

Ameren Missouri's
Response to Sierra Club Data Request
ER-2016-0179

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Increase Its
Revenues for Electric Service

Data Request No.: SC 003

Please refer to the Direct Testimony of William Davis, page 21, lines 1-7.

- (a) What would the volumetric rates for residential and small general service customers have been if Ameren had not proposed to introduce the grid access charge?
- (b) What would the volumetric rates for residential and small general service customers be if Ameren were to include the full energy grid access charge of \$14.68 on these customers' bills, assuming no other changes?

RESPONSE

Prepared By: Jim Pozzo

Title: Rate Engineer

Date: November 7, 2016

1. The attached file "mo retail units to mar 2016 warehouse Dec 2016 growth for original case filing SC 003a.xlsx" (Res Rates and SGS Rates tabs) calculates the respective volumetric charges if one were to assume that the Company would have not proposed to introduce the grid access charge and instead reflected the revenues from the proposed access charge solely as a change in the volumetric charges.
2. The attached file "mo retail units to mar 2016 warehouse Dec 2016 growth for original case filing SC 003b.xlsx" (Res Rates and SGS Rates tabs) calculates the respective seasonally differentiated volumetric charges if one were to assume that the Company would have included the full energy grid access charge of \$14.68 and instead reflected the revenues from the proposed access charge solely as a change in the volumetric charges.

Residential Class

Target	\$1,359,530,755
EE and Low Income	\$0
Remainder	\$109,107,819
Current	\$1,250,422,936
	1.0920

**Weather Normalized-12 months ending March 2016
Forecasted Growth to December 2016**

Cust Chrg	\$8.00
Access Chrg	\$0.00

Residential Class

	Billing Units	Rates	Revenue		Proposed Rate	
Customer Charge						
Summer Bills	4,183,694	\$8.00	\$33,469,548		\$8.00	\$33,469,548
Winter Bills	8,387,335	\$8.00	\$67,098,677		\$8.00	\$67,098,677
TOD Bills	480	\$8.00	\$3,836		\$8.00	\$3,836
Access Charge						
Summer Bills	4,183,694				\$0.00	\$0
Winter Bills	8,387,335				\$0.00	\$0
TOD Bills	480				\$0.00	\$0
Low Income Charge	12,571,508	\$0.03	\$377,145		\$0.03	\$377,145
Total Bills	12,571,508					
Energy Charge						
Summer kWh	4,435,407,718	\$0.1208	\$535,797,252		\$ 0.1319	\$585,030,278
On-peak	41,354	\$0.3021	\$12,493		\$ 0.3299	\$13,643
Off-peak	188,390	\$0.0755	\$14,223		\$ 0.0824	\$15,523
Energy Eff kwh	4,435,633,332	\$0.0010	\$4,435,633		\$ 0.0009	\$3,992,070
Winter kWh						
First 750 kWh	4,623,436,366	\$0.0858	\$396,690,840		\$ 0.0937	\$433,215,987
Over 750 kWh	3,709,655,849	\$0.0573	\$212,563,280		\$ 0.0626	\$232,224,456
On-peak	0	\$0.0000	\$0		\$ -	\$0
Off-peak	0	\$0.0000	\$0		\$ -	\$0
Energy Eff Charge	8,333,085,352	\$0.0006	\$4,999,851		\$ 0.0005	\$4,166,543
Total kWh	12,768,729,677					
		Total	\$1,255,462,780			\$1,359,607,707
						\$76,951
		Total	\$1,255,462,780		Total	\$1,359,607,707
		Low Income Charge	\$377,145		Low Income	\$377,145
		Total less Low Inc	\$1,255,085,635		Total less Low Inc	\$1,359,230,561
		Current Pre-MEEIA	\$9,435,485			
Revenue Distribution	Pre MEEIA	\$8,399,959		Total Pre-MEEIA		\$104,144,926.63
Energy Eff kwh	4,435,633,332		\$535,823,969	0.468	\$3,930,649	8.284203437
Energy Eff kwh	8,333,085,352		\$609,254,120	0.53	\$4,469,311	
					\$8,399,959	99.86572955
						108.149933

Residential Class

Target	\$1,359,530,755
EE and Low Income	\$0
Remainder	\$293,657,551
Current	\$1,065,873,205
	0.9308

