## EXHIBITS SUPPORTING AMEREN MISSOURI RESPONSIVE COMMENTS, FILE NO. OX-2025-0104

Exhibit No.:014Issue(s):AMS ChargesWitness:John J. ReedType of Exhibit:Direct TestimonySponsoring Party:Union Electric CompanyFile No.:ER-2019-0335Date Testimony Prepared:July 3, 2019

## **DIRECT TESTIMONY**

OF

## JOHN J. REED

## **ON BEHALF OF**

## **AMEREN MISSOURI**

July 2019

EXHIBIT A

1	Q.	Can you provide examples of services that AMS has outsourced, on behalf of Ameren
2		Missouri, to a non-affiliated service provider?
3	A.	Yes. Examples of services outsourced by AMS, on behalf of Ameren Missouri, include
4		lock box services, printing and distribution of customer bills, certain vegetation
5		management services, and janitorial services.
6		VI. HISTORICAL COST ANALYSIS
7	Q.	Have you prepared an analysis of how Ameren Missouri's customers have benefited
8		from the formation of AMS?
9	A.	Yes. An analysis of Union Electric's administrative and general ("A&G") expense levels
10		from 1999 to 2018 was prepared to determine if its customers have benefited from the
11		formation of AMS concurrent with the merger with CIPS, CILCO and IP. In 2018, 96%
12		of the dollars allocated to the Ameren Missouri electric distribution business from AMS
13		were booked to administrative and general expenses.
14	Q.	Please explain the analysis.
15	A.	Starting with data from 1990, the reported A&G expense levels were collected as reported
16		in FERC Form 1s. As previously mentioned, UE & CIPS merged in 1997. From that point
17		forward, the historical actual expense levels were escalated using the gross domestic
18		product implicit price deflator for each year through 2018.
19		The same analysis was performed for the acquisition of CILCO in 2003 and Illinois
20		Power in 2004.
21		As shown in Schedule JJR-D4, the A&G cost levels for the merged companies are
22		consistently lower than the sum of the individual stand-alone operating companies'

1		escalated A&G expense levels. This indicates that the merged companies, including AMS'
2		allocated costs, are lower than they would likely have been absent the mergers.
3	Q.	Have you also performed an assessment of Ameren Missouri's costs compared to
4		those of similar utilities?
5	A.	Yes. I compared Ameren Missouri's total non-fuel operations and maintenance ("O&M")
6		expense and administrative and general ("A&G") expense against three peer groups:
7		1. National Electric Utilities with regulated generation;
8		2. Midwest Electric Utilities with regulated generation; and
9		3. National Electric Utilities with regulated generation and 500,000 to 2,000,000
10		customers.
11	Q.	What years did the benchmarking analyses review?
12	A.	The five most recent years for which data were available (i.e., 2014-2018) were used to
13		perform the analyses.
14	Q.	What was the source of the data used to perform the benchmarking analyses?
15	A.	The analysis utilized data obtained from the S&P Global Market Intelligence platform.
16		The source of the data was the annual FERC Form 1 filings made by electric utilities.
17	Q.	Did you make any adjustments to the source data?
18	A.	No.
19	Q.	How did you normalize the benchmarking analyses to account for differences in the
20		size of the utilities?
21	A.	To normalize issues related to the size of the companies in the comparison, all costs were
22		evaluated on a per customer basis.

1	Q.	How many companies were included in electric utilities with regulated generation
2		group?
3	A.	There were 52 utilities including Ameren Missouri.
4	Q.	How did Ameren Missouri compare to its peers when reviewing total non-fuel O&M
5		cost per customer of the national electric utilities with regulated generation peer
6		group?
7	A.	As shown on Schedule JJR-D5, Ameren Missouri has had below (i.e., better than) the
8		national average non-fuel O&M costs in every year of the analysis. Over the five-year
9		period, Ameren Missