

**2024 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	\$8,250	700	29,102	485.1
Home Lighting	\$25,750	5,411	86,818	7.7
Residential Heat Pumps	\$153,000	137	918,760	93.1
Smart Thermostats	\$8,000	40	49,782	1.5
Total Residential	\$195,000	6,288	1,084,462	587.4
Commercial				
Drive Power	\$80,000	165	3,428,036	433.5
Custom Efficiency Grants	\$59,000	4	286,910	35.3
Commercial Direct Install	\$13,000	643	48,638	7.2
Commercial Heat Pumps	\$132,000	97	761,629	71.8
Commercial Lighting	\$115,000	70	2,355,018	312.4
Total Commercial	\$399,000	979	6,880,231	860.3
TOTAL DIRECT IMPACT PROJECTS	\$594,000	7,267	7,964,693	1,447.7
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	\$635,000	7,792	7,964,693	1,447.7
DEVELOPMENT				
Development	\$15,000	0	0	0.0
TOTAL DEVELOPMENT	\$15,000	0	0	0.0
TOTAL ALL PROJECTS	\$650,000	7,792	7,964,693	1,447.7

2024 Proposed South Dakota EEP Projects
Otter Tail Power Company
Benefit/Cost Ratios

Appendix A, Table 2

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	7.43	8.95	5.30	inf.
Home Lighting	1.52	1.14	0.29	5.86
Residential Heat Pumps	3.02	1.37	0.34	4.75
Smart Thermostats	1.99	1.74	0.32	7.91
Total Residential	2.97	1.48	0.38	4.89
Commercial				
Drive Power	18.62	2.23	0.53	3.84
Custom Efficiency Grants	2.58	1.20	0.58	1.83
Commercial Direct Install	1.10	1.92	0.06	inf.
Commercial Heat Pumps	2.86	1.21	0.44	2.48
Commercial Lighting	8.90	2.81	0.52	5.11
Total Commercial	7.66	2.06	0.50	3.83
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	5.59	1.89	0.47	4.04

**2025 Proposed South Dakota EEP Projects
Otter Tail Power Company**

	Total Budget	Participation	Proposed Energy Savings (kWh)	Proposed Demand Savings (kW)
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	\$8,250	725	30,141	502.4
Home Lighting	\$25,750	5,411	86,818	7.7
Residential Heat Pumps	\$153,000	137	918,760	93.1
Smart Thermostats	\$8,000	40	49,782	1.5
Total Residential	\$195,000	6,313	1,085,501	604.8
Commercial				
Drive Power	\$80,000	165	3,428,036	433.5
Custom Efficiency Grants	\$59,000	4	286,910	35.3
Commercial Direct Install	\$13,000	643	48,638	7.2
Commercial Heat Pumps	\$132,000	97	761,629	71.8
Commercial Lighting	\$115,000	70	2,355,018	312.4
Total Commercial	\$399,000	979	6,880,231	860.3
TOTAL DIRECT IMPACT PROJECTS	\$594,000	7,292	7,965,732	1,465.0
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	\$635,000	7,817	7,965,732	1,465.0
DEVELOPMENT				
Development	\$15,000	0	0	0.0
TOTAL DEVELOPMENT	\$15,000	0	0	0.0
TOTAL ALL PROJECTS	\$650,000	7,817	7,965,732	1,465.0

2025 Proposed South Dakota EEP Projects
Otter Tail Power Company
Benefit/Cost Ratios

Appendix A, Table 4

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	7.75	9.33	5.47	inf.
Home Lighting	1.51	1.13	0.29	5.86
Residential Heat Pumps	3.00	1.37	0.34	4.75
Smart Thermostats	1.98	1.73	0.32	7.91
Total Residential	2.96	1.48	0.38	4.89
Commercial				
Drive Power	18.48	2.22	0.52	3.84
Custom Efficiency Grants	2.56	1.20	0.58	1.83
Commercial Direct Install	1.09	1.90	0.06	inf.
Commercial Heat Pumps	2.85	1.20	0.44	2.48
Commercial Lighting	8.84	2.80	0.52	5.11
Total Commercial	7.61	2.05	0.49	3.83
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	5.56	1.88	0.47	4.04

**2026 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	\$8,250	750	31,181	519.7
Home Lighting	\$25,750	5,411	86,818	7.7
Residential Heat Pumps	\$153,000	137	918,760	93.1
Smart Thermostats	\$8,000	40	49,782	1.5
Total Residential	\$195,000	6,338	1,086,541	622.1
Commercial				
Drive Power	\$80,000	165	3,428,036	433.5
Custom Efficiency Grants	\$59,000	4	286,910	35.3
Commercial Direct Install	\$13,000	643	48,638	7.2
Commercial Heat Pumps	\$132,000	97	761,629	71.8
Commercial Lighting	\$115,000	70	2,355,018	312.4
Total Commercial	\$399,000	979	6,880,231	860.3
TOTAL DIRECT IMPACT PROJECTS	\$594,000	7,317	7,966,772	1,482.4
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	\$635,000	7,842	7,966,772	1,482.4
DEVELOPMENT				
Development	\$15,000	0	0	0.0
TOTAL DEVELOPMENT	\$15,000	0	0	0.0
TOTAL ALL PROJECTS	\$650,000	7,842	7,966,772	1,482.4

2026 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	8.09	9.75	5.66	inf.
Home Lighting	1.51	1.14	0.29	5.86
Residential Heat Pumps	3.01	1.37	0.34	4.75
Smart Thermostats	2.00	1.75	0.32	7.91
Total Residential	2.99	1.49	0.38	4.89
Commercial				
Drive Power	18.56	2.23	0.53	3.84
Custom Efficiency Grants	2.57	1.20	0.58	1.83
Commercial Direct Install	1.09	1.91	0.06	inf.
Commercial Heat Pumps	2.86	1.21	0.44	2.48
Commercial Lighting	8.87	2.81	0.52	5.11
Total Commercial	7.64	2.06	0.50	3.83
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	5.59	1.89	0.47	4.04

2024-2026 SOUTH DAKOTA ENERGY EFFICIENCY PLAN

Appendix A, Table 7

Otter Tail Power Company

2024-2026 Benefit/Cost Ratios

	Utility Test	Total Resource Test	Ratepayer Impact Test	Participant Test
DIRECT IMPACT PROJECTS				
Residential				
Air Conditioning Control	7.76	9.34	5.48	inf.
Home Lighting	1.51	1.14	0.29	5.86
Residential Heat Pumps	3.01	1.37	0.34	4.75
Smart Thermostats	1.99	1.74	0.32	7.91
Total Residential	2.97	1.48	0.38	4.89
Commercial				
Drive Power	18.55	2.23	0.53	3.84
Custom Efficiency Grants	2.57	1.20	0.58	1.83
Commercial Direct Install	1.09	1.91	0.06	inf.
Commercial Heat Pumps	2.86	1.21	0.44	2.48
Commercial Lighting	8.87	2.81	0.52	5.11
Total Commercial	7.64	2.06	0.49	3.83
INDIRECT IMPACT PROJECTS				
Advertising and Education				
TOTAL INDIRECT IMPACT PROJECTS				
TOTAL ALL PROJECTS				
	5.58	1.89	0.47	4.04