\$61,923.52	\$0.00	\$2,831.06	\$0.00	\$64,754.58
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$747,610.72	\$0.00	\$40,521.38	\$0.00	\$788,132.10

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$28,289.77	\$9,661.57	\$1,749.14	\$0.00	\$39,700.48
2	\$22,586.50	\$9,021.91	\$1,682.34	\$0.00	\$33,290.76
3	\$21,808.71	\$8,424.61	\$1,618.09	\$0.00	\$31,851.40
4	\$21,189.62	\$7,866.85	\$1,556.29	\$0.00	\$30,612.76
5	\$20,092.59	\$7,346.02	\$1,496.85	\$0.00	\$28,935.46
6	\$18,548.03	\$6,859.67	\$1,439.68	\$0.00	\$26,847.38
7	\$17,241.90	\$6,405.51	\$1,384.70	\$0.00	\$25,032.11
8	\$16,293.54	\$5,981.43	\$1,331.81	\$0.00	\$23,606.79
9	\$15,390.68	\$5,585.42	\$1,280.95	\$0.00	\$22,257.05
10	\$14,674.52	\$5,215.64	\$1,232.03	\$0.00	\$21,122.19
11	\$14,458.12	\$4,769.24	\$1,160.38	\$0.00	\$20,387.74
12	\$15,125.79	\$4,453.49	\$1,116.06	\$0.00	\$20,695.35
13	\$14,417.97	\$4,158.64	\$1,073.44	\$0.00	\$19,650.05
14	\$14,311.03	\$3,883.32	\$1,032.44	\$0.00	\$19,226.79
15	\$14,240.37	\$3,626.22	\$993.01	\$0.00	\$18,859.59
16	\$14,623.45	\$3,386.14	\$955.08	\$0.00	\$18,964.67
17	\$14,159.90	\$3,161.96	\$918.61	\$0.00	\$18,240.46
18	\$14,403.46	\$2,952.62	\$883.52	\$0.00	\$18,239.60
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$311,855.94		\$102,760.25	\$22,904.43	\$0.00	\$437,520.63
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Home Lighting

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	2.58	1.66	2.87	2.96	2.71	10.14
TRC Test	1.74	1.11	1.93	1.99	1.82	6.81
RIM Test	0.32	0.21	0.36	0.37	0.34	1.22
RIM (Net Fuel)	0.32	0.21	0.36	0.37	0.34	1.22
Societal Test	2.33	1.50	2.61	2.69	2.47	9.22
Participant Test	8.62	8.28	8.62	8.62	8.62	8.89

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test						
Avoided Electric Production	\$56,969.84	\$45,282.60	\$81,033.52	\$83,778.55	\$76,436.73	\$295,183.93
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$15,672.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$76,142.48	\$48,782.78	\$84,533.70	\$87,278.73	\$79,936.91	\$298,684.10
Administration Costs	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92
Implementation / Participation Costs	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00
Total	\$29,459.56	\$29,459.56	\$29,459.56	\$29,459.56	\$29,459.56	\$29,459.56
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.58	1.66	2.87	2.96	2.71	10.14

TRC Test						
Avoided Electric Production	\$56,969.84	\$45,282.60	\$81,033.52	\$83,778.55	\$76,436.73	\$295,183.93
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$15,672.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$76,142.48	\$48,782.78	\$84,533.70	\$87,278.73	\$79,936.91	\$298,684.10
Administration Costs	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92
Implementation / Participation Costs	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$9,377.56	\$9,377.56	\$9,377.56	\$9,377.56	\$9,377.56	\$9,377.56
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.74	1.11	1.93	1.99	1.82	6.81

RIM Test						
Avoided Electric Production	\$56,969.84	\$45,282.60	\$81,033.52	\$83,778.55	\$76,436.73	\$295,183.93
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$15,672.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18	\$3,500.18
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$76,142.48	\$48,782.78	\$84,533.70	\$87,278.73	\$79,936.91	\$298,684.10
Administration Costs	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92
Implementation / Participation Costs	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00
Total	\$29,459.56	\$29,459.56	\$29,459.56	\$29,459.56	\$29,459.56	\$29,459.56
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$207,898.25	\$199,179.72	\$207,898.25	\$207,898.25	\$207,898.25	\$215,007.84
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$207,898.25	\$199,179.72	\$207,898.25	\$207,898.25	\$207,898.25	\$215,007.84
Electric Lost Revenue (Net Fuel)	\$207,898.25	\$199,179.72	\$207,898.25	\$207,898.25	\$207,898.25	\$215,007.84
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$207,898.25	\$199,179.72	\$207,898.25	\$207,898.25	\$207,898.25	\$215,007.84
Test Results	0.32	0.21	0.36	0.37	0.34	1.22
Societal Test						
Avoided Electric Production	\$77,116.47	\$61,296.19	\$109,689.95	\$113,405.72	\$103,467.56	\$399,571.79
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$20,308.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$4,673.49	\$4,673.49	\$4,673.49	\$4,673.49	\$4,673.49	\$4,673.49
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$102,098.33	\$65,969.68	\$114,363.44	\$118,079.22	\$108,141.06	\$404,245.28
Administration Costs	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92	\$8,923.92
Implementation / Participation Costs	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64	\$453.64
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$9,377.56	\$9,377.56	\$9,377.56	\$9,377.56	\$9,377.56	\$9,377.56
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.33	1.50	2.61	2.69	2.47	9.22
Participant Test						
Incentives	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00	\$20,082.00
Participant or Unit Costs (Gross)	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33	\$34,459.33
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$276,901.35	\$265,289.07	\$276,901.35	\$276,901.35	\$276,901.35	\$286,370.67
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$276,901.35	\$265,289.07	\$276,901.35	\$276,901.35	\$276,901.35	\$286,370.67
Test Results	8.62	8.28	8.62	8.62	8.62	8.89

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	503.13	503.13	503.13	503.13	503.13	503.13
kWh (Discounted)	2,954,018.31	2,832,135.78	2,954,018.31	2,954,018.31	2,954,018.31	3,060,496.18
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	503.13	503.13	503.13	503.13	503.13	503.13
kWh (Undiscounted)	2,954,018.31	2,832,135.78	2,954,018.31	2,954,018.31	2,954,018.31	3,060,496.18
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$76,142.48	\$29,459.56	\$46,682.92	2.58	Utility (PAC) Test
\$76,142.48	\$43,836.89	\$32,305.59	1.74	TRC Test
\$76,142.48	\$237,357.81	(\$161,215.33)	0.32	RIM Test
\$76,142.48	\$237,357.81	(\$161,215.33)	0.32	RIM (Net Fuel) Test
\$102,098.33	\$43,836.89	\$58,261.44	2.33	Societal Test
\$296,983.35	\$34,459.33	\$262,524.02	8.62	Participant Test

Participants	kWh	Summer kW	Winter kW	Generator Meter
5378	30	14	14	
	27	13	13	

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$8,923.92	\$453.64	\$0.00	\$20,082.00	\$29,459.56

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	5378	0	5378	0	5378	5378	\$34,459.33	\$0.00	\$34,459.33	\$34,459.33	\$0.00	\$34,459.33
2	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	5378	0	5378	5378	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	992	0	992	992	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	992	0	992	992	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	992	0	992	992	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	988	0	988	988	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	988	0	988	988	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	5,378	0	85,622	0	85,622	85,622	\$34,459	\$0	\$34,459	\$34,459	\$0	\$34,459

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
2	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
3	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
4	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
5	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
6	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
7	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
8	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
9	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
10	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
11	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
12	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
13	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
14	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
15	0.029	0.029	0.003	0.003	0.003	0.003	29.72	29.72	156	156	14	14	14	14	159,823
16	0.096	0.096	0.008	0.008	0.008	0.008	112.91	112.91	96	96	8	8	8	8	112,004
17	0.096	0.096	0.008	0.008	0.008	0.008	112.91	112.91	96	96	8	8	8	8	112,004
18	0.096	0.096	0.008	0.008	0.008	0.008	112.91	112.91	96	96	8	8	8	8	112,004
19	0.095	0.095	0.008	0.008	0.008	0.008	111.67	111.67	94	94	8	8	8	8	110,333
20	0.095	0.095	0.008	0.008	0.008	0.008	111.67	111.67	94	94	8	8	8	8	110,333
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							1,008	1,008							

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$3.11	\$0.00	\$3.11	\$16,723.91	\$0.00	\$16,723.91	\$16,723.91	\$0.00	\$16,723.91
2	\$3.17	\$0.00	\$3.17	\$17,058.38	\$0.00	\$17,058.38	\$17,058.38	\$0.00	\$17,058.38
3	\$3.24	\$0.00	\$3.24	\$17,399.55	\$0.00	\$17,399.55	\$17,399.55	\$0.00	\$17,399.55
4	\$3.30	\$0.00	\$3.30	\$17,747.54	\$0.00	\$17,747.54	\$17,747.54	\$0.00	\$17,747.54
5	\$3.37	\$0.00	\$3.37	\$18,102.49	\$0.00	\$18,102.49	\$18,102.49	\$0.00	\$18,102.49
6	\$3.43	\$0.00	\$3.43	\$18,464.54	\$0.00	\$18,464.54	\$18,464.54	\$0.00	\$18,464.54
7	\$3.50	\$0.00	\$3.50	\$18,833.83	\$0.00	\$18,833.83	\$18,833.83	\$0.00	\$18,833.83
8	\$3.57	\$0.00	\$3.57	\$19,210.51	\$0.00	\$19,210.51	\$19,210.51	\$0.00	\$19,210.51
9	\$3.64	\$0.00	\$3.64	\$19,594.72	\$0.00	\$19,594.72	\$19,594.72	\$0.00	\$19,594.72
10	\$3.72	\$0.00	\$3.72	\$19,986.61	\$0.00	\$19,986.61	\$19,986.61	\$0.00	\$19,986.61
11	\$3.79	\$0.00	\$3.79	\$20,386.35	\$0.00	\$20,386.35	\$20,386.35	\$0.00	\$20,386.35
12	\$3.87	\$0.00	\$3.87	\$20,794.07	\$0.00	\$20,794.07	\$20,794.07	\$0.00	\$20,794.07
13	\$3.94	\$0.00	\$3.94	\$21,209.96	\$0.00	\$21,209.96	\$21,209.96	\$0.00	\$21,209.96
14	\$4.02	\$0.00	\$4.02	\$21,634.15	\$0.00	\$21,634.15	\$21,634.15	\$0.00	\$21,634.15
15	\$4.10	\$0.00	\$4.10	\$22,066.84	\$0.00	\$22,066.84	\$22,066.84	\$0.00	\$22,066.84
16	\$15.90	\$0.00	\$15.90	\$15,773.77	\$0.00	\$15,773.77	\$15,773.77	\$0.00	\$15,773.77
17	\$16.22	\$0.00	\$16.22	\$16,089.25	\$0.00	\$16,089.25	\$16,089.25	\$0.00	\$16,089.25
18	\$16.54	\$0.00	\$16.54	\$16,411.03	\$0.00	\$16,411.03	\$16,411.03	\$0.00	\$16,411.03
19	\$16.69	\$0.00	\$16.69	\$16,489.53	\$0.00	\$16,489.53	\$16,489.53	\$0.00	\$16,489.53
20	\$17.02	\$0.00	\$17.02	\$16,819.32	\$0.00	\$16,819.32	\$16,819.32	\$0.00	\$16,819.32
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$136.15	\$0.00	\$136.15	\$370,796.36	\$0.00	\$370,796.36	\$370,796.36	\$0.00	\$370,796.36

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$8,923.92	\$453.64	\$20,082.00	\$0.00	\$29,459.56	\$1,050.06	\$1,050.06	\$189.04	\$189.04	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$8,923.92	\$453.64	\$20,082.00	\$0.00	\$29,459.56	\$1,050.06	\$1,050.06	\$189.04	\$189.04	\$0.00	\$0.00

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Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$7,199.87	\$0.00	\$267.19	\$0.00	\$7,467.07	\$0.00	\$0.00	\$0.00
2	\$6,155.92	\$0.00	\$275.21	\$0.00	\$6,431.13	\$0.00	\$0.00	\$0.00
3	\$6,365.36	\$0.00	\$283.47	\$0.00	\$6,648.83	\$0.00	\$0.00	\$0.00
4	\$6,623.16	\$0.00	\$291.97	\$0.00	\$6,915.13	\$0.00	\$0.00	\$0.00
5	\$6,725.54	\$0.00	\$300.73	\$0.00	\$7,026.27	\$0.00	\$0.00	\$0.00
6	\$6,648.71	\$0.00	\$309.75	\$0.00	\$6,958.47	\$0.00	\$0.00	\$0.00
7	\$6,618.72	\$0.00	\$319.04	\$0.00	\$6,937.76	\$0.00	\$0.00	\$0.00
8	\$6,698.13	\$0.00	\$328.61	\$0.00	\$7,026.74	\$0.00	\$0.00	\$0.00
9	\$6,775.55	\$0.00	\$338.47	\$0.00	\$7,114.02	\$0.00	\$0.00	\$0.00
10	\$6,918.30	\$0.00	\$348.63	\$0.00	\$7,266.93	\$0.00	\$0.00	\$0.00
11	\$7,307.09	\$0.00	\$359.09	\$0.00	\$7,666.18	\$0.00	\$0.00	\$0.00
12	\$8,186.53	\$0.00	\$369.86	\$0.00	\$8,556.39	\$0.00	\$0.00	\$0.00
13	\$8,356.70	\$0.00	\$380.95	\$0.00	\$8,737.65	\$0.00	\$0.00	\$0.00
14	\$8,882.81	\$0.00	\$392.38	\$0.00	\$9,275.19	\$0.00	\$0.00	\$0.00
15	\$9,465.63	\$0.00	\$404.15	\$0.00	\$9,869.79	\$0.00	\$0.00	\$0.00
16	\$7,294.95	\$0.00	\$246.54	\$0.00	\$7,541.49	\$0.00	\$0.00	\$0.00
17	\$7,564.53	\$0.00	\$253.93	\$0.00	\$7,818.46	\$0.00	\$0.00	\$0.00
18	\$8,240.19	\$0.00	\$261.55	\$0.00	\$8,501.75	\$0.00	\$0.00	\$0.00
19	\$8,519.99	\$0.00	\$263.11	\$0.00	\$8,783.10	\$0.00	\$0.00	\$0.00
20	\$8,979.05	\$0.00	\$271.01	\$0.00	\$9,250.05	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$149,526.75	\$0.00	\$6,265.65	\$0.00	\$155,792.39	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$5,061.80	\$1,475.87	\$267.19	\$0.00	\$6,804.86	\$0.00	\$0.00	\$0.00
2	\$4,327.86	\$1,475.87	\$275.21	\$0.00	\$6,078.94	\$0.00	\$0.00	\$0.00
3	\$4,475.11	\$1,475.87	\$283.47	\$0.00	\$6,234.44	\$0.00	\$0.00	\$0.00
4	\$4,656.35	\$1,475.87	\$291.97	\$0.00	\$6,424.19	\$0.00	\$0.00	\$0.00
5	\$4,728.32	\$1,475.87	\$300.73	\$0.00	\$6,504.92	\$0.00	\$0.00	\$0.00
6	\$4,674.32	\$1,475.87	\$309.75	\$0.00	\$6,459.93	\$0.00	\$0.00	\$0.00
7	\$4,653.23	\$1,475.87	\$319.04	\$0.00	\$6,448.14	\$0.00	\$0.00	\$0.00
8	\$4,709.05	\$1,475.87	\$328.61	\$0.00	\$6,513.53	\$0.00	\$0.00	\$0.00
9	\$4,763.48	\$1,475.87	\$338.47	\$0.00	\$6,577.82	\$0.00	\$0.00	\$0.00
10	\$4,863.85	\$1,475.87	\$348.63	\$0.00	\$6,688.34	\$0.00	\$0.00	\$0.00
11	\$5,137.18	\$1,475.87	\$359.09	\$0.00	\$6,972.14	\$0.00	\$0.00	\$0.00
12	\$5,755.46	\$1,475.87	\$369.86	\$0.00	\$7,601.19	\$0.00	\$0.00	\$0.00
13	\$5,875.10	\$1,475.87	\$380.95	\$0.00	\$7,731.92	\$0.00	\$0.00	\$0.00
14	\$6,244.98	\$1,475.87	\$392.38	\$0.00	\$8,113.23	\$0.00	\$0.00	\$0.00
15	\$6,654.72	\$1,475.87	\$404.15	\$0.00	\$8,534.74	\$0.00	\$0.00	\$0.00
16	\$5,128.65	\$874.07	\$246.54	\$0.00	\$6,249.25	\$0.00	\$0.00	\$0.00
17	\$5,318.17	\$874.07	\$253.93	\$0.00	\$6,446.17	\$0.00	\$0.00	\$0.00
18	\$5,793.19	\$874.07	\$261.55	\$0.00	\$6,928.81	\$0.00	\$0.00	\$0.00
19	\$5,989.90	\$853.68	\$263.11	\$0.00	\$7,106.69	\$0.00	\$0.00	\$0.00
20	\$6,312.63	\$853.68	\$271.01	\$0.00	\$7,437.32	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$105,123.35	\$26,467.57	\$6,265.65	\$0.00	\$137,856.57	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$6,791.45	\$0.00	\$267.19	\$0.00	\$7,058.64
2	\$5,806.72	\$0.00	\$275.21	\$0.00	\$6,081.93
3	\$6,004.27	\$0.00	\$283.47	\$0.00	\$6,287.74
4	\$6,247.45	\$0.00	\$291.97	\$0.00	\$6,539.42
5	\$6,344.02	\$0.00	\$300.73	\$0.00	\$6,644.75
6	\$6,271.55	\$0.00	\$309.75	\$0.00	\$6,581.30
7	\$6,243.26	\$0.00	\$319.04	\$0.00	\$6,562.30
8	\$6,318.16	\$0.00	\$328.61	\$0.00	\$6,646.77
9	\$6,391.19	\$0.00	\$338.47	\$0.00	\$6,729.66
10	\$6,525.85	\$0.00	\$348.63	\$0.00	\$6,874.48
11	\$6,892.59	\$0.00	\$359.09	\$0.00	\$7,251.67
12	\$7,722.13	\$0.00	\$369.86	\$0.00	\$8,091.99
13	\$7,882.65	\$0.00	\$380.95	\$0.00	\$8,263.60
14	\$8,378.92	\$0.00	\$392.38	\$0.00	\$8,771.30
15	\$8,928.68	\$0.00	\$404.15	\$0.00	\$9,332.83
16	\$6,881.13	\$0.00	\$246.54	\$0.00	\$7,127.67
17	\$7,135.41	\$0.00	\$253.93	\$0.00	\$7,389.35
18	\$7,772.75	\$0.00	\$261.55	\$0.00	\$8,034.30
19	\$8,036.67	\$0.00	\$263.11	\$0.00	\$8,299.79
20	\$8,469.69	\$0.00	\$271.01	\$0.00	\$8,740.70
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$141,044.54	\$0.00	\$6,265.65	\$0.00	\$147,310.18

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$5,061.80	\$1,475.87	\$267.19	\$0.00	\$6,804.86
2	\$4,041.33	\$1,378.16	\$256.99	\$0.00	\$5,676.48
3	\$3,902.16	\$1,286.91	\$247.17	\$0.00	\$5,436.25
4	\$3,791.39	\$1,201.71	\$237.73	\$0.00	\$5,230.84
5	\$3,595.11	\$1,122.15	\$228.65	\$0.00	\$4,945.91
6	\$3,318.74	\$1,047.86	\$219.92	\$0.00	\$4,586.52
7	\$3,085.04	\$978.48	\$211.52	\$0.00	\$4,275.05
8	\$2,915.35	\$913.70	\$203.44	\$0.00	\$4,032.50
9	\$2,753.81	\$853.21	\$195.67	\$0.00	\$3,802.69
10	\$2,625.67	\$796.72	\$188.20	\$0.00	\$3,610.59
11	\$2,589.62	\$743.97	\$181.01	\$0.00	\$3,514.61
12	\$2,709.21	\$694.72	\$174.10	\$0.00	\$3,578.02
13	\$2,582.43	\$648.72	\$167.45	\$0.00	\$3,398.60
14	\$2,563.27	\$605.77	\$161.05	\$0.00	\$3,330.10
15	\$2,550.62	\$565.67	\$154.90	\$0.00	\$3,271.19
16	\$1,835.56	\$312.83	\$88.24	\$0.00	\$2,236.63
17	\$1,777.38	\$292.12	\$84.87	\$0.00	\$2,154.36
18	\$1,807.95	\$272.78	\$81.63	\$0.00	\$2,162.36
19	\$1,745.58	\$248.78	\$76.68	\$0.00	\$2,071.03
20	\$1,717.83	\$232.31	\$73.75	\$0.00	\$2,023.89
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$56,969.84		\$15,672.46	\$3,500.18	\$0.00	\$76,142.48
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Smart Thermostats

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	1.59	0.97	1.67	1.72	1.58	5.88
TRC Test	1.10	0.67	1.16	1.20	1.10	4.07
RIM Test	0.30	0.19	0.31	0.32	0.30	1.07
RIM (Net Fuel)	0.30	0.19	0.31	0.32	0.30	1.07
Societal Test	1.28	0.78	1.34	1.39	1.27	4.72
Participant Test	4.91	4.73	4.91	4.91	4.91	5.06

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$2,168.53	\$1,723.66	\$3,084.50	\$3,188.99	\$2,909.53	\$11,236.03
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$755.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$154.26	\$154.26	\$154.26	\$154.26	\$154.26	\$154.26
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,078.50	\$1,877.92	\$3,238.76	\$3,343.25	\$3,063.78	\$11,390.29
Administration Costs	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08
Implementation / Participation Costs	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00
Total	\$1,938.34	\$1,938.34	\$1,938.34	\$1,938.34	\$1,938.34	\$1,938.34
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.59	0.97	1.67	1.72	1.58	5.88

TRC Test						
Avoided Electric Production	\$2,168.53	\$1,723.66	\$3,084.50	\$3,188.99	\$2,909.53	\$11,236.03
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$755.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$154.26	\$154.26	\$154.26	\$154.26	\$154.26	\$154.26
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,078.50	\$1,877.92	\$3,238.76	\$3,343.25	\$3,063.78	\$11,390.29
Administration Costs	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08
Implementation / Participation Costs	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$518.34	\$518.34	\$518.34	\$518.34	\$518.34	\$518.34
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.10	0.67	1.16	1.20	1.10	4.07

