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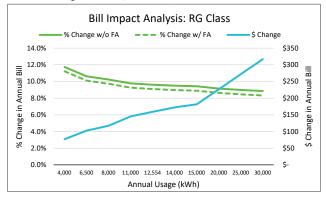
Empire District Electric (MISSOURI) Residential General Rate Design

Base Revenues		Base Rates			
Target Base Rates		238,002,124			
Current Base Rates		216,643,580			
\$ Difference		21,358,544			
% Difference		9.9%			
,, , , , , , , , , , , , , , , , , , , ,		3.370			
		Winter	Summer		
Annual Usage - First Block		521,023,455	276,092,815		
Annual Usage - Second Block		547,566,908	327,989,204		
Annual Usage - Third Block		-	-		
Number of Bills		1 509 012			
Average Annual Use (kWh)		1,598,913			
Average Ailliuar Ose (KWII)		12,554			
Residential General Rate Design		Rate	Units		Revenues
Proposed Rates		4.5.00			
Customer Charge	\$	16.00	1,598,913	\$	25,582,608
1st Block kWh - Winter	\$	0.13564	521,023,455		70,674,115
2nd Block kWh - Winter	\$	0.10922	547,566,908		59,804,826
1st Block kWh - Summer	\$	0.13564	276,092,815		37,450,551
2nd Block kWh - Summer	\$	0.13564	327,989,204		44,490,025
Zha Biock kwii Samme.	Ÿ	0.13301	327,303,201		11,150,025
Revenue at Proposed Rates				\$	238,002,124
Current Rates					
Customer Charge	\$	13.00	1,598,913	\$	20,785,869
1st Block kWh - Winter	\$	0.12535	521,023,455		65,310,290
2nd Block kWh - Winter	\$	0.10093	547,566,908		55,265,928
1st Block kWh - Summer	\$	0.12535	276,092,815		34,608,234
2nd Block kWh - Summer	\$	0.12535	327,989,204		41,113,447
Z. Z	7	0.12333	327,303,204		. 4,440,777
Revenue at Current Rates				\$	217,083,768
				7	,,505,,700

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Bill Impact Ana	alysis - RG Rate											
				Base Rate C	Comparison			Annual Bill Comparison				
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference		
Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)		
4,000	6.1%	0.9%	\$ 735	\$ 657	\$ 77	11.7%	\$ 765	\$ 688	\$ 77	11.2%		
6,500	14.5%	4.0%	1,071	968	103	10.6%	1,120	1,017	103	10.1%		
8,000	22.0%	7.7%	1,264	1,147	117	10.2%	1,324	1,207	117	9.7%		
11,000	39.1%	18.8%	1,629	1,484	145	9.8%	1,712	1,567	145	9.3%		
12,554	47.3%	25.5%	1,815	1,655	159	9.6%	1,909	1,750	159	9.1%		
14,000	54.7%	32.2%	1,987	1,815	172	9.5%	2,092	1,920	172	9.0%		
15,000	59.5%	37.0%	2,106	1,925	181	9.4%	2,219	2,038	181	8.9%		
20,000	78.1%	59.1%	2,702	2,475	226	9.1%	2,853	2,626	226	8.6%		
25,000	89.5%	76.4%	3,298	3,026	272	9.0%	3,486	3,214	272	8.5%		
30,000	95.1%	86.9%	3,893	3,576	317	8.9%	4,119	3,802	317	8.3%		

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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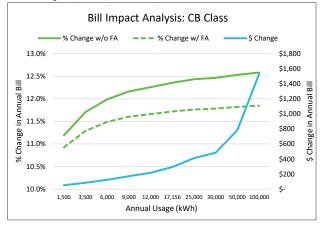
Empire District Electric (MISSOURI) Commercial Rate Design

Base Revenues					
Target Base Rates		48,746,420			
Current Base Rates		43,154,231			
\$ Difference		5,592,189			
% Difference		13.0%			
				•	
Association on Flort Black		Winter	Summer		
Annual Usage - First Block		60,320,573	30,703,583		
Annual Usage - Second Block		122,974,444	100,902,958		
Annual Usage - Third Block		-	-		
Number of Bills		220,260			
Average Annual Use (kWh)		17,156			
Commercial Rate Design		Rate	Units		Revenues
Proposed Rates					
Customer Charge	\$	25.00	220,260	\$	5,506,500
1st Block kWh - Winter	, \$	0.14318	60,320,573	•	8,636,869
2nd Block kWh - Winter	\$	0.12815	122,974,444		15,758,671
1st Block kWh - Summer	\$	0.14318	30,703,583		4,396,225
2nd Block kWh - Summer	\$	0.14318	100,902,958		14,447,568
Adjustments	Ą	0.14310	100,302,330		586
,					300
Revenue at Proposed Rates				\$	48,746,420
Current Rates					
Customer Charge	\$	22.69	220,260	\$	4,997,699
1st Block kWh - Winter	\$	0.12712	60,320,573		7,667,951
2nd Block kWh - Winter	\$	0.11377	122,974,444		13,990,802
1st Block kWh - Summer	\$	0.12712	30,703,583		3,903,039
2nd Block kWh - Summer	\$	0.12712	100,902,958		12,826,784
Adjustments	7		,		586
Revenue at Current Rates				\$	43,386,863

