

STAFF REVENUE CALC

FOR SETTLEMENT PURPOSES ONLY

Current Rate	Test Year		Rate Annualization		
	Summer	Winter	Current Rate	Summer	Winter
Customer Charge	\$13.00	\$13.00	Customer Charge	\$13.00	\$13.00
Energy			Energy		
1st 600	\$0.13006	\$0.13006	1st 600	\$0.13006	\$0.13006
Over 600	\$0.13006	\$0.10574	Over 600	\$0.13006	\$0.10574
Energy Efficiency Program Cost		\$0.00039	Energy Efficiency Program Cost		\$0.00039

Test Year	2018		2018		2018		2018		2018		2019		2019		2019		Total
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
Customers	129,587	129,511	129,685	129,735	129,901	129,746	129,782	130,374	130,643	130,773	130,849	130,887					1,561,473
Summer kWh																	
1st 600	(3)	30,029	34,508,475	69,721,350	69,138,320	68,010,459	32,715,118	(30,256)	(464)	6,626	8,927	1,609	274,110,190				
Over 600	(997)	22,027	48,514,370	102,998,912	85,933,423	73,277,370	24,539,521	(301,735)	(36,267)	(13,031)	2,043	(10,135)	334,925,501				
Winter kWh																	
1st 600	64,273,958	62,318,723	32,511,706	(19,832)	19,875	18,678	33,233,934	64,920,736	67,153,614	68,033,432	68,271,945	68,238,327	528,975,096				
Over 600	62,167,294	40,588,472	30,695,197	(406,199)	7,404	5,598	27,220,686	83,954,832	69,751,293	97,941,452	114,961,780	108,936,819	635,824,627				
Total kWh	126,440,252	102,959,251	146,229,748	172,294,231	155,099,022	141,312,105	117,709,258	148,543,577	136,868,176	165,968,479	183,244,695	177,166,620	1,773,835,414				1,136
Cust. Chrg. Rev	\$1,684,631	\$1,683,643	\$1,685,905	\$1,686,555	\$1,688,713	\$1,686,698	\$1,687,166	\$1,694,862	\$1,698,359	\$1,700,049	\$1,701,037	\$1,701,531	\$20,299,149				(14,543)
Summer kWh Revenue																	
1st 600	(\$0)	\$3,906	\$4,488,172	\$9,067,959	\$8,992,130	\$8,845,440	\$4,254,928	(\$3,935)	(\$60)	\$862	\$1,161	\$209	\$35,650,771				
Over 600	(\$130)	\$2,865	\$6,309,779	\$13,396,038	\$11,176,501	\$9,530,455	\$3,191,610	(\$39,244)	(\$4,717)	(\$1,695)	\$266	(\$1,318)	\$43,560,411				
Winter kWh Revenue																	
1st 600	\$8,359,471	\$8,105,173	\$4,228,472	(\$2,579)	\$2,585	\$2,429	\$4,322,405	\$8,443,591	\$8,733,999	\$8,848,428	\$8,879,449	\$8,875,077	\$68,798,501				
Over 600	\$6,573,570	\$4,291,825	\$3,245,710	(\$42,951)	\$783	\$592	\$2,878,315	\$8,877,384	\$7,375,502	\$10,356,329	\$12,156,059	\$11,518,979	\$67,232,096				
Total Revenue	\$16,617,542	\$14,087,412	\$19,958,039	\$24,105,021	\$21,860,712	\$20,065,614	\$16,334,425	\$18,972,658	\$17,803,082	\$20,903,973	\$22,737,971	\$22,094,478	\$235,540,928				
Pre-MEEIA	\$49,312	\$40,154	\$57,030	\$67,195	\$60,489	\$55,112	\$45,907	\$57,932	\$53,379	\$64,728	\$71,465	\$69,095	\$691,796				
Total Rate Revenue	\$16,666,853	\$14,127,566	\$20,015,068	\$24,172,216	\$21,921,200	\$20,120,726	\$16,380,332	\$19,030,590	\$17,856,461	\$20,968,701	\$22,809,437	\$22,163,573	\$236,232,724				\$731,700

