Appendix A Tables

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

APPENDIX A, TABLE 1

		Costs			Participation		T.	Energy Savings	2	т	Demand Saving	re .
		COSES			1 at ticipation		Proposed Energy	Actual Energy	,	Proposed Summer	Actual Summer	<u>, , , , , , , , , , , , , , , , , , , </u>
	Proposed Budget*	Actual Expenses	% of Budget	Proposed Participants*	Actual Participants	% of Goal	Savings (kWh)*	Savings (kWh)	% of Goal	Coincident kW Savings*	Coincident	% of Goal
Residential	Duaget	Actual Expenses	70 OI Buuget	1 articipants	1 articipants	70 OI G0ai	(KVII)	(KWII)	70 OI G0a1	KW Savings	KW Savings	70 01 G0a1
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		Ţ-,·/>										
Prior Year Approved Incentive		\$157,500										
Total Recoverable with Carrying Costs & Incent	ive	\$857,235	1									
Recovered through rates - 12/31/24		(\$737,253)										
Balance - EEP Tracker - 12/31/24		\$119,982										
** P. (1			l									

^{**} Reflects the total 2024 Budget approved in Docket No. 23-019 in the November 09, 2023, Order.

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

APPENDIX A, TABLE 2Page 1 of 2

	App	roved Savings, C	Costs, and Ben	efits	Act	ual Savings, Co	osts, and Bene	efits
	Energy Savings (kWh)	Proposed Budget	Total Benefits	Utility Net Benefits	Energy Savings (kWh)	Actual Expenses	Total Benefits	Utility Net Benefits
Residential	, ,	8			, ,			
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

	AS FILED	ACTUAL 2024
Data discounted to 2023	Utility Test	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

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APPENDIX A, TABLE 2Page 2 of 2