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Bill Impact Ana	alysis - CB Rate									
				Base Rate C	Comparison			Annual Bill	Comparison	
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
1,500	11.7%	0.4%	\$ 514	\$ 463	\$ 52	11.2%	\$ 526	\$ 474	\$ 52	10.9%
3,500	22.7%	1.6%	801	717	84	11.7%	827	743	84	11.3%
6,000	33.2%	3.8%	1,159	1,035	124	12.0%	1,204	1,080	124	11.5%
9,000	43.1%	7.0%	1,579	1,407	171	12.2%	1,646	1,475	171	11.6%
12,000	50.7%	10.6%	1,983	1,766	217	12.3%	2,073	1,857	217	11.7%
17,156	61.3%	17.3%	2,670	2,376	294	12.4%	2,799	2,505	294	11.7%
25,000	71.5%	26.7%	3,715	3,304	411	12.4%	3,903	3,492	411	11.8%
30,000	76.3%	32.5%	4,381	3,895	486	12.5%	4,607	4,121	486	11.8%
50,000	87.1%	50.9%	7,045	6,260	784	12.5%	7,421	6,637	784	11.8%
100,000	97.0%	81.6%	13,705	12,174	1,532	12.6%	14,458	12,927	1,532	11.8%

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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9,420,251

Empire District Electric (MISSOURI) Small Heating

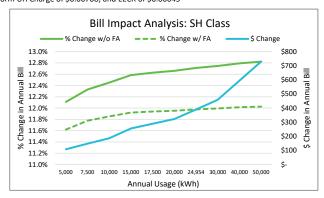
Revenue at Current Rates

Base Revenues				
Target Base Rates	10,616,573			
Current Base Rates	 9,356,671			
\$ Difference	1,259,903			
% Difference	13.5%			
	Winter	Summer		
Annual Usage - First Block	10,989,891	6,232,390		
Annual Usage - Second Block	41,981,018	20,552,195		
Annual Usage - Third Block	-	-		
Number of Bills	38,353			
Average Annual Use (kWh)	24,954			
Small Heating	Rate	Units		Revenues
Proposed Rates				
Customer Charge	\$ 25.00	38,353	\$	958,825
1st Block kWh - Winter	\$ 0.14053	10,989,891		1,544,391
2nd Block kWh - Winter	\$ 0.10360	41,981,018		4,349,363
1st Block kWh - Summer	\$ 0.14053	6,232,390		875,827
2nd Block kWh - Summer	\$ 0.14053	20,552,195		2,888,166
Revenue at Proposed Rates			\$	10,616,573
Revenue at Froposeu Rates			ڔ	10,010,373
Current Rates				
Customer Charge	\$ 22.69	38,353	\$	870,230
1st Block kWh - Winter	\$ 0.12441	10,989,891		1,367,252
2nd Block kWh - Winter	\$ 0.09172	41,981,018		3,850,499
1st Block kWh - Summer	\$ 0.12441	6,232,390		775,372
2nd Block kWh - Summer	\$ 0.12441	20,552,195		2,556,899
			_	

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Bill I	mpact Ana	llysis - SH Rate										
					Base Rate (Comparison		Annual Bill Comparison				
	Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference	
	Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)	
	5,000	13.7%	1.0%	\$ 1,003	\$ 894	\$ 108	12.1%	\$ 1,040	\$ 932	\$ 108	11.6%	
	7,500	19.6%	2.1%	1,354	1,205	149	12.3%	1,410	1,262	149	11.8%	
	10,000	26.3%	4.0%	1,679	1,493	186	12.4%	1,754	1,569	186	11.9%	
	15,000	38.9%	8.8%	2,282	2,027	255	12.6%	2,395	2,140	255	11.9%	
	17,500	43.3%	11.0%	2,578	2,289	289	12.6%	2,709	2,420	289	11.9%	
	20,000	48.1%	13.8%	2,874	2,551	323	12.7%	3,024	2,701	323	12.0%	
	24,954	55.9%	19.2%	3,460	3,070	390	12.7%	3,648	3,258	390	12.0%	
	30,000	63.0%	25.3%	4,057	3,598	459	12.7%	4,283	3,824	459	12.0%	
	40,000	72.3%	35.3%	5,240	4,646	594	12.8%	5,542	4,947	594	12.0%	
	50,000	79.2%	45.0%	6,424	5,694	730	12.8%	6,800	6,070	730	12.0%	

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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82,569,746