Update Period	2018		2018		2018		2018		2018		2019		2019		2019		Total
	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct		
Customers	129,901	129,746	129,782	130,374	130,643	130,773	130,849	130,887	130,759	130,718	130,903	130,896	1,566,231				
Summer kWh																	
0 to 600 kWh	69,138,320	68,010,459	32,715,118	(30,256)	(464)	6,626	8,927	1,609	318,457	2,146	32,495,582	68,626,835	271,293,359				
Greater than 600 kWh	85,933,423	73,277,370	24,539,521	(301,735)	(36,267)	(13,031)	2,043	(10,135)	1,678	4,762	26,624,291	75,950,446	285,972,367				
Winter kWh																	
0 to 600 kWh	19,875	18,678	33,233,934	64,920,736	67,153,614	68,033,432	68,271,945	68,238,327	64,030,979	60,708,129	31,359,786	10,227	525,999,682				
Greater than 600 kWh	7,404	5,598	27,220,686	83,954,832	69,751,293	97,941,452	114,961,780	108,936,819	49,990,039	28,013,942	18,704,310	(193,855)	599,294,298				
Total kWh	155,099,022	141,312,105	117,709,258	148,543,577	136,868,176	165,968,479	183,244,695	177,166,620	114,341,153	88,728,979	109,183,969	144,393,653	1,682,559,685				(831,863)
Cust. Chrg. Rev	1,688,713	1,686,698	\$1,687,166	\$1,694,862	\$1,698,359	\$1,700,049	\$1,701,037	\$1,701,531	\$1,699,867	\$1,699,334	\$1,701,739	\$1,701,648	20,361,003				
Summer kWh Revenue																	
0 to 600 kWh	\$8,992,130	\$8,845,440	\$4,254,928	(\$3,935)	(\$60)	\$862	\$1,161	\$209	\$41,419	\$279	\$4,226,375	\$8,925,606	35,284,414				
Greater than 600 kWh	\$11,176,501	\$9,530,455	\$3,191,610	(\$39,244)	(\$4,717)	(\$1,695)	\$266	(\$1,318)	\$218	\$619	\$3,462,755	\$9,878,115	37,193,566				
Winter kWh Revenue																	
0 to 600 kWh	\$2,585	\$2,429	\$4,322,405	\$8,443,591	\$8,733,999	\$8,848,428	\$8,879,449	\$8,875,077	\$8,327,869	\$7,895,699	\$4,078,654	\$1,330	68,411,516				
Greater than 600 kWh	\$783	\$592	\$2,878,315	\$8,877,384	\$7,375,502	\$10,356,329	\$12,156,059	\$11,518,979	\$5,285,947	\$2,962,194	\$1,977,794	(\$20,498)	63,369,379				
Total Revenue	21,860,712	20,065,614	16,334,425	18,972,658	17,803,082	20,903,973	22,737,971	22,094,478	15,355,320	12,558,126	15,447,317	20,486,201	224,619,878				205,717
Pre-MEEIA	60,489	55,112	45,907	57,932	53,379	64,728	71,465	69,095	44,593	34,604	42,582	56,314	656,198				
Total Rate Revenue	21,921,200	20,120,726	\$16,380,332	19,030,590	17,856,461	20,968,701	22,809,437	22,163,573	15,399,913	12,592,730	15,489,899	20,542,515	225,276,077				
Days Factor	1.00286																
Weather Factor	0.96530811	0.891757324	0.882378543	0.982477526	1.062603265	1.03240474	0.975070845	0.99459739	1.030710928	0.992352082	1.034488566	0.98843705					