RIM Test						
Avoided Electric Production	\$2,168.53	\$1,723.66	\$3,084.50	\$3,188.99	\$2,909.53	\$11,236.03
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$755.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$154.26	\$154.26	\$154.26	\$154.26	\$154.26	\$154.26
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,078.50	\$1,877.92	\$3,238.76	\$3,343.25	\$3,063.78	\$11,390.29
Administration Costs	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08
Implementation / Participation Costs	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00
Total	\$1,938.34	\$1,938.34	\$1,938.34	\$1,938.34	\$1,938.34	\$1,938.34
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$8,382.72	\$8,031.18	\$8,382.72	\$8,382.72	\$8,382.72	\$8,669.39
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,382.72	\$8,031.18	\$8,382.72	\$8,382.72	\$8,382.72	\$8,669.39
Electric Lost Revenue (Net Fuel)	\$8,382.72	\$8,031.18	\$8,382.72	\$8,382.72	\$8,382.72	\$8,669.39
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,382.72	\$8,031.18	\$8,382.72	\$8,382.72	\$8,382.72	\$8,669.39
Test Results	0.30	0.19	0.31	0.32	0.30	1.07
Societal Test						
Avoided Electric Production	\$2,514.10	\$1,998.34	\$3,576.04	\$3,697.18	\$3,373.18	\$13,026.58
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$875.57	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$180.29	\$180.29	\$180.29	\$180.29	\$180.29	\$180.29
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$3,569.96	\$2,178.63	\$3,756.33	\$3,877.47	\$3,553.47	\$13,206.86
Administration Costs	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08	\$275.08
Implementation / Participation Costs	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26	\$243.26
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$518.34	\$518.34	\$518.34	\$518.34	\$518.34	\$518.34
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.28	0.78	1.34	1.39	1.27	4.72
Participant Test						
Incentives	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00	\$1,420.00
Participant or Unit Costs (Gross)	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00	\$2,278.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$9,769.02	\$9,359.35	\$9,769.02	\$9,769.02	\$9,769.02	\$10,103.10
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$9,769.02	\$9,359.35	\$9,769.02	\$9,769.02	\$9,769.02	\$10,103.10
Test Results	4.91	4.73	4.91	4.91	4.91	5.06

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	19.18	19.18	19.18	19.18	19.18	19.18
kWh (Discounted)	98,767.77	94,692.62	98,767.77	98,767.77	98,767.77	102,327.87
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	19.18	19.18	19.18	19.18	19.18	19.18
kWh (Undiscounted)	98,767.77	94,692.62	98,767.77	98,767.77	98,767.77	102,327.87
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				Utility (PAC) Test
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$3,078.50	\$1,938.34	\$1,140.16	1.59	TRC Test
\$3,078.50	\$2,796.34	\$282.16	1.10	TRC Test
\$3,078.50	\$10,321.06	(\$7,242.56)	0.30	RIM Test
\$3,078.50	\$10,321.06	(\$7,242.56)	0.30	RIM (Net Fuel) Test
\$3,569.96	\$2,796.34	\$773.62	1.28	Societal Test
\$11,189.02	\$2,278.00	\$8,911.02	4.91	Participant Test

Participants	kWh	Summer kW	Winter kW	Generator Meter
15	658	1	1	
	597	1	1	

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$275.08	\$243.26	\$0.00	\$1,420.00	\$1,938.34

2024 South Dakota Status Report - Direct Impact - Residential Smart Thermostats

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	15	0	15	0	15	15	\$2,278.00	\$0.00	\$2,278.00	\$2,278.00	\$0.00	\$2,278.00
2	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	15	0	15	15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	15	0	150	0	150	150	\$2,278	\$0	\$2,278	\$2,278	\$0	\$2,278

Impacts and Savings (Losses Included)																
Year	Electric Impacts/Savings															
	Per Participant or Unit										Cumulative					
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	Min Non-Coin kW	
1	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
2	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
3	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
4	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
5	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
6	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
7	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
8	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
9	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
10	0.064	0.064	0.064	0.064	0.064	0.064	658.45	658.45	1	1	1	1	1	1	1	9,877
11	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
12	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	0
Totals							6,585	6,585								

2024 South Dakota Status Report - Direct Impact - Residential Smart Thermostats

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$68.90	\$0.00	\$68.90	\$1,033.51	\$0.00	\$1,033.51	\$1,033.51	\$0.00	\$1,033.51
2	\$70.28	\$0.00	\$70.28	\$1,054.18	\$0.00	\$1,054.18	\$1,054.18	\$0.00	\$1,054.18
3	\$71.68	\$0.00	\$71.68	\$1,075.26	\$0.00	\$1,075.26	\$1,075.26	\$0.00	\$1,075.26
4	\$73.12	\$0.00	\$73.12	\$1,096.77	\$0.00	\$1,096.77	\$1,096.77	\$0.00	\$1,096.77
5	\$74.58	\$0.00	\$74.58	\$1,118.70	\$0.00	\$1,118.70	\$1,118.70	\$0.00	\$1,118.70
6	\$76.07	\$0.00	\$76.07	\$1,141.08	\$0.00	\$1,141.08	\$1,141.08	\$0.00	\$1,141.08
7	\$77.59	\$0.00	\$77.59	\$1,163.90	\$0.00	\$1,163.90	\$1,163.90	\$0.00	\$1,163.90
8	\$79.15	\$0.00	\$79.15	\$1,187.18	\$0.00	\$1,187.18	\$1,187.18	\$0.00	\$1,187.18
9	\$80.73	\$0.00	\$80.73	\$1,210.92	\$0.00	\$1,210.92	\$1,210.92	\$0.00	\$1,210.92
10	\$82.34	\$0.00	\$82.34	\$1,235.14	\$0.00	\$1,235.14	\$1,235.14	\$0.00	\$1,235.14
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$754.44	\$0.00	\$754.44	\$11,316.64	\$0.00	\$11,316.64	\$11,316.64	\$0.00	\$11,316.64

Utility Program Costs										
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)				
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF
1	\$275.08	\$243.26	\$1,420.00	\$0.00	\$1,938.34	\$1,010.67	\$1,010.67	\$2,021.33	\$2,021.33	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$275.08	\$243.26	\$1,420.00	\$0.00	\$1,938.34	\$1,010.67	\$1,010.67	\$2,021.33	\$2,021.33	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Smart Thermostats

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$444.94	\$0.00	\$18.27	\$0.00	\$463.21	\$0.00	\$0.00	\$0.00
2	\$380.43	\$0.00	\$18.81	\$0.00	\$399.24	\$0.00	\$0.00	\$0.00
3	\$393.37	\$0.00	\$19.38	\$0.00	\$412.75	\$0.00	\$0.00	\$0.00
4	\$409.30	\$0.00	\$19.96	\$0.00	\$429.26	\$0.00	\$0.00	\$0.00
5	\$415.63	\$0.00	\$20.56	\$0.00	\$436.19	\$0.00	\$0.00	\$0.00
6	\$410.88	\$0.00	\$21.17	\$0.00	\$432.05	\$0.00	\$0.00	\$0.00
7	\$409.03	\$0.00	\$21.81	\$0.00	\$430.84	\$0.00	\$0.00	\$0.00
8	\$413.93	\$0.00	\$22.46	\$0.00	\$436.40	\$0.00	\$0.00	\$0.00
9	\$418.72	\$0.00	\$23.14	\$0.00	\$441.86	\$0.00	\$0.00	\$0.00
10	\$427.54	\$0.00	\$23.83	\$0.00	\$451.37	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$4,123.76	\$0.00	\$209.39	\$0.00	\$4,333.15	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$312.81	\$100.89	\$18.27	\$0.00	\$431.97	\$0.00	\$0.00	\$0.00
2	\$267.45	\$100.89	\$18.81	\$0.00	\$387.16	\$0.00	\$0.00	\$0.00
3	\$276.55	\$100.89	\$19.38	\$0.00	\$396.82	\$0.00	\$0.00	\$0.00
4	\$287.75	\$100.89	\$19.96	\$0.00	\$408.61	\$0.00	\$0.00	\$0.00
5	\$292.20	\$100.89	\$20.56	\$0.00	\$413.65	\$0.00	\$0.00	\$0.00
6	\$288.86	\$100.89	\$21.17	\$0.00	\$410.93	\$0.00	\$0.00	\$0.00
7	\$287.56	\$100.89	\$21.81	\$0.00	\$410.26	\$0.00	\$0.00	\$0.00
8	\$291.01	\$100.89	\$22.46	\$0.00	\$414.37	\$0.00	\$0.00	\$0.00
9	\$294.38	\$100.89	\$23.14	\$0.00	\$418.41	\$0.00	\$0.00	\$0.00
10	\$300.58	\$100.89	\$23.83	\$0.00	\$425.30	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$2,899.17	\$1,008.92	\$209.39	\$0.00	\$4,117.48	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$419.70	\$0.00	\$18.27	\$0.00	\$437.97
2	\$358.85	\$0.00	\$18.81	\$0.00	\$377.66
3	\$371.05	\$0.00	\$19.38	\$0.00	\$390.43
4	\$386.08	\$0.00	\$19.96	\$0.00	\$406.04
5	\$392.05	\$0.00	\$20.56	\$0.00	\$412.61
6	\$387.57	\$0.00	\$21.17	\$0.00	\$408.75
7	\$385.82	\$0.00	\$21.81	\$0.00	\$407.63
8	\$390.45	\$0.00	\$22.46	\$0.00	\$412.92
9	\$394.97	\$0.00	\$23.14	\$0.00	\$418.10
10	\$403.29	\$0.00	\$23.83	\$0.00	\$427.12
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$3,889.83	\$0.00	\$209.39	\$0.00	\$4,099.23

Discount 7.09%					
	Energy	Capacity	T&D	Ancillary	Total
1	\$312.81	\$100.89	\$18.27	\$0.00	\$431.97
2	\$249.75	\$94.21	\$17.57	\$0.00	\$361.53
3	\$241.15	\$87.97	\$16.90	\$0.00	\$346.02
4	\$234.30	\$82.15	\$16.25	\$0.00	\$332.70
5	\$222.17	\$76.71	\$15.63	\$0.00	\$314.51
6	\$205.09	\$71.63	\$15.03	\$0.00	\$291.76
7	\$190.65	\$66.89	\$14.46	\$0.00	\$272.00
8	\$180.16	\$62.46	\$13.91	\$0.00	\$256.53
9	\$170.18	\$58.33	\$13.38	\$0.00	\$241.88
10	\$162.26	\$54.46	\$12.87	\$0.00	\$229.59
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$2,168.53	\$755.72	\$154.26	\$0.00	\$3,078.50
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Programs

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	3.85	2.21	3.78	3.90	3.58	13.14
TRC Test	1.72	0.99	1.69	1.74	1.60	5.88
RIM Test	0.38	0.23	0.37	0.38	0.35	1.26
RIM (Net Fuel)	0.38	0.23	0.37	0.38	0.35	1.26
Societal Test	2.23	1.31	2.25	2.32	2.13	7.84
Participant Test	6.22	5.98	6.22	6.22	6.22	6.42

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$371,949.39	\$295,380.31	\$529,055.21	\$546,977.26	\$499,037.28	\$1,927,850.60
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$167,674.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TR&D	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$574,960.84	\$330,717.18	\$564,392.08	\$582,314.13	\$534,374.15	\$1,963,187.47
Administration Costs	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78
Implementation / Participation Costs	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00
Total	\$149,354.98	\$149,354.98	\$149,354.98	\$149,354.98	\$149,354.98	\$149,354.98
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	3.85	2.21	3.78	3.90	3.58	13.14
Avoided Electric Production	\$371,949.39	\$295,380.31	\$529,055.21	\$546,977.26	\$499,037.28	\$1,927,850.60
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$167,674.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TR&D	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$574,960.84	\$330,717.18	\$564,392.08	\$582,314.13	\$534,374.15	\$1,963,187.47
Administration Costs	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78
Implementation / Participation Costs	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$23,727.98	\$23,727.98	\$23,727.98	\$23,727.98	\$23,727.98	\$23,727.98
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.72	0.99	1.69	1.74	1.60	5.88
Avoided Electric Production	\$371,949.39	\$295,380.31	\$529,055.21	\$546,977.26	\$499,037.28	\$1,927,850.60
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$167,674.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TR&D	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87	\$35,336.87
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$574,960.84	\$330,717.18	\$564,392.08	\$582,314.13	\$534,374.15	\$1,963,187.47
Administration Costs	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78
Implementation / Participation Costs	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00
Total	\$149,354.98	\$149,354.98	\$149,354.98	\$149,354.98	\$149,354.98	\$149,354.98
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$1,367,029.52	\$1,309,532.81	\$1,367,029.52	\$1,367,029.52	\$1,367,029.52	\$1,413,876.25
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,367,029.52	\$1,309,532.81	\$1,367,029.52	\$1,367,029.52	\$1,367,029.52	\$1,413,876.25
Electric Lost Revenue (Net Fuel)	\$1,367,029.52	\$1,309,532.81	\$1,367,029.52	\$1,367,029.52	\$1,367,029.52	\$1,413,876.25
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,367,029.52	\$1,309,532.81	\$1,367,029.52	\$1,367,029.52	\$1,367,029.52	\$1,413,876.25
Test Results	0.38	0.23	0.37	0.38	0.35	1.26
Avoided Electric Production	\$496,712.91	\$394,548.86	\$706,518.01	\$730,451.66	\$666,433.14	\$2,574,301.17
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$202,480.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TR&D	\$44,071.83	\$44,071.83	\$44,071.83	\$44,071.83	\$44,071.83	\$44,071.83
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$743,264.75	\$438,620.69	\$750,589.84	\$774,523.48	\$710,504.97	\$2,618,372.99
Administration Costs	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78	\$20,154.78
Implementation / Participation Costs	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20	\$3,573.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$23,727.98	\$23,727.98	\$23,727.98	\$23,727.98	\$23,727.98	\$23,727.98
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.23	1.31	2.25	2.32	2.13	7.84
Incentives	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00	\$125,627.00
Participant or Unit Costs (Gross)	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33	\$310,084.33
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$1,803,149.29	\$1,727,363.23	\$1,803,149.29	\$1,803,149.29	\$1,803,149.29	\$1,864,910.19
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,803,149.29	\$1,727,363.23	\$1,803,149.29	\$1,803,149.29	\$1,803,149.29	\$1,864,910.19
Test Results	6.22	5.98	6.22	6.22	6.22	6.42

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	2,620.84	2,620.84	2,620.84	2,620.84	2,620.84	2,620.84
kWh (Discounted)	19,151,181.68	18,359,509.47	19,151,181.68	19,151,181.68	19,151,181.68	19,842,295.71
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	2,620.84	2,620.84	2,620.84	2,620.84	2,620.84	2,620.84
kWh (Undiscounted)	19,151,181.68	18,359,509.47	19,151,181.68	19,151,181.68	19,151,181.68	19,842,295.71
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$574,960.84	\$149,354.98	\$425,605.86	3.85	Utility (PAC) Test
\$574,960.84	\$333,812.31	\$241,148.53	1.72	TRC Test
\$574,960.84	\$1,516,384.50	(\$941,423.66)	0.38	RIM Test
\$574,960.84	\$1,516,384.50	(\$941,423.66)	0.38	RIM (Net Fuel) Test
\$743,264.75	\$333,812.31	\$409,452.44	2.23	Societal Test
\$1,928,776.29	\$310,084.33	\$1,618,691.96	N/A	Participant Test

Participants	kWh	Summer kW	Winter kW	
665	27,651	461	0	Generator
	25,057	418	0	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$20,154.78	\$3,573.20	\$0.00	\$125,627.00	\$149,354.98

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	6140	0	6140	0	6140	6140	\$310,084.33	\$0.00	\$310,084.33	\$310,084.33	\$0.00	\$310,084.33
2	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	5475	0	5475	5475	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	5456	0	5456	5456	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	5456	0	5456	5456	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	5456	0	5456	5456	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	5456	0	5456	5456	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	5456	0	5456	5456	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	1070	0	1070	1070	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	1070	0	1070	1070	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	1070	0	1070	1070	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	988	0	988	988	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	988	0	988	988	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	6,140	0	87,881	0	87,881	87,881	\$310,084	\$0	\$310,084	\$310,084	\$0	\$310,084

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	0.117	0.117	0.092	0.092	0.002	0.002	177.62	177.62	721	721	568	568	15	15	1,090,579
2	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
3	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
4	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
5	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
6	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
7	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
8	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
9	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
10	0.048	0.048	0.020	0.020	0.003	0.003	194.14	194.14	261	261	107	107	15	15	1,062,928
11	0.047	0.047	0.019	0.019	0.003	0.003	192.84	192.84	257	257	104	104	14	14	1,052,130
12	0.047	0.047	0.019	0.019	0.003	0.003	192.84	192.84	257	257	104	104	14	14	1,052,130
13	0.047	0.047	0.019	0.019	0.003	0.003	192.84	192.84	257	257	104	104	14	14	1,052,130
14	0.047	0.047	0.019	0.019	0.003	0.003	192.84	192.84	257	257	104	104	14	14	1,052,130
15	0.047	0.047	0.019	0.019	0.003	0.003	192.84	192.84	257	257	104	104	14	14	1,052,130
16	0.184	0.184	0.092	0.092	0.008	0.008	938.61	938.61	197	197	98	98	8	8	1,004,311
17	0.184	0.184	0.092	0.092	0.008	0.008	938.61	938.61	197	197	98	98	8	8	1,004,311
18	0.184	0.184	0.092	0.092	0.008	0.008	938.61	938.61	197	197	98	98	8	8	1,004,311
19	0.095	0.095	0.008	0.008	0.008	0.008	111.67	111.67	94	94	8	8	8	8	110,333
20	0.095	0.095	0.008	0.008	0.008	0.008	111.67	111.67	94	94	8	8	8	8	110,333
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							5,928	5,928							19,151,182

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$18.63	\$0.00	\$18.63	\$114,374.04	\$0.00	\$114,374.04	\$114,374.04	\$0.00	\$114,374.04
2	\$20.72	\$0.00	\$20.72	\$113,449.72	\$0.00	\$113,449.72	\$113,449.72	\$0.00	\$113,449.72
3	\$21.14	\$0.00	\$21.14	\$115,718.71	\$0.00	\$115,718.71	\$115,718.71	\$0.00	\$115,718.71
4	\$21.56	\$0.00	\$21.56	\$118,033.09	\$0.00	\$118,033.09	\$118,033.09	\$0.00	\$118,033.09
5	\$21.99	\$0.00	\$21.99	\$120,393.75	\$0.00	\$120,393.75	\$120,393.75	\$0.00	\$120,393.75
6	\$22.43	\$0.00	\$22.43	\$122,801.62	\$0.00	\$122,801.62	\$122,801.62	\$0.00	\$122,801.62
7	\$22.88	\$0.00	\$22.88	\$125,257.66	\$0.00	\$125,257.66	\$125,257.66	\$0.00	\$125,257.66
8	\$23.34	\$0.00	\$23.34	\$127,762.81	\$0.00	\$127,762.81	\$127,762.81	\$0.00	\$127,762.81
9	\$23.80	\$0.00	\$23.80	\$130,318.07	\$0.00	\$130,318.07	\$130,318.07	\$0.00	\$130,318.07
10	\$24.28	\$0.00	\$24.28	\$132,924.43	\$0.00	\$132,924.43	\$132,924.43	\$0.00	\$132,924.43
11	\$24.60	\$0.00	\$24.60	\$134,205.52	\$0.00	\$134,205.52	\$134,205.52	\$0.00	\$134,205.52
12	\$25.09	\$0.00	\$25.09	\$136,889.63	\$0.00	\$136,889.63	\$136,889.63	\$0.00	\$136,889.63
13	\$25.59	\$0.00	\$25.59	\$139,627.42	\$0.00	\$139,627.42	\$139,627.42	\$0.00	\$139,627.42
14	\$26.10	\$0.00	\$26.10	\$142,419.97	\$0.00	\$142,419.97	\$142,419.97	\$0.00	\$142,419.97
15	\$26.63	\$0.00	\$26.63	\$145,268.37	\$0.00	\$145,268.37	\$145,268.37	\$0.00	\$145,268.37
16	\$132.19	\$0.00	\$132.19	\$141,439.33	\$0.00	\$141,439.33	\$141,439.33	\$0.00	\$141,439.33
17	\$134.83	\$0.00	\$134.83	\$144,268.12	\$0.00	\$144,268.12	\$144,268.12	\$0.00	\$144,268.12
18	\$137.53	\$0.00	\$137.53	\$147,153.48	\$0.00	\$147,153.48	\$147,153.48	\$0.00	\$147,153.48
19	\$16.69	\$0.00	\$16.69	\$16,489.53	\$0.00	\$16,489.53	\$16,489.53	\$0.00	\$16,489.53
20	\$17.02	\$0.00	\$17.02	\$16,819.32	\$0.00	\$16,819.32	\$16,819.32	\$0.00	\$16,819.32
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$787.02	\$0.00	\$787.02	\$2,385,614.59	\$0.00	\$2,385,614.59	\$2,385,614.59	\$0.00	\$2,385,614.59

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$20,154.78	\$3,573.20	\$125,627.00	\$0.00	\$149,354.98	\$256.34	\$256.34	\$573.55	\$573.55	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$20,154.78	\$3,573.20	\$125,627.00	\$0.00	\$149,354.98	\$256.34	\$256.34	\$573.55	\$573.55	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Residential Programs

