		COSTS	PARTICIPATION			
DIRECT IMPACT PROJECTS	PROPOSED BUDGET	ACTUAL EXPENSES	% OF BUDGET	PROPOSED PART.	ACTUAL	% of GOAL
RESIDENTIAL						
Air Conditioning Control *	\$10,000	\$9,760	98%	30	9	30%
Air Source Heat Pumps -Residential	\$14,000	\$14,673	105%	20	16	80%
Geothermal Heat Pumps -Residential	\$21,000	\$15,687	75%	10	6	60%
Total -Residential	\$45,000	\$40,120	89%	60	31	52%
COMMERCIAL						
Air Source Heat Pumps -Commercial	\$25,000	\$6,784	27%	22	7	32%
Custom Efficiency Projects	\$73,000	\$75,709	104%	5	6	120%
Geothermal Heat Pumps -Commercial	\$50,000	\$17,906	36%	22	7	32%
Lighting	\$37,000	\$76,983	208%	15	33	220%
Motors	\$17,000	\$5,435	32%	16	0	0%
Total -Commercial	\$202,000	\$182,818	91%	80	53	66%
Total -Direct Impact	\$247,000	\$222,938	90%	140	84	60%
INDIRECT IMPACT PROJECTS						
Advertising & Education	\$8,000	\$7,838	98%	900	2,739	304%
Total - Indirect Impact	\$8,000	\$7,838	98%	900	2,739	304%
Total - Without Development Costs	\$255,000	\$230,776	91%	1040	2,823	271%
DEVELOPMENT						
EEP DEVELOPMENT - 2013	\$25,000	\$50,773	203%	0		
Total Development	\$25,000	\$50,773	203%	0		
TOTAL - ALL PROGRAMS (INC. DEVL)	\$280,000	\$281,549	101%	1,040	2,823	271%
Prior Year Tracker Ending Balance		\$134,194				
Carrying Costs	-	\$7,950				
Accounting Adjustments	-	\$0				
Prior Year Approved Incentive	+	\$84,000				
Total Recoverable with Carrying Costs & Incentive		\$507,693				
Recoverd through rates 12/31/13		(\$397,578)				
		Ì				
Balance - EEP Tracker 12/31/13		\$110,115				

^{*} Air conditioning programs include summer load reductions, which are not coincident to the system winter-peak

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SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 20 Otter Tail Power Company Status Report

	ENERGY SAVINGS			DEMAND SAVINGS			
DIRECT IMPACT PROJECTS	PROPOSED ENERGY SAVINGS (KWH)	ACTUAL ENERGY SAVINGS (KWH)	% OF GOAL	PROPOSED COINC. PEAK DEMAND SAVINGS (KW)	ACTUAL COINC. PEAK DEMAND SAVINGS (KW)	% OF GOAL	
RESIDENTIAL							
Air Conditioning Control *	1,464	439	30%	31.22	9.37	30%	
Air Source Heat Pumps -Residential	168,130	156,361	93%	17.11	11.50	67%	
Geothermal Heat Pumps -Residential	120,398	104,549	87%	86.00	80.29	93%	
Total -Residential	289,992	261,349	90%	134.33	101.16	75%	
COMMERCIAL							
Air Source Heat Pumps -Commercial	314,403	72,296	23%	37.30	5.32	14%	
Custom Efficiency Projects	806,250	183,117	23%	161.25	125.10	78%	
Geothermal Heat Pumps -Commercial	308,633	126,040	41%	206.56	90.68	44%	
Lighting	522,671	968,723	185%	126.47	130.11	103%	
Motors	32,311	0	0%	5.36	0.00	0%	
Total -Commercial	1,984,268	1,350,175	68%	536.94	351.21	65%	
Total -Direct Impact	2,274,260	1,611,524	71%	671.27	452.37	67%	
INDIRECT IMPACT PROJECTS							
Advertising & Education							
Total - Indirect Impact							
Total - Without Development Costs	2,274,260	1,611,524	71%	671.27	452.37	67%	
DEVELOPMENT							
EEP DEVELOPMENT - 2013							
Total Development							
TOTAL - ALL PROGRAMS (INC. DEVL)	2,274,260	1,611,524	71%	671.27	452.37	67%	
Prior Year Tracker Ending Balance							
Carrying Costs							
Accounting Adjustments							
Prior Year Approved Incentive							
Total Recoverable with Carrying Costs & Incentive							
Recoverd through rates 12/31/13							
Balance - EEP Tracker 12/31/13							

^{*} Air conditioning programs include summer load reductions, which are

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SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2013 OTTER TAIL POWER COMPANY