Weather & Day Adjustment	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Total
Customers	129,901	129,746	129,782	130,374	130,643	130,773	130,849	130,887	130,759	130,718	130,903	130,896	1,566,231
Summer kWh													
0 to 600 kWh	68,950,083	66,872,385	31,549,365	(30,084)	(469)	6,653	8,888	1,608	321,052	2,140	32,798,172	68,525,652	269,005,444
Greater than 600 kWh	80,741,483	59,120,838	19,089,672	(293,675)	(40,348)	(13,710)	1,967	(10,051)	1,778	4,675	28,486,813	74,378,014	261,467,457
Winter kWh													
0 to 600 kWh	19,821	18,365	32,049,694	64,552,210	67,877,664	68,308,711	67,970,915	68,178,839	64,552,789	60,539,094	31,651,799	10,212	525,730,113
Greater than 600 kWh	6,957	4,517	21,175,392	81,712,276	77,599,723	103,044,990	110,694,789	108,039,062	52,977,056	27,504,478	20,012,783	(189,842)	602,582,182
Total kWh	149,718,344	126,016,105	103,864,124	145,940,726	145,436,570	171,346,644	178,676,559	176,209,458	117,852,675	88,050,387	112,949,568	142,724,036	1,658,785,196
Cust. Chrg. Rev	\$1,688,713	\$1,686,698	\$1,687,166	\$1,694,862	\$1,698,359	\$1,700,049	\$1,701,037	\$1,701,531	\$1,699,867	\$1,699,334	\$1,701,739	\$1,701,648	\$20,361,003
Summer kWh Revenue													
0 to 600 kWh	\$8,967,648	\$8,697,422	\$4,103,310	(\$3,913)	(\$61)	\$865	\$1,156	\$209	\$41,756	\$278	\$4,265,730	\$8,912,446	\$34,986,848
Greater than 600 kWh	\$10,501,237	\$7,689,256	\$2,482,803	(\$38,195)	(\$5,248)	(\$1,783)	\$256	(\$1,307)	\$231	\$608	\$3,704,995	\$9,673,604	\$34,006,457
Winter kWh Revenue													
0 to 600 kWh	\$2,578	\$2,389	\$4,168,383	\$8,395,660	\$8,828,169	\$8,884,231	\$8,840,297	\$8,867,340	\$8,395,736	\$7,873,715	\$4,116,633	\$1,328	\$68,376,459
Greater than 600 kWh	\$736	\$478	\$2,239,086	\$8,640,256	\$8,205,395	\$10,895,977	\$11,704,867	\$11,424,050	\$5,601,794	\$2,908,324	\$2,116,152	(\$20,074)	\$63,717,040
Total Revenue	\$21,160,912	\$18,076,243	\$14,680,748	\$18,688,670	\$18,726,614	\$21,479,339	\$22,247,613	\$21,991,823	\$15,739,384	\$12,482,258	\$15,905,249	\$20,268,953	\$221,447,807
Pre-MEEIA	\$58,390	\$49,146	\$40,507	\$56,917	\$6,720	\$66,825	\$69,684	\$68,722	\$45,963	\$34,340	\$44,050	\$55,662	\$646,926
Total Rate Revenue	\$21,219,302	\$18,125,389	\$14,721,255	\$18,745,587	\$18,783,334	\$21,546,165	\$22,317,297	\$22,060,545	\$15,785,347	\$12,516,598	\$15,949,299	\$20,324,615	\$222,094,733

(\$3,172,071)