Empire District Electric (MISSOURI) General Power Rate Design

Revenue at Current Rates

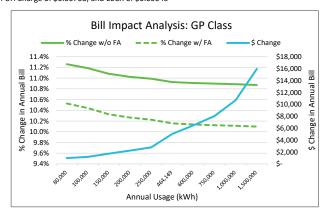
General Power Rate Design				
Base Revenues				
Target Base Rates	91,638,698			
Current Base Rates	 82,423,398			
\$ Difference	9,215,300			
% Difference	11.2%			
	Winter	Summer		
First 150 Hours kWh	224,543,408	130,408,257		
Next 200 Hours kWh	209,259,917	129,796,163		
All Additional kWh	87,731,429	55,586,493		
Facility Demand kW	2,272,998	1,145,438		
Billed Demand kW	1,649,837	924,245		
Number of Bills	21,648			
Average Annual Use	464,149			
General Power Rate Design	Rate	Units	F	Revenues
Proposed Rates				
Customer Charge	\$ 80.00	21,648	\$	1,731,8
First 150 Hours - Winter	\$ 0.08274	224,543,408		18,578,1
Next 200 Hours - Winter	\$ 0.06737	209,259,917		14,098,6
All Additional - Winter	\$ 0.06681	87,731,429		5,861,2
First 150 Hours - Summer	\$ 0.09637	130,408,257		12,567,7
Next 200 Hours - Summer	\$ 0.07477	129,796,163		9,704,5
All Additional - Summer	\$ 0.06713	55,586,493		3,731,5
Facility Demand kW - Winter	\$2.29	2,272,998		5,215,5
Billed Demand kW - Winter	\$6.33	1,649,837		10,442,5
Facility Demand kW - Summer	\$2.29	1,145,438		2,628,2
Billed Demand kW - Summer	\$8.13	924,245		7,509,6
Other Adjustments				(431,0
Revenue at Proposed Rates			\$	91,638,6
Current Rates				
Customer Charge	\$ 69.49	21,648	\$	1,504,3
First 150 Hours - Winter	\$ 0.07464	224,543,408		16,759,9
Next 200 Hours - Winter	\$ 0.06078	209,259,917		12,718,8
All Additional - Winter	\$ 0.06027	87,731,429		5,287,5
First 150 Hours - Summer	\$ 0.08694	130,408,257		11,337,6
Next 200 Hours - Summer	\$ 0.06745	129,796,163		8,754,7
All Additional - Summer	\$ 0.06056	55,586,493		3,366,3
Facility Demand kW - Winter	\$2.07	2,272,998		4,705,1
Billed Demand kW - Winter	\$5.71	1,649,837		9,420,5
Facility Demand kW - Summer	\$2.07	1,145,438		2,371,0
Billed Demand kW - Summer	\$7.33	924,245		6,774,7
				(431,0

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Bill Impact Ana	alysis - GP Rate									
				Base Rate C	omparison			Annual Bill (Comparison	
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
80,000	5.5%	0.6%	\$ 9,591	\$ 8,620	\$ 971	11.3%	\$ 10,194	\$ 9,223	\$ 971	10.5%
100,000	10.0%	1.5%	11,749	10,567	1,182	11.2%	12,502	11,320	1,182	10.4%
150,000	28.0%	6.3%	17,143	15,433	1,710	11.1%	18,273	16,563	1,710	10.3%
200,000	41.7%	11.4%	22,538	20,300	2,238	11.0%	24,044	21,806	2,238	10.3%
250,000	49.4%	15.0%	27,932	25,166	2,766	11.0%	29,815	27,049	2,766	10.2%
464,149	72.5%	31.4%	51,036	46,009	5,027	10.9%	54,532	49,505	5,027	10.2%
600,000	80.2%	40.0%	65,693	59,232	6,462	10.9%	70,211	63,750	6,462	10.1%
750,000	85.0%	46.9%	81,877	73,831	8,045	10.9%	87,524	79,479	8,045	10.1%
1,000,000	89.7%	55.3%	108,849	98,163	10,685	10.9%	116,379	105,694	10,685	10.1%
1,500,000	95.0%	69.4%	162,793	146,828	15,965	10.9%	174,088	158,124	15,965	10.1%

Bill Impact calculated based on Average kW Demand Usage

The current annual bill includes a Storm Uri Charge of 0.00708; and EECR of 0.00045



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Empire District Electric (MISSOURI)	
TS Rate Design	

13 Nate Design					
Base Revenues					
Target Base Rates		4,595,972			
Current Base Rates		4,394,565			
\$ Difference	-	201,407			
% Difference		4.6%			
		Winter	Summer		
On-Peak Period kWh		21,417,863	4,842,352		
Shoulder Period kWh		-	6,515,055		
Off-Peak Period kWh		24,732,965	11,969,519		
Facility Demand kW		65,208	32,775		
Billed Demand kW		65,017	32,703		
Number of Bills		12			
Average Annual Use		69,477,754			
TS Rate Design		Rate	Units		Revenues
Proposed Rates					
Customer Charge	\$	275.00	12	\$	3,3
On-Peak Period kWh - Winter	\$	0.04084	21,417,863		874,7
Shoulder Period kWh - Winter	\$	-	-		-
Off-Peak Period kWh - Winter	\$	0.03341	24,732,965		826,2
On-Peak Period kWh - Summer	\$	0.05874	4,842,352		284,4
Shoulder Period kWh - Summer	\$	0.04690	6,515,055		305,5
Off-Peak Period kWh - Summer	\$	0.03556	11,969,519		425,6
Facility Demand kW - Winter		\$0.57	65,208		36,8
Billed Demand kW - Winter		\$19.33	65,017		1,256,4
Facility Demand kW - Summer		\$0.57	32,775		18,5
Billed Demand kW - Summer		\$28.43	32,703		929,8
Other Adjustments				_	(365,7
Revenue at Proposed Rates				\$	4,595,9
Current Rates					
Customer Charge	\$	259.01	12	\$	3,1
On-Peak Period kWh - Winter	\$	0.03614	21,417,863		774,0
Shoulder Period kWh - Winter	\$	-	-		-
Off-Peak Period kWh - Winter	\$	0.02956	24,732,965		731,1
On Book Book of Little Comment	\$	0.05198	4,842,352		251,7
On-Peak Period kWh - Summer			6,515,055		270,3
Shoulder Period kWh - Summer	\$	0.04150	0,515,055		
	\$ \$	0.04150 0.03147	11,969,519		376,6
Shoulder Period kWh - Summer					376,68 32,68