**Weather Normalized-12 months ending March 2016
Forecasted Growth to December 2016**

Cust Chrg	\$8.00
Access Chrg	\$14.68

Residential Class

	Billing Units	Rates	Revenue	Proposed Rate	
Customer Charge					
Summer Bills	4,183,694	\$8.00	\$33,469,548	\$8.00	\$33,469,548
Winter Bills	8,387,335	\$8.00	\$67,098,677	\$8.00	\$67,098,677
TOD Bills	480	\$8.00	\$3,836	\$8.00	\$3,836
Access Charge					
Summer Bills	4,183,694			\$14.68	\$61,416,621
Winter Bills	8,387,335			\$14.68	\$123,126,072
TOD Bills	480			\$14.68	\$7,039
Low Income Charge	12,571,508	\$0.03	\$377,145	\$0.03	\$377,145
Total Bills	12,571,508				
Energy Charge					
Summer kWh	4,435,407,718	\$0.1208	\$535,797,252	\$ 0.1124	\$498,539,828
On-peak	41,354	\$0.3021	\$12,493	\$ 0.2812	\$11,629
Off-peak	188,390	\$0.0755	\$14,223	\$ 0.0703	\$13,244
Energy Eff kwh	4,435,633,332	\$0.0010	\$4,435,633	\$ 0.0009	\$3,992,070
Winter kWh					
First 750 kWh	4,623,436,366	\$0.0858	\$396,690,840	\$ 0.0799	\$369,412,566
Over 750 kWh	3,709,655,849	\$0.0573	\$212,563,280	\$ 0.0533	\$197,724,657
On-peak	0	\$0.0000	\$0	\$ -	\$0
Off-peak	0	\$0.0000	\$0	\$ -	\$0
Energy Eff Charge	8,333,085,352	\$0.0006	\$4,999,851	\$ 0.0005	\$4,166,543
Total kWh	12,768,729,677				
Total			\$1,255,462,780		\$1,359,359,473 (\$171,282)
Total			\$1,255,462,780	Total	\$1,359,359,473
Low Income Charge			\$377,145	Low Income	\$377,145
Total less Low Inc			\$1,255,085,635	Total less Low Inc	\$1,358,982,328
Current Pre-MEEIA			\$9,435,485		

Revenue Distribution	Pre MEEIA	\$8,399,959		Total Pre-MEEIA	\$103,896,693.26
Energy Eff kwh	4,435,633,332		\$535,823,969	0.468	\$3,930,649
Energy Eff kwh	8,333,085,352		\$609,254,120	0.53	\$4,469,311
					\$8,399,959
					99.86572955
					108.1301873

Small General Service Class

Target	\$333,913,916
Cust Rev	\$78,958
EE	\$788,095
Unmetered Adj	(\$410,899)
Remainder	\$333,457,763
Current	\$308,900,598
Rate Factor	1.079499

**Weather Normalized-12 months ending March 2016
Forecasted Growth to December 2016**

Small General Service Class

Access Chrg \$0.00

	Billing Units	Rates	Revenue	Proposed Rate	
Customer Charge					
Summer Bills					
Limited Unmetered Service	3,016	\$10.19	\$30,733	\$4.92	\$14,839
One-phase	367,122	\$10.19	\$3,740,969	\$10.19	\$3,740,969
Three-phase	152,298	\$20.38	\$3,103,828	\$20.38	\$3,103,828
Winter Bills					
Limited Unmetered Service	6,032	\$10.19	\$61,466	\$4.92	\$29,677
One-phase	734,002	\$10.19	\$7,479,482	\$10.19	\$7,479,482
Three-phase	305,072	\$20.38	\$6,217,374	\$20.38	\$6,217,374
TOD Bills					
Limited Unmetered Service	68,921	\$6.71	\$462,463	\$4.92	\$339,093
One-phase	10,163	\$20.43	\$207,634	\$22.05	\$224,098
Three-phase	1,452	\$40.84	\$59,289	\$44.09	\$64,007
6M		\$6.71	\$0	\$6.05	\$0
Access Charge					
Summer Bills	519,419			\$0.00	\$0
Winter Bills	1,039,075			\$0.00	\$0
TOD Bills	11,615			\$0.00	\$0
Low Income Charge	1,579,157	\$0.05	\$78,958	\$0.05	\$78,958
Total Bills	1,648,078				
Energy Charge					
Summer kWh	1,139,509,845	\$0.1081	\$123,181,014	0.1167	\$132,980,799
On-peak	12,366,350	\$0.1605	\$1,984,799	0.1733	\$2,143,088
Off-peak	22,092,838	\$0.0654	\$1,444,872	0.0706	\$1,559,754
Energy Eff Charge	1,172,494,286	\$0.0004	\$468,998	0.0003	\$351,748
Winter kWh					
Base	1,688,639,623	\$0.0806	\$136,104,354	0.0870	\$146,911,647
Seasonal	429,806,503	\$0.0465	\$19,986,002	0.0502	\$21,576,286
On-peak	23,568,902	\$0.1057	\$2,491,233	0.1141	\$2,689,212
Off-peak	43,406,981	\$0.0485	\$2,105,239	0.0524	\$2,274,526
Energy Eff Charge	2,181,731,259	\$0.0002	\$436,346	0.0002	\$436,346
Total kWh	3,359,391,042	Total	\$309,645,053		\$332,200,895 (\$1,713,021)
	Total		\$309,645,053	Total	\$332,200,895
	Low Income Charge		\$78,958	Low Income	\$78,958
	Total less Low Inc		\$309,566,095	Total less Low Inc	\$332,121,937