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$49,239.38	\$0.00	\$10,812.61	\$0.00	\$60,051.99	\$0.00	\$0.00	\$0.00
2	\$40,941.04	\$0.00	\$2,095.64	\$0.00	\$43,036.68	\$0.00	\$0.00	\$0.00
3	\$42,333.94	\$0.00	\$2,158.51	\$0.00	\$44,492.45	\$0.00	\$0.00	\$0.00
4	\$44,048.48	\$0.00	\$2,223.27	\$0.00	\$46,271.75	\$0.00	\$0.00	\$0.00
5	\$44,729.35	\$0.00	\$2,289.96	\$0.00	\$47,019.31	\$0.00	\$0.00	\$0.00
6	\$44,218.43	\$0.00	\$2,358.66	\$0.00	\$46,577.09	\$0.00	\$0.00	\$0.00
7	\$44,018.94	\$0.00	\$2,429.42	\$0.00	\$46,448.36	\$0.00	\$0.00	\$0.00
8	\$44,547.04	\$0.00	\$2,502.31	\$0.00	\$47,049.34	\$0.00	\$0.00	\$0.00
9	\$45,061.95	\$0.00	\$2,577.37	\$0.00	\$47,639.33	\$0.00	\$0.00	\$0.00
10	\$46,011.37	\$0.00	\$2,654.70	\$0.00	\$48,666.06	\$0.00	\$0.00	\$0.00
11	\$48,103.39	\$0.00	\$2,661.00	\$0.00	\$50,764.39	\$0.00	\$0.00	\$0.00
12	\$53,892.82	\$0.00	\$2,740.83	\$0.00	\$56,633.65	\$0.00	\$0.00	\$0.00
13	\$55,013.04	\$0.00	\$2,823.05	\$0.00	\$57,836.10	\$0.00	\$0.00	\$0.00
14	\$58,476.51	\$0.00	\$2,907.75	\$0.00	\$61,384.26	\$0.00	\$0.00	\$0.00
15	\$62,313.29	\$0.00	\$2,994.98	\$0.00	\$65,308.27	\$0.00	\$0.00	\$0.00
16	\$65,411.95	\$0.00	\$2,915.09	\$0.00	\$68,327.04	\$0.00	\$0.00	\$0.00
17	\$67,829.15	\$0.00	\$3,002.54	\$0.00	\$70,831.69	\$0.00	\$0.00	\$0.00
18	\$73,887.70	\$0.00	\$3,092.62	\$0.00	\$76,980.31	\$0.00	\$0.00	\$0.00
19	\$8,519.99	\$0.00	\$263.11	\$0.00	\$8,783.10	\$0.00	\$0.00	\$0.00
20	\$8,979.05	\$0.00	\$271.01	\$0.00	\$9,250.05	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$947,576.79	\$0.00	\$55,774.42	\$0.00	\$1,003,351.21	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$34,619.45	\$59,724.47	\$10,812.61	\$0.00	\$105,156.53	\$0.00	\$0.00	\$0.00
2	\$28,783.21	\$11,238.33	\$2,095.64	\$0.00	\$42,117.17	\$0.00	\$0.00	\$0.00
3	\$29,762.47	\$11,238.33	\$2,158.51	\$0.00	\$43,159.30	\$0.00	\$0.00	\$0.00
4	\$30,967.86	\$11,238.33	\$2,223.27	\$0.00	\$44,429.45	\$0.00	\$0.00	\$0.00
5	\$31,446.54	\$11,238.33	\$2,289.96	\$0.00	\$44,974.83	\$0.00	\$0.00	\$0.00
6	\$31,087.34	\$11,238.33	\$2,358.66	\$0.00	\$44,684.33	\$0.00	\$0.00	\$0.00
7	\$30,947.09	\$11,238.33	\$2,429.42	\$0.00	\$44,614.84	\$0.00	\$0.00	\$0.00
8	\$31,318.37	\$11,238.33	\$2,502.31	\$0.00	\$45,059.00	\$0.00	\$0.00	\$0.00
9	\$31,680.37	\$11,238.33	\$2,577.37	\$0.00	\$45,496.07	\$0.00	\$0.00	\$0.00
10	\$32,347.85	\$11,238.33	\$2,654.70	\$0.00	\$46,240.87	\$0.00	\$0.00	\$0.00
11	\$33,818.63	\$10,936.90	\$2,661.00	\$0.00	\$47,416.53	\$0.00	\$0.00	\$0.00
12	\$37,888.83	\$10,936.90	\$2,740.83	\$0.00	\$51,566.57	\$0.00	\$0.00	\$0.00
13	\$38,676.39	\$10,936.90	\$2,823.05	\$0.00	\$52,436.35	\$0.00	\$0.00	\$0.00
14	\$41,111.35	\$10,936.90	\$2,907.75	\$0.00	\$54,956.00	\$0.00	\$0.00	\$0.00
15	\$43,808.76	\$10,936.90	\$2,994.98	\$0.00	\$57,740.65	\$0.00	\$0.00	\$0.00
16	\$45,987.25	\$10,335.11	\$2,915.09	\$0.00	\$59,237.44	\$0.00	\$0.00	\$0.00
17	\$47,686.64	\$10,335.11	\$3,002.54	\$0.00	\$61,024.28	\$0.00	\$0.00	\$0.00
18	\$51,946.04	\$10,335.11	\$3,092.62	\$0.00	\$65,373.76	\$0.00	\$0.00	\$0.00
19	\$5,989.90	\$853.68	\$263.11	\$0.00	\$7,106.69	\$0.00	\$0.00	\$0.00
20	\$6,312.63	\$853.68	\$271.01	\$0.00	\$7,437.32	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$666,186.98	\$248,266.60	\$55,774.42	\$0.00	\$970,228.00	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$46,439.96	\$0.00	\$10,812.61	\$0.00	\$57,252.57
2	\$38,618.58	\$0.00	\$2,095.64	\$0.00	\$40,714.22
3	\$39,932.46	\$0.00	\$2,158.51	\$0.00	\$42,090.97
4	\$41,549.74	\$0.00	\$2,223.27	\$0.00	\$43,773.01
5	\$42,191.98	\$0.00	\$2,289.96	\$0.00	\$44,481.95
6	\$41,710.05	\$0.00	\$2,358.66	\$0.00	\$44,068.71
7	\$41,521.88	\$0.00	\$2,429.42	\$0.00	\$43,951.30
8	\$42,020.02	\$0.00	\$2,502.31	\$0.00	\$44,522.32
9	\$42,505.72	\$0.00	\$2,577.37	\$0.00	\$45,083.10
10	\$43,401.28	\$0.00	\$2,654.70	\$0.00	\$46,055.98
11	\$45,374.63	\$0.00	\$2,661.00	\$0.00	\$48,035.63
12	\$50,835.64	\$0.00	\$2,740.83	\$0.00	\$53,576.47
13	\$51,892.31	\$0.00	\$2,823.05	\$0.00	\$54,715.37
14	\$55,159.31	\$0.00	\$2,907.75	\$0.00	\$58,067.06
15	\$58,778.44	\$0.00	\$2,994.98	\$0.00	\$61,773.42
16	\$61,701.32	\$0.00	\$2,915.09	\$0.00	\$64,616.41
17	\$63,981.41	\$0.00	\$3,002.54	\$0.00	\$66,983.95
18	\$69,696.27	\$0.00	\$3,092.62	\$0.00	\$72,788.88
19	\$8,036.67	\$0.00	\$263.11	\$0.00	\$8,299.79
20	\$8,469.69	\$0.00	\$271.01	\$0.00	\$8,740.70
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$893,817.38	\$0.00	\$55,774.42	\$0.00	\$949,591.80

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$34,619.45	\$59,724.47	\$10,812.61	\$0.00	\$105,156.53
2	\$26,877.58	\$10,494.28	\$1,956.90	\$0.00	\$39,328.76
3	\$25,952.02	\$9,799.50	\$1,882.16	\$0.00	\$37,633.67
4	\$25,215.32	\$9,150.71	\$1,810.28	\$0.00	\$36,176.31
5	\$23,909.87	\$8,544.88	\$1,741.14	\$0.00	\$34,195.89
6	\$22,071.86	\$7,979.16	\$1,674.64	\$0.00	\$31,725.66
7	\$20,517.59	\$7,450.89	\$1,610.68	\$0.00	\$29,579.16
8	\$19,389.06	\$6,957.60	\$1,549.17	\$0.00	\$27,895.82
9	\$18,314.66	\$6,496.96	\$1,490.00	\$0.00	\$26,301.62
10	\$17,462.45	\$6,066.82	\$1,433.09	\$0.00	\$24,962.37
11	\$17,047.74	\$5,513.22	\$1,341.39	\$0.00	\$23,902.35
12	\$17,835.00	\$5,148.21	\$1,290.16	\$0.00	\$24,273.37
13	\$17,000.39	\$4,807.37	\$1,240.89	\$0.00	\$23,048.65
14	\$16,874.30	\$4,489.09	\$1,193.49	\$0.00	\$22,556.89
15	\$16,790.98	\$4,191.89	\$1,147.91	\$0.00	\$22,130.78
16	\$16,459.01	\$3,698.97	\$1,043.32	\$0.00	\$21,201.30
17	\$15,937.27	\$3,454.08	\$1,003.47	\$0.00	\$20,394.82
18	\$16,211.41	\$3,225.40	\$965.15	\$0.00	\$20,401.96
19	\$1,745.58	\$248.78	\$76.68	\$0.00	\$2,071.03
20	\$1,717.83	\$232.31	\$73.75	\$0.00	\$2,023.89
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$371,949.39		\$167,674.58	\$35,336.87	\$0.00	\$574,960.84
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Drive Power

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	21.10	12.10	20.14	20.74	19.03	63.44
TRC Test	2.25	1.29	2.15	2.21	2.03	6.76
RIM Test	0.54	0.31	0.51	0.53	0.48	1.60
RIM (Net Fuel)	0.54	0.31	0.51	0.53	0.48	1.60
Societal Test	2.83	1.63	2.71	2.79	2.56	8.53
Participant Test	4.19	4.16	4.19	4.19	4.19	4.22

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$3,517,911.78	\$2,833,416.71	\$4,961,429.81	\$5,120,290.92	\$4,668,909.64	\$16,416,476.93
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$1,698,500.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$5,583,676.89	\$3,200,681.56	\$5,328,694.66	\$5,487,555.77	\$5,036,174.49	\$16,783,741.78
Administration Costs	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71
Implementation / Participation Costs	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00
Total	\$264,578.18	\$264,578.18	\$264,578.18	\$264,578.18	\$264,578.18	\$264,578.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	21.10	12.10	20.14	20.74	19.03	63.44

TRC Test						
Avoided Electric Production	\$3,517,911.78	\$2,833,416.71	\$4,961,429.81	\$5,120,290.92	\$4,668,909.64	\$16,416,476.93
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$1,698,500.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$5,583,676.89	\$3,200,681.56	\$5,328,694.66	\$5,487,555.77	\$5,036,174.49	\$16,783,741.78
Administration Costs	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71
Implementation / Participation Costs	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$6,833.18	\$6,833.18	\$6,833.18	\$6,833.18	\$6,833.18	\$6,833.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.25	1.29	2.15	2.21	2.03	6.76

RIM Test						
Avoided Electric Production	\$3,517,911.78	\$2,833,416.71	\$4,961,429.81	\$5,120,290.92	\$4,668,909.64	\$16,416,476.93
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$1,698,500.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85	\$367,264.85
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$5,583,676.89	\$3,200,681.56	\$5,328,694.66	\$5,487,555.77	\$5,036,174.49	\$16,783,741.78
Administration Costs	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71
Implementation / Participation Costs	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00
Total	\$264,578.18	\$264,578.18	\$264,578.18	\$264,578.18	\$264,578.18	\$264,578.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$10,130,352.15	\$10,050,821.80	\$10,130,352.15	\$10,130,352.15	\$10,130,352.15	\$10,202,148.23
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$10,130,352.15	\$10,050,821.80	\$10,130,352.15	\$10,130,352.15	\$10,130,352.15	\$10,202,148.23
Electric Lost Revenue (Net Fuel)	\$10,130,352.15	\$10,050,821.80	\$10,130,352.15	\$10,130,352.15	\$10,130,352.15	\$10,202,148.23
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$10,130,352.15	\$10,050,821.80	\$10,130,352.15	\$10,130,352.15	\$10,130,352.15	\$10,202,148.23
Test Results	0.54	0.31	0.51	0.53	0.48	1.60

Societal Test						
Avoided Electric Production	\$4,442,266.80	\$3,577,916.04	\$6,265,078.93	\$6,465,681.87	\$5,895,697.11	\$20,730,016.88
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,113,567.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$466,041.73	\$466,041.73	\$466,041.73	\$466,041.73	\$466,041.73	\$466,041.73
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,021,876.04	\$4,043,957.77	\$6,731,120.66	\$6,931,723.60	\$6,361,738.84	\$21,196,058.61
Administration Costs	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71	\$169.71
Implementation / Participation Costs	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47	\$6,663.47
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$6,833.18	\$6,833.18	\$6,833.18	\$6,833.18	\$6,833.18	\$6,833.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.83	1.63	2.71	2.79	2.56	8.53

Participant Test						
Incentives	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00	\$257,745.00
Participant or Unit Costs (Gross)	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69	\$2,476,816.69
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$10,130,352.15	\$10,050,821.80	\$10,130,352.15	\$10,130,352.15	\$10,130,352.15	\$10,202,148.23
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$10,130,352.15	\$10,050,821.80	\$10,130,352.15	\$10,130,352.15	\$10,130,352.15	\$10,202,148.23
Test Results	4.19	4.16	4.19	4.19	4.19	4.22

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	49,936.72	49,936.72	49,936.72	49,936.72	49,936.72	49,936.72
kWh (Discounted)	190,048,331.28	188,032,222.47	190,048,331.28	190,048,331.28	190,048,331.28	191,866,736.12
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	49,936.72	49,936.72	49,936.72	49,936.72	49,936.72	49,936.72
kWh (Undiscounted)	190,048,331.28	188,032,222.47	190,048,331.28	190,048,331.28	190,048,331.28	191,866,736.12
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Costs	Net Benefits	Benefit/ Cost Ratio	
\$5,583,676.89	\$264,578.18	\$5,319,098.71	21.10	Utility (PAC) Test
\$5,583,676.89	\$2,483,649.87	\$3,100,027.02	2.25	TRC Test
\$5,583,676.89	\$10,394,930.33	(\$4,811,253.44)	0.54	RIM Test
\$5,583,676.89	\$10,394,930.33	(\$4,811,253.44)	0.54	RIM (Net Fuel) Test
\$7,021,876.04	\$2,483,649.87	\$4,538,226.17	2.83	Societal Test
\$10,388,097.15	\$2,476,816.69	\$7,911,280.46	4.19	Participant Test

Participants	kWh	Summer kW	Winter kW	Generator Meter
600	21,116	1,665	1,665	
	19,136	1,508	1,508	

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$169.71	\$6,663.47	\$0.00	\$257,745.00	\$264,578.18

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	600	0	600	0	600	600	\$2,476,816.69	\$0.00	\$2,476,816.69	\$2,476,816.69	\$0.00	\$2,476,816.69
2	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	600	0	600	600	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	600	0	9,000	0	9,000	9,000	\$2,476,817	\$0	\$2,476,817	\$2,476,817	\$0	\$2,476,817

Impacts and Savings (Losses Included)																
Year	Electric Impacts/Savings															
	Per Participant or Unit												Cumulative			
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	
1	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
2	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
3	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
4	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
5	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
6	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
7	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
8	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
9	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
10	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
11	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
12	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
13	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
14	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
15	3.557	3.557	2.774	2.774	2.774	2.774	21,116.48	21,116.48	2,134	2,134	1,665	1,665	1,665	1,665	12,669,889	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
Totals							316,747	316,747								

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$1,548.29	\$0.00	\$1,548.29	\$928,976.88	\$0.00	\$928,976.88	\$928,976.88	\$0.00	\$928,976.88
2	\$1,579.26	\$0.00	\$1,579.26	\$947,556.41	\$0.00	\$947,556.41	\$947,556.41	\$0.00	\$947,556.41
3	\$1,610.85	\$0.00	\$1,610.85	\$966,507.54	\$0.00	\$966,507.54	\$966,507.54	\$0.00	\$966,507.54
4	\$1,643.06	\$0.00	\$1,643.06	\$985,837.69	\$0.00	\$985,837.69	\$985,837.69	\$0.00	\$985,837.69
5	\$1,675.92	\$0.00	\$1,675.92	\$1,005,554.45	\$0.00	\$1,005,554.45	\$1,005,554.45	\$0.00	\$1,005,554.45
6	\$1,709.44	\$0.00	\$1,709.44	\$1,025,665.53	\$0.00	\$1,025,665.53	\$1,025,665.53	\$0.00	\$1,025,665.53
7	\$1,743.63	\$0.00	\$1,743.63	\$1,046,178.85	\$0.00	\$1,046,178.85	\$1,046,178.85	\$0.00	\$1,046,178.85
8	\$1,778.50	\$0.00	\$1,778.50	\$1,067,102.42	\$0.00	\$1,067,102.42	\$1,067,102.42	\$0.00	\$1,067,102.42
9	\$1,814.07	\$0.00	\$1,814.07	\$1,088,444.47	\$0.00	\$1,088,444.47	\$1,088,444.47	\$0.00	\$1,088,444.47
10	\$1,850.36	\$0.00	\$1,850.36	\$1,110,213.36	\$0.00	\$1,110,213.36	\$1,110,213.36	\$0.00	\$1,110,213.36
11	\$1,887.36	\$0.00	\$1,887.36	\$1,132,417.63	\$0.00	\$1,132,417.63	\$1,132,417.63	\$0.00	\$1,132,417.63
12	\$1,925.11	\$0.00	\$1,925.11	\$1,155,065.98	\$0.00	\$1,155,065.98	\$1,155,065.98	\$0.00	\$1,155,065.98
13	\$1,963.61	\$0.00	\$1,963.61	\$1,178,167.30	\$0.00	\$1,178,167.30	\$1,178,167.30	\$0.00	\$1,178,167.30
14	\$2,002.88	\$0.00	\$2,002.88	\$1,201,730.65	\$0.00	\$1,201,730.65	\$1,201,730.65	\$0.00	\$1,201,730.65
15	\$2,042.94	\$0.00	\$2,042.94	\$1,225,765.26	\$0.00	\$1,225,765.26	\$1,225,765.26	\$0.00	\$1,225,765.26
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$26,775.31	\$0.00	\$26,775.31	\$16,065,184.41	\$0.00	\$16,065,184.41	\$16,065,184.41	\$0.00	\$16,065,184.41

Utility Program Costs										
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)				
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF
1	\$169.71	\$6,663.47	\$257,745.00	\$0.00	\$264,578.18	\$79.47	\$79.47	\$123.96	\$123.96	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$169.71	\$6,663.47	\$257,745.00	\$0.00	\$264,578.18	\$79.47	\$79.47	\$123.96	\$123.96	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Drive Power

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$522,272.78	\$0.00	\$31,705.96	\$0.00	\$553,978.74	\$0.00	\$0.00	\$0.00
2	\$446,545.67	\$0.00	\$32,657.14	\$0.00	\$479,202.81	\$0.00	\$0.00	\$0.00
3	\$461,738.06	\$0.00	\$33,636.86	\$0.00	\$495,374.92	\$0.00	\$0.00	\$0.00
4	\$480,438.68	\$0.00	\$34,645.96	\$0.00	\$515,084.64	\$0.00	\$0.00	\$0.00
5	\$487,864.91	\$0.00	\$35,685.34	\$0.00	\$523,550.25	\$0.00	\$0.00	\$0.00
6	\$482,292.27	\$0.00	\$36,755.90	\$0.00	\$519,048.17	\$0.00	\$0.00	\$0.00
7	\$480,116.46	\$0.00	\$37,858.58	\$0.00	\$517,975.04	\$0.00	\$0.00	\$0.00
8	\$485,876.44	\$0.00	\$38,994.33	\$0.00	\$524,870.77	\$0.00	\$0.00	\$0.00
9	\$491,492.63	\$0.00	\$40,164.16	\$0.00	\$531,656.80	\$0.00	\$0.00	\$0.00
10	\$501,847.98	\$0.00	\$41,369.09	\$0.00	\$543,217.07	\$0.00	\$0.00	\$0.00
11	\$530,050.59	\$0.00	\$42,610.16	\$0.00	\$572,660.75	\$0.00	\$0.00	\$0.00
12	\$593,844.24	\$0.00	\$43,888.47	\$0.00	\$637,732.71	\$0.00	\$0.00	\$0.00
13	\$606,187.91	\$0.00	\$45,205.12	\$0.00	\$651,393.04	\$0.00	\$0.00	\$0.00
14	\$644,351.86	\$0.00	\$46,561.27	\$0.00	\$690,913.14	\$0.00	\$0.00	\$0.00
15	\$686,629.28	\$0.00	\$47,958.11	\$0.00	\$734,587.39	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$7,901,549.77	\$0.00	\$589,696.46	\$0.00	\$8,491,246.23	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$370,318.56	\$175,130.90	\$31,705.96	\$0.00	\$577,155.43	\$0.00	\$0.00	\$0.00
2	\$316,624.10	\$175,130.90	\$32,657.14	\$0.00	\$524,412.14	\$0.00	\$0.00	\$0.00
3	\$327,396.30	\$175,130.90	\$33,636.86	\$0.00	\$536,164.06	\$0.00	\$0.00	\$0.00
4	\$340,656.01	\$175,130.90	\$34,645.96	\$0.00	\$550,432.87	\$0.00	\$0.00	\$0.00
5	\$345,921.60	\$175,130.90	\$35,685.34	\$0.00	\$556,737.84	\$0.00	\$0.00	\$0.00
6	\$341,970.30	\$175,130.90	\$36,755.90	\$0.00	\$553,857.10	\$0.00	\$0.00	\$0.00
7	\$340,427.54	\$175,130.90	\$37,858.58	\$0.00	\$553,417.02	\$0.00	\$0.00	\$0.00
8	\$344,511.66	\$175,130.90	\$38,994.33	\$0.00	\$558,636.90	\$0.00	\$0.00	\$0.00
9	\$348,493.84	\$175,130.90	\$40,164.16	\$0.00	\$563,788.91	\$0.00	\$0.00	\$0.00
10	\$355,836.32	\$175,130.90	\$41,369.09	\$0.00	\$572,336.31	\$0.00	\$0.00	\$0.00
11	\$375,833.44	\$175,130.90	\$42,610.16	\$0.00	\$593,574.50	\$0.00	\$0.00	\$0.00
12	\$421,066.45	\$175,130.90	\$43,888.47	\$0.00	\$640,085.82	\$0.00	\$0.00	\$0.00
13	\$429,818.76	\$175,130.90	\$45,205.12	\$0.00	\$650,154.78	\$0.00	\$0.00	\$0.00
14	\$456,878.98	\$175,130.90	\$46,561.27	\$0.00	\$678,571.16	\$0.00	\$0.00	\$0.00
15	\$486,855.87	\$175,130.90	\$47,958.11	\$0.00	\$709,944.89	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$5,602,609.74	\$2,626,963.54	\$589,696.46	\$0.00	\$8,819,269.73	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$491,480.18	\$0.00	\$31,705.96	\$0.00	\$523,186.14
2	\$420,217.85	\$0.00	\$32,657.14	\$0.00	\$452,874.99
3	\$434,514.52	\$0.00	\$33,636.86	\$0.00	\$468,151.37
4	\$452,112.57	\$0.00	\$34,645.96	\$0.00	\$486,758.53
5	\$459,100.96	\$0.00	\$35,685.34	\$0.00	\$494,786.30
6	\$453,856.87	\$0.00	\$36,755.90	\$0.00	\$490,612.77
7	\$451,809.35	\$0.00	\$37,858.58	\$0.00	\$489,667.93
8	\$457,229.72	\$0.00	\$38,994.33	\$0.00	\$496,224.06
9	\$462,514.80	\$0.00	\$40,164.16	\$0.00	\$502,678.96
10	\$472,259.60	\$0.00	\$41,369.09	\$0.00	\$513,628.69
11	\$498,799.42	\$0.00	\$42,610.16	\$0.00	\$541,409.58
12	\$558,831.87	\$0.00	\$43,888.47	\$0.00	\$602,720.34
13	\$570,447.78	\$0.00	\$45,205.12	\$0.00	\$615,652.90
14	\$606,361.62	\$0.00	\$46,561.27	\$0.00	\$652,922.89
15	\$646,146.41	\$0.00	\$47,958.11	\$0.00	\$694,104.53
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$7,435,683.51	\$0.00	\$589,696.46	\$0.00	\$8,025,379.97

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$370,318.56	\$175,130.90	\$31,705.96	\$0.00	\$577,155.43
2	\$295,661.69	\$163,536.19	\$30,495.04	\$0.00	\$489,692.92
3	\$285,480.16	\$152,709.11	\$29,330.37	\$0.00	\$467,519.64
4	\$277,376.27	\$142,598.85	\$28,210.18	\$0.00	\$448,185.30
5	\$263,015.90	\$133,157.95	\$27,132.77	\$0.00	\$423,306.62
6	\$242,797.27	\$124,342.10	\$26,096.51	\$0.00	\$393,235.88
7	\$225,699.80	\$116,109.91	\$25,099.83	\$0.00	\$366,909.54
8	\$213,285.58	\$108,422.73	\$24,141.21	\$0.00	\$345,849.53
9	\$201,466.92	\$101,244.50	\$23,219.21	\$0.00	\$325,930.63
10	\$192,092.32	\$94,541.51	\$22,332.42	\$0.00	\$308,966.24
11	\$189,455.07	\$88,282.29	\$21,479.49	\$0.00	\$299,216.85
12	\$198,204.06	\$82,437.48	\$20,659.14	\$0.00	\$301,300.67
13	\$188,928.88	\$76,979.62	\$19,870.13	\$0.00	\$285,778.62
14	\$187,527.62	\$71,883.11	\$19,111.24	\$0.00	\$278,521.97
15	\$186,601.68	\$67,124.01	\$18,381.34	\$0.00	\$272,107.04
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$3,517,911.78		\$1,698,500.26	\$367,264.85	\$0.00	\$5,583,676.89
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Custom Efficiency Grants

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	3.75	0.95	1.22	1.25	1.19	2.70
TRC Test	3.07	0.78	1.00	1.02	0.97	2.21
RIM Test	0.72	0.18	0.23	0.24	0.23	0.51
RIM (Net Fuel)	0.72	0.18	0.23	0.24	0.23	0.51
Societal Test	3.84	0.99	1.27	1.29	1.23	2.79
Participant Test	5.09	5.08	5.09	5.09	5.09	5.10