0.50

25.16

32,775

32,703

16,388

822,795 (365,712)

4,024,888

Facility Demand kW - Summer

Billed Demand kW - Summer

Revenue at Current Rates

Other Adjustments

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Empire District Electric (MISSOURI) Total Electric Building Rate Design

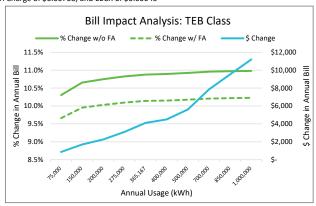
Base Revenues					
Target Base Rates		39,039,004			
Current Base Rates		35,162,161			
\$ Difference		3,876,842			
% Difference		11.0%			
				i	
First 150 Hours kWh		Winter 117,132,890	Summer 58,498,092		
Next 200 Hours kWh		81,271,204	52,083,551		
All Additional kWh		17,023,992	14,325,618		
Facility Demand kW		1,169,689	575,604		
Billed Demand kW		863,740	408,256		
Number of Bills			406,230		
Average Annual Use		11,184 365,167			
Average Amilian Ose		303,107			
Total Electric Building Rate Design		Rate	Units		Revenues
Proposed Rates					
Customer Charge	\$	72.00	11,184	\$	805,2
First 150 Hours - Winter	\$	0.08769	117,132,890		10,271,3
Next 200 Hours - Winter	\$	0.07022	81,271,204		5,707,1
All Additional - Winter	\$	0.06881	17,023,992		1,171,4
First 150 Hours - Summer	\$	0.11607	58,498,092		6,790,0
Next 200 Hours - Summer	\$	0.08992	52,083,551		4,683,4
All Additional - Summer	\$	0.08091	14,325,618		1,159,0
Facility Demand kW - Winter	\$	2.37	1,169,689		2,766,5
Billed Demand kW - Winter	\$	3.20	863,740		2,762,2
Eacility Domand kW Summor	ė	2.37	E7E 604		1 261 4
Facility Demand kW - Summer	\$ \$		575,604		1,361,4
Billed Demand kW - Summer Other Adjustments	\$	3.89	408,256		1,586,6 (25,5
Other Adjustments				_	(23,3
Revenue at Proposed Rates				\$	39,039,0
Current Rates					
Customer Charge	\$	69.49	11,184	\$	777,1
First 150 Hours - Winter	\$	0.07897	117,132,890		9,249,9
Next 200 Hours - Winter	\$	0.06324	81,271,204		5,139,5
All Additional - Winter	\$	0.06197	17,023,992		1,054,9
First 150 Hours - Summer	\$	0.10453	58,498,092		6,114,8
Next 200 Hours - Summer	\$	0.08098	52,083,551		4,217,7
All Additional - Summer	\$	0.07286	14,325,618		1,043,7
Facility Demand kW - Winter	\$	2.13	1,169,689		2,491,4
Billed Demand kW - Winter	\$	2.88	863,740		2,487,5
Facility Demand kW - Summer	\$	2.13	575,604		1,226,0
Billed Demand kW - Summer	\$	3.50	408,256		1,428,8
Other Adjustments	•		,	_	(25,5

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Bill Impact Ana	alysis - TEB Rat	e								
				Base Rate C	omparison			Annual Bill (Comparison	
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
75,000	3.9%	0.5%	\$ 9,295	\$ 8,427	\$ 869	10.3%	\$ 9,860	\$ 8,991	\$ 869	9.7%
150,000	24.5%	6.4%	17,726	16,020	1,707	10.7%	18,856	17,149	1,707	10.0%
200,000	39.1%	12.8%	23,347	21,081	2,266	10.7%	24,853	22,587	2,266	10.0%
275,000	55.6%	22.5%	31,779	28,674	3,104	10.8%	33,849	30,745	3,104	10.1%
365,167	66.2%	31.2%	41,915	37,803	4,112	10.9%	44,665	40,552	4,112	10.1%
400,000	69.1%	34.0%	45,831	41,329	4,502	10.9%	48,843	44,341	4,502	10.2%
500,000	77.9%	44.0%	57,072	51,453	5,620	10.9%	60,837	55,218	5,620	10.2%
700,000	86.1%	56.4%	79,556	71,700	7,855	11.0%	84,827	76,972	7,855	10.2%
850,000	91.3%	66.7%	96,418	86,886	9,532	11.0%	102,819	93,287	9,532	10.2%
1,000,000	95.0%	75.2%	113,281	102,072	11,209	11.0%	120,811	109,602	11,209	10.2%