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

APPENDIX A, TABLE 3

					Actual Benefit / Cost Test Results						
Utility Test	Total Resource Test	Ratepayer Impact Test	Societal Test	Participant Test	Utility Test	Total Resource Test	Ratepayer Impact Test	Societal Test	Participant Test		
Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio		
7.43	8.95	5.30	8.95	inf.	13.46	13.46	7.79	13.46	inf.		
3.02	1.37	0.34	1.60	4.75	3.85	1.55	0.35	2.05	5.92		
1.52	1.14	0.29	1.32	5.86	2.58	1.74	0.32	2.33	8.62		
1.99	1.74	0.32	1.88	7.91	1.59	1.10	0.30	1.28	4.91		
2.97	1.48	0.38	1.69	4.89	3.85	1.72	0.38	2.23	6.22		
18.62	2.23	0.53	2.52	3.84	21.10	2.25	0.54	2.83	4.19		
2.58	1.20	0.58	1.42	1.83	3.75	3.07	0.72	3.84	5.09		
1.10	1.92	0.06	2.08	inf.	0.74	1.06	0.31	1.22	inf.		
2.86	1.21	0.44	1.40	2.48	2.18	1.11	0.40	1.40	3.00		
8.90	2.81	0.52	3.17	5.11	10.33	2.27	0.52	2.85	4.57		
7.66	2.06	0.50	2.34	3.83	14.30	2.1 7	0.53	2.73	4.16		
5.59	1.89	0.47	2.14	4.04	10.89	2.10	0.51	2.64	4.36		
	7.43 3.02 1.52 1.99 2.97 18.62 2.58 1.10 2.86 8.90 7.66	Utility Test Test Ratio Ratio 7.43 8.95 3.02 1.37 1.52 1.14 1.99 1.74 2.97 1.48 18.62 2.23 2.58 1.20 1.10 1.92 2.86 1.21 8.90 2.81 7.66 2.06	Utility Test Test Impact Test Ratio Ratio Ratio 7.43 8.95 5.30 3.02 1.37 0.34 1.52 1.14 0.29 1.99 1.74 0.32 2.97 1.48 0.38 18.62 2.23 0.53 2.58 1.20 0.58 1.10 1.92 0.06 2.86 1.21 0.44 8.90 2.81 0.52 7.66 2.06 0.50	Utility Test Test Impact Test Societal Test Ratio Ratio Ratio 7.43 8.95 5.30 8.95 3.02 1.37 0.34 1.60 1.52 1.14 0.29 1.32 1.99 1.74 0.32 1.88 2.97 1.48 0.38 1.69 18.62 2.23 0.53 2.52 2.58 1.20 0.58 1.42 1.10 1.92 0.06 2.08 2.86 1.21 0.44 1.40 8.90 2.81 0.52 3.17 7.66 2.06 0.50 2.34	Utility Test Test Impact Test Societal Test Test Ratio Ratio Ratio Ratio 7.43 8.95 5.30 8.95 inf. 3.02 1.37 0.34 1.60 4.75 1.52 1.14 0.29 1.32 5.86 1.99 1.74 0.32 1.88 7.91 2.97 1.48 0.38 1.69 4.89 18.62 2.23 0.53 2.52 3.84 2.58 1.20 0.58 1.42 1.83 1.10 1.92 0.06 2.08 inf. 2.86 1.21 0.44 1.40 2.48 8.90 2.81 0.52 3.17 5.11 7.66 2.06 0.50 2.34 3.83	Utility Test Test Impact Test Societal Test Test Utility Test Ratio Ratio Ratio Ratio Ratio 7.43 8.95 5.30 8.95 inf. 13.46 3.02 1.37 0.34 1.60 4.75 3.85 1.52 1.14 0.29 1.32 5.86 2.58 1.99 1.74 0.32 1.88 7.91 1.59 2.97 1.48 0.38 1.69 4.89 3.85 18.62 2.23 0.53 2.52 3.84 21.10 2.58 1.20 0.58 1.42 1.83 3.75 1.10 1.92 0.06 2.08 inf. 0.74 2.86 1.21 0.44 1.40 2.48 2.18 8.90 2.81 0.52 3.17 5.11 10.33 7.66 2.06 0.50 2.34 3.83 14.30	Utility Test Test Impact Test Societal Test Test Utility Test Test Ratio Ratio Ratio Ratio Ratio Ratio Ratio 7.43 8.95 5.30 8.95 inf. 13.46 13.46 3.02 1.37 0.34 1.60 4.75 3.85 1.55 1.52 1.14 0.29 1.32 5.86 2.58 1.74 1.99 1.74 0.32 1.88 7.91 1.59 1.10 2.97 1.48 0.38 1.69 4.89 3.85 1.72 18.62 2.23 0.53 2.52 3.84 21.10 2.25 2.58 1.20 0.58 1.42 1.83 3.75 3.07 1.10 1.92 0.06 2.08 inf. 0.74 1.06 2.86 1.21 0.44 1.40 2.48 2.18 1.11 8.90 2.81 0.52 3.17	Utility Test Test Impact Test Societal Test Test Utility Test Test Impact Test Ratio Ratio Ratio Ratio Ratio Ratio Ratio 7.43 8.95 5.30 8.95 inf. 13.46 13.46 7.79 3.02 1.37 0.34 1.60 4.75 3.85 1.55 0.35 1.52 1.14 0.29 1.32 5.86 2.58 1.74 0.32 1.99 1.74 0.32 1.88 7.91 1.59 1.10 0.30 2.97 1.48 0.38 1.69 4.89 3.85 1.72 0.38 18.62 2.23 0.53 2.52 3.84 21.10 2.25 0.54 2.58 1.20 0.58 1.42 1.83 3.75 3.07 0.72 1.10 1.92 0.06 2.08 inf. 0.74 1.06 0.31 2.89 2.81 0	Utility Test Test Impact Test Societal Test Test Utility Test Test Impact Test Test Ratio 13.46 13.46 13.46 7.79 13.46 2.05 2.05 13.20 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.28 2.28 2.17 2.25 0.54 2.83 2.25 3.84 21.10		

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2024 Otter Tail Power Company Lifetime Savings

APPENDIX A, TABLE 4

		Energy Savings]	Demand Savings	5
	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%

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

APPENDIX A, TABLE 5

Calculated Incentive Based on Pre-Year Inputs

5 **Financial Incentive:** lesser of lines 2 and 4.

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			

\$195,000

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			2015 Actual	2016 Actual	2017 Actual			2020 Actual	2021 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	\$43,994
2	Accounting Adjustments	\$0	(\$45)	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51	(\$131)	\$0
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	\$43,994
4																	
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	\$654,261
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	\$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	\$1,479
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)	(\$908,011)	(\$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	\$119,981
10	_																
11	SD Sales (KWH budget)																
	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	\$0.00160	\$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
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 5 EEP Incentive 7 Less: Energy Efficiency Adjustment (EEP Revenue	\$32,309 \$0 (\$80,909)	\$77,350 \$0 (\$82,549)	\$42,768 \$0 (\$79,355)	\$174,739 \$0 (\$74,487)	\$76,407 \$0 (\$80,692)	\$23,141 \$0 (\$86,039)	\$17,424 \$0 (\$100,852)	\$41,737 \$0 (\$96,270)	\$31,058 \$0 (\$89,481)	\$87,929 \$0 (\$82,749)	\$31,835 \$0 (\$78,651)	\$13,304 \$195,000 (\$75,770)	\$650,000 \$195,000 (\$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