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$31,805.21	\$8,476.18	\$23,329.03	3.75	Utility (PAC) Test
\$31,805.21	\$10,361.18	\$21,444.03	3.07	TRC Test
\$31,805.21	\$44,396.43	(\$12,591.22)	0.72	RIM Test
\$31,805.21	\$44,396.43	(\$12,591.22)	0.72	RIM (Net Fuel) Test
\$39,770.29	\$10,361.18	\$29,409.11	3.84	Societal Test
\$42,360.25	\$8,325.00	\$34,035.25	5.09	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test						
Avoided Electric Production	\$3,836.40	\$3,089.93	\$5,410.60	\$5,583.84	\$5,091.60	\$17,902.70
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$22,996.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$31,805.21	\$8,062.41	\$10,383.07	\$10,556.32	\$10,064.07	\$22,875.17
Administration Costs	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94
Implementation / Participation Costs	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00
Total	\$8,476.18	\$8,476.18	\$8,476.18	\$8,476.18	\$8,476.18	\$8,476.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	3.75	0.95	1.22	1.25	1.19	2.70
TRC Test						
Avoided Electric Production	\$3,836.40	\$3,089.93	\$5,410.60	\$5,583.84	\$5,091.60	\$17,902.70
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$22,996.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$31,805.21	\$8,062.41	\$10,383.07	\$10,556.32	\$10,064.07	\$22,875.17
Administration Costs	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94
Implementation / Participation Costs	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$2,036.18	\$2,036.18	\$2,036.18	\$2,036.18	\$2,036.18	\$2,036.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	3.07	0.78	1.00	1.02	0.97	2.21
RIM Test						
Avoided Electric Production	\$3,836.40	\$3,089.93	\$5,410.60	\$5,583.84	\$5,091.60	\$17,902.70
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$22,996.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47	\$4,972.47
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$31,805.21	\$8,062.41	\$10,383.07	\$10,556.32	\$10,064.07	\$22,875.17
Administration Costs	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94
Implementation / Participation Costs	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00
Total	\$8,476.18	\$8,476.18	\$8,476.18	\$8,476.18	\$8,476.18	\$8,476.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$35,920.25	\$35,833.52	\$35,920.25	\$35,920.25	\$35,920.25	\$35,998.55
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$35,920.25	\$35,833.52	\$35,920.25	\$35,920.25	\$35,920.25	\$35,998.55
Electric Lost Revenue (Net Fuel)	\$35,920.25	\$35,833.52	\$35,920.25	\$35,920.25	\$35,920.25	\$35,998.55
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$35,920.25	\$35,833.52	\$35,920.25	\$35,920.25	\$35,920.25	\$35,998.55
Test Results	0.72	0.18	0.23	0.24	0.23	0.51
Societal Test						
Avoided Electric Production	\$4,844.44	\$3,901.83	\$6,832.27	\$7,051.04	\$6,429.45	\$22,666.75
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$28,616.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$6,309.83	\$6,309.83	\$6,309.83	\$6,309.83	\$6,309.83	\$6,309.83
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$39,770.29	\$10,211.67	\$13,142.11	\$13,360.87	\$12,739.28	\$28,916.59
Administration Costs	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94	\$834.94
Implementation / Participation Costs	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24	\$1,201.24
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$2,036.18	\$2,036.18	\$2,036.18	\$2,036.18	\$2,036.18	\$2,036.18
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	3.84	0.99	1.27	1.29	1.23	2.79
Participant Test						
Incentives	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00	\$6,440.00
Participant or Unit Costs (Gross)	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00	\$8,325.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$35,920.25	\$35,833.52	\$35,920.25	\$35,920.25	\$35,920.25	\$35,998.55
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$35,920.25	\$35,833.52	\$35,920.25	\$35,920.25	\$35,920.25	\$35,998.55
Test Results	5.09	5.08	5.09	5.09	5.09	5.10

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	676.10	676.10	676.10	676.10	676.10	676.10
kWh (Discounted)	207,253.85	205,055.22	207,253.85	207,253.85	207,253.85	209,236.88
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	676.10	676.10	676.10	676.10	676.10	676.10
kWh (Undiscounted)	207,253.85	205,055.22	207,253.85	207,253.85	207,253.85	209,236.88
CCF (Undiscounted)	-	-	-	-	-	-

Participants	kWh	Summer kW	Winter kW	
1	23	13,817	23	Generator
	20	12,521	20	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$834.94	\$1,201.24	\$0.00	\$6,440.00	\$8,476.18

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	1	0	1	0	1	1	\$8,325.00	\$0.00	\$8,325.00	\$8,325.00	\$0.00	\$8,325.00
2	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	1	0	15	0	15	15	\$8,325	\$0	\$8,325	\$8,325	\$0	\$8,325

Impacts and Savings (Losses Included)																
Year	Electric Impacts/Savings															
	Per Participant or Unit												Cumulative			
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	
1	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
2	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
3	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
4	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
5	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
6	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
7	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
8	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
9	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
10	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
11	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
12	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
13	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
14	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
15	22.537	22.537	22.537	22.537	22.537	22.537	13,816.92	13,816.92	23	23	23	23	23	23	13,817	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
Totals							207,254	207,254								

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$3,293.97	\$0.00	\$3,293.97	\$3,293.97	\$0.00	\$3,293.97	\$3,293.97	\$0.00	\$3,293.97
2	\$3,359.85	\$0.00	\$3,359.85	\$3,359.85	\$0.00	\$3,359.85	\$3,359.85	\$0.00	\$3,359.85
3	\$3,427.05	\$0.00	\$3,427.05	\$3,427.05	\$0.00	\$3,427.05	\$3,427.05	\$0.00	\$3,427.05
4	\$3,495.59	\$0.00	\$3,495.59	\$3,495.59	\$0.00	\$3,495.59	\$3,495.59	\$0.00	\$3,495.59
5	\$3,565.50	\$0.00	\$3,565.50	\$3,565.50	\$0.00	\$3,565.50	\$3,565.50	\$0.00	\$3,565.50
6	\$3,636.81	\$0.00	\$3,636.81	\$3,636.81	\$0.00	\$3,636.81	\$3,636.81	\$0.00	\$3,636.81
7	\$3,709.55	\$0.00	\$3,709.55	\$3,709.55	\$0.00	\$3,709.55	\$3,709.55	\$0.00	\$3,709.55
8	\$3,783.74	\$0.00	\$3,783.74	\$3,783.74	\$0.00	\$3,783.74	\$3,783.74	\$0.00	\$3,783.74
9	\$3,859.41	\$0.00	\$3,859.41	\$3,859.41	\$0.00	\$3,859.41	\$3,859.41	\$0.00	\$3,859.41
10	\$3,936.60	\$0.00	\$3,936.60	\$3,936.60	\$0.00	\$3,936.60	\$3,936.60	\$0.00	\$3,936.60
11	\$4,015.33	\$0.00	\$4,015.33	\$4,015.33	\$0.00	\$4,015.33	\$4,015.33	\$0.00	\$4,015.33
12	\$4,095.64	\$0.00	\$4,095.64	\$4,095.64	\$0.00	\$4,095.64	\$4,095.64	\$0.00	\$4,095.64
13	\$4,177.55	\$0.00	\$4,177.55	\$4,177.55	\$0.00	\$4,177.55	\$4,177.55	\$0.00	\$4,177.55
14	\$4,261.10	\$0.00	\$4,261.10	\$4,261.10	\$0.00	\$4,261.10	\$4,261.10	\$0.00	\$4,261.10
15	\$4,346.32	\$0.00	\$4,346.32	\$4,346.32	\$0.00	\$4,346.32	\$4,346.32	\$0.00	\$4,346.32
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$56,964.01	\$0.00	\$56,964.01	\$56,964.01	\$0.00	\$56,964.01	\$56,964.01	\$0.00	\$56,964.01

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$834.94	\$1,201.24	\$6,440.00	\$0.00	\$8,476.18	\$188.05	\$188.05	\$376.10	\$376.10	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$834.94	\$1,201.24	\$6,440.00	\$0.00	\$8,476.18	\$188.05	\$188.05	\$376.10	\$376.10	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Custom Efficiency Grants

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$569.56	\$0.00	\$429.27	\$0.00	\$998.83	\$0.00	\$0.00	\$0.00
2	\$486.97	\$0.00	\$442.15	\$0.00	\$929.12	\$0.00	\$0.00	\$0.00
3	\$503.54	\$0.00	\$455.42	\$0.00	\$958.96	\$0.00	\$0.00	\$0.00
4	\$523.93	\$0.00	\$469.08	\$0.00	\$993.01	\$0.00	\$0.00	\$0.00
5	\$532.03	\$0.00	\$483.15	\$0.00	\$1,015.18	\$0.00	\$0.00	\$0.00
6	\$525.96	\$0.00	\$497.65	\$0.00	\$1,023.60	\$0.00	\$0.00	\$0.00
7	\$523.58	\$0.00	\$512.57	\$0.00	\$1,036.16	\$0.00	\$0.00	\$0.00
8	\$529.86	\$0.00	\$527.95	\$0.00	\$1,057.82	\$0.00	\$0.00	\$0.00
9	\$535.99	\$0.00	\$543.79	\$0.00	\$1,079.78	\$0.00	\$0.00	\$0.00
10	\$547.28	\$0.00	\$560.10	\$0.00	\$1,107.39	\$0.00	\$0.00	\$0.00
11	\$578.04	\$0.00	\$576.91	\$0.00	\$1,154.94	\$0.00	\$0.00	\$0.00
12	\$647.61	\$0.00	\$594.21	\$0.00	\$1,241.82	\$0.00	\$0.00	\$0.00
13	\$661.07	\$0.00	\$612.04	\$0.00	\$1,273.11	\$0.00	\$0.00	\$0.00
14	\$702.69	\$0.00	\$630.40	\$0.00	\$1,333.09	\$0.00	\$0.00	\$0.00
15	\$748.79	\$0.00	\$649.31	\$0.00	\$1,398.11	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$8,616.90	\$0.00	\$7,984.02	\$0.00	\$16,600.92	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$403.84	\$2,371.13	\$429.27	\$0.00	\$3,204.25	\$0.00	\$0.00	\$0.00
2	\$345.29	\$2,371.13	\$442.15	\$0.00	\$3,158.57	\$0.00	\$0.00	\$0.00
3	\$357.04	\$2,371.13	\$455.42	\$0.00	\$3,183.59	\$0.00	\$0.00	\$0.00
4	\$371.50	\$2,371.13	\$469.08	\$0.00	\$3,211.71	\$0.00	\$0.00	\$0.00
5	\$377.24	\$2,371.13	\$483.15	\$0.00	\$3,231.52	\$0.00	\$0.00	\$0.00
6	\$372.93	\$2,371.13	\$497.65	\$0.00	\$3,241.71	\$0.00	\$0.00	\$0.00
7	\$371.25	\$2,371.13	\$512.57	\$0.00	\$3,254.96	\$0.00	\$0.00	\$0.00
8	\$375.70	\$2,371.13	\$527.95	\$0.00	\$3,274.79	\$0.00	\$0.00	\$0.00
9	\$380.04	\$2,371.13	\$543.79	\$0.00	\$3,294.97	\$0.00	\$0.00	\$0.00
10	\$388.05	\$2,371.13	\$560.10	\$0.00	\$3,319.29	\$0.00	\$0.00	\$0.00
11	\$409.86	\$2,371.13	\$576.91	\$0.00	\$3,357.90	\$0.00	\$0.00	\$0.00
12	\$459.19	\$2,371.13	\$594.21	\$0.00	\$3,424.53	\$0.00	\$0.00	\$0.00
13	\$468.73	\$2,371.13	\$612.04	\$0.00	\$3,451.91	\$0.00	\$0.00	\$0.00
14	\$498.24	\$2,371.13	\$630.40	\$0.00	\$3,499.78	\$0.00	\$0.00	\$0.00
15	\$530.93	\$2,371.13	\$649.31	\$0.00	\$3,551.38	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,109.83	\$35,566.99	\$7,984.02	\$0.00	\$49,660.84	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$535.98	\$0.00	\$429.27	\$0.00	\$965.25
2	\$458.26	\$0.00	\$442.15	\$0.00	\$900.41
3	\$473.85	\$0.00	\$455.42	\$0.00	\$929.27
4	\$493.04	\$0.00	\$469.08	\$0.00	\$962.12
5	\$500.66	\$0.00	\$483.15	\$0.00	\$983.82
6	\$494.95	\$0.00	\$497.65	\$0.00	\$992.59
7	\$492.71	\$0.00	\$512.57	\$0.00	\$1,005.29
8	\$498.62	\$0.00	\$527.95	\$0.00	\$1,026.58
9	\$504.39	\$0.00	\$543.79	\$0.00	\$1,048.18
10	\$515.01	\$0.00	\$560.10	\$0.00	\$1,075.12
11	\$543.96	\$0.00	\$576.91	\$0.00	\$1,120.86
12	\$609.42	\$0.00	\$594.21	\$0.00	\$1,203.64
13	\$622.09	\$0.00	\$612.04	\$0.00	\$1,234.13
14	\$661.26	\$0.00	\$630.40	\$0.00	\$1,291.66
15	\$704.64	\$0.00	\$649.31	\$0.00	\$1,353.96
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$8,108.85	\$0.00	\$7,984.02	\$0.00	\$16,092.87

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$403.84	\$2,371.13	\$429.27	\$0.00	\$3,204.25
2	\$322.43	\$2,214.15	\$412.88	\$0.00	\$2,949.46
3	\$311.33	\$2,067.56	\$397.11	\$0.00	\$2,775.99
4	\$302.49	\$1,930.67	\$381.94	\$0.00	\$2,615.11
5	\$286.83	\$1,802.85	\$367.36	\$0.00	\$2,457.04
6	\$264.78	\$1,683.49	\$353.33	\$0.00	\$2,301.60
7	\$246.13	\$1,572.04	\$339.83	\$0.00	\$2,158.00
8	\$232.59	\$1,467.96	\$326.85	\$0.00	\$2,027.41
9	\$219.71	\$1,370.77	\$314.37	\$0.00	\$1,904.85
10	\$209.48	\$1,280.02	\$302.36	\$0.00	\$1,791.86
11	\$206.61	\$1,195.27	\$290.82	\$0.00	\$1,692.69
12	\$216.15	\$1,116.14	\$279.71	\$0.00	\$1,611.99
13	\$206.03	\$1,042.24	\$269.03	\$0.00	\$1,517.30
14	\$204.50	\$973.24	\$258.75	\$0.00	\$1,436.50
15	\$203.50	\$908.81	\$248.87	\$0.00	\$1,361.17
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$3,836.40		\$22,996.34	\$4,972.47	\$0.00	\$31,805.21
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Direct Install

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC)/UCT Test	0.74	0.41	0.70	0.72	0.66	2.26
TRC Test	1.06	0.59	0.99	1.02	0.94	3.23
RIM Test	0.31	0.18	0.29	0.30	0.28	0.94
RIM (Net Fuel)	0.31	0.18	0.29	0.30	0.28	0.94
Societal Test	1.22	0.68	1.14	1.18	1.08	3.72
Participant Test	0.00	0.00	0.00	0.00	0.00	0.00

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$4,884.44	\$3,917.84	\$6,922.87	\$7,151.29	\$6,523.10	\$23,664.49
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,541.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$510.92	\$510.92	\$510.92	\$510.92	\$510.92	\$510.92
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,936.78	\$4,428.76	\$7,433.79	\$7,662.21	\$7,034.02	\$24,175.41
Administration Costs	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74
Implementation / Participation Costs	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95
Total	\$10,681.89	\$10,681.89	\$10,681.89	\$10,681.89	\$10,681.89	\$10,681.89
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.74	0.41	0.70	0.72	0.66	2.26
TRC Test						
Avoided Electric Production	\$4,884.44	\$3,917.84	\$6,922.87	\$7,151.29	\$6,523.10	\$23,664.49
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,541.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$510.92	\$510.92	\$510.92	\$510.92	\$510.92	\$510.92
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,936.78	\$4,428.76	\$7,433.79	\$7,662.21	\$7,034.02	\$24,175.41
Administration Costs	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74
Implementation / Participation Costs	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,482.94	\$7,482.94	\$7,482.94	\$7,482.94	\$7,482.94	\$7,482.94
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.06	0.59	0.99	1.02	0.94	3.23
RIM Test						
Avoided Electric Production	\$4,884.44	\$3,917.84	\$6,922.87	\$7,151.29	\$6,523.10	\$23,664.49
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,541.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$510.92	\$510.92	\$510.92	\$510.92	\$510.92	\$510.92
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,936.78	\$4,428.76	\$7,433.79	\$7,662.21	\$7,034.02	\$24,175.41
Administration Costs	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74
Implementation / Participation Costs	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95
Total	\$10,681.89	\$10,681.89	\$10,681.89	\$10,681.89	\$10,681.89	\$10,681.89
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$14,742.98	\$14,426.17	\$14,742.98	\$14,742.98	\$14,742.98	\$14,994.04
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue (Net Fuel)	\$14,742.98	\$14,426.17	\$14,742.98	\$14,742.98	\$14,742.98	\$14,994.04
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$14,742.98	\$14,426.17	\$14,742.98	\$14,742.98	\$14,742.98	\$14,994.04
Test Results	0.31	0.18	0.29	0.30	0.28	0.94
Societal Test						
Avoided Electric Production	\$5,617.21	\$4,505.59	\$7,961.44	\$8,224.12	\$7,501.70	\$27,214.64
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,891.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$588.77	\$588.77	\$588.77	\$588.77	\$588.77	\$588.77
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$9,097.50	\$5,094.36	\$8,550.21	\$8,812.90	\$8,090.47	\$27,803.41
Administration Costs	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74	\$6,589.74
Implementation / Participation Costs	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20	\$893.20
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,482.94	\$7,482.94	\$7,482.94	\$7,482.94	\$7,482.94	\$7,482.94
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.22	0.68	1.14	1.18	1.08	3.72
Participant Test						
Incentives	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95	\$3,198.95
Participant or Unit Costs (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$14,742.98	\$14,426.17	\$14,742.98	\$14,742.98	\$14,742.98	\$14,994.04
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$14,742.98	\$14,426.17	\$14,742.98	\$14,742.98	\$14,742.98	\$14,994.04
Test Results	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	60.33	60.33	60.33	60.33	60.33	60.33
kWh (Discounted)	216,504.80	211,365.51	216,504.80	216,504.80	216,504.80	220,570.67
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	60.33	60.33	60.33	60.33	60.33	60.33
kWh (Undiscounted)	216,504.80	211,365.51	216,504.80	216,504.80	216,504.80	220,570.67
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS					Benefit/ Cost Ratio	
Total Benefits	Total Costs	Net Benefits				
\$7,936.78	\$10,681.89	(\$2,745.11)	0.74	Utility (PAC) Test		
\$7,936.78	\$7,482.94	\$453.84	1.06	TRC Test		
\$7,936.78	\$25,424.87	(\$17,488.09)	0.31	RIM Test		
\$7,936.78	\$25,424.87	(\$17,488.09)	0.31	RIM (Net Fuel) Test		
\$9,097.50	\$7,482.94	\$1,614.56	1.22	Societal Test		
\$17,941.93	\$0.00	\$17,941.93	inf.	Participant Test		

Participants	kWh	Summer kW	Winter kW	
466	66	5	5	Generator
	60	4	4	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$6,589.74	\$893.20	\$0.00	\$3,198.95	\$10,681.89

2024 South Dakota Status Report - Direct Impact - Commercial Direct Install

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs Gross			Total Participant Costs Net Free Riders / Drop-Out		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	466	0	466	0	466	466	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	0	0	466	0	466	466	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	466	0	466	466	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	213	0	213	213	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	213	0	213	213	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	211	0	211	211	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	211	0	211	211	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	211	0	211	211	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	191	0	191	191	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	191	0	191	191	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	191	0	191	191	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	122	0	122	122	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	122	0	122	122	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	2	0	2	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	2	0	2	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	2	0	2	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	466	0	3,280	0	3,280	3,280	\$0	\$0	\$0	\$0	\$0	\$0

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	0.013	0.013	0.010	0.010	0.010	0.010	65.78	65.78	6	6	5	5	5	5	30,655
2	0.013	0.013	0.010	0.010	0.010	0.010	65.78	65.78	6	6	5	5	5	5	30,655
3	0.013	0.013	0.010	0.010	0.010	0.010	65.78	65.78	6	6	5	5	5	5	30,655
4	0.013	0.013	0.010	0.010	0.008	0.008	79.20	79.20	3	3	2	2	2	2	16,869
5	0.013	0.013	0.010	0.010	0.008	0.008	79.20	79.20	3	3	2	2	2	2	16,869
6	0.011	0.011	0.009	0.009	0.008	0.008	63.08	63.08	2	2	2	2	2	2	13,309
7	0.011	0.011	0.009	0.009	0.008	0.008	63.08	63.08	2	2	2	2	2	2	13,309
8	0.011	0.011	0.009	0.009	0.008	0.008	63.08	63.08	2	2	2	2	2	2	13,309
9	0.011	0.011	0.009	0.009	0.009	0.009	61.87	61.87	2	2	2	2	2	2	11,817
10	0.011	0.011	0.009	0.009	0.009	0.009	61.87	61.87	2	2	2	2	2	2	11,817
11	0.011	0.011	0.009	0.009	0.009	0.009	61.87	61.87	2	2	2	2	2	2	11,817
12	0.007	0.007	0.007	0.007	0.007	0.007	57.98	57.98	1	1	1	1	1	1	7,073
13	0.007	0.007	0.007	0.007	0.007	0.007	57.98	57.98	1	1	1	1	1	1	7,073
14	0.035	0.035	0.024	0.024	0.024	0.024	212.98	212.98	0	0	0	0	0	0	426
15	0.035	0.035	0.024	0.024	0.024	0.024	212.98	212.98	0	0	0	0	0	0	426
16	0.035	0.035	0.024	0.024	0.024	0.024	212.98	212.98	0	0	0	0	0	0	426
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							1,485	1,485							

2024 South Dakota Status Report - Direct Impact - Commercial Direct Install

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$5.50	\$0.00	\$5.50	\$2,563.47	\$0.00	\$2,563.47	\$2,563.47	\$0.00	\$2,563.47
2	\$5.61	\$0.00	\$5.61	\$2,614.74	\$0.00	\$2,614.74	\$2,614.74	\$0.00	\$2,614.74
3	\$5.72	\$0.00	\$5.72	\$2,667.04	\$0.00	\$2,667.04	\$2,667.04	\$0.00	\$2,667.04
4	\$6.92	\$0.00	\$6.92	\$1,473.21	\$0.00	\$1,473.21	\$1,473.21	\$0.00	\$1,473.21
5	\$7.05	\$0.00	\$7.05	\$1,502.67	\$0.00	\$1,502.67	\$1,502.67	\$0.00	\$1,502.67
6	\$5.76	\$0.00	\$5.76	\$1,215.50	\$0.00	\$1,215.50	\$1,215.50	\$0.00	\$1,215.50
7	\$5.88	\$0.00	\$5.88	\$1,239.81	\$0.00	\$1,239.81	\$1,239.81	\$0.00	\$1,239.81
8	\$5.99	\$0.00	\$5.99	\$1,264.60	\$0.00	\$1,264.60	\$1,264.60	\$0.00	\$1,264.60
9	\$6.00	\$0.00	\$6.00	\$1,146.00	\$0.00	\$1,146.00	\$1,146.00	\$0.00	\$1,146.00
10	\$6.12	\$0.00	\$6.12	\$1,168.92	\$0.00	\$1,168.92	\$1,168.92	\$0.00	\$1,168.92
11	\$6.24	\$0.00	\$6.24	\$1,192.30	\$0.00	\$1,192.30	\$1,192.30	\$0.00	\$1,192.30
12	\$5.84	\$0.00	\$5.84	\$712.09	\$0.00	\$712.09	\$712.09	\$0.00	\$712.09
13	\$5.95	\$0.00	\$5.95	\$726.33	\$0.00	\$726.33	\$726.33	\$0.00	\$726.33
14	\$22.71	\$0.00	\$22.71	\$45.41	\$0.00	\$45.41	\$45.41	\$0.00	\$45.41
15	\$23.16	\$0.00	\$23.16	\$46.32	\$0.00	\$46.32	\$46.32	\$0.00	\$46.32
16	\$23.62	\$0.00	\$23.62	\$47.25	\$0.00	\$47.25	\$47.25	\$0.00	\$47.25
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$148.08	\$0.00	\$148.08	\$19,625.68	\$0.00	\$19,625.68	\$19,625.68	\$0.00	\$19,625.68

