

Appendix A

Tables

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024
Otter Tail Power Company
Status Report

APPENDIX A, TABLE 1

	Costs			Participation			Energy Savings			Demand Savings		
	Proposed Budget*	Actual Expenses	% of Budget	Proposed Participants*	Actual Participants	% of Goal	Proposed Energy Savings (kWh)*	Actual Energy Savings (kWh)	% of Goal	Proposed Summer Coincident kW Savings*	Actual Summer Coincident kW Savings	% of Goal
Residential												
Air Conditioning Control	\$8,250	\$4,325	52%	700	665	95%	29,102	27,651	95%	485.1	460.8	95%
Residential Heat Pumps	\$153,000	\$113,632	74%	137	82	60%	918,760	893,229	97%	93.1	91.8	99%
Home Lighting	\$25,750	\$29,460	114%	5,411	5,378	99%	86,818	159,823	184%	7.7	14.0	182%
Smart Thermostats	\$8,000	\$1,938	24%	40	15	38%	49,782	9,877	20%	1.5	1.0	67%
Total - Residential	\$195,000	\$149,355	77%	6,288	6,140	98%	1,084,462	1,090,579	101%	587.4	567.7	97%
Commercial												
Drive Power	\$80,000	\$264,578	331%	165	600	364%	3,428,036	12,669,889	370%	433.5	1,664.6	384%
Custom Efficiency Grants	\$59,000	\$8,476	14%	4	1	25%	286,910	13,817	5%	35.3	22.5	64%
Commercial Direct Install	\$13,000	\$10,682	82%	643	466	72%	48,638	30,655	63%	7.2	4.8	67%
Commercial Heat Pumps	\$132,000	\$107,255	81%	97	37	38%	761,629	550,188	72%	71.8	55.1	77%
Commercial Lighting	\$115,000	\$67,024	58%	70	101	144%	2,355,018	1,467,763	62%	312.4	242.5	78%
Total - Commercial	\$399,000	\$458,016	115%	979	1,205	123%	6,880,231	14,732,312	214%	860.3	1,989.5	231%
Total - Direct Impact	\$594,000	\$607,371	102%	7,267	7,345	101%	7,964,693	15,822,891	199%	1,447.7	2,557.1	177%
Indirect Impact												
Advertising & Education	\$41,000	\$32,241	79%	525	60	11%						
Total - Indirect Impact	\$41,000	\$32,241	79%	525	60	11%						
Total - Without Development Costs	\$635,000	\$639,611	101%	7,792	7,405	95%	7,964,693	15,822,891	199%	1,447.7	2,557.1	177%
Development												
EEP Development	\$15,000	\$14,650	98%									
Total - Development	\$15,000	\$14,650	98%									
Total - All Programs (Including Development)*	\$650,000	\$654,261	101%	7,792	7,405	95%	7,964,693	15,822,891	199%	1,447.7	2,557.1	177%
Prior Year Tracker Ending Balance		\$43,995										
Carrying Costs		\$1,479										
Accounting Adjustment												
Prior Year Approved Incentive		\$157,500										
Total Recoverable with Carrying Costs & Incentive		\$857,235										
Recovered through rates - 12/31/24		(\$737,253)										
Balance - EEP Tracker - 12/31/24		\$119,982										

** Reflects the total 2024 Budget approved in Docket No. 23-019 in the Novemeber 09, 2023, Order.

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024
Otter Tail Power Company
Net Benefits