1,059

Usage Adj. for Rate Switcher	2018		2018		2018		2018		2018		2019		2019		2019		Total
	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct		
Customers	129,901	129,746	129,782	130,374	130,643	130,773	130,849	130,887	130,759	130,718	130,903	130,896	1,566,231				
Summer kWh																	
0 to 600 kWh	68,950,083	66,872,385	31,549,365	(30,084)	(469)	6,653	8,888	1,608	321,052	2,140	32,798,172	68,525,652	269,005,444				
Greater than 600 kWh	80,741,483	59,120,838	19,089,672	(293,675)	(40,348)	(13,710)	1,967	(10,051)	1,778	4,675	28,486,813	74,378,014	261,467,457				
Winter kWh																	
0 to 600 kWh	19,821	18,365	32,049,694	64,552,210	67,877,664	68,308,711	67,970,915	68,178,839	64,552,789	60,539,094	31,651,799	10,212	525,730,113				
Greater than 600 kWh	6,957	4,517	21,175,392	81,712,276	77,599,723	103,044,990	110,694,789	108,039,062	52,977,056	27,504,478	20,012,783	(189,842)	602,582,182				
Total kWh	149,718,344	126,016,105	103,864,124	145,940,726	145,436,570	171,346,644	178,676,559	176,209,458	117,852,675	88,050,387	112,949,568	142,724,036	1,658,785,196				
Cust. Chrg. Rev	\$1,688,713	\$1,686,698	\$1,687,166	\$1,694,862	\$1,698,359	\$1,700,049	\$1,701,037	\$1,701,531	\$1,699,867	\$1,699,334	\$1,701,739	\$1,701,648	\$20,361,003				
Summer kWh Revenue																	
0 to 600 kWh	\$8,967,648	\$8,697,422	\$4,103,310	(\$3,913)	(\$61)	\$865	\$1,156	\$209	\$41,756	\$278	\$4,265,730	\$8,912,446	\$34,986,848				
Greater than 600 kWh	\$10,501,237	\$7,689,256	\$2,482,803	(\$38,195)	(\$5,248)	(\$1,783)	\$256	(\$1,307)	\$231	\$608	\$3,704,995	\$9,673,604	\$34,006,457				
Winter kWh Revenue																	
0 to 600 kWh	\$2,578	\$2,389	\$4,168,383	\$8,395,660	\$8,828,169	\$8,884,231	\$8,840,297	\$8,867,340	\$8,395,736	\$7,873,715	\$4,116,633	\$1,328	\$68,376,459				
Greater than 600 kWh	\$736	\$478	\$2,239,086	\$8,640,256	\$8,205,395	\$10,895,977	\$11,704,867	\$11,424,050	\$5,601,794	\$2,908,324	\$2,116,152	(\$20,074)	\$63,717,040				
Total Revenue	\$21,160,912	\$18,076,243	\$14,680,748	\$18,688,670	\$18,726,614	\$21,479,339	\$22,247,613	\$21,991,823	\$15,739,384	\$12,482,258	\$15,905,249	\$20,268,953	\$221,447,807				
Pre-MEEIA	\$58,390	\$49,146	\$40,507	\$56,917	\$6,720	\$66,825	\$69,684	\$68,722	\$45,963	\$34,340	\$44,050	\$55,662	\$646,926				
Total Rate Revenue	\$21,219,302	\$18,125,389	\$14,721,255	\$18,745,587	\$18,783,334	\$21,546,165	\$22,317,297	\$22,060,545	\$15,785,347	\$12,516,598	\$15,949,299	\$20,324,615	\$222,094,733				

*Residential had 2 rate switchers from Commercial that were master meter customers. However, the customers were fully in the Residential class by August 2019

19,452,047

\$0

\$0

Growth Adjustment

Growth Adjustment	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Total
Customers	132,073	132,073	132,073	132,073	132,073	132,073	132,073	132,073	132,073	132,073	132,073	132,073	1,584,876
Summer kWh													
0 to 600 kWh	70,102,958	68,071,744	32,106,296	(30,476)	(474)	6,719	8,971	1,622	324,278	2,162	33,091,319	69,141,826	272,826,945
Greater than 600 kWh	82,091,515	60,181,173	19,426,656	(297,502)	(40,789)	(13,846)	1,986	(10,143)	1,796	4,724	28,741,426	75,046,811	265,133,807
Winter kWh													
0 to 600 kWh	20,152	18,695	32,615,457	65,393,437	68,620,644	68,987,760	68,606,735	68,796,625	65,201,481	61,166,631	31,934,701	10,304	531,372,622
Greater than 600 kWh	7,073	4,598	21,549,195	82,777,129	78,449,118	104,069,349	111,730,261	109,018,031	53,509,424	27,789,585	20,191,656	(191,549)	608,903,870
Total kWh	152,221,699	128,276,209	105,697,604	147,842,587	147,028,499	173,049,982	180,347,952	177,806,136	119,036,980	88,963,102	113,959,101	144,007,392	1,678,237,243
Cust. Chrg. Rev	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$1,716,949	\$20,603,388
Summer kWh Revenue													
0 to 600 kWh	\$9,117,591	\$8,853,411	\$4,175,745	(\$3,964)	(\$62)	\$874	\$1,167	\$211	\$42,176	\$281	\$4,303,857	\$8,992,586	\$35,483,872
Greater than 600 kWh	\$10,676,822	\$7,827,163	\$2,526,631	(\$38,693)	(\$5,305)	(\$1,801)	\$258	(\$1,319)	\$234	\$614	\$3,738,110	\$9,760,588	\$34,483,303
Winter kWh Revenue													
0 to 600 kWh	\$2,621	\$2,431	\$4,241,966	\$8,505,070	\$8,924,801	\$8,972,548	\$8,922,992	\$8,947,689	\$8,480,105	\$7,955,332	\$4,153,427	\$1,340	\$69,110,323
Greater than 600 kWh	\$748	\$486	\$2,278,612	\$8,752,854	\$8,295,210	\$11,004,293	\$11,814,358	\$11,527,567	\$5,658,086	\$2,938,471	\$2,135,066	(\$20,254)	\$64,385,495
Total Revenue	\$21,514,731	\$18,400,441	\$14,939,903	\$18,932,216	\$18,931,593	\$21,692,863	\$22,455,724	\$22,191,097	\$15,897,549	\$12,611,647	\$16,047,409	\$20,451,209	\$224,066,382
Pre-MEEIA	\$59,366	\$50,028	\$41,222	\$57,659	\$7,341	\$67,489	\$70,336	\$69,344	\$46,424	\$34,696	\$44,444	\$56,163	\$64,513
Total Revenue	\$21,574,098	\$18,450,469	\$14,981,125	\$18,989,875	\$18,988,934	\$21,760,353	\$22,526,059	\$22,260,441	\$15,943,974	\$12,646,343	\$16,091,853	\$20,507,372	\$224,720,894

\$2,626,161

Final Billing Determinants			
	Total	Summer	Winter
Customers	1,584,876	528,292	1,056,584
First 600 kWh	804,199,567	272,826,945	531,372,622
Over 600 kWh	874,037,676	265,133,807	608,903,870
Total kWh	1,678,237,243	537,960,751	1,140,276,492
Cust Charge Revenue	\$20,603,388	\$6,867,796	\$13,735,592
1st 600 Revenue	\$104,594,196	\$35,483,872	\$69,110,323
Over 600 Revenue	\$98,868,798	\$34,483,303	\$64,385,495
Total Revenue	\$224,066,382	\$76,834,971	\$147,231,410
Pre-MEEIA	\$ 654,513	\$ 181,727	\$ 472,786
Total Rate Revenue	\$224,720,894	\$77,016,698	\$147,704,196

\$0

Empire ER-2019-0374
Residential

State MO

Plan RG-Residential

Revenue		test year & update period						
Month	Year	Step Description	Summer	Winter	Total	Allocation	Summer Allocation	Winter Allocation
4	2018	0 to 600 kWh	(3)	64,273,958	64,273,955			
5	2018	0 to 600 kWh	30,029	62,318,723	62,348,752			
6	2018	0 to 600 kWh	34,508,475	32,511,706	67,020,181			
7	2018	0 to 600 kWh	69,721,350	(19,832)	69,701,518			
8	2018	0 to 600 kWh	69,138,320	19,875	69,158,195			
9	2018	0 to 600 kWh	68,010,459	18,678	68,029,137			
10	2018	0 to 600 kWh	32,715,118	33,233,934	65,949,052			
11	2018	0 to 600 kWh	(30,256)	64,920,736	64,890,480			
12	2018	0 to 600 kWh	(464)	67,153,614	67,153,150			
1	2019	0 to 600 kWh	6,626	68,033,432	68,040,058			
2	2019	0 to 600 kWh	8,927	68,271,945	68,280,872			
3	2019	0 to 600 kWh	1,609	68,238,327	68,239,936			
4	2019	0 to 600 kWh	318,457	64,030,979	64,349,436			
5	2019	0 to 600 kWh	2,146	60,708,129	60,710,275			
6	2019	0 to 600 kWh	32,495,582	31,359,786	63,855,368			
7	2019	0 to 600 kWh	68,626,835	10,227	68,637,062			
4	2018	Greater than 600 kWh	(997)	62,167,294	62,166,297			
5	2018	Greater than 600 kWh	22,027	40,588,472	40,610,499			
6	2018	Greater than 600 kWh	48,514,370	30,695,197	79,209,567			
7	2018	Greater than 600 kWh	102,998,912	(406,199)	102,592,713			
8	2018	Greater than 600 kWh	85,933,423	7,404	85,940,827			
9	2018	Greater than 600 kWh	73,277,370	5,598	73,282,968			
10	2018	Greater than 600 kWh	24,539,521	27,220,686	51,760,207			
11	2018	Greater than 600 kWh	(301,735)	83,954,832	83,653,097			
12	2018	Greater than 600 kWh	(36,267)	69,751,293	69,715,026			
1	2019	Greater than 600 kWh	(13,031)	97,941,452	97,928,421			
2	2019	Greater than 600 kWh	2,043	114,961,780	114,963,823			
3	2019	Greater than 600 kWh	(10,135)	108,936,819	108,926,684			
4	2019	Greater than 600 kWh	1,678	49,990,039	49,991,717			
5	2019	Greater than 600 kWh	4,762	28,013,942	28,018,704			
6	2019	Greater than 600 kWh	26,624,291	18,704,310	45,328,601			
7	2019	Greater than 600 kWh	75,950,446	(193,855)	75,756,591			