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$6,589.74	\$893.20	\$3,198.95	\$0.00	\$10,681.89	\$1,143.17	\$1,143.17	\$1,726.45	\$1,726.45	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,589.74	\$893.20	\$3,198.95	\$0.00	\$10,681.89	\$1,143.17	\$1,143.17	\$1,726.45	\$1,726.45	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Direct Install

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$1,373.32	\$0.00	\$91.51	\$0.00	\$1,464.83	\$0.00	\$0.00	\$0.00
2	\$1,174.19	\$0.00	\$94.26	\$0.00	\$1,268.45	\$0.00	\$0.00	\$0.00
3	\$1,214.14	\$0.00	\$97.08	\$0.00	\$1,311.23	\$0.00	\$0.00	\$0.00
4	\$695.19	\$0.00	\$42.41	\$0.00	\$737.60	\$0.00	\$0.00	\$0.00
5	\$705.93	\$0.00	\$43.68	\$0.00	\$749.61	\$0.00	\$0.00	\$0.00
6	\$550.59	\$0.00	\$42.56	\$0.00	\$593.15	\$0.00	\$0.00	\$0.00
7	\$548.11	\$0.00	\$43.84	\$0.00	\$591.95	\$0.00	\$0.00	\$0.00
8	\$554.69	\$0.00	\$45.15	\$0.00	\$599.84	\$0.00	\$0.00	\$0.00
9	\$498.20	\$0.00	\$41.71	\$0.00	\$539.91	\$0.00	\$0.00	\$0.00
10	\$508.70	\$0.00	\$42.97	\$0.00	\$551.66	\$0.00	\$0.00	\$0.00
11	\$537.28	\$0.00	\$44.25	\$0.00	\$581.54	\$0.00	\$0.00	\$0.00
12	\$360.31	\$0.00	\$22.23	\$0.00	\$382.54	\$0.00	\$0.00	\$0.00
13	\$367.80	\$0.00	\$22.90	\$0.00	\$390.70	\$0.00	\$0.00	\$0.00
14	\$23.54	\$0.00	\$1.36	\$0.00	\$24.90	\$0.00	\$0.00	\$0.00
15	\$25.09	\$0.00	\$1.40	\$0.00	\$26.49	\$0.00	\$0.00	\$0.00
16	\$27.59	\$0.00	\$1.44	\$0.00	\$29.03	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$9,164.67	\$0.00	\$678.75	\$0.00	\$9,843.43	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$968.95	\$505.47	\$91.51	\$0.00	\$1,565.93	\$0.00	\$0.00	\$0.00
2	\$828.45	\$505.47	\$94.26	\$0.00	\$1,428.18	\$0.00	\$0.00	\$0.00
3	\$856.64	\$505.47	\$97.08	\$0.00	\$1,459.20	\$0.00	\$0.00	\$0.00
4	\$490.49	\$214.38	\$42.41	\$0.00	\$747.28	\$0.00	\$0.00	\$0.00
5	\$498.07	\$214.38	\$43.68	\$0.00	\$756.13	\$0.00	\$0.00	\$0.00
6	\$388.47	\$202.78	\$42.56	\$0.00	\$633.81	\$0.00	\$0.00	\$0.00
7	\$386.72	\$202.78	\$43.84	\$0.00	\$633.34	\$0.00	\$0.00	\$0.00
8	\$391.36	\$202.78	\$45.15	\$0.00	\$639.29	\$0.00	\$0.00	\$0.00
9	\$351.50	\$181.89	\$41.71	\$0.00	\$575.11	\$0.00	\$0.00	\$0.00
10	\$358.91	\$181.89	\$42.97	\$0.00	\$583.76	\$0.00	\$0.00	\$0.00
11	\$379.08	\$181.89	\$44.25	\$0.00	\$605.22	\$0.00	\$0.00	\$0.00
12	\$254.22	\$88.70	\$22.23	\$0.00	\$365.15	\$0.00	\$0.00	\$0.00
13	\$259.50	\$88.70	\$22.90	\$0.00	\$371.10	\$0.00	\$0.00	\$0.00
14	\$16.61	\$5.11	\$1.36	\$0.00	\$23.08	\$0.00	\$0.00	\$0.00
15	\$17.70	\$5.11	\$1.40	\$0.00	\$24.21	\$0.00	\$0.00	\$0.00
16	\$19.47	\$5.11	\$1.44	\$0.00	\$26.02	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,466.15	\$3,291.94	\$678.75	\$0.00	\$10,436.84	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$1,294.02	\$0.00	\$91.51	\$0.00	\$1,385.53
2	\$1,106.39	\$0.00	\$94.26	\$0.00	\$1,200.65
3	\$1,144.03	\$0.00	\$97.08	\$0.00	\$1,241.12
4	\$655.04	\$0.00	\$42.41	\$0.00	\$697.45
5	\$665.17	\$0.00	\$43.68	\$0.00	\$708.85
6	\$518.80	\$0.00	\$42.56	\$0.00	\$561.36
7	\$516.46	\$0.00	\$43.84	\$0.00	\$560.30
8	\$522.66	\$0.00	\$45.15	\$0.00	\$567.81
9	\$469.43	\$0.00	\$41.71	\$0.00	\$511.14
10	\$479.32	\$0.00	\$42.97	\$0.00	\$522.29
11	\$506.26	\$0.00	\$44.25	\$0.00	\$550.51
12	\$339.51	\$0.00	\$22.23	\$0.00	\$361.74
13	\$346.56	\$0.00	\$22.90	\$0.00	\$369.46
14	\$22.18	\$0.00	\$1.36	\$0.00	\$23.54
15	\$23.64	\$0.00	\$1.40	\$0.00	\$25.04
16	\$26.00	\$0.00	\$1.44	\$0.00	\$27.44
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$8,635.45	\$0.00	\$678.75	\$0.00	\$9,314.21

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$968.95	\$505.47	\$91.51	\$0.00	\$1,565.93
2	\$773.61	\$472.01	\$88.02	\$0.00	\$1,333.63
3	\$746.97	\$440.76	\$84.66	\$0.00	\$1,272.38
4	\$399.38	\$174.56	\$34.53	\$0.00	\$608.47
5	\$378.70	\$163.00	\$33.21	\$0.00	\$574.91
6	\$275.81	\$143.97	\$30.22	\$0.00	\$450.00
7	\$256.39	\$134.44	\$29.06	\$0.00	\$419.90
8	\$242.29	\$125.54	\$27.95	\$0.00	\$395.78
9	\$203.21	\$105.15	\$24.12	\$0.00	\$332.47
10	\$193.75	\$98.19	\$23.19	\$0.00	\$315.14
11	\$191.09	\$91.69	\$22.31	\$0.00	\$305.09
12	\$119.67	\$41.76	\$10.46	\$0.00	\$171.88
13	\$114.07	\$38.99	\$10.06	\$0.00	\$163.12
14	\$6.82	\$2.10	\$0.56	\$0.00	\$9.47
15	\$6.78	\$1.96	\$0.54	\$0.00	\$9.28
16	\$6.97	\$1.83	\$0.52	\$0.00	\$9.31
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$4,884.44		\$2,541.42	\$510.92	\$0.00	\$7,936.78
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Heat Pumps

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	2.18	1.35	2.30	2.37	2.17	7.58
TRC Test	1.11	0.69	1.17	1.21	1.11	3.87
RIM Test	0.40	0.25	0.42	0.43	0.40	1.37
RIM (Net Fuel)	0.40	0.25	0.42	0.43	0.40	1.37
Societal Test	1.40	0.87	1.48	1.53	1.40	4.88
Participant Test	3.00	2.94	3.00	3.00	3.00	3.04

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$165,205.11	\$132,511.97	\$234,150.33	\$241,876.01	\$220,629.10	\$800,397.60
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$56,200.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$233,558.26	\$144,664.23	\$246,302.58	\$254,028.27	\$232,781.36	\$812,549.86
Administration Costs	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57
Implementation / Participation Costs	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00
Total	\$107,255.12	\$107,255.12	\$107,255.12	\$107,255.12	\$107,255.12	\$107,255.12
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.18	1.35	2.30	2.37	2.17	7.58

TRC Test						
Avoided Electric Production	\$165,205.11	\$132,511.97	\$234,150.33	\$241,876.01	\$220,629.10	\$800,397.60
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$56,200.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$233,558.26	\$144,664.23	\$246,302.58	\$254,028.27	\$232,781.36	\$812,549.86
Administration Costs	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57
Implementation / Participation Costs	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$22,980.12	\$22,980.12	\$22,980.12	\$22,980.12	\$22,980.12	\$22,980.12
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.11	0.69	1.17	1.21	1.11	3.87

RIM Test						
Avoided Electric Production	\$165,205.11	\$132,511.97	\$234,150.33	\$241,876.01	\$220,629.10	\$800,397.60
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$56,200.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26	\$12,152.26
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$233,558.26	\$144,664.23	\$246,302.58	\$254,028.27	\$232,781.36	\$812,549.86
Administration Costs	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57
Implementation / Participation Costs	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00
Total	\$107,255.12	\$107,255.12	\$107,255.12	\$107,255.12	\$107,255.12	\$107,255.12
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$477,288.03	\$466,583.88	\$477,288.03	\$477,288.03	\$477,288.03	\$485,770.66
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$477,288.03	\$466,583.88	\$477,288.03	\$477,288.03	\$477,288.03	\$485,770.66
Electric Lost Revenue (Net Fuel)	\$477,288.03	\$466,583.88	\$477,288.03	\$477,288.03	\$477,288.03	\$485,770.66
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$477,288.03	\$466,583.88	\$477,288.03	\$477,288.03	\$477,288.03	\$485,770.66
Test Results	0.40	0.25	0.42	0.43	0.40	1.37

Societal Test						
Avoided Electric Production	\$208,613.86	\$167,330.39	\$295,674.90	\$305,430.56	\$278,600.88	\$1,010,707.46
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$69,934.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$15,420.64	\$15,420.64	\$15,420.64	\$15,420.64	\$15,420.64	\$15,420.64
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$293,969.37	\$182,751.03	\$311,095.54	\$320,851.21	\$294,021.52	\$1,026,128.10
Administration Costs	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57	\$1,500.57
Implementation / Participation Costs	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55	\$21,479.55
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$22,980.12	\$22,980.12	\$22,980.12	\$22,980.12	\$22,980.12	\$22,980.12
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	1.40	0.87	1.48	1.53	1.40	4.88

Participant Test						
Incentives	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00	\$84,275.00
Participant or Unit Costs (Gross)	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00	\$187,211.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$477,288.03	\$466,583.88	\$477,288.03	\$477,288.03	\$477,288.03	\$485,770.66
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$477,288.03	\$466,583.88	\$477,288.03	\$477,288.03	\$477,288.03	\$485,770.66
Test Results	3.00	2.94	3.00	3.00	3.00	3.04

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	\$26.17	\$26.17	\$26.17	\$26.17	\$26.17	\$26.17
kWh (Discounted)	8,252,827.37	8,056,925.51	8,252,827.37	8,252,827.37	8,252,827.37	8,407,812.08
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	\$26.17	\$26.17	\$26.17	\$26.17	\$26.17	\$26.17
kWh (Undiscounted)	8,252,827.37	8,056,925.51	8,252,827.37	8,252,827.37	8,252,827.37	8,407,812.08
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$233,558.26	\$107,255.12	\$126,303.14	2.18	Utility (PAC) Test
\$233,558.26	\$210,191.12	\$23,367.14	1.11	TRC Test
\$233,558.26	\$584,543.15	(\$350,984.89)	0.40	RIM Test
\$233,558.26	\$584,543.15	(\$350,984.89)	0.40	RIM (Net Fuel) Test
\$293,969.37	\$210,191.12	\$83,778.25	1.40	Societal Test
\$561,563.03	\$187,211.00	\$374,352.03	3.00	Participant Test

Participants	kWh	Summer kW	Winter kW	Generator Meter
37	14,870	55	0	
	13,475	50	0	

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$1,500.57	\$21,479.55	\$0.00	\$84,275.00	\$107,255.12

2024 South Dakota Status Report - Direct Impact - Commercial Heat Pumps

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	37	0	37	0	37	37	\$187,211.00	\$0.00	\$187,211.00	\$187,211.00	\$0.00	\$187,211.00
2	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	37	0	37	37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	37	0	555	0	555	555	\$187,211	\$0	\$187,211	\$187,211	\$0	\$187,211

Impacts and Savings (Losses Included)																
Year	Electric Impacts/Savings															
	Per Participant or Unit										Cumulative					
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	Min Non-Coin kW	
1	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
2	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
3	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
4	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
5	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
6	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
7	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
8	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
9	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
10	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
11	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
12	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
13	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
14	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
15	1.777	1.777	1.489	1.489	0.000	0.000	14,869.96	14,869.96	66	66	55	55	0	0	550,188	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
Totals							223,049	223,049								

2024 South Dakota Status Report - Direct Impact - Commercial Heat Pumps

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$1,182.93	\$0.00	\$1,182.93	\$43,768.42	\$0.00	\$43,768.42	\$43,768.42	\$0.00	\$43,768.42
2	\$1,206.59	\$0.00	\$1,206.59	\$44,643.79	\$0.00	\$44,643.79	\$44,643.79	\$0.00	\$44,643.79
3	\$1,230.72	\$0.00	\$1,230.72	\$45,536.67	\$0.00	\$45,536.67	\$45,536.67	\$0.00	\$45,536.67
4	\$1,255.34	\$0.00	\$1,255.34	\$46,447.40	\$0.00	\$46,447.40	\$46,447.40	\$0.00	\$46,447.40
5	\$1,280.44	\$0.00	\$1,280.44	\$47,376.35	\$0.00	\$47,376.35	\$47,376.35	\$0.00	\$47,376.35
6	\$1,306.05	\$0.00	\$1,306.05	\$48,323.88	\$0.00	\$48,323.88	\$48,323.88	\$0.00	\$48,323.88
7	\$1,332.17	\$0.00	\$1,332.17	\$49,290.35	\$0.00	\$49,290.35	\$49,290.35	\$0.00	\$49,290.35
8	\$1,358.82	\$0.00	\$1,358.82	\$50,276.16	\$0.00	\$50,276.16	\$50,276.16	\$0.00	\$50,276.16
9	\$1,385.99	\$0.00	\$1,385.99	\$51,281.68	\$0.00	\$51,281.68	\$51,281.68	\$0.00	\$51,281.68
10	\$1,413.71	\$0.00	\$1,413.71	\$52,307.32	\$0.00	\$52,307.32	\$52,307.32	\$0.00	\$52,307.32
11	\$1,441.99	\$0.00	\$1,441.99	\$53,353.46	\$0.00	\$53,353.46	\$53,353.46	\$0.00	\$53,353.46
12	\$1,470.83	\$0.00	\$1,470.83	\$54,420.53	\$0.00	\$54,420.53	\$54,420.53	\$0.00	\$54,420.53
13	\$1,500.24	\$0.00	\$1,500.24	\$55,508.94	\$0.00	\$55,508.94	\$55,508.94	\$0.00	\$55,508.94
14	\$1,530.25	\$0.00	\$1,530.25	\$56,619.12	\$0.00	\$56,619.12	\$56,619.12	\$0.00	\$56,619.12
15	\$1,560.85	\$0.00	\$1,560.85	\$57,751.51	\$0.00	\$57,751.51	\$57,751.51	\$0.00	\$57,751.51
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$20,456.91	\$0.00	\$20,456.91	\$756,905.59	\$0.00	\$756,905.59	\$756,905.59	\$0.00	\$756,905.59

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$1,500.57	\$21,479.55	\$84,275.00	\$0.00	\$107,255.12	\$1,947.34	\$1,947.34	\$3,781.98	\$3,781.98	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,500.57	\$21,479.55	\$84,275.00	\$0.00	\$107,255.12	\$1,947.34	\$1,947.34	\$3,781.98	\$3,781.98	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Heat Pumps

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$24,648.21	\$0.00	\$1,049.10	\$0.00	\$25,697.31	\$0.00	\$0.00	\$0.00
2	\$21,074.33	\$0.00	\$1,080.58	\$0.00	\$22,154.91	\$0.00	\$0.00	\$0.00
3	\$21,791.32	\$0.00	\$1,112.99	\$0.00	\$22,904.32	\$0.00	\$0.00	\$0.00
4	\$22,673.88	\$0.00	\$1,146.38	\$0.00	\$23,820.27	\$0.00	\$0.00	\$0.00
5	\$23,024.36	\$0.00	\$1,180.78	\$0.00	\$24,205.13	\$0.00	\$0.00	\$0.00
6	\$22,761.36	\$0.00	\$1,216.20	\$0.00	\$23,977.56	\$0.00	\$0.00	\$0.00
7	\$22,658.68	\$0.00	\$1,252.69	\$0.00	\$23,911.36	\$0.00	\$0.00	\$0.00
8	\$22,930.51	\$0.00	\$1,290.27	\$0.00	\$24,220.78	\$0.00	\$0.00	\$0.00
9	\$23,195.56	\$0.00	\$1,328.97	\$0.00	\$24,524.54	\$0.00	\$0.00	\$0.00
10	\$23,684.27	\$0.00	\$1,368.84	\$0.00	\$25,053.12	\$0.00	\$0.00	\$0.00
11	\$25,015.27	\$0.00	\$1,409.91	\$0.00	\$26,425.18	\$0.00	\$0.00	\$0.00
12	\$28,025.96	\$0.00	\$1,452.21	\$0.00	\$29,478.16	\$0.00	\$0.00	\$0.00
13	\$28,608.51	\$0.00	\$1,495.77	\$0.00	\$30,104.28	\$0.00	\$0.00	\$0.00
14	\$30,409.62	\$0.00	\$1,540.64	\$0.00	\$31,950.27	\$0.00	\$0.00	\$0.00
15	\$32,404.87	\$0.00	\$1,586.86	\$0.00	\$33,991.73	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$372,906.71	\$0.00	\$19,512.20	\$0.00	\$392,418.90	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$17,390.58	\$5,794.83	\$1,049.10	\$0.00	\$24,234.51	\$0.00	\$0.00	\$0.00
2	\$14,869.03	\$5,794.83	\$1,080.58	\$0.00	\$21,744.43	\$0.00	\$0.00	\$0.00
3	\$15,374.90	\$5,794.83	\$1,112.99	\$0.00	\$22,282.72	\$0.00	\$0.00	\$0.00
4	\$15,997.59	\$5,794.83	\$1,146.38	\$0.00	\$22,938.80	\$0.00	\$0.00	\$0.00
5	\$16,244.87	\$5,794.83	\$1,180.78	\$0.00	\$23,220.47	\$0.00	\$0.00	\$0.00
6	\$16,059.31	\$5,794.83	\$1,216.20	\$0.00	\$23,070.34	\$0.00	\$0.00	\$0.00
7	\$15,986.86	\$5,794.83	\$1,252.69	\$0.00	\$23,034.37	\$0.00	\$0.00	\$0.00
8	\$16,178.66	\$5,794.83	\$1,290.27	\$0.00	\$23,263.75	\$0.00	\$0.00	\$0.00
9	\$16,365.66	\$5,794.83	\$1,328.97	\$0.00	\$23,489.46	\$0.00	\$0.00	\$0.00
10	\$16,710.48	\$5,794.83	\$1,368.84	\$0.00	\$23,874.14	\$0.00	\$0.00	\$0.00
11	\$17,649.56	\$5,794.83	\$1,409.91	\$0.00	\$24,854.30	\$0.00	\$0.00	\$0.00
12	\$19,773.76	\$5,794.83	\$1,452.21	\$0.00	\$27,020.79	\$0.00	\$0.00	\$0.00
13	\$20,184.77	\$5,794.83	\$1,495.77	\$0.00	\$27,475.37	\$0.00	\$0.00	\$0.00
14	\$21,455.55	\$5,794.83	\$1,540.64	\$0.00	\$28,791.02	\$0.00	\$0.00	\$0.00
15	\$22,863.30	\$5,794.83	\$1,586.86	\$0.00	\$30,244.99	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$263,104.88	\$86,922.39	\$19,512.20	\$0.00	\$369,539.46	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$23,224.87	\$0.00	\$1,049.10	\$0.00	\$24,273.98
2	\$19,857.37	\$0.00	\$1,080.58	\$0.00	\$20,937.95
3	\$20,532.96	\$0.00	\$1,112.99	\$0.00	\$21,645.96
4	\$21,364.56	\$0.00	\$1,146.38	\$0.00	\$22,510.94
5	\$21,694.79	\$0.00	\$1,180.78	\$0.00	\$22,875.57
6	\$21,446.98	\$0.00	\$1,216.20	\$0.00	\$22,663.18
7	\$21,350.23	\$0.00	\$1,252.69	\$0.00	\$22,602.91
8	\$21,606.37	\$0.00	\$1,290.27	\$0.00	\$22,896.63
9	\$21,856.11	\$0.00	\$1,328.97	\$0.00	\$23,185.09
10	\$22,316.60	\$0.00	\$1,368.84	\$0.00	\$23,685.45
11	\$23,570.74	\$0.00	\$1,409.91	\$0.00	\$24,980.65
12	\$26,407.57	\$0.00	\$1,452.21	\$0.00	\$27,859.78
13	\$26,956.48	\$0.00	\$1,495.77	\$0.00	\$28,452.25
14	\$28,653.59	\$0.00	\$1,540.64	\$0.00	\$30,194.23
15	\$30,533.62	\$0.00	\$1,586.86	\$0.00	\$32,120.48
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$351,372.87	\$0.00	\$19,512.20	\$0.00	\$370,885.06