Small General Service Class

Target	\$333,913,916
Cust Rev	\$23,128,155
EE	\$788,095
Unmetered Adj	(\$410,899)
Remainder	\$310,408,566
Current	\$308,900,598
Rate Factor	1.004882

**Weather Normalized-12 months ending March 2016
Forecasted Growth to December 2016**

Small General Service Class

Access Chrg \$14.68

	Billing Units	Rates	Revenue	Proposed Rate	
Customer Charge					
Summer Bills					
Limited Unmetered Service	3,016	\$10.19	\$30,733	\$4.92	\$14,839
One-phase	367,122	\$10.19	\$3,740,969	\$10.19	\$3,740,969
Three-phase	152,298	\$20.38	\$3,103,828	\$20.38	\$3,103,828
Winter Bills					
Limited Unmetered Service	6,032	\$10.19	\$61,466	\$4.92	\$29,677
One-phase	734,002	\$10.19	\$7,479,482	\$10.19	\$7,479,482
Three-phase	305,072	\$20.38	\$6,217,374	\$20.38	\$6,217,374
TOD Bills					
Limited Unmetered Service	68,921	\$6.71	\$462,463	\$4.92	\$339,093
One-phase	10,163	\$20.43	\$207,634	\$20.53	\$208,650
Three-phase	1,452	\$40.84	\$59,289	\$41.04	\$59,579
6M		\$6.71	\$0	\$6.05	\$0
Access Charge					
Summer Bills	519,419			\$14.68	\$7,625,076
Winter Bills	1,039,075			\$14.68	\$15,253,614
TOD Bills	11,615			\$14.68	\$170,507
Low Income Charge	1,579,157	\$0.05	\$78,958	\$0.05	\$78,958
Total Bills	1,648,078				
Energy Charge					
Summer kWh	1,139,509,845	\$0.1081	\$123,181,014	0.1086	\$123,750,769
On-peak	12,366,350	\$0.1605	\$1,984,799	0.1613	\$1,994,692
Off-peak	22,092,838	\$0.0654	\$1,444,872	0.0657	\$1,451,499
Energy Eff Charge	1,172,494,286	\$0.0004	\$468,998	0.0003	\$351,748
Winter kWh					
Base	1,688,639,623	\$0.0806	\$136,104,354	0.0810	\$136,779,809
Seasonal	429,806,503	\$0.0465	\$19,986,002	0.0467	\$20,071,964
On-peak	23,568,902	\$0.1057	\$2,491,233	0.1062	\$2,503,017
Off-peak	43,406,981	\$0.0485	\$2,105,239	0.0487	\$2,113,920
Energy Eff Charge	2,181,731,259	\$0.0002	\$436,346	0.0002	\$436,346
Total kWh	3,359,391,042	Total	\$309,645,053		\$333,760,575 (\$153,341)
	Total		\$309,645,053	Total	\$333,760,575
	Low Income Charge		\$78,958	Low Income	\$78,958
	Total less Low Inc		\$309,566,095	Total less Low Inc	\$333,681,617