# Customers	0 to 600 kWh	Greater than 600 kW	Total Kwh	UPC	% Block 1	% Block 2	Total	Normal UPC	% Customers Billed in Block 2	Block 1 Representation	Next Block	Normal Diff	Block Diff	Range between Blocks	Actual % Block 1	Normal Block 1	Normal Block 2		
1	130,773	68,040,058	97,928,421	165,968,479	1,269	41.0%	59.0%	100.0%	1,310	76%	47%	51%	-1.48%	3.940%	-38%	2.99%	41.0%	39.9%	60.13%
2	130,849	68,280,872	114,963,823	183,244,695	1,400	37.3%	62.7%	100.0%	1,366	72%	43%	46%	1.10%	3.570%	31%	2.56%	37.3%	38.0%	61.95%
3	130,887	68,239,936	108,926,684	177,166,620	1,354	38.5%	61.5%	100.0%	1,346	73%	44%	48%	0.24%	3.694%	7%	2.69%	38.5%	38.7%	61.31%
4	130,759	64,349,436	49,991,717	114,341,153	874	56.3%	43.7%	100.0%	901	60%	69%	74%	-2.04%	5.718%	-36%	3.45%	56.3%	55.0%	44.95%
5	130,718	60,710,275	28,018,704	88,728,979	679	68.4%	31.6%	100.0%	674	49%	88%	96%	0.68%	7.366%	9%	3.63%	68.4%	68.8%	31.24%
6	130,903	63,855,368	45,328,601	109,183,969	834	58.5%	41.5%	100.0%	863	59%	72%	78%	-2.40%	5.995%	-40%	3.56%	58.5%	57.1%	42.94%
7	130,896	68,637,062	75,756,591	144,393,653	1,103	47.5%	52.5%	100.0%	1,090	76%	54%	59%	0.64%	4.533%	14%	3.46%	47.5%	48.0%	51.98%
8	129,901	69,158,195	85,940,827	155,099,022	1,194	44.6%	55.4%	100.0%	1,153	82%	50%	54%	1.81%	4.188%	43%	3.42%	44.6%	46.1%	53.93%
9	129,746	68,029,137	73,282,968	141,312,105	1,089	48.1%	51.9%	100.0%	971	74%	55%	60%	6.69%	4.591%	146%	3.39%	48.1%	53.1%	46.92%
10	130,643	65,949,052	51,760,207	117,709,258	901	56.0%	44.0%	100.0%	795	59%	67%	72%	8.88%	5.549%	160%	3.25%	56.0%	61.2%	38.77%
11	130,773	64,890,480	83,653,097	148,543,577	1,136	43.7%	56.3%	100.0%	1,116	56%	53%	57%	0.94%	4.402%	21%	2.46%	43.7%	44.2%	55.79%
12	130,849	67,153,150	69,715,026	136,868,176	1,046	49.1%	50.9%	100.0%	1,111	71%	57%	62%	-3.38%	4.780%	-71%	3.38%	49.1%	46.7%	53.33%