APPENDIX A, TABLE 2
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	Approved Savings, Costs, and Benefits				Actual Savings, Costs, and Benefits			
	Energy Savings (kWh)	Proposed Budget	Total Benefits	Utility Net Benefits	Energy Savings (kWh)	Actual Expenses	Total Benefits	Utility Net Benefits
Residential								
Air Conditioning Control	29,102	\$8,250	\$61,283	\$53,033	27,651	\$4,325	\$58,219	\$53,895
Residential Heat Pumps	918,760	\$153,000	\$39,113	(\$113,887)	893,229	\$113,632	\$437,521	\$323,888
Home Lighting	86,818	\$25,750	\$462,230	\$436,480	159,823	\$29,460	\$76,142	\$46,683
Smart Thermostats	49,782	\$8,000	\$15,937	\$7,937	9,877	\$1,938	\$3,079	\$1,140
Total - Residential	1,084,462	\$195,000	\$578,564	\$383,564	1,090,579	\$149,355	\$574,961	\$425,606
Commercial								
Drive Power	3,428,036	\$80,000	\$1,489,868	\$1,409,868	12,669,889	\$264,578	\$5,583,677	\$5,319,099
Custom Efficiency Grants	286,910	\$59,000	\$152,175	\$93,175	13,817	\$8,476	\$31,805	\$23,329
Commercial Direct Install	48,638	\$13,000	\$14,322	\$1,322	30,655	\$10,682	\$7,937	(\$2,745)
Commercial Heat Pumps	761,629	\$132,000	\$377,673	\$245,673	550,188	\$107,255	\$233,558	\$126,303
Commercial Lighting	2,355,018	\$115,000	\$1,023,968	\$908,968	1,467,763	\$67,024	\$692,436	\$625,412
Total - Commercial	6,880,231	\$399,000	\$3,058,006	\$2,659,006	14,732,312	\$458,016	\$6,549,413	\$6,091,398
Total - Direct Impact	7,964,693	\$594,000	\$3,636,570	\$3,042,570	15,822,891	\$607,371	\$7,124,374	\$6,517,004
Indirect Impact								
Advertising & Education		\$41,000	\$0	(\$41,000)		\$32,241	\$0	(\$32,241)
EEP Development - 2024		\$15,000	\$0	(\$15,000)		\$14,650	\$0	(\$14,650)
Total - Indirect Impact		\$56,000	\$0	(\$56,000)		\$46,890	\$0	(\$46,890)
Total - All Programs (Including Development)	7,964,693	\$650,000	\$3,636,570	\$2,986,570	15,822,891	\$654,261	\$7,124,374	\$6,470,113

Benefit/Cost Results
2024 SD EEP

APPENDIX A, TABLE 2
Page 2 of 2

Data discounted to 2023	AS FILED Utility Test	ACTUAL 2024 Utility Test
NPV Method: Midyear		
Discount Rates:	7.09%	7.09%
Benefit/Cost Ratio	5.59	10.89
Total Costs	\$650,000	\$654,261
Total Benefits	\$3,636,570	\$7,124,374
Net Benefits	\$2,986,570	\$6,470,113
Total Benefits:		
Utility Elec. Production Cost Credit	\$2,322,494	\$4,467,218
Utility Ancillary	\$0	\$0
Utility Generation Capacity Credit	\$1,046,726	\$2,192,021
Utility Transmission & Distribution Credit	\$267,349	\$488,936
Total Benefits	\$3,636,570	\$7,148,174
Total Costs:		
Utility Rebates Paid	\$473,500	\$527,220
Utility Fixed Admin Cost	\$176,500	\$127,041
Total Costs	\$650,000	\$654,261

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024
Otter Tail Power Company
Benefit/Cost Ratios

[illegible]

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024**APPENDIX A, TABLE 4****Otter Tail Power Company
Lifetime Savings**

	Energy Savings			Demand Savings		
	Proposed Energy Lifetime Savings (kWh)	Actual Energy Lifetime Savings (kWh)	% of Goal	Proposed Summer Coincident kW Savings	Actual Summer Coincident kW Savings	% of Goal
Residential						
Air Conditioning Control	29,102	27,651	95%	485.1	460.8	95%
Residential Heat Pumps	16,757,861	16,070,745	96%	93.1	91.8	99%
Home Lighting	1,489,322	2,954,018	198%	7.7	14.0	182%
Smart Thermostats	497,823	98,768	20%	1.5	1.0	67%
Total - Residential	18,774,109	19,151,182	102%	587.4	567.7	97%
Commercial						
Drive Power	51,420,536	190,048,331	370%	433.5	1,664.6	384%
Custom Efficiency Grants	5,738,200	207,254	4%	35.3	22.5	64%
Commercial Direct Install	420,707	216,505	51%	7.2	4.8	67%
Commercial Heat Pumps	13,068,952	8,252,827	63%	71.8	55.1	77%
Commercial Lighting	34,547,519	21,497,168	62%	312.4	242.5	78%
Total - Commercial	105,195,913	220,222,085	209%	860.3	1,989.5	231%
Total - Direct Impact	123,970,022	239,373,267	193%	1,447.7	2,557.1	177%
Indirect Impact						
Advertising & Education						
Total - Indirect Impact						
Total - Without Development Costs	123,970,022	239,373,267	193%	1,447.7	2,557.1	177%
Development						
EEP Development						
Total - Development						
Total - All Programs (Including Development)	123,970,022	239,373,267	193%	1,447.7	2,557.11	177%