Bill Impact calculated based on Average kW Demand Usage

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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Empire District Electric (MISSOURI)
Feed Mill and Grain Elevator Service (PFM)

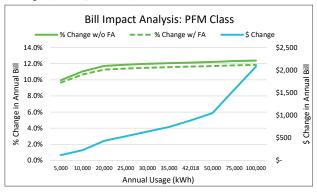
Base Revenues		
Target Base Rates	87,934	
Current Base Rates	78,262	
\$ Difference	9,672	
% Difference	12.4%	
	Winter	Summer
Annual Usage - First Block	38,750	21,741
Annual Usage - Second Block	256,480	135,740
Annual Usage - Third Block	-	-
Number of Bills	119	
Average Annual Use (kWh)	45,652	

Feed Mill and Grain Elevator Service (PFM)	Rate	Units	Revenues
Proposed Rates			
Customer Charge	\$ 28.50	119	\$ 3,392
1st Block kWh - Winter	\$ 0.19731	38,750	7,646
2nd Block kWh - Winter	\$ 0.17867	256,480	45,824
1st Block kWh - Summer	\$ 0.19731	21,741	4,290
2nd Block kWh - Summer	\$ 0.19731	135,740	26,783
			 07.024
Revenue at Proposed Rates			\$ 87,934
Current Rates			
Customer Charge	\$ 27.65	119	\$ 3,290
1st Block kWh - Winter	\$ 0.17527	38,750	6,792
2nd Block kWh - Winter	\$ 0.15871	256,480	40,706
1st Block kWh - Summer	\$ 0.17527	21,741	3,811
2nd Block kWh - Summer	\$ 0.17527	135,740	23,791
Revenue at Current Rates			\$ 78,390

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Bi	ll Impact Ana	alysis - PFM Ra	te								
					Base Rate C	Comparison			Annual Bill	Comparison	
	Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
	Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
	5,000	25.0%	1.8%	\$ 1,329	\$ 1,208	\$ 120	10.0%	\$ 1,366	\$ 1,246	\$ 120	9.7%
	10,000	50.0%	5.1%	2,280	2,054	227	11.0%	2,356	2,129	227	10.6%
	20,000	62.5%	9.5%	4,134	3,700	434	11.7%	4,285	3,851	434	11.3%
	25,000	62.5%	9.5%	5,056	4,519	537	11.9%	5,244	4,707	537	11.4%
	30,000	62.5%	9.5%	5,978	5,339	640	12.0%	6,204	5,564	640	11.5%
	35,000	62.5%	9.5%	6,900	6,157	743	12.1%	7,163	6,421	743	11.6%
	42,018	75.0%	19.5%	8,194	7,307	887	12.1%	8,510	7,623	887	11.6%
	50,000	75.0%	19.5%	9,666	8,614	1,052	12.2%	10,042	8,991	1,052	11.7%
	75,000	75.0%	19.5%	14,276	12,709	1,566	12.3%	14,840	13,274	1,566	11.8%
	100,000	87.5%	42.2%	18,885	16,804	2,081	12.4%	19,638	17,557	2,081	11.9%

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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Empire District Electric (MISSOUR	H)
Large Power Rate Design	

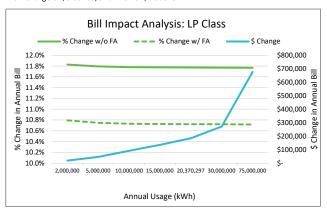
Base Revenues				
Target Base Rates		75,073,862		
Current Base Rates		67,281,045		
\$ Difference	-	7,792,817		
% Difference		11.6%		
,		12.070		
First 250 Hours		Winter	Summer	
First 350 Hours		375,924,703	202,005,124	
All Additional		186,464,372	110,341,729	
Facility Demand kW		1,191,938	585,026	
Billed Demand kW		1,106,393	593,390	
Number of Bills		515		
Average Annual Use		20,370,297		
Large Power Rate Design		Rate	Units	Revenues
Proposed Rates				
Customer Charge	\$	325.00	515	\$ 167,47
First 350 Hours - Winter	\$	0.05778	375,924,703	21,720,92
All Additional - Winter	\$	0.04528	186,464,372	8,443,10
First 350 Hours - Summer	\$	0.06543	202,005,124	13,217,19
All Additional - Summer	\$	0.05293	110,341,729	5,840,38
Facility Demand kW - Winter	\$	1.88	1,191,938	2,240,84
Billed Demand kW - Winter	\$	10.24	1,106,393	11,332,34
Facility Demand kW - Summer	\$	1.88	585,026	1,099,84
Billed Demand kW - Summer	\$	18.56	593,390	11,011,73
Other Adjustments	Ţ	16.50	393,390	11,011,73
Other Adjustments				
Revenue at Proposed Rates				\$ 75,073,86
Current Rates				
Customer Charge	\$	283.55	515	\$ 146,11
First 350 Hours - Winter	\$	0.05778	375,924,703	21,720,92
All Additional - Winter	\$	0.03270	186,464,372	6,097,38
First 250 Haves Commen		0.00543	202.005.424	12 247 44
First 350 Hours - Summer	\$	0.06543	202,005,124	13,217,19
All Additional - Summer	\$	0.03400	110,341,729	3,751,61
Facility Demand kW - Winter	\$	1.88	1,191,938	2,240,84
Billed Demand kW - Winter	\$	8.66	1,191,938	9,581,36
Dinica Demana KVV - VVIIILEI	ş	0.00	1,100,333	9,301,30
Facility Demand kW - Summer	\$	1.88	585,026	1,099,84
Billed Demand kW - Summer	\$	15.69	593,390	9,310,28
				_
Other Adjustments				

