

2027 Proposed South Dakota EEP Projects
Otter Tail Power Company

Appendix A, Table 1

	Total Budget	Participation	Proposed Energy Savings (kWh)	Proposed Demand Savings (kW)
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	\$8,000	681	28,312	471.9
Home Lighting	\$40,000	3,150	228,589	39.2
Home Heating and Cooling	\$150,000	174	686,908	21.5
Smart Thermostats	\$7,000	40	36,477	2.3
Total Residential	\$205,000	4,045	980,285	535.0
Commercial				
Drive Power	\$112,000	241	3,981,790	518.7
Custom Efficiency Grants	\$72,000	12	1,059,360	688.6
Commercial Heating and Cooling	\$130,000	208	442,743	26.6
Commercial Lighting	\$70,000	91	1,192,189	195.5
Total Commercial	\$384,000	552	6,676,082	1,429.4
TOTAL DIRECT IMPACT PROJECTS	\$589,000	4,597	7,656,367	1,964.4
INDIRECT IMPACT PROJECTS				
Advertising and Education	\$41,000	525	0	0.0
TOTAL INDIRECT IMPACT PROJECTS	\$41,000	525	0	0.0
TOTAL WITHOUT DEVELOPMENT COSTS	\$630,000	5,122	7,656,367	1,964.4
DEVELOPMENT				
Development	\$20,000	0	0	0.0
TOTAL DEVELOPMENT	\$20,000	0	0	0.0
TOTAL ALL PROJECTS	\$650,000	5,122	7,656,367	1,964.4

2027 Proposed South Dakota EEP Projects
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Benefit/Cost Ratios

Appendix A, Table 2

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	9.83	9.83	6.75	inf.
Home Lighting	4.92	2.46	0.47	7.49
Home Heating and Cooling	2.26	1.59	0.28	7.18
Smart Thermostats	2.50	1.89	0.39	8.20
Total Residential	3.08	2.01	0.37	7.29
Commercial				
Drive Power	21.54	3.32	0.64	4.64
Custom Efficiency Grants	23.47	2.44	1.94	1.11
Commercial Heating and Cooling	1.75	1.05	0.42	2.29
Commercial Lighting	9.04	2.78	0.60	4.51
Total Commercial	12.92	2.66	0.80	3.02
INDIRECT IMPACT PROJECTS				
Advertising and Education	0.00	0.00	0.00	inf.
TOTAL INDIRECT IMPACT PROJECTS	0.00	0.00	0.00	inf.
TOTAL ALL PROJECTS	8.61	2.50	0.70	3.56

2028 Proposed South Dakota EEP Projects
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Appendix A, Table 3

	Total Budget	Participation	Proposed Energy Savings (kWh)	Proposed Demand Savings (kW)
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	\$8,000	691	28,728	478.9
Home Lighting	\$40,000	3,150	228,589	39.2
Home Heating and Cooling	\$150,000	174	686,908	21.5
Smart Thermostats	\$7,000	40	36,477	2.3
Total Residential	\$205,000	4,055	980,701	541.9
Commercial				
Drive Power	\$112,000	241	3,981,790	518.7
Custom Efficiency Grants	\$72,000	12	1,059,360	688.6
Commercial Heating and Cooling	\$130,000	208	442,743	26.6
Commercial Lighting	\$70,000	91	1,192,189	195.5
Total Commercial	\$384,000	552	6,676,082	1,429.4
TOTAL DIRECT IMPACT PROJECTS	\$589,000	4,607	7,656,783	1,971.3
INDIRECT IMPACT PROJECTS				
Advertising and Education	\$41,000	525	0	0.0
TOTAL INDIRECT IMPACT PROJECTS	\$41,000	525	0	0.0
TOTAL WITHOUT DEVELOPMENT COSTS	\$630,000	5,132	7,656,783	1,971.3
DEVELOPMENT				
Development	\$20,000	0	0	0.0
TOTAL DEVELOPMENT	\$20,000	0	0	0.0
TOTAL ALL PROJECTS	\$650,000	5,132	7,656,783	1,971.3