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$17,390.58	\$5,794.83	\$1,049.10	\$0.00	\$24,234.51
2	\$13,884.61	\$5,411.17	\$1,009.04	\$0.00	\$20,304.82
3	\$13,406.47	\$5,052.92	\$970.50	\$0.00	\$19,429.89
4	\$13,025.90	\$4,718.39	\$933.43	\$0.00	\$18,677.72
5	\$12,351.52	\$4,406.00	\$897.78	\$0.00	\$17,655.31
6	\$11,402.03	\$4,114.30	\$863.50	\$0.00	\$16,379.83
7	\$10,599.12	\$3,841.91	\$830.52	\$0.00	\$15,271.54
8	\$10,016.13	\$3,587.55	\$798.80	\$0.00	\$14,402.48
9	\$9,461.11	\$3,350.03	\$768.29	\$0.00	\$13,579.44
10	\$9,020.87	\$3,128.24	\$738.95	\$0.00	\$12,888.06
11	\$8,897.02	\$2,921.13	\$710.73	\$0.00	\$12,528.88
12	\$9,307.89	\$2,727.74	\$683.58	\$0.00	\$12,719.20
13	\$8,872.31	\$2,547.14	\$657.47	\$0.00	\$12,076.93
14	\$8,806.51	\$2,378.51	\$632.36	\$0.00	\$11,817.38
15	\$8,763.03	\$2,221.04	\$608.21	\$0.00	\$11,592.27
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$165,205.11		\$56,200.90	\$12,152.26	\$0.00	\$233,558.26
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	10.33	5.57	9.17	9.44	8.67	28.54
TRC Test	2.27	1.23	2.02	2.08	1.91	6.28
RIM Test	0.52	0.28	0.46	0.48	0.44	1.43
RIM (Net Fuel)	0.52	0.28	0.46	0.48	0.44	1.43
Societal Test	2.85	1.55	2.55	2.62	2.41	7.92
Participant Test	4.57	4.54	4.57	4.57	4.57	4.60

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	
Avoided Electric Production	\$398,687.03	\$321,112.80	\$562,281.79	\$580,285.61	\$529,130.30	\$1,860,489.08
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$241,563.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$692,436.33	\$373,298.52	\$614,467.51	\$632,471.33	\$581,316.03	\$1,912,674.81
Administration Costs	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64
Implementation / Participation Costs	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98
Total	\$67,024.31	\$67,024.31	\$67,024.31	\$67,024.31	\$67,024.31	\$67,024.31
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	10.33	5.57	9.17	9.44	8.67	28.54
TRC Test						
Avoided Electric Production	\$398,687.03	\$321,112.80	\$562,281.79	\$580,285.61	\$529,130.30	\$1,860,489.08
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$241,563.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$692,436.33	\$373,298.52	\$614,467.51	\$632,471.33	\$581,316.03	\$1,912,674.81
Administration Costs	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64
Implementation / Participation Costs	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$17,090.33	\$17,090.33	\$17,090.33	\$17,090.33	\$17,090.33	\$17,090.33
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.27	1.23	2.02	2.08	1.91	6.28
RIM Test						
Avoided Electric Production	\$398,687.03	\$321,112.80	\$562,281.79	\$580,285.61	\$529,130.30	\$1,860,489.08
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$241,563.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72	\$52,185.72
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$692,436.33	\$373,298.52	\$614,467.51	\$632,471.33	\$581,316.03	\$1,912,674.81
Administration Costs	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64
Implementation / Participation Costs	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98
Total	\$67,024.31	\$67,024.31	\$67,024.31	\$67,024.31	\$67,024.31	\$67,024.31
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$1,263,714.20	\$1,254,706.95	\$1,263,714.20	\$1,263,714.20	\$1,263,714.20	\$1,271,845.50
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$1,263,714.20	\$1,254,706.95	\$1,263,714.20	\$1,263,714.20	\$1,263,714.20	\$1,271,845.50
Electric Lost Revenue (Net Fuel)	\$1,263,714.20	\$1,254,706.95	\$1,263,714.20	\$1,263,714.20	\$1,263,714.20	\$1,271,845.50
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,263,714.20	\$1,254,706.95	\$1,263,714.20	\$1,263,714.20	\$1,263,714.20	\$1,271,845.50
Test Results	0.52	0.28	0.46	0.48	0.44	1.43
Societal Test						
Avoided Electric Production	\$502,999.88	\$405,129.05	\$709,397.72	\$732,112.08	\$667,572.45	\$2,347,269.18
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$300,271.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$66,168.69	\$66,168.69	\$66,168.69	\$66,168.69	\$66,168.69	\$66,168.69
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$869,440.45	\$471,297.74	\$775,566.41	\$798,280.77	\$733,741.13	\$2,413,437.86
Administration Costs	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64	\$1,405.64
Implementation / Participation Costs	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69	\$15,684.69
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$17,090.33	\$17,090.33	\$17,090.33	\$17,090.33	\$17,090.33	\$17,090.33
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.85	1.55	2.55	2.62	2.41	7.92
Participant Test						
Incentives	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98	\$49,933.98
Participant or Unit Costs (Gross)	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45	\$287,539.45
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$1,263,714.20	\$1,254,706.95	\$1,263,714.20	\$1,263,714.20	\$1,263,714.20	\$1,271,845.50
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$1,263,714.20	\$1,254,706.95	\$1,263,714.20	\$1,263,714.20	\$1,263,714.20	\$1,271,845.50
Test Results	4.57	4.54	4.57	4.57	4.57	4.60

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	7,089.69	7,089.69	7,089.69	7,089.69	7,089.69	7,089.69
kWh (Discounted)	21,497,167.88	21,269,117.31	21,497,167.88	21,497,167.88	21,497,167.88	21,702,855.31
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	7,089.69	7,089.69	7,089.69	7,089.69	7,089.69	7,089.69
kWh (Undiscounted)	21,497,167.88	21,269,117.31	21,497,167.88	21,497,167.88	21,497,167.88	21,702,855.31
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/Cost Ratio	
\$692,436.33	\$67,024.31	\$625,412.02	10.33	Utility (PAC) Test
\$692,436.33	\$304,629.78	\$387,806.55	2.27	TRC Test
\$692,436.33	\$1,330,738.51	(\$638,302.18)	0.52	RIM Test
\$692,436.33	\$1,330,738.51	(\$638,302.18)	0.52	RIM (Net Fuel) Test
\$869,440.45	\$304,629.78	\$564,810.67	2.85	Societal Test
\$1,313,648.18	\$287,539.45	\$1,026,108.73	4.57	Participant Test

Participants	kWh	Summer kW	Winter kW	
101	1,467,763	242	242	Generator
	1,330,098	220	220	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$1,405.64	\$15,684.69	\$0.00	\$49,933.98	\$67,024.31

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	101	0	101	0	101	101	\$287,539.45	\$0.00	\$287,539.45	\$287,539.45	\$0.00	\$287,539.45
2	0	0	101	0	101	101	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	101	0	101	101	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	97	0	97	97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	95	0	95	95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	101	0	1,468	0	1,468	1,468	\$287,539	\$0	\$287,539	\$287,539	\$0	\$287,539

Impacts and Savings (Losses Included)																
Year	Electric Impacts/Savings															
	Per Participant or Unit										Cumulative					
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	
1	3,410	3,410	2,401	2,401	2,401	2,401	14,532.31	14,532.31	344	344	242	242	242	242	1,467,763	
2	3,410	3,410	2,401	2,401	2,401	2,401	14,532.31	14,532.31	344	344	242	242	242	242	1,467,763	
3	3,410	3,410	2,401	2,401	2,401	2,401	14,532.31	14,532.31	344	344	242	242	242	242	1,467,763	
4	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
5	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
6	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
7	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
8	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
9	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
10	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
11	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
12	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
13	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
14	3,430	3,430	2,411	2,411	2,411	2,411	14,647.76	14,647.76	333	333	234	234	234	234	1,420,833	
15	3,474	3,474	2,462	2,462	2,462	2,462	14,824.99	14,824.99	330	330	234	234	234	234	1,408,374	
16	4,989	4,989	3,692	3,692	3,692	3,692	18,781.76	18,781.76	5	5	4	4	4	4	18,782	
17	4,989	4,989	3,692	3,692	3,692	3,692	18,781.76	18,781.76	5	5	4	4	4	4	18,782	
18	4,989	4,989	3,692	3,692	3,692	3,692	18,781.76	18,781.76	5	5	4	4	4	4	18,782	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
Totals							275,893	275,893								

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Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$1,174.06	\$0.00	\$1,174.06	\$118,580.50	\$0.00	\$118,580.50	\$118,580.50	\$0.00	\$118,580.50
2	\$1,197.55	\$0.00	\$1,197.55	\$120,952.11	\$0.00	\$120,952.11	\$120,952.11	\$0.00	\$120,952.11
3	\$1,221.50	\$0.00	\$1,221.50	\$123,371.15	\$0.00	\$123,371.15	\$123,371.15	\$0.00	\$123,371.15
4	\$1,255.05	\$0.00	\$1,255.05	\$121,739.69	\$0.00	\$121,739.69	\$121,739.69	\$0.00	\$121,739.69
5	\$1,280.15	\$0.00	\$1,280.15	\$124,174.48	\$0.00	\$124,174.48	\$124,174.48	\$0.00	\$124,174.48
6	\$1,305.75	\$0.00	\$1,305.75	\$126,657.97	\$0.00	\$126,657.97	\$126,657.97	\$0.00	\$126,657.97
7	\$1,331.87	\$0.00	\$1,331.87	\$129,191.13	\$0.00	\$129,191.13	\$129,191.13	\$0.00	\$129,191.13
8	\$1,358.50	\$0.00	\$1,358.50	\$131,774.95	\$0.00	\$131,774.95	\$131,774.95	\$0.00	\$131,774.95
9	\$1,385.67	\$0.00	\$1,385.67	\$134,410.45	\$0.00	\$134,410.45	\$134,410.45	\$0.00	\$134,410.45
10	\$1,413.39	\$0.00	\$1,413.39	\$137,098.66	\$0.00	\$137,098.66	\$137,098.66	\$0.00	\$137,098.66
11	\$1,441.66	\$0.00	\$1,441.66	\$139,840.63	\$0.00	\$139,840.63	\$139,840.63	\$0.00	\$139,840.63
12	\$1,470.49	\$0.00	\$1,470.49	\$142,637.44	\$0.00	\$142,637.44	\$142,637.44	\$0.00	\$142,637.44
13	\$1,499.90	\$0.00	\$1,499.90	\$145,490.19	\$0.00	\$145,490.19	\$145,490.19	\$0.00	\$145,490.19
14	\$1,529.90	\$0.00	\$1,529.90	\$148,400.00	\$0.00	\$148,400.00	\$148,400.00	\$0.00	\$148,400.00
15	\$1,579.76	\$0.00	\$1,579.76	\$150,077.55	\$0.00	\$150,077.55	\$150,077.55	\$0.00	\$150,077.55
16	\$2,130.68	\$0.00	\$2,130.68	\$2,130.68	\$0.00	\$2,130.68	\$2,130.68	\$0.00	\$2,130.68
17	\$2,173.29	\$0.00	\$2,173.29	\$2,173.29	\$0.00	\$2,173.29	\$2,173.29	\$0.00	\$2,173.29
18	\$2,216.75	\$0.00	\$2,216.75	\$2,216.75	\$0.00	\$2,216.75	\$2,216.75	\$0.00	\$2,216.75
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$26,965.91	\$0.00	\$26,965.91	\$2,000,917.61	\$0.00	\$2,000,917.61	\$2,000,917.61	\$0.00	\$2,000,917.61

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$1,405.64	\$15,684.69	\$49,933.98	\$0.00	\$67,024.31	\$138.21	\$138.21	\$194.62	\$194.62	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,405.64	\$15,684.69	\$49,933.98	\$0.00	\$67,024.31	\$138.21	\$138.21	\$194.62	\$194.62	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Lighting

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$60,503.51	\$0.00	\$4,618.60	\$0.00	\$65,122.11	\$0.00	\$0.00	\$0.00
2	\$51,730.78	\$0.00	\$4,757.16	\$0.00	\$56,487.94	\$0.00	\$0.00	\$0.00
3	\$53,490.77	\$0.00	\$4,899.87	\$0.00	\$58,390.64	\$0.00	\$0.00	\$0.00
4	\$53,877.58	\$0.00	\$4,867.58	\$0.00	\$58,745.16	\$0.00	\$0.00	\$0.00
5	\$54,710.38	\$0.00	\$5,013.61	\$0.00	\$59,723.99	\$0.00	\$0.00	\$0.00
6	\$54,085.45	\$0.00	\$5,164.02	\$0.00	\$59,249.47	\$0.00	\$0.00	\$0.00
7	\$53,841.45	\$0.00	\$5,318.94	\$0.00	\$59,160.39	\$0.00	\$0.00	\$0.00
8	\$54,487.38	\$0.00	\$5,478.51	\$0.00	\$59,965.89	\$0.00	\$0.00	\$0.00
9	\$55,117.20	\$0.00	\$5,642.86	\$0.00	\$60,760.06	\$0.00	\$0.00	\$0.00
10	\$56,278.47	\$0.00	\$5,812.15	\$0.00	\$62,090.62	\$0.00	\$0.00	\$0.00
11	\$59,441.18	\$0.00	\$5,986.51	\$0.00	\$65,427.70	\$0.00	\$0.00	\$0.00
12	\$66,595.16	\$0.00	\$6,166.11	\$0.00	\$72,761.27	\$0.00	\$0.00	\$0.00
13	\$67,979.41	\$0.00	\$6,351.09	\$0.00	\$74,330.50	\$0.00	\$0.00	\$0.00
14	\$72,259.21	\$0.00	\$6,541.62	\$0.00	\$78,800.84	\$0.00	\$0.00	\$0.00
15	\$76,325.13	\$0.00	\$6,737.87	\$0.00	\$83,063.01	\$0.00	\$0.00	\$0.00
16	\$1,119.34	\$0.00	\$109.57	\$0.00	\$1,228.91	\$0.00	\$0.00	\$0.00
17	\$1,160.71	\$0.00	\$112.85	\$0.00	\$1,273.56	\$0.00	\$0.00	\$0.00
18	\$1,264.38	\$0.00	\$116.24	\$0.00	\$1,380.62	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$894,267.50	\$0.00	\$83,695.17	\$0.00	\$977,962.67	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$42,900.13	\$25,511.27	\$4,618.60	\$0.00	\$73,030.01	\$0.00	\$0.00	\$0.00
2	\$36,679.81	\$25,511.27	\$4,757.16	\$0.00	\$66,948.25	\$0.00	\$0.00	\$0.00
3	\$37,927.74	\$25,511.27	\$4,899.87	\$0.00	\$68,338.88	\$0.00	\$0.00	\$0.00
4	\$38,202.01	\$24,605.01	\$4,867.58	\$0.00	\$67,674.60	\$0.00	\$0.00	\$0.00
5	\$38,792.50	\$24,605.01	\$5,013.61	\$0.00	\$68,411.12	\$0.00	\$0.00	\$0.00
6	\$38,349.39	\$24,605.01	\$5,164.02	\$0.00	\$68,118.42	\$0.00	\$0.00	\$0.00
7	\$38,176.39	\$24,605.01	\$5,318.94	\$0.00	\$68,100.34	\$0.00	\$0.00	\$0.00
8	\$38,634.39	\$24,605.01	\$5,478.51	\$0.00	\$68,717.91	\$0.00	\$0.00	\$0.00
9	\$39,080.96	\$24,605.01	\$5,642.86	\$0.00	\$69,328.83	\$0.00	\$0.00	\$0.00
10	\$39,904.36	\$24,605.01	\$5,812.15	\$0.00	\$70,321.52	\$0.00	\$0.00	\$0.00
11	\$42,146.89	\$24,605.01	\$5,986.51	\$0.00	\$72,738.41	\$0.00	\$0.00	\$0.00
12	\$47,219.43	\$24,605.01	\$6,166.11	\$0.00	\$77,990.55	\$0.00	\$0.00	\$0.00
13	\$48,200.94	\$24,605.01	\$6,351.09	\$0.00	\$79,157.04	\$0.00	\$0.00	\$0.00
14	\$51,235.54	\$24,605.01	\$6,541.62	\$0.00	\$82,382.17	\$0.00	\$0.00	\$0.00
15	\$54,118.49	\$24,605.01	\$6,737.87	\$0.00	\$85,461.37	\$0.00	\$0.00	\$0.00
16	\$793.67	\$388.45	\$109.57	\$0.00	\$1,291.69	\$0.00	\$0.00	\$0.00
17	\$823.00	\$388.45	\$112.85	\$0.00	\$1,324.31	\$0.00	\$0.00	\$0.00
18	\$896.51	\$388.45	\$116.24	\$0.00	\$1,401.20	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$634,082.17	\$372,959.30	\$83,695.17	\$0.00	\$1,090,736.63	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$56,936.29	\$0.00	\$4,618.60	\$0.00	\$61,554.89
2	\$48,680.79	\$0.00	\$4,757.16	\$0.00	\$53,437.95
3	\$50,337.01	\$0.00	\$4,899.87	\$0.00	\$55,236.89
4	\$50,701.02	\$0.00	\$4,867.58	\$0.00	\$55,568.60
5	\$51,484.72	\$0.00	\$5,013.61	\$0.00	\$56,498.33
6	\$50,896.63	\$0.00	\$5,164.02	\$0.00	\$56,060.65
7	\$50,667.02	\$0.00	\$5,318.94	\$0.00	\$55,985.96
8	\$51,274.87	\$0.00	\$5,478.51	\$0.00	\$56,753.38
9	\$51,867.55	\$0.00	\$5,642.86	\$0.00	\$57,510.42
10	\$52,960.36	\$0.00	\$5,812.15	\$0.00	\$58,772.51
11	\$55,936.60	\$0.00	\$5,986.51	\$0.00	\$61,923.11
12	\$62,668.79	\$0.00	\$6,166.11	\$0.00	\$68,834.90
13	\$63,971.42	\$0.00	\$6,351.09	\$0.00	\$70,322.52
14	\$67,998.89	\$0.00	\$6,541.62	\$0.00	\$74,540.52
15	\$71,825.09	\$0.00	\$6,737.87	\$0.00	\$78,562.96
16	\$1,053.35	\$0.00	\$109.57	\$0.00	\$1,162.91
17	\$1,092.27	\$0.00	\$112.85	\$0.00	\$1,205.13
18	\$1,189.84	\$0.00	\$116.24	\$0.00	\$1,306.07
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$841,542.52	\$0.00	\$83,695.17	\$0.00	\$925,237.69

Discount 7.09%					
	Energy	Capacity	T&D	Ancillary	Total
1	\$42,900.13	\$25,511.27	\$4,618.60	\$0.00	\$73,030.01
2	\$34,251.39	\$23,822.27	\$4,442.21	\$0.00	\$62,515.87
3	\$33,071.90	\$22,245.10	\$4,272.55	\$0.00	\$59,589.54
4	\$31,105.66	\$20,034.42	\$3,963.39	\$0.00	\$55,103.47
5	\$29,495.25	\$18,708.02	\$3,812.02	\$0.00	\$52,015.29
6	\$27,227.89	\$17,469.44	\$3,666.43	\$0.00	\$48,363.75
7	\$25,310.53	\$16,312.86	\$3,526.40	\$0.00	\$45,149.79
8	\$23,918.37	\$15,232.85	\$3,391.72	\$0.00	\$42,542.94
9	\$22,593.00	\$14,224.34	\$3,262.18	\$0.00	\$40,079.52
10	\$21,541.71	\$13,282.61	\$3,137.59	\$0.00	\$37,961.91
11	\$21,245.96	\$12,403.22	\$3,017.76	\$0.00	\$36,666.94
12	\$22,227.09	\$11,582.05	\$2,902.51	\$0.00	\$36,711.65
13	\$21,186.95	\$10,815.25	\$2,791.65	\$0.00	\$34,793.85
14	\$21,029.81	\$10,099.21	\$2,685.03	\$0.00	\$33,814.06
15	\$20,742.49	\$9,430.59	\$2,582.49	\$0.00	\$32,755.56
16	\$284.06	\$139.03	\$39.21	\$0.00	\$462.30
17	\$275.05	\$129.82	\$37.72	\$0.00	\$442.59
18	\$279.79	\$121.23	\$36.28	\$0.00	\$437.29
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$398,687.03	\$241,563.58	\$52,185.72	\$0.00	\$692,436.33
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Programs

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	14.30	8.15	13.55	13.96	12.81	42.70
TRC Test	2.17	1.24	2.06	2.12	1.95	6.48
RIM Test	0.53	0.30	0.50	0.52	0.47	1.57
RIM (Net Fuel)	0.53	0.30	0.50	0.52	0.47	1.57
Societal Test	2.73	1.56	2.60	2.68	2.46	8.19
Participant Test	4.16	4.13	4.16	4.16	4.16	4.19

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test						
Avoided Electric Production	\$4,090,524.75	\$3,294,049.25	\$5,770,195.40	\$5,955,187.68	\$5,430,283.74	\$19,118,930.81
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,021,802.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$6,549,413.47	\$3,731,135.47	\$6,207,281.62	\$6,392,273.90	\$5,867,369.96	\$19,556,017.03
Administration Costs	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60
Implementation / Participation Costs	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93
Total	\$458,015.68	\$458,015.68	\$458,015.68	\$458,015.68	\$458,015.68	\$458,015.68
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	14.30	8.15	13.55	13.96	12.81	42.70
TRC Test						
Avoided Electric Production	\$4,090,524.75	\$3,294,049.25	\$5,770,195.40	\$5,955,187.68	\$5,430,283.74	\$19,118,930.81
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,021,802.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$6,549,413.47	\$3,731,135.47	\$6,207,281.62	\$6,392,273.90	\$5,867,369.96	\$19,556,017.03
Administration Costs	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60
Implementation / Participation Costs	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$56,422.75	\$56,422.75	\$56,422.75	\$56,422.75	\$56,422.75	\$56,422.75
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.17	1.24	2.06	2.12	1.95	6.48
RIM Test						
Avoided Electric Production	\$4,090,524.75	\$3,294,049.25	\$5,770,195.40	\$5,955,187.68	\$5,430,283.74	\$19,118,930.81
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,021,802.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22	\$437,086.22
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$6,549,413.47	\$3,731,135.47	\$6,207,281.62	\$6,392,273.90	\$5,867,369.96	\$19,556,017.03
Administration Costs	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60
Implementation / Participation Costs	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93
Total	\$458,015.68	\$458,015.68	\$458,015.68	\$458,015.68	\$458,015.68	\$458,015.68
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$11,922,017.61	\$11,822,372.33	\$11,922,017.61	\$11,922,017.61	\$11,922,017.61	\$12,010,756.99
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$11,922,017.61	\$11,822,372.33	\$11,922,017.61	\$11,922,017.61	\$11,922,017.61	\$12,010,756.99
Electric Lost Revenue (Net Fuel)	\$11,922,017.61	\$11,822,372.33	\$11,922,017.61	\$11,922,017.61	\$11,922,017.61	\$12,010,756.99
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$11,922,017.61	\$11,822,372.33	\$11,922,017.61	\$11,922,017.61	\$11,922,017.61	\$12,010,756.99
Test Results	0.53	0.30	0.50	0.52	0.47	1.57
Societal Test						
Avoided Electric Production	\$5,164,342.19	\$4,158,782.91	\$7,284,945.26	\$7,518,499.67	\$6,855,801.59	\$24,137,814.92
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,515,281.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$554,529.66	\$554,529.66	\$554,529.66	\$554,529.66	\$554,529.66	\$554,529.66
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,234,153.65	\$4,713,312.57	\$7,839,474.93	\$8,073,029.34	\$7,410,331.25	\$24,692,344.58
Administration Costs	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60	\$10,500.60
Implementation / Participation Costs	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15	\$45,922.15
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$56,422.75	\$56,422.75	\$56,422.75	\$56,422.75	\$56,422.75	\$56,422.75
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.73	1.56	2.60	2.68	2.46	8.19
Participant Test						
Incentives	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93	\$401,592.93
Participant or Unit Costs (Gross)	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14	\$2,959,892.14
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$11,922,017.61	\$11,822,372.33	\$11,922,017.61	\$11,922,017.61	\$11,922,017.61	\$12,010,756.99
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$11,922,017.61	\$11,822,372.33	\$11,922,017.61	\$11,922,017.61	\$11,922,017.61	\$12,010,756.99
Test Results	4.16	4.13	4.16	4.16	4.16	4.19