Net Benefits

Approved Savings, Costs and Benefits Actual Savings, Costs and Benefits ENERGY ENERGY BUDGETED TOTAL **UTILITY NET SAVINGS** ACTUAL TOTAL **UTILITY NET SAVINGS** (KWH) COSTS **BENEFITS BENEFITS** (KWH) COSTS **BENEFITS BENEFITS** DIRECT IMPACT PROJECTS RESIDENTIAL Air Conditioning Control * 1,464 \$10,000 \$66,140 \$56,140 439 \$9,760 \$19,842 \$10,082 Air Source Heat Pumps - Residential 168,130 \$14,000 \$124,847 \$110,847 156,361 \$14,673 \$109,210 \$94,536 Geothermal Heat Pumps - Residential 120,398 \$21,000 \$247,205 \$226,205 104,549 \$15,687 \$225,598 \$209,911 Total - Residential 289,992 \$45,000 \$438,192 \$393,192 261,349 \$40,120 \$354,649 \$314,529 COMMERCIAL Air Source Heat Pumps - Commercial 314,403 \$25,000 \$243,056 \$218,056 72,296 \$6,784 \$53,553 \$46,769 Custom Efficiency Project 806,250 \$73,000 \$988.246 \$915.246 183.117 \$75.709 \$435,369 \$359,660 Geothermal Heat Pumps - Commercial \$50,000 \$619,904 \$569,904 \$17,906 \$230,556 \$212,651 308,633 126,040 Lighting 522,671 \$37,000 \$516,836 \$479,836 968,723 \$76,983 \$1,090,478 \$1,013,495 Motors 32,311 \$17,000 \$36,975 \$19,975 0 \$5,435 \$0 (\$5,435)Total - Commercial \$1,627,139 1,984,268 \$202,000 \$2,405,017 \$2,203,017 1,350,175 \$182,818 \$1,809,957 Total - Direct Impact 2,274,260 \$247,000 \$2,843,209 \$2,596,209 \$222,938 \$1,941,668 1,611,524 \$2,164,606 INDIRECT IMPACT PROJECTS Advertising & Education \$8,000 \$0 (\$8,000)(\$7,838)0 0 \$7,838 \$0 Development (all years) 0 \$25,000 \$0 (\$25,000)0 \$50,773 \$0 (\$50,773)Total - Indirect Impact 0 \$33,000 \$0 (\$33,000)0 \$58,611 \$0 (\$58,611) **TOTAL - ALL PROGRAMS** 2,274,260 \$280,000 \$2,843,209 \$2,563,209 1,611,524 \$281,549 \$2,164,606 \$1,883,058

^{*} Air conditioning programs include summer load reductions, which are not coincident to the system winter-peak

Benefit/Cost Results 2013 SD EEP

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	AS FILED	ACTUAL 2013			
Data discounted to 2013	Utility Test	Utility Test			
NPV Method: Midyear					
Discount Rates:	8%	8%			
Benefit/Cost Ratio	10.15	7.69			
Total Costs	\$280,000	\$281,549			
Total Benefits	\$2,843,209	\$2,164,606			
Net Benefits	\$2,563,209	\$1,883,058			
Total Benefits:					
Utility Elec. Production Cost Decr	\$1,514,367	\$1,237,192			
Utility Generation Cap. Credit	\$627,613	\$398,308			
Utility Transmission & Distrib. Credit	\$701,229	\$529,106			
Total Benefits	\$2,843,209	\$2,164,606			
Total Costs:					
Utility Rebates Paid	\$142,470	\$141,200			
Utility Fixed Admin Cost	\$137,530	\$140,349			
Total Costs	\$280,000	\$281,549			

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2013 OTTER TAIL POWER COMPANY

Benefit Cost Ratios

	APPROVED BENEFIT / COST TEST RESULTS				ACTUAL BENEFIT / COST TEST RESULTS					
	UTILITY	TOTAL RESOURCE	RATEPAYER IMPACT	SOCIETAL	PART.	UTILITY	TOTAL RESOURCE	RATEPAYER IMPACT	SOCIETAL	PART.
DIRECT IMPACT PROJECTS	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
RESIDENTIAL										
Air Conditioning Control *	6.61	8.29	5.91	8.29	inf.	2.03	2.55	1.96	2.55	inf.
Air Source Heat Pumps - Residential	8.92	4.15	0.96	4.30	4.30	7.44	4.18	0.89	4.35	5.00
Geothermal Heat Pumps - Residential	11.77	2.84	2.08	2.89	1.14	14.38	3.77	2.24	3.83	1.42
Total - Residential	8.27	3.33	1.63	3.39	1.88	8.84	3.78	1.52	3.86	2.34
COMMERCIAL										
Air Source Heat Pumps - Commercial	9.72	5.17	1.08	5.34	4.83	7.89	3.55	0.99	3.68	3.60
Custom Efficiency Projects	13.54	4.18	1.74	4.26	2.08	5.75	2.30	2.89	2.32	0.56
Geothermal Heat Pumps - Commercial	12.40	2.90	2.19	2.95	1.10	12.88	3.42	2.04	2.69	1.42
Lighting	13.97	4.12	1.57	4.21	2.47	14.17	5.41	1.52	5.54	3.29
Motors	2.18	1.69	1.03	1.72	1.53	NA	NA	NA	NA	NA
Total - Commercial	11.91	3.72	1.67	3.80	1.98	9.90	3.73	1.74	3.79	1.84
INDIRECT IMPACT PROJECTS										
Advertising & Education	inf.	inf.	inf.	inf.	inf.	inf.	inf.	inf.	inf.	inf.
Development	inf.	inf.	inf.	inf.	inf.	inf.	inf.	inf.	inf.	inf.
Total - Indirect Impact										
TOTAL - ALL PROGRAMS	10.15	3.56	1.64	3.63	1.96	7.69	3.45	1.62	3.52	1.92

^{*} Air conditioning programs include summer load reductions, which are not coincident to the system winter-peak