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Benefit/Cost Ratios

Appendix A, Table 4

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	10.32	10.32	7.01	inf.
Home Lighting	5.07	2.54	0.48	7.63
Home Heating and Cooling	2.33	1.62	0.28	7.22
Smart Thermostats	2.59	1.96	0.40	8.35
Total Residential	3.19	2.06	0.38	7.35
Commercial				
Drive Power	22.23	3.43	0.65	4.73
Custom Efficiency Grants	24.27	2.52	1.97	1.13
Commercial Heating and Cooling	1.81	1.08	0.43	2.32
Commercial Lighting	9.33	2.87	0.61	4.59
Total Commercial	13.35	2.75	0.81	3.08
INDIRECT IMPACT PROJECTS				
Advertising and Education	0.00	0.00	0.00	inf.
TOTAL INDIRECT IMPACT PROJECTS	0.00	0.00	0.00	inf.
TOTAL ALL PROJECTS	8.89	2.58	0.71	3.62

**2029 Proposed South Dakota EEP Projects
Otter Tail Power Company**

Appendix A, Table 5

	Total Budget	Participation	Proposed Energy Savings (kWh)	Proposed Demand Savings (kW)
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	\$8,000	701	29,144	485.8
Home Lighting	\$40,000	3,150	228,589	39.2
Home Heating and Cooling	\$150,000	174	686,908	21.5
Smart Thermostats	\$7,000	40	36,477	2.3
Total Residential	\$205,000	4,065	981,117	548.8
Commercial				
Drive Power	\$112,000	241	3,981,790	518.7
Custom Efficiency Grants	\$72,000	12	1,059,360	688.6
Commercial Heating and Cooling	\$130,000	208	442,743	26.6
Commercial Lighting	\$70,000	91	1,192,189	195.5
Total Commercial	\$384,000	552	6,676,082	1,429.4
TOTAL DIRECT IMPACT PROJECTS	\$589,000	4,617	7,657,199	1,978.2
INDIRECT IMPACT PROJECTS				
Advertising and Education	\$41,000	525	0	0.0
TOTAL INDIRECT IMPACT PROJECTS	\$41,000	525	0	0.0
TOTAL WITHOUT DEVELOPMENT COSTS	\$630,000	5,142	7,657,199	1,978.2
DEVELOPMENT				
Development	\$20,000	0	0	0.0
TOTAL DEVELOPMENT	\$20,000	0	0	0.0
TOTAL ALL PROJECTS	\$650,000	5,142	7,657,199	1,978.2

2029 Proposed South Dakota EEP Projects
Otter Tail Power Company
Benefit/Cost Ratios

Appendix A, Table 6

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	10.79	10.79	7.24	inf.
Home Lighting	5.23	2.61	0.48	7.78
Home Heating and Cooling	2.40	1.67	0.29	7.35
Smart Thermostats	2.67	2.02	0.40	8.51
Total Residential	3.29	2.13	0.39	7.49
Commercial				
Drive Power	22.89	3.53	0.65	4.83
Custom Efficiency Grants	24.99	2.60	1.99	1.15
Commercial Heating and Cooling	1.86	1.11	0.43	2.36
Commercial Lighting	9.61	2.96	0.62	4.68
Total Commercial	13.75	2.83	0.81	3.13
INDIRECT IMPACT PROJECTS				
Advertising and Education	0.00	0.00	0.00	inf.
TOTAL INDIRECT IMPACT PROJECTS	0.00	0.00	0.00	inf.
TOTAL ALL PROJECTS	9.16	2.66	0.72	3.69

2027-2029 SOUTH DAKOTA ENERGY EFFICIENCY PLAN
Otter Tail Power Company
2027-2029 Benefit/Cost Ratios

Appendix A, Table 7

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	10.31	10.31	7.00	inf.
Home Lighting	5.07	2.54	0.48	7.64
Home Heating and Cooling	2.33	1.63	0.28	7.25
Smart Thermostats	2.59	1.95	0.39	8.35
Total Residential	3.19	2.07	0.38	7.38
Commercial				
Drive Power	22.22	3.43	0.65	4.73
Custom Efficiency Grants	24.24	2.52	1.96	1.13
Commercial Heating and Cooling	1.80	1.08	0.43	2.32
Commercial Lighting	9.33	2.87	0.61	4.59
Total Commercial	13.34	2.75	0.81	3.08
INDIRECT IMPACT PROJECTS				
Advertising and Education				
TOTAL INDIRECT IMPACT PROJECTS				
TOTAL ALL PROJECTS	8.88	2.58	0.71	3.62