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Bill Impact Ana	alysis - LP Rate									
				Base Rate (Comparison			Annual Bill C	omparison	
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
2,000,000			\$ 175,166	\$ 156,636	\$ 18,530	11.8%	\$ 190,227	\$ 171,697	\$ 18,530	10.8%
5,000,000			432,066	386,487	45,579	11.8%	469,717	424,138	45,579	10.7%
10,000,000			860,231	769,571	90,661	11.8%	935,535	844,874	90,661	10.7%
15,000,000			1,288,397	1,152,655	135,743	11.8%	1,401,352	1,265,609	135,743	10.7%
20,370,297			1,748,273	1,564,110	184,163	11.8%	1,901,667	1,717,505	184,163	10.7%
30,000,000			2,572,894	2,301,907	270,988	11.8%	2,798,804	2,527,816	270,988	10.7%
75,000,000			6,426,386	5,749,663	676,723	11.8%	6,991,160	6,314,437	676,723	10.7%

Bill Impact calculated based on Average kW Demand Usage

The proposed annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



The current annual bill includes a Storm Uri Charge of 0.00708; and EECR of 0.00045

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Empire District Electric (MISSOURI) Miscellaneous Service (MS)

Base Revenues	
Target Base Rates	15,976
Current Base Rates	14,031
\$ Difference	1,944
% Difference	13.9%

All Usage kWh Usage 136,106

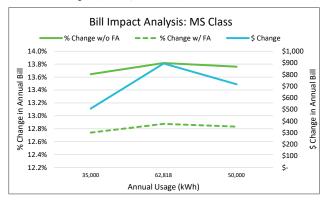
Number of Bills 26 Average Annual Use (kWh) 62,818

Miscellaneous Service (MS)	Rate		Revenues	
Proposed Rates				
Customer Charge	\$ 21.00	26	\$ 546	
All Usage	\$ 0.11336	136,106	15,430	
Other Adjustments			-	
Revenue at Proposed Rates			\$ 15,976	
Current Rates				
Customer Charge	\$ 19.51	26	\$ 507	
All Usage	\$ 0.09940	136,106	13,529	
Other Adjustments			-	
Revenue at Current Rates			\$ 14,036	

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Bill Impact Ana	alysis - MS Rate									
				Base Rate (Comparison			Annual Bill	Comparison	
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
Use	Bills	Use	Base Rates	Base Rates	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
35,000	0.0%	0.0%	\$ 4,220	\$ 3,713	\$ 507	13.6%	\$ 4,483	\$ 3,977	\$ 507	12.7%
62,818	0.0%	0.0%	7,373	6,478	895	13.8%	7,846	6,951	895	12.9%
50,000	0.0%	0.0%	5,920	5,204	716	13.8%	6,297	5,581	716	12.8%

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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Empire District Electric (MISSOURI) Street Lighting Rate Design

Base Revenues	
Target Base Rates	2,567,778
Current Base Rates	2,177,341
\$ Difference	390,437
% Difference	17.9%
	kWh Usage
Annual Usage	17,854,334
Number of Bills	70
Average Annual Use (kWh)	3,060,743

Street Lighting - SPL	Current	Proposed	Proposed
Rate Design	Charges	Increase	Charges
Facilities Charges			
Incandascent Lamp Sizes			
4,000 Lumen	\$ 62.71	\$ 11.25	73.96
Mercury Vapor Lamp Sizes			
7,000 Lumen Mercury	\$ 85.16	\$ 15.27	100.43
11,000 Lumen Mercury	\$ 102.21	\$ 18.33	120.54
20,000 Lumen Mercury	\$ 146.33	\$ 26.24	172.57
53,000 Lumen Mercury	\$ 246.88	\$ 44.27	291.15
High Pressure Sodium Vapor Lamp Sizes			
6,000 Lumen HP Sodium	\$ 79.80	\$ 14.31	94.11
16,000 Lumen HP Sodium	\$ 99.90	\$ 17.91	117.81
27,500 Lumen HP Sodium	\$ 130.01	\$ 23.31	153.32
50,000 Lumen HP Sodium	\$ 185.28	\$ 33.22	218.50
130,000 Lumen HP Sodium	\$ 299.00	\$ 53.62	352.62
Metal Halide Lamp Sizes			
12,000 Lumen MetalH	\$ 124.89	\$ 22.40	147.29
20,500 Lumen MetalH	\$ 153.05	\$ 27.44	180.49
36,000 Lumen MetalH	\$ 204.74	\$ 36.71	241.45
110,000 Lumen MetalH	\$ 452.44	\$ 81.13	533.57