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	\$8,589.01	\$8,589.01	\$8,589.01	\$8,589.01	\$8,589.01	\$8,589.01
kWh (Discounted)	220,222,085.18	217,774,686.02	220,222,085.18	220,222,085.18	220,222,085.18	222,407,211.07
CCF (Discounted)	\$8,589.01	\$8,589.01	\$8,589.01	\$8,589.01	\$8,589.01	\$8,589.01
kWh (Undiscounted)	220,222,085.18	217,774,686.02	220,222,085.18	220,222,085.18	220,222,085.18	222,407,211.07
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/Cost Ratio	
\$6,549,413.47	\$458,015.68	\$6,091,397.79	14.30	Utility (PAC) Test
\$6,549,413.47	\$3,016,314.89	\$3,533,098.58	2.17	TRC Test
\$6,549,413.47	\$12,380,033.29	(\$5,830,619.82)	0.53	RIM Test
\$6,549,413.47	\$12,380,033.29	(\$5,830,619.82)	0.53	RIM (Net Fuel) Test
\$8,234,153.65	\$3,016,314.89	\$5,217,838.76	2.73	Societal Test
\$12,323,610.54	\$2,959,892.14	\$9,363,718.40	N/A	Participant Test

Participants	kWh	Summer kW	Winter kW	
1,205	14,732,312	1,989	1,934	Generator
	13,350,532	1,803	1,753	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$10,500.60	\$45,922.15	\$0.00	\$401,592.93	\$458,015.68

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	1205	0	1205	0	1205	1205	\$2,959,892.14	\$0.00	\$2,959,892.14	\$2,959,892.14	\$0.00	\$2,959,892.14
2	0	0	1205	0	1205	1205	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	1205	0	1205	1205	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	948	0	948	948	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	948	0	948	948	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	946	0	946	946	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	946	0	946	946	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	946	0	946	946	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	926	0	926	926	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	926	0	926	926	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	926	0	926	926	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	857	0	857	857	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	857	0	857	857	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	737	0	737	737	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	735	0	735	735	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	3	0	3	3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	1	0	1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	1,205	0	14,318	0	14,318	14,318	\$2,959,892	\$0	\$2,959,892	\$2,959,892	\$0	\$2,959,892

[illegible]

2024 South Dakota Status Report - Direct Impact - Commercial Programs

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel	Net Fuel	Net Fuel
							Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total
1	\$910.53	\$0.00	\$910.53	\$1,097,183.24	\$0.00	\$1,097,183.24	\$1,097,183.24	\$0.00	\$1,097,183.24
2	\$928.74	\$0.00	\$928.74	\$1,119,126.91	\$0.00	\$1,119,126.91	\$1,119,126.91	\$0.00	\$1,119,126.91
3	\$947.31	\$0.00	\$947.31	\$1,141,509.44	\$0.00	\$1,141,509.44	\$1,141,509.44	\$0.00	\$1,141,509.44
4	\$1,222.57	\$0.00	\$1,222.57	\$1,158,993.57	\$0.00	\$1,158,993.57	\$1,158,993.57	\$0.00	\$1,158,993.57
5	\$1,247.02	\$0.00	\$1,247.02	\$1,182,173.45	\$0.00	\$1,182,173.45	\$1,182,173.45	\$0.00	\$1,182,173.45
6	\$1,274.31	\$0.00	\$1,274.31	\$1,205,499.69	\$0.00	\$1,205,499.69	\$1,205,499.69	\$0.00	\$1,205,499.69
7	\$1,299.80	\$0.00	\$1,299.80	\$1,229,609.68	\$0.00	\$1,229,609.68	\$1,229,609.68	\$0.00	\$1,229,609.68
8	\$1,325.79	\$0.00	\$1,325.79	\$1,254,201.88	\$0.00	\$1,254,201.88	\$1,254,201.88	\$0.00	\$1,254,201.88
9	\$1,381.36	\$0.00	\$1,381.36	\$1,279,142.02	\$0.00	\$1,279,142.02	\$1,279,142.02	\$0.00	\$1,279,142.02
10	\$1,408.99	\$0.00	\$1,408.99	\$1,304,724.86	\$0.00	\$1,304,724.86	\$1,304,724.86	\$0.00	\$1,304,724.86
11	\$1,437.17	\$0.00	\$1,437.17	\$1,330,819.36	\$0.00	\$1,330,819.36	\$1,330,819.36	\$0.00	\$1,330,819.36
12	\$1,583.35	\$0.00	\$1,583.35	\$1,356,931.68	\$0.00	\$1,356,931.68	\$1,356,931.68	\$0.00	\$1,356,931.68
13	\$1,615.02	\$0.00	\$1,615.02	\$1,384,070.32	\$0.00	\$1,384,070.32	\$1,384,070.32	\$0.00	\$1,384,070.32
14	\$1,914.59	\$0.00	\$1,914.59	\$1,411,056.28	\$0.00	\$1,411,056.28	\$1,411,056.28	\$0.00	\$1,411,056.28
15	\$1,956.44	\$0.00	\$1,956.44	\$1,437,986.96	\$0.00	\$1,437,986.96	\$1,437,986.96	\$0.00	\$1,437,986.96
16	\$725.97	\$0.00	\$725.97	\$2,177.92	\$0.00	\$2,177.92	\$2,177.92	\$0.00	\$2,177.92
17	\$2,173.29	\$0.00	\$2,173.29	\$2,173.29	\$0.00	\$2,173.29	\$2,173.29	\$0.00	\$2,173.29
18	\$2,216.75	\$0.00	\$2,216.75	\$2,216.75	\$0.00	\$2,216.75	\$2,216.75	\$0.00	\$2,216.75
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$25,569.01	\$0.00	\$25,569.01	\$18,899,597.30	\$0.00	\$18,899,597.30	\$18,899,597.30	\$0.00	\$18,899,597.30

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$10,500.60	\$45,922.15	\$401,592.93	\$0.00	\$458,015.68	\$116.73	\$116.73	\$180.62	\$180.62	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$10,500.60	\$45,922.15	\$401,592.93	\$0.00	\$458,015.68	\$116.73	\$116.73	\$180.62	\$180.62	\$0.00	\$0.00

2024 South Dakota Status Report - Direct Impact - Commercial Programs

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$609,367.36	\$0.00	\$37,894.45	\$0.00	\$647,261.81	\$0.00	\$0.00	\$0.00
2	\$521,011.95	\$0.00	\$39,031.28	\$0.00	\$560,043.23	\$0.00	\$0.00	\$0.00
3	\$538,737.84	\$0.00	\$40,202.22	\$0.00	\$578,940.06	\$0.00	\$0.00	\$0.00
4	\$558,209.26	\$0.00	\$41,171.42	\$0.00	\$599,380.68	\$0.00	\$0.00	\$0.00
5	\$566,837.61	\$0.00	\$42,406.56	\$0.00	\$609,244.17	\$0.00	\$0.00	\$0.00
6	\$560,215.62	\$0.00	\$43,676.32	\$0.00	\$603,891.95	\$0.00	\$0.00	\$0.00
7	\$557,688.28	\$0.00	\$44,986.61	\$0.00	\$602,674.89	\$0.00	\$0.00	\$0.00
8	\$564,378.88	\$0.00	\$46,336.21	\$0.00	\$610,715.09	\$0.00	\$0.00	\$0.00
9	\$570,839.58	\$0.00	\$47,721.51	\$0.00	\$618,561.09	\$0.00	\$0.00	\$0.00
10	\$582,866.70	\$0.00	\$49,153.15	\$0.00	\$632,019.85	\$0.00	\$0.00	\$0.00
11	\$615,622.37	\$0.00	\$50,627.75	\$0.00	\$666,250.11	\$0.00	\$0.00	\$0.00
12	\$689,473.28	\$0.00	\$52,123.23	\$0.00	\$741,596.51	\$0.00	\$0.00	\$0.00
13	\$703,804.70	\$0.00	\$53,686.92	\$0.00	\$757,491.62	\$0.00	\$0.00	\$0.00
14	\$747,746.92	\$0.00	\$55,275.31	\$0.00	\$803,022.23	\$0.00	\$0.00	\$0.00
15	\$796,133.16	\$0.00	\$56,933.56	\$0.00	\$853,066.73	\$0.00	\$0.00	\$0.00
16	\$1,146.93	\$0.00	\$111.01	\$0.00	\$1,257.94	\$0.00	\$0.00	\$0.00
17	\$1,160.71	\$0.00	\$112.85	\$0.00	\$1,273.56	\$0.00	\$0.00	\$0.00
18	\$1,264.38	\$0.00	\$116.24	\$0.00	\$1,380.62	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$9,186,505.54	\$0.00	\$701,566.60	\$0.00	\$9,888,072.14	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$431,982.06	\$209,313.61	\$37,894.45	\$0.00	\$679,190.12	\$0.00	\$0.00	\$0.00
2	\$369,346.68	\$209,313.61	\$39,031.28	\$0.00	\$617,691.58	\$0.00	\$0.00	\$0.00
3	\$381,912.61	\$209,313.61	\$40,202.22	\$0.00	\$631,428.44	\$0.00	\$0.00	\$0.00
4	\$395,717.59	\$208,116.25	\$41,171.42	\$0.00	\$645,005.26	\$0.00	\$0.00	\$0.00
5	\$401,834.28	\$208,116.25	\$42,406.56	\$0.00	\$652,357.09	\$0.00	\$0.00	\$0.00
6	\$397,140.41	\$208,104.65	\$43,676.32	\$0.00	\$648,921.39	\$0.00	\$0.00	\$0.00
7	\$395,348.76	\$208,104.65	\$44,986.61	\$0.00	\$648,440.02	\$0.00	\$0.00	\$0.00
8	\$400,091.77	\$208,104.65	\$46,336.21	\$0.00	\$654,532.63	\$0.00	\$0.00	\$0.00
9	\$404,672.01	\$208,083.76	\$47,721.51	\$0.00	\$660,477.28	\$0.00	\$0.00	\$0.00
10	\$413,198.12	\$208,083.76	\$49,153.15	\$0.00	\$670,435.03	\$0.00	\$0.00	\$0.00
11	\$436,418.83	\$208,083.76	\$50,627.75	\$0.00	\$695,130.34	\$0.00	\$0.00	\$0.00
12	\$488,773.05	\$207,990.58	\$52,123.23	\$0.00	\$748,886.85	\$0.00	\$0.00	\$0.00
13	\$498,932.71	\$207,990.58	\$53,686.92	\$0.00	\$760,610.20	\$0.00	\$0.00	\$0.00
14	\$530,084.92	\$207,906.98	\$55,275.31	\$0.00	\$793,267.21	\$0.00	\$0.00	\$0.00
15	\$564,386.30	\$207,906.98	\$56,933.56	\$0.00	\$829,226.84	\$0.00	\$0.00	\$0.00
16	\$813.14	\$393.56	\$111.01	\$0.00	\$1,317.71	\$0.00	\$0.00	\$0.00
17	\$823.00	\$388.45	\$112.85	\$0.00	\$1,324.31	\$0.00	\$0.00	\$0.00
18	\$896.51	\$388.45	\$116.24	\$0.00	\$1,401.20	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,512,372.76	\$3,125,704.16	\$701,566.60	\$0.00	\$10,339,643.52	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$573,471.33	\$0.00	\$37,894.45	\$0.00	\$611,365.78
2	\$490,320.67	\$0.00	\$39,031.28	\$0.00	\$529,351.95
3	\$507,002.38	\$0.00	\$40,202.22	\$0.00	\$547,204.60
4	\$525,326.23	\$0.00	\$41,171.42	\$0.00	\$566,497.65
5	\$533,446.30	\$0.00	\$42,406.56	\$0.00	\$575,852.86
6	\$527,214.23	\$0.00	\$43,676.32	\$0.00	\$570,890.56
7	\$524,835.77	\$0.00	\$44,986.61	\$0.00	\$569,822.38
8	\$531,132.24	\$0.00	\$46,336.21	\$0.00	\$577,468.45
9	\$537,212.28	\$0.00	\$47,721.51	\$0.00	\$584,933.79
10	\$548,530.90	\$0.00	\$49,153.15	\$0.00	\$597,684.05
11	\$579,356.98	\$0.00	\$50,627.75	\$0.00	\$629,984.72
12	\$648,857.16	\$0.00	\$52,123.23	\$0.00	\$700,980.39
13	\$662,344.34	\$0.00	\$53,686.92	\$0.00	\$716,031.26
14	\$703,697.54	\$0.00	\$55,275.31	\$0.00	\$758,972.84
15	\$749,233.40	\$0.00	\$56,933.56	\$0.00	\$806,166.97
16	\$1,079.34	\$0.00	\$111.01	\$0.00	\$1,190.35
17	\$1,092.27	\$0.00	\$112.85	\$0.00	\$1,205.13
18	\$1,189.84	\$0.00	\$116.24	\$0.00	\$1,306.07
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$8,645,343.21	\$0.00	\$701,566.60	\$0.00	\$9,346,909.80

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$431,982.06	\$209,313.61	\$37,894.45	\$0.00	\$679,190.12
2	\$344,893.72	\$195,455.79	\$36,447.18	\$0.00	\$576,796.69
3	\$333,016.82	\$182,515.45	\$35,055.18	\$0.00	\$550,587.45
4	\$322,209.69	\$169,456.89	\$33,523.48	\$0.00	\$525,190.07
5	\$305,528.20	\$158,237.83	\$32,243.14	\$0.00	\$496,009.18
6	\$281,967.78	\$147,753.30	\$31,009.98	\$0.00	\$460,731.06
7	\$262,111.98	\$137,971.15	\$29,825.64	\$0.00	\$429,908.77
8	\$247,694.97	\$128,836.63	\$28,686.53	\$0.00	\$405,218.14
9	\$233,943.95	\$120,294.80	\$27,588.16	\$0.00	\$381,826.91
10	\$223,058.14	\$112,330.56	\$26,534.51	\$0.00	\$361,923.21
11	\$219,995.75	\$104,893.60	\$25,521.10	\$0.00	\$350,410.46
12	\$230,074.85	\$97,905.15	\$24,535.40	\$0.00	\$352,515.41
13	\$219,308.24	\$91,423.25	\$23,598.34	\$0.00	\$334,329.83
14	\$217,575.26	\$85,336.17	\$22,687.95	\$0.00	\$325,599.38
15	\$216,317.47	\$79,686.40	\$21,821.45	\$0.00	\$317,825.32
16	\$291.03	\$140.86	\$39.73	\$0.00	\$471.61
17	\$275.05	\$129.82	\$37.72	\$0.00	\$442.59
18	\$279.79	\$121.23	\$36.28	\$0.00	\$437.29
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$4,090,524.75		\$2,021,802.49	\$437,086.22	\$0.00	\$6,549,413.47
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	0.00	0.00	0.00	0.00	0.00	0.00
TRC Test	0.00	0.00	0.00	0.00	0.00	0.00
RIM Test	0.00	0.00	0.00	0.00	0.00	0.00
RIM (Net Fuel) Test	0.00	0.00	0.00	0.00	0.00	0.00
Societal Test	0.00	0.00	0.00	0.00	0.00	0.00
Participant Test	0.00	0.00	0.00	0.00	0.00	0.00

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$0.00	\$32,240.63	(\$32,240.63)	0.00	Utility (PAC) Test
\$0.00	\$32,240.63	(\$32,240.63)	inf.	TRC Test
\$0.00	\$32,240.63	(\$32,240.63)	inf.	RIM Test
\$0.00	\$32,240.63	(\$32,240.63)	inf.	RIM (Net Fuel) Test
\$0.00	\$32,240.63	(\$32,240.63)	inf.	Societal Test
\$0.00	\$0.00	\$0.00	N/A	Participant Test

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40
Implementation / Participation Costs	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
TRC Test						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40
Implementation / Participation Costs	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
RIM Test						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40
Implementation / Participation Costs	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
Societal Test						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40	\$30,667.40
Implementation / Participation Costs	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23	\$1,573.23
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63	\$32,240.63
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
Participant Test						
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	-	-	-	-	-	-
kWh (Discounted)	-	-	-	-	-	-
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	-	-	-	-	-	-
kWh (Undiscounted)	-	-	-	-	-	-
CCF (Undiscounted)	-	-	-	-	-	-

Participants	kWh	Summer kW	Winter kW	
60	0	0	0	Generator
	0	0	0	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$30,667.40	\$1,573.23	\$0.00	\$0.00	\$32,240.63

2024 South Dakota Status Report - Indirect Impact - Advertising and Education

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs Gross			Total Participant Costs Net Free Riders / Drop-Out		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	60	0	60	0	60	60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	60	0	60	0	60	60	\$0	\$0	\$0	\$0	\$0	\$0

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
2	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
3	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
4	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
5	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
6	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
7	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
8	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
9	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
10	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
11	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
12	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							0	0							0

2024 South Dakota Status Report - Indirect Impact - Advertising and Education

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$30,667.40	\$1,573.23	\$0.00	\$0.00	\$32,240.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$30,667.40	\$1,573.23	\$0.00	\$0.00	\$32,240.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report - Indirect Impact - Advertising and Education

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Discount	7.09%				
	Energy	Capacity	T&D	Ancillary	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	0.00	0.00	0.00	0.00	0.00	0.00
TRC Test	0.00	0.00	0.00	0.00	0.00	0.00
RIM Test	0.00	0.00	0.00	0.00	0.00	0.00
RIM (Net Fuel) Test	0.00	0.00	0.00	0.00	0.00	0.00
Societal Test	0.00	0.00	0.00	0.00	0.00	0.00
Participant Test	0.00	0.00	0.00	0.00	0.00	0.00

Present Values (PVs) of Costs and Benefits Per Test						
Utility (PAC/UCT) Test	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10
Implementation / Participation Costs	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
TRC Test						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10
Implementation / Participation Costs	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
RIM Test						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10
Implementation / Participation Costs	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
Societal Test						
Avoided Electric Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Production Address	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric T&D	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Administration Costs	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10	\$831.10
Implementation / Participation Costs	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52	\$13,818.52
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62	\$14,649.62
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	0.00	0.00	0.00	0.00	0.00	0.00
Participant Test						
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	-	-	-	-	-	-
kWh (Discounted)	-	-	-	-	-	-
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	-	-	-	-	-	-
kWh (Undiscounted)	-	-	-	-	-	-
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS				
Total Benefits	Total Costs	Net Benefits	Benefit/ Cost Ratio	
\$0.00	\$14,649.62	(\$14,649.62)	0.00	Utility (PAC) Test
\$0.00	\$14,649.62	(\$14,649.62)	inf.	TRC Test
\$0.00	\$14,649.62	(\$14,649.62)	inf.	RIM Test
\$0.00	\$14,649.62	(\$14,649.62)	inf.	RIM (Net Fuel) Test
\$0.00	\$14,649.62	(\$14,649.62)	inf.	Societal Test
\$0.00	\$0.00	\$0.00	N/A	Participant Test

Participants	kWh	Summer kW	Winter kW	
-	0	0	0	Generator
	0	0	0	Meter

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$831.10	\$13,818.52	\$0.00	\$0.00	\$14,649.62

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Participation and Total Participant Costs												
Year	Participation						Total Participant Costs Gross			Total Participant Costs Net Free Riders / Drop-Out		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0

Impacts and Savings (Losses Included)															
Year	Electric Impacts/Savings														
	Per Participant or Unit										Cumulative				
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh
1	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
2	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
3	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
4	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
5	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
6	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
7	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
8	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
9	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
10	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
11	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
12	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
13	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
14	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
15	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
16	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
17	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
18	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
19	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
20	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0
Totals							0	0							0

2024 South Dakota Status Report -Indirect Impact - Program Development

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$831.10	\$13,818.52	\$0.00	\$0.00	\$14,649.62	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$831.10	\$13,818.52	\$0.00	\$0.00	\$14,649.62	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

[illegible][illegible]

Market-Based Avoided Costs (Net Free Riders) for Option Value					
Year	Cumulative Electric				
	Energy	Adders/Capacity	T&D	Ancillary	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Discount		7.09%			
	Energy	Capacity	T&D	Ancillary	Total
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

2024 South Dakota Status Report -All Programs

Cost / Benefit Tests For Normal Weather						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test	10.89	6.21	10.35	10.66	9.78	32.89
TRC Test	2.10	1.20	1.99	2.05	1.88	6.33
RIM Test	0.51	0.29	0.49	0.50	0.46	1.53
RIM (Net Fuel)	0.51	0.29	0.49	0.50	0.46	1.53
Societal Test	2.64	1.52	2.53	2.60	2.39	8.04
Participant Test	4.36	4.30	4.36	4.36	4.36	4.40

Present Values (PVs) of Costs and Benefits Per Test						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
Utility (PAC/UCT) Test						
Avoided Electric Production	\$4,462,474.14	\$3,589,429.56	\$6,299,250.61	\$6,502,164.93	\$5,929,321.02	\$21,046,781.40
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,189,477.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,124,374.30	\$4,061,852.66	\$6,771,673.70	\$6,974,588.03	\$6,401,744.11	\$21,519,204.50
Administration Costs	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88
Implementation / Participation Costs	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93
Total	\$654,260.91	\$654,260.91	\$654,260.91	\$654,260.91	\$654,260.91	\$654,260.91
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	10.89	6.21	10.35	10.66	9.78	32.89

TRC Test						
Avoided Electric Production	\$4,462,474.14	\$3,589,429.56	\$6,299,250.61	\$6,502,164.93	\$5,929,321.02	\$21,046,781.40
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,189,477.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,124,374.30	\$4,061,852.66	\$6,771,673.70	\$6,974,588.03	\$6,401,744.11	\$21,519,204.50
Administration Costs	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88
Implementation / Participation Costs	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$127,040.98	\$127,040.98	\$127,040.98	\$127,040.98	\$127,040.98	\$127,040.98
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47
Participant or Unit Tax Credits (Net)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.10	1.20	1.99	2.05	1.88	6.33

RIM Test						
Avoided Electric Production	\$4,462,474.14	\$3,589,429.56	\$6,299,250.61	\$6,502,164.93	\$5,929,321.02	\$21,046,781.40
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,189,477.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09	\$472,423.09
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$7,124,374.30	\$4,061,852.66	\$6,771,673.70	\$6,974,588.03	\$6,401,744.11	\$21,519,204.50
Administration Costs	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88
Implementation / Participation Costs	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Incentives	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93
Total	\$654,260.91	\$654,260.91	\$654,260.91	\$654,260.91	\$654,260.91	\$654,260.91
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Lost Revenue	\$13,289,047.13	\$13,131,905.14	\$13,289,047.13	\$13,289,047.13	\$13,289,047.13	\$13,424,633.24
Gas Lost Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$13,289,047.13	\$13,131,905.14	\$13,289,047.13	\$13,289,047.13	\$13,289,047.13	\$13,424,633.24
Electric Lost Revenue (Net Fuel)	\$13,289,047.13	\$13,131,905.14	\$13,289,047.13	\$13,289,047.13	\$13,289,047.13	\$13,424,633.24
Gas Lost Revenue (Net Fuel)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$13,289,047.13	\$13,131,905.14	\$13,289,047.13	\$13,289,047.13	\$13,289,047.13	\$13,424,633.24
Test Results	0.51	0.29	0.49	0.50	0.46	1.53