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024
Otter Tail Power Company
Incentive Calculation

APPENDIX A, TABLE 5

Calculated Incentive Based on Pre-Year Inputs

1	Original EEP Expense Budget	\$650,000
2	Original EEP Expense Budget multiplied by 30%	\$195,000

Calculated Incentive Based on Post-Year Inputs

3	Actual EEP Expenses	\$654,261
4	Actual EEP Expenses multiplied by 30%	\$196,278

5	Financial Incentive: lesser of lines 2 and 4.	\$195,000
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SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024
Otter Tail Power Company
EEP Tracker Account / Cost Recovery

APPENDIX A, TABLE 6

EEP AUTOMATIC RECOVERY MECHANISM																
FILING DATE																
May 1																
2008/09																
	Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Actual	2022 Actual	2023 Actual	2024 Actual
1	Estimated EEP Tracker Account Balance - end of prior year	\$27,487	(\$43,107)	(\$31,900)	\$45,767	\$134,194	\$110,115	\$111,762	\$77,456	(\$15,484)	\$24,284	(\$215)	\$70,604	\$204,311	\$413,363	\$234,062
2	Accounting Adjustments	\$0	(\$45)	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51	\$43,994
3	True up from Previous Year (sum of lines 1 and 2)	\$27,487	(\$43,152)	(\$31,855)	\$45,767	\$134,194	\$110,115	\$111,762	\$77,456	(\$15,484)	\$24,284	(\$215)	\$70,604	\$204,311	\$413,413	\$233,931
4																\$0
5	EEP Program expenditures	\$252,677	\$243,816	\$272,093	\$309,911	\$281,549	\$351,483	\$371,902	\$362,330	\$463,357	\$493,353	\$715,984	\$760,590	\$927,005	\$525,883	\$547,680
6	Previous Year EEP Financial Incentives	\$0	\$47,130	\$73,145	\$78,900	\$84,000	\$84,000	\$105,445	\$105,900	\$105,900	\$134,700	\$134,700	\$209,700	\$209,700	\$278,101	\$157,500
7	EEP Carrying Charge	(\$726)	(\$6,503)	(\$4,286)	\$6,412	\$7,950	\$7,195	\$11,110	\$3,485	\$6,166	\$4,285	(\$2,275)	\$11,042	\$27,787	\$23,642	\$12,894
8	EEP Cost Recovery through EE Adjustment Factor	(\$322,545)	(\$273,190)	(\$263,330)	(\$306,796)	(\$397,578)	(\$441,030)	(\$522,763)	(\$564,655)	(\$535,655)	(\$656,837)	(\$777,590)	(\$847,625)	(\$955,440)	(\$1,006,977)	(\$737,253)
9	Recoverable Tracker Balance (Line 3 Plus Lines 5 thru 8)	(\$43,107)	(\$31,900)	\$45,767	\$134,194	\$110,115	\$111,762	\$77,456	(\$15,484)	\$24,284	(\$215)	\$70,604	\$204,311	\$413,363	\$234,062	\$43,994
10																\$119,981
11	SD Sales (KWH budget)															
12	Conservation Surcharge (1)	\$0.00063	\$0.00063	\$0.00063	\$0.00088	\$0.00103	\$0.00103	\$0.00152	\$0.00114	\$0.00138	\$0.00155	\$0.00164	\$0.00195	\$0.00195	\$0.00195	\$0.00134
13	Estimated EEP Tracker Account Balances															