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Empire District Electric (MISSOURI) Private Lighting Rate Design

lase		

 Target Base Rates
 4,336,444

 Current Base Rates
 3,983,150

 \$ Difference
 353,294

 % Difference
 8.9%

 kWh Usage

 Annual Usage
 12,566,733

 Number of Bills
 2,935

Number of bills		2,333		
Private Lighting - PL		Current	Proposed	Proposed
Rate Design		Charges	Increase	Charges
Installation Charge: Standard Street Lighting				
Mercury Vapor Lamp Sizes				
6,800 Lumen Std Mercury	\$	15.32	\$ 1.36	\$ 16.68
20,000 Lumen Std Mercury	\$	25.50	\$ 2.26	\$ 27.76
54,000 Lumen Std Mercury	\$	48.88	\$ 4.34	\$ 53.22
Sodium Vapor Lamp Sizes				
6,000 Lumen Std Sodium	\$	14.15	\$ 1.26	\$ 15.41
16,000 Lumen Std Sodium	\$	20.59	\$ 1.83	\$ 22.42
27,500 Lumen Std Sodium	\$	29.76	\$ 2.64	\$ 32.40
50,000 Lumen Std Sodium	\$	34.52	\$ 3.06	\$ 37.58
Metal Halide Lamp Sizes				
12,000 Lumen Std MetalH	\$	23.87	\$ 2.12	\$ 25.99
20,500 Lumen Std MetalH	\$	31.86	\$ 2.83	\$ 34.69
36,000 Lumen Std MetalH	\$	35.74	\$ 3.17	\$ 38.91
Installation Charge: Standard Flood Lighting				
Mercury Vapor Lamp Sizes				
20,000 Lumen Mercury FL	\$	35.74	\$ 3.17	\$ 38.91
54,000 Lumen Mercury FL	\$	59.01	\$ 5.23	\$ 64.24
Sodium Vapor Lamp Sizes				
27,500 Lumen Sodium FL	\$	34.62	\$ 3.07	\$ 37.69
50,000 Lumen Sodium FL	\$	47.49	\$ 4.21	\$ 51.70
140,000 Lumen Sodium FL	\$	69.39	\$ 6.15	\$ 75.54
Metal Halide Lamp Sizes				
12,000 Lumen MetalH FL	\$	24.76	\$ 2.20	\$ 26.96
20,500 Lumen MetalH FL	\$	32.79	\$ 2.91	\$ 35.70
36,000 Lumen MetalH FL	\$	48.34	\$ 4.29	\$ 52.63
110,000 Lumen MetalH FL	\$	70.64	\$ 6.27	\$ 76.91
Additional Charges				
Regular Wood Pole	\$	1.97	\$ 0.17	\$ 2.14
Transformer	\$	1.97	\$ 0.17	\$ 2.14
Guy and Anchor		1.97	\$ 0.17	\$ 2.14
Conductor	\$ \$	0.02	\$ 0.00	\$ 0.02
	•			

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Empire District Electric (MISSOURI) Special Lighting Rate Design

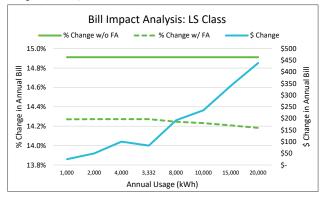
Base Revenues	
Target Base Rates	90,348
Current Base Rates	80,482
\$ Difference	9,867
% Difference	12.3%
	kWh Usage
Annual Usage - First Block	307,507
Annual Usage - Second Block	98,465
Annual Usage - Second Block	98,465
Annual Usage - Second Block Number of Bills	98,465 1,462
· ·	,

Special Lighting Rate Design	Rate	Units	Revenues
Proposed Rates			
Customer Charge	\$ -	1,462	\$ -
1st Block kWh	\$ 0.19349	307,507	59,499
2nd Block kWh	\$ 0.15004	98,465	14,774
Other Adjustments			16,076
Revenue at Proposed Rates			\$ 90,348
Current Rates			
Customer Charge	\$ -	1,462	\$ -
1st Block kWh	\$ 0.16838	307,507	51,778
2nd Block kWh	\$ 0.13057	98,465	12,857
Other Adjustments			16,076
Revenue at Current Rates			\$ 80,710

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				Annual Bil	l (w/o FA)			Annual Bi	II (w/ FA)	
Annual	Cumulative	Cumulative	Proposed	Current	Difference	Difference	Proposed	Current	Difference	Difference
Use	Bills	Use	Annual Bill	Annual Bill	(\$)	(%)	Annual Bill	Annual Bill	(\$)	(%)
1,000	9.1%	0.4%	\$ 193	\$ 168	\$ 25	14.9%	\$ 201	\$ 176	\$ 25	14.3%
2,000	18.2%	2.3%	387	337	50	14.9%	402	352	50	14.3%
4,000	27.3%	4.7%	774	674	100	14.9%	804	704	100	14.3%
3,332	45.5%	13.1%	645	561	84	14.9%	670	586	84	14.3%
8,000	45.5%	13.1%	1,481	1,289	192	14.9%	1,541	1,349	192	14.2%
10,000	54.5%	21.7%	1,814	1,579	235	14.9%	1,890	1,654	235	14.2%
15,000	63.6%	31.7%	2,624	2,283	340	14.9%	2,737	2,396	340	14.2%
20,000	90.9%	77.2%	3,376	2,938	438	14.9%	3,526	3,088	438	14.2%