Societal Test						
Avoided Electric Production	\$5,661,055.10	\$4,553,331.77	\$7,991,463.28	\$8,248,951.33	\$7,522,234.73	\$26,712,116.09
Avoided Electric Production Adders	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric Capacity	\$2,717,761.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Electric TRD	\$598,601.49	\$598,601.49	\$598,601.49	\$598,601.49	\$598,601.49	\$598,601.49
Avoided Electric Ancillary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Production	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avoided Gas Capacity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$8,977,418.40	\$5,151,933.26	\$8,590,064.77	\$8,847,552.82	\$8,120,836.22	\$27,310,717.58
Administration Costs	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88	\$62,153.88
Implementation / Participation Costs	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10	\$64,887.10
Other / Miscellaneous Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$127,040.98	\$127,040.98	\$127,040.98	\$127,040.98	\$127,040.98	\$127,040.98
Reduced Arrears	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant or Unit Costs (Net)	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47
Environmental Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Test Results	2.64	1.52	2.53	2.60	2.39	8.04

Participant Test						
Incentives	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93	\$527,219.93
Participant or Unit Costs (Gross)	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47	\$3,269,976.47
Participant or Unit Tax Credits (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Electric Bill Savings (Gross)	\$13,725,166.90	\$13,549,735.56	\$13,725,166.90	\$13,725,166.90	\$13,725,166.90	\$13,875,667.18
Gas Bill Savings (Gross)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$13,725,166.90	\$13,549,735.56	\$13,725,166.90	\$13,725,166.90	\$13,725,166.90	\$13,875,667.18
Test Results	4.36	4.30	4.36	4.36	4.36	4.40

Present Values (PVs) of Impacts						
	Cost Based	Market-Based				
		Minimum	Today	Alternate	Option	Maximum
kW (Discounted)	61,209.85	61,209.85	61,209.85	61,209.85	61,209.85	61,209.85
kWh (Discounted)	239,373,266.86	236,134,195.49	239,373,266.86	239,373,266.86	239,373,266.86	242,249,506.78
CCF (Discounted)	-	-	-	-	-	-
kW (Undiscounted)	61,209.85	61,209.85	61,209.85	61,209.85	61,209.85	61,209.85
kWh (Undiscounted)	239,373,266.86	236,134,195.49	239,373,266.86	239,373,266.86	239,373,266.86	242,249,506.78
CCF (Undiscounted)	-	-	-	-	-	-

NET BENEFITS					
Total Benefits	Total Costs	Net Benefits	Benefit/Cost Ratio		
\$7,124,374.30	\$654,260.91	\$6,470,113.39	10.89		Utility (PAC) Test
\$7,124,374.30	\$3,397,017.45	\$3,727,356.85	2.10		TRC Test
\$7,124,374.30	\$13,943,308.04	(\$6,818,933.74)	0.51		RIM Test
\$7,124,374.30	\$13,943,308.04	(\$6,818,933.74)	0.51		RIM (Net Fuel) Test
\$8,977,418.40	\$3,397,017.45	\$5,580,400.95	2.64		Societal Test
\$14,252,386.83	\$3,269,976.47	\$10,982,410.36	N/A		Participant Test

Participants	kWh	Summer kW	Winter kW	Generator Meter
7,405	15,822,891	2,557	1,949	
	14,338,823	2,317	1,766	

Loss Factor: 10.35%

Administration Costs	Implementation Costs	Other/Misc. Costs	Incentives	Total Costs
\$62,153.88	\$64,887.10	\$0.00	\$527,219.93	\$654,260.91

Participation and Total Participant Costs												
Year	Participation						Total Participant Costs			Total Participant Costs		
	New Participants	New Free Riders	Cumulative Participants	Cumulative Free Riders	Cumulative Participants (net free riders)	Cumulative Participants (net free/drop-out)	Gross			Net Free Riders / Drop-Out		
							One-Time Investment	Annual Investment	Total Costs	One-Time Investment	Annual Investment	Total Costs
1	7405	0	7405	0	7405	7405	\$3,269,976.47	\$0.00	\$3,269,976.47	\$3,269,976.47	\$0.00	\$3,269,976.47
2	0	0	6680	0	6680	6680	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	0	0	6680	0	6680	6680	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	0	0	6423	0	6423	6423	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0	0	6423	0	6423	6423	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	0	0	6421	0	6421	6421	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	0	0	6421	0	6421	6421	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	0	0	6421	0	6421	6421	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	0	0	6401	0	6401	6401	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	0	0	6401	0	6401	6401	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	0	0	6382	0	6382	6382	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	0	0	6313	0	6313	6313	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	0	0	6313	0	6313	6313	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	0	0	6193	0	6193	6193	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	0	0	6191	0	6191	6191	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	0	0	1073	0	1073	1073	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	0	0	1071	0	1071	1071	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	0	0	1071	0	1071	1071	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	0	0	988	0	988	988	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	0	0	988	0	988	988	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	7,405	0	102,259	0	102,259	102,259	\$3,269,976	\$0	\$3,269,976	\$3,269,976	\$0	\$3,269,976

Impacts and Savings (Losses Included)																
Year	Electric Impacts/Savings															
	Per Participant or Unit								Cumulative							
	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	kWh (net)	Billing kW	Billing kW (net)	Summer Coin kW	Summer Coin (net)	Winter Coin kW	Winter Coin (net)	kWh	
1	0.445	0.445	0.345	0.345	0.263	0.263	2,136.78	2,136.78	3,295	3,295	2,557	2,557	1,949	1,949	15,822,891	
2	0.424	0.424	0.314	0.314	0.292	0.292	2,364.56	2,364.56	2,834	2,834	2,096	2,096	1,949	1,949	15,795,240	
3	0.424	0.424	0.314	0.314	0.292	0.292	2,364.56	2,364.56	2,834	2,834	2,096	2,096	1,949	1,949	15,795,240	
4	0.439	0.439	0.325	0.325	0.302	0.302	2,449.72	2,449.72	2,819	2,819	2,085	2,085	1,938	1,938	15,734,524	
5	0.439	0.439	0.325	0.325	0.302	0.302	2,449.72	2,449.72	2,819	2,819	2,085	2,085	1,938	1,938	15,734,524	
6	0.439	0.439	0.325	0.325	0.302	0.302	2,449.92	2,449.92	2,818	2,818	2,085	2,085	1,938	1,938	15,730,964	
7	0.439	0.439	0.325	0.325	0.302	0.302	2,449.92	2,449.92	2,818	2,818	2,085	2,085	1,938	1,938	15,730,964	
8	0.439	0.439	0.325	0.325	0.302	0.302	2,449.92	2,449.92	2,818	2,818	2,085	2,085	1,938	1,938	15,730,964	
9	0.440	0.440	0.326	0.326	0.303	0.303	2,457.35	2,457.35	2,818	2,818	2,085	2,085	1,938	1,938	15,729,472	
10	0.440	0.440	0.326	0.326	0.303	0.303	2,457.35	2,457.35	2,818	2,818	2,085	2,085	1,938	1,938	15,729,472	
11	0.441	0.441	0.326	0.326	0.303	0.303	2,462.97	2,462.97	2,815	2,815	2,082	2,082	1,937	1,937	15,718,674	
12	0.446	0.446	0.330	0.330	0.307	0.307	2,489.14	2,489.14	2,814	2,814	2,081	2,081	1,936	1,936	15,713,930	
13	0.446	0.446	0.330	0.330	0.307	0.307	2,489.14	2,489.14	2,814	2,814	2,081	2,081	1,936	1,936	15,713,930	
14	0.454	0.454	0.336	0.336	0.312	0.312	2,536.30	2,536.30	2,813	2,813	2,080	2,080	1,935	1,935	15,707,283	
15	0.454	0.454	0.336	0.336	0.313	0.313	2,535.10	2,535.10	2,810	2,810	2,080	2,080	1,935	1,935	15,694,824	
16	0.188	0.188	0.095	0.095	0.011	0.011	953.89	953.89	202	202	102	102	12	12	1,023,519	
17	0.189	0.189	0.095	0.095	0.011	0.011	955.27	955.27	202	202	102	102	12	12	1,023,093	
18	0.189	0.189	0.095	0.095	0.011	0.011	955.27	955.27	202	202	102	102	12	12	1,023,093	
19	0.095	0.095	0.008	0.008	0.008	0.008	111.67	111.67	94	94	8	8	8	8	110,333	
20	0.095	0.095	0.008	0.008	0.008	0.008	111.67	111.67	94	94	8	8	8	8	110,333	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0	0	0	0	0	0	0	
Totals							39,630	39,630								239,373,267

2024 South Dakota Status Report -All Programs

Lost Revenue Dollars									
Year	Lost Revenue per Participant			Cumulative Lost Revenue			Cumulative Lost Revenue (Net Fuel)		
	Electric	Gas	Total	Net Free/Drop-Out Electric	Net Free/Drop-Out Gas	Net Free/Drop-Out Total	Net Fuel Net Free/Drop-Out Electric	Net Fuel Net Free/Drop-Out Gas	Net Fuel Net Free/Drop-Out Total
1	\$163.61	\$0.00	\$163.61	\$1,211,557.28	\$0.00	\$1,211,557.28	\$1,211,557.28	\$0.00	\$1,211,557.28
2	\$184.52	\$0.00	\$184.52	\$1,232,576.63	\$0.00	\$1,232,576.63	\$1,232,576.63	\$0.00	\$1,232,576.63
3	\$188.21	\$0.00	\$188.21	\$1,257,228.16	\$0.00	\$1,257,228.16	\$1,257,228.16	\$0.00	\$1,257,228.16
4	\$198.82	\$0.00	\$198.82	\$1,277,026.66	\$0.00	\$1,277,026.66	\$1,277,026.66	\$0.00	\$1,277,026.66
5	\$202.80	\$0.00	\$202.80	\$1,302,567.20	\$0.00	\$1,302,567.20	\$1,302,567.20	\$0.00	\$1,302,567.20
6	\$206.87	\$0.00	\$206.87	\$1,328,301.31	\$0.00	\$1,328,301.31	\$1,328,301.31	\$0.00	\$1,328,301.31
7	\$211.01	\$0.00	\$211.01	\$1,354,867.34	\$0.00	\$1,354,867.34	\$1,354,867.34	\$0.00	\$1,354,867.34
8	\$215.23	\$0.00	\$215.23	\$1,381,964.69	\$0.00	\$1,381,964.69	\$1,381,964.69	\$0.00	\$1,381,964.69
9	\$220.19	\$0.00	\$220.19	\$1,409,460.09	\$0.00	\$1,409,460.09	\$1,409,460.09	\$0.00	\$1,409,460.09
10	\$224.60	\$0.00	\$224.60	\$1,437,649.29	\$0.00	\$1,437,649.29	\$1,437,649.29	\$0.00	\$1,437,649.29
11	\$229.56	\$0.00	\$229.56	\$1,465,024.88	\$0.00	\$1,465,024.88	\$1,465,024.88	\$0.00	\$1,465,024.88
12	\$236.63	\$0.00	\$236.63	\$1,493,821.31	\$0.00	\$1,493,821.31	\$1,493,821.31	\$0.00	\$1,493,821.31
13	\$241.36	\$0.00	\$241.36	\$1,523,697.74	\$0.00	\$1,523,697.74	\$1,523,697.74	\$0.00	\$1,523,697.74
14	\$250.84	\$0.00	\$250.84	\$1,553,476.25	\$0.00	\$1,553,476.25	\$1,553,476.25	\$0.00	\$1,553,476.25
15	\$255.73	\$0.00	\$255.73	\$1,583,255.33	\$0.00	\$1,583,255.33	\$1,583,255.33	\$0.00	\$1,583,255.33
16	\$133.85	\$0.00	\$133.85	\$143,617.26	\$0.00	\$143,617.26	\$143,617.26	\$0.00	\$143,617.26
17	\$136.73	\$0.00	\$136.73	\$146,441.41	\$0.00	\$146,441.41	\$146,441.41	\$0.00	\$146,441.41
18	\$139.47	\$0.00	\$139.47	\$149,370.24	\$0.00	\$149,370.24	\$149,370.24	\$0.00	\$149,370.24
19	\$16.69	\$0.00	\$16.69	\$16,489.53	\$0.00	\$16,489.53	\$16,489.53	\$0.00	\$16,489.53
20	\$17.02	\$0.00	\$17.02	\$16,819.32	\$0.00	\$16,819.32	\$16,819.32	\$0.00	\$16,819.32
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$3,673.73	\$0.00	\$3,673.73	\$21,285,211.89	\$0.00	\$21,285,211.89	\$21,285,211.89	\$0.00	\$21,285,211.89

Utility Program Costs											
Year	Overall Costs					Total Costs per kW, kWh, and CCF Saved (Losses Included)					
	Administration	Implementation	Incentives	Other	Total	\$/kW	\$/kW (net)	\$/kWh	\$/kWh (net)	\$/CCF	\$/CCF (net)
1	\$62,153.88	\$64,887.10	\$527,219.93	\$0.00	\$654,260.91	\$145.19	\$145.19	\$233.98	\$233.98	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$62,153.88	\$64,887.10	\$527,219.93	\$0.00	\$654,260.91	\$145.19	\$145.19	\$233.98	\$233.98	\$0.00	\$0.00

2024 South Dakota Status Report -All Programs

Market-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included) for Today Scenario								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Adders/Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$658,606.74	\$0.00	\$48,707.06	\$0.00	\$707,313.80	\$0.00	\$0.00	\$0.00
2	\$561,952.98	\$0.00	\$41,126.93	\$0.00	\$603,079.91	\$0.00	\$0.00	\$0.00
3	\$581,071.77	\$0.00	\$42,360.73	\$0.00	\$623,432.51	\$0.00	\$0.00	\$0.00
4	\$602,257.74	\$0.00	\$43,394.68	\$0.00	\$645,652.42	\$0.00	\$0.00	\$0.00
5	\$611,566.96	\$0.00	\$44,696.52	\$0.00	\$656,263.48	\$0.00	\$0.00	\$0.00
6	\$604,434.05	\$0.00	\$46,034.99	\$0.00	\$650,469.04	\$0.00	\$0.00	\$0.00
7	\$601,707.22	\$0.00	\$47,416.04	\$0.00	\$649,123.25	\$0.00	\$0.00	\$0.00
8	\$608,925.92	\$0.00	\$48,838.52	\$0.00	\$657,764.43	\$0.00	\$0.00	\$0.00
9	\$615,901.54	\$0.00	\$50,298.88	\$0.00	\$666,200.42	\$0.00	\$0.00	\$0.00
10	\$628,878.07	\$0.00	\$51,807.85	\$0.00	\$680,685.92	\$0.00	\$0.00	\$0.00
11	\$663,725.76	\$0.00	\$53,288.74	\$0.00	\$717,014.51	\$0.00	\$0.00	\$0.00
12	\$743,366.10	\$0.00	\$54,864.05	\$0.00	\$798,230.16	\$0.00	\$0.00	\$0.00
13	\$758,817.74	\$0.00	\$56,509.98	\$0.00	\$815,327.72	\$0.00	\$0.00	\$0.00
14	\$806,223.43	\$0.00	\$58,183.05	\$0.00	\$864,406.49	\$0.00	\$0.00	\$0.00
15	\$858,446.45	\$0.00	\$59,928.54	\$0.00	\$918,375.00	\$0.00	\$0.00	\$0.00
16	\$66,558.88	\$0.00	\$3,026.09	\$0.00	\$69,584.98	\$0.00	\$0.00	\$0.00
17	\$68,989.86	\$0.00	\$3,115.39	\$0.00	\$72,105.25	\$0.00	\$0.00	\$0.00
18	\$75,152.08	\$0.00	\$3,208.85	\$0.00	\$78,360.93	\$0.00	\$0.00	\$0.00
19	\$8,519.99	\$0.00	\$263.11	\$0.00	\$8,783.10	\$0.00	\$0.00	\$0.00
20	\$8,979.05	\$0.00	\$271.01	\$0.00	\$9,250.05	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$10,134,082.34	\$0.00	\$757,341.02	\$0.00	\$10,891,423.36	\$0.00	\$0.00	\$0.00

Cost-Based Avoided Costs (Net Free Riders/Drop-Out, Losses Included)								
Year	Cumulative Electric					Cumulative Gas		
	Energy	Capacity	T&D	Ancillary	Total	Production	Capacity	Total
1	\$466,601.52	\$269,038.08	\$48,707.06	\$0.00	\$784,346.66	\$0.00	\$0.00	\$0.00
2	\$398,129.89	\$220,551.93	\$41,126.93	\$0.00	\$659,808.75	\$0.00	\$0.00	\$0.00
3	\$411,675.08	\$220,551.93	\$42,360.73	\$0.00	\$674,587.75	\$0.00	\$0.00	\$0.00
4	\$426,685.46	\$219,354.58	\$43,394.68	\$0.00	\$689,434.72	\$0.00	\$0.00	\$0.00
5	\$433,280.82	\$219,354.58	\$44,696.52	\$0.00	\$697,331.92	\$0.00	\$0.00	\$0.00
6	\$428,227.75	\$219,342.98	\$46,034.99	\$0.00	\$693,605.72	\$0.00	\$0.00	\$0.00
7	\$426,295.85	\$219,342.98	\$47,416.04	\$0.00	\$693,054.87	\$0.00	\$0.00	\$0.00
8	\$431,410.14	\$219,342.98	\$48,838.52	\$0.00	\$699,591.63	\$0.00	\$0.00	\$0.00
9	\$436,352.39	\$219,322.09	\$50,298.88	\$0.00	\$705,973.35	\$0.00	\$0.00	\$0.00
10	\$445,545.97	\$219,322.09	\$51,807.85	\$0.00	\$716,675.90	\$0.00	\$0.00	\$0.00
11	\$470,237.46	\$219,020.66	\$53,288.74	\$0.00	\$742,546.87	\$0.00	\$0.00	\$0.00
12	\$526,661.88	\$218,927.48	\$54,864.05	\$0.00	\$800,453.42	\$0.00	\$0.00	\$0.00
13	\$537,609.10	\$218,927.48	\$56,509.98	\$0.00	\$813,046.55	\$0.00	\$0.00	\$0.00
14	\$571,196.28	\$218,843.89	\$58,183.05	\$0.00	\$848,223.22	\$0.00	\$0.00	\$0.00
15	\$608,195.06	\$218,843.89	\$59,928.54	\$0.00	\$886,967.49	\$0.00	\$0.00	\$0.00
16	\$46,800.38	\$10,728.67	\$3,026.09	\$0.00	\$60,555.15	\$0.00	\$0.00	\$0.00
17	\$48,509.64	\$10,723.56	\$3,115.39	\$0.00	\$62,348.59	\$0.00	\$0.00	\$0.00
18	\$52,842.55	\$10,723.56	\$3,208.85	\$0.00	\$66,774.96	\$0.00	\$0.00	\$0.00
19	\$5,989.90	\$853.68	\$263.11	\$0.00	\$7,106.69	\$0.00	\$0.00	\$0.00
20	\$6,312.63	\$853.68	\$271.01	\$0.00	\$7,437.32	\$0.00	\$0.00	\$0.00
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$7,178,559.74	\$3,373,970.75	\$757,341.02	\$0.00	\$11,309,871.51	\$0.00	\$0.00	\$0.00

Market-Based Avoided Costs (Net Free Riders) for Option Value						
Year	Cumulative Electric					Total
	Energy	Adders/Capacity	T&D	Ancillary	Total	
1	\$619,911.29	\$0.00	\$48,707.06	\$0.00	\$668,618.35	
2	\$528,939.24	\$0.00	\$41,126.93	\$0.00	\$570,066.17	
3	\$546,934.84	\$0.00	\$42,360.73	\$0.00	\$589,295.57	
4	\$566,875.97	\$0.00	\$43,394.68	\$0.00	\$610,270.66	
5	\$575,638.29	\$0.00	\$44,696.52	\$0.00	\$620,334.81	
6	\$568,924.28	\$0.00	\$46,034.99	\$0.00	\$614,959.27	
7	\$566,357.64	\$0.00	\$47,416.04	\$0.00	\$613,773.68	
8	\$573,152.26	\$0.00	\$48,838.52	\$0.00	\$621,990.77	
9	\$579,718.00	\$0.00	\$50,298.88	\$0.00	\$630,016.88	
10	\$591,932.18	\$0.00	\$51,807.85	\$0.00	\$643,740.03	
11	\$624,731.61	\$0.00	\$53,288.74	\$0.00	\$678,020.35	
12	\$699,692.81	\$0.00	\$54,864.05	\$0.00	\$754,556.86	
13	\$714,236.65	\$0.00	\$56,509.98	\$0.00	\$770,746.63	
14	\$758,856.85	\$0.00	\$58,183.05	\$0.00	\$817,039.90	
15	\$808,011.85	\$0.00	\$59,928.54	\$0.00	\$867,940.39	
16	\$62,780.67	\$0.00	\$3,026.09	\$0.00	\$65,806.76	
17	\$65,073.68	\$0.00	\$3,115.39	\$0.00	\$68,189.07	
18	\$70,886.10	\$0.00	\$3,208.85	\$0.00	\$74,094.96	
19	\$8,036.67	\$0.00	\$263.11	\$0.00	\$8,299.79	
20	\$8,469.69	\$0.00	\$271.01	\$0.00	\$8,740.70	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals	\$9,539,160.58	\$0.00	\$757,341.02	\$0.00	\$10,296,501.60	

Discount		7.09%				
	Energy	Capacity	T&D	Ancillary	Total	
1	\$466,601.52	\$269,038.08	\$48,707.06	\$0.00	\$784,346.66	
2	\$371,771.30	\$205,950.07	\$38,404.08	\$0.00	\$616,125.45	
3	\$358,968.83	\$192,314.94	\$36,937.34	\$0.00	\$588,221.12	
4	\$347,425.01	\$178,607.60	\$35,333.75	\$0.00	\$561,366.37	
5	\$329,438.07	\$166,782.71	\$33,984.28	\$0.00	\$530,205.06	
6	\$304,039.64	\$155,732.46	\$32,684.62	\$0.00	\$492,456.72	
7	\$282,629.57	\$145,422.04	\$31,436.32	\$0.00	\$459,487.93	
8	\$267,084.03	\$135,794.23	\$30,235.70	\$0.00	\$433,113.95	
9	\$252,258.62	\$126,791.76	\$29,078.16	\$0.00	\$408,128.53	
10	\$240,520.59	\$118,397.38	\$27,967.60	\$0.00	\$386,885.57	
11	\$237,043.49	\$110,406.82	\$26,862.49	\$0.00	\$374,312.81	
12	\$247,909.85	\$103,053.36	\$25,825.56	\$0.00	\$376,788.78	
13	\$236,308.63	\$96,230.61	\$24,839.23	\$0.00	\$357,378.47	
14	\$234,449.56	\$89,825.26	\$23,881.44	\$0.00	\$348,156.26	
15	\$233,108.46	\$83,878.29	\$22,969.36	\$0.00	\$339,956.10	
16	\$16,750.03	\$3,839.83	\$1,083.05	\$0.00	\$21,672.91	
17	\$16,212.33	\$3,583.90	\$1,041.19	\$0.00	\$20,837.42	
18	\$16,491.20	\$3,346.63	\$1,001.42	\$0.00	\$20,839.25	
19	\$1,745.58	\$248.78	\$76.68	\$0.00	\$2,071.03	
20	\$1,717.83	\$232.31	\$73.75	\$0.00	\$2,023.89	
21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
\$4,462,474.14		\$2,189,477.07	\$472,423.09	\$0.00	\$7,124,374.30	
\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	