(1) Effective for 12-month period July 1 through June 30

		2025 Budget Financial Incentive
1	Estimated EEP Tracker Account Balance - end of prior year	\$119,981
2	Accounting Adjustments	\$0
3	True up from Previous Year (sum of lines 1 and 2)	\$119,981
4		
5	EEP Program expenditures	\$650,000
6	Previous Year EEP Financial Incentives	\$195,000
7	Projected EEP Carrying Charge	\$6,228
8	EEP Cost Recovery through EE Adjustment Factor	(\$864,180)
9	Recoverable Tracker Balance (Line 3 Plus Lines 5 thru 8)	\$107,029
10		
11	SD Sales (KWH budget)	542,611,977
12	Conservation Surcharge (1)	\$0.00187
13	Estimated EEP Tracker Account Balances	

(1) Effective for 12-month period July 1 through June 30

Otter Tail Power Company
EEP TRACKER AND CALCULATION OF PROPOSED EEP

APPENDIX A, TABLE 7

	January 2025	February 2025	March* 2025	April 2025	May 2025	June 2025	Total
1 Beginning of Period Balance	\$119,982	\$69,683	\$37,397	\$1,138	\$29,876	\$5,363	
2 Monthly Carrying Charge rate	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	
3 Monthly Carrying Charge	\$709	\$412	\$221	\$7	\$177	\$32	\$1,556
4 EEP Program Charges	\$17,424	\$41,737	\$31,058	\$87,929	\$31,835	\$13,304	\$223,285
5 EEP Incentive	\$0	\$0	\$0	\$0	\$0	\$195,000	\$195,000
7 Less: Energy Efficiency Adjustment (EEP Revenue)	(\$68,431)	(\$74,435)	(\$67,537)	(\$59,198)	(\$56,525)	(\$54,348)	(\$380,473)
8 End of Period Balance	\$69,683	\$37,397	\$1,138	\$29,876	\$5,363	\$159,350	

9 **CURRENT EEP FACTOR (\$/kWh)** **\$0.00134**

10 Projected sales (kWh) 44,177,313 42,182,636 40,558,407

1. EEP TRACKER PROPOSED \$/kWh Method

	July 2025	August 2025	September 2025	October 2025	November 2025	December 2025	January 2026	February 2026	March 2026	April 2026	May 2026	June 2026	Total
1 Beginning of Period Balance	\$159,350	\$111,691	\$107,153	\$71,199	\$171,872	\$168,602	\$106,701	\$23,903	(\$30,490)	(\$89,094)	(\$84,441)	(\$131,756)	
2 Monthly Carrying Charge Rate	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	
3 Monthly Carrying Charge	\$941	\$660	\$633	\$421	\$1,015	\$996	\$630	\$141	(\$180)	(\$526)	(\$499)	(\$778)	\$3,455
4 EEP Program Charges	\$32,309	\$77,350	\$42,768	\$174,739	\$76,407	\$23,141	\$17,424	\$41,737	\$31,058	\$87,929	\$31,835	\$13,304	\$650,000
5 EEP Incentive	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$195,000	\$195,000
7 Less: Energy Efficiency Adjustment (EEP Revenue)	(\$80,909)	(\$82,549)	(\$79,355)	(\$74,487)	(\$80,692)	(\$86,039)	(\$100,852)	(\$96,270)	(\$89,481)	(\$82,749)	(\$78,651)	(\$75,770)	(\$1,007,805)
8 End of Period Balance	\$111,691	\$107,153	\$71,199	\$171,872	\$168,602	\$106,701	\$23,903	(\$30,490)	(\$89,094)	(\$84,441)	(\$131,756)	\$0	
9 PROPOSED EEP FACTOR (\$ / kWh)	\$0.00187												
12 Projected sales (kWh)	45,560,985	42,269,286	39,981,656	37,042,768	38,417,427	43,936,735	51,068,066	55,557,201	50,401,489	44,177,313	42,182,636	40,558,407	

*Actual data was used through March 2025