The current annual bill includes a Storm Uri Charge of \$0.00708; and EECR of \$0.00045



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Empire District Electric (MISSOURI) Summary of Costs	Total		Res Gen		Comm		Small Heating		Gen Pow		Total Elect Bldg	
	Company		RG		СВ		SH		GP		TEB	
Customer Charges												
Proposed		\$	16.00	\$	25.00	\$	25.00	\$	80.00	\$	72.00	
Current		\$	13.00	\$	22.69	\$	22.69	\$	69.49	\$	69.49	
Billing Determinants												
Customers	 157,958		133,243		18,355		3,196		1,804		932	
Usage (MWh)	4,220,620		1,672,672		314,902		79,755		837,326		340,335	
Revenue Requirement	\$ 708,225,333	\$	314,277,199	\$	63,270,070	\$	14,251,189	\$	129,577,749	\$	54,467,748	
Customer Costs												
Basic customer costs	\$ 57,521,222	\$	43,929,572	\$	6,595,085	\$	1,149,389	\$	1,024,546	\$	525,111	
\$ per customer	\$ 30.35	\$	27.47	\$	29.94	\$	29.97	\$	47.33	\$	46.95	
Fully-loaded customer costs	\$ 111,365,952	\$	88,183,278	\$	12,120,602	\$	2,119,345	\$	1,666,027	\$	849,539	
\$ per customer	\$ 58.75	\$	55.15	\$	55.03	\$	55.26	\$	76.96	\$	75.96	
Revenue Requirement												
Revenue Requirement	\$ 708,225,333	\$	314,277,199	\$	63,270,070	\$	14,251,189	\$	129,577,749	\$	54,467,748	
\$ per customer	\$ 373.64	\$	196.56	\$	287.25	\$	371.58	\$	5,985.67	\$	4,870.15	
\$ per MWh	\$ 1,678.01	\$	1,878.89	\$	2,009.20	\$	1,786.86	\$	1,547.52	\$	1,600.41	

Summary of Costs		Feed Mill		Large Power		Misc. Service		Street Lts		Private Lts		Spec Lts
		PFM		LP		MS		SPL		PL		LS
Customer Charges												
Proposed	\$	28.50	\$	325.00	\$	21.00					\$	-
Current	\$	27.65	\$	283.55	\$	19.51					\$	-
Billing Determinants												
Customers		10		43		2		6		245		122
Usage (MWh)		453		874,736		136		17,854		12,567		406
Revenue Requirement	\$	109,226	\$	114,776,031	\$	22,039	\$	4,417,117	\$	4,973,992	\$	109,357
Customer Costs												
Basic customer costs	\$	4,610	\$	662,636	\$	2,792	\$	2,254,556	\$	1,238,400	\$	114,092
\$ per customer	\$	38.74	\$	1,285.92	\$	107.39	\$	32,207.95	\$	421.94	\$	78.04
Fully-loaded customer costs	\$	8,185	\$	1,887,603	\$	12,690	\$	2,794,568	\$	1,521,413	\$	146,396
\$ per customer	\$	68.78	\$	3,663.11	\$	488.06	\$	39,922.40	\$	518.37	\$	100.13
Revenue Requirement												
Revenue Requirement	\$	109,226	\$	114,776,031	\$	22,039	\$	4,417,117	\$	4,973,992	\$	109,357
\$ per customer	\$	917.87	\$	222,735.97	\$	847.67	\$	63,101.68	\$	1,694.72	\$	74.80
\$ per MWh	Ś	2.412.71	Ś	1.312.12	Ś	1.619.29	Ś	2.473.97	Ś	3.958.06	Ś	2,693.72

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	Average	Average Annual	Customer Impact	 Aggregate An	nual Impact
	Customer	Bill	Bill	Annual	Annual
Class	Count	Change \$	Change %	Change \$	Change %
RG-Residential	133,243	\$ 160	9.3%	\$ 21,358,544	9.3%
CB-Commercial	18,355	305	12.3%	5,592,189	12.3%
SH-Small Heating	3,196	394	12.7%	1,259,903	12.7%
GP-General Power	1,804	5,108	10.4%	9,215,300	10.4%
TS-Transmission Service	1	201,407	4.1%	201,407	4.1%
TEB-Total Electric Bldg	932	4,160	10.3%	3,876,842	10.3%
PFM-Feed Mill/Grain Elev	10	975	11.8%	9,672	11.8%
LP-Large Power	43	181,474	10.5%	7,792,817	10.5%
MS-Miscellaneous	2	897	12.9%	1,944	12.9%
SPL-Municipal St Lighting	6	66,932	16.9%	390,437	16.9%
PL-Private Lighting	245	1,444	8.7%	353,294	8.7%
LS-Special Lighting	122	81	11.8%	9,867	11.8%
Total	157,958		0.0%	\$ 50,062,217	0.0%

⁽¹⁾ The current annual bill reflects the current base rates; a Storm Uri Charge of \$0.00708; and EECR of \$0.00045 The proposed annual bill reflects the proposed base rates; a Storm Uri Charge of \$0.00708; and EECR of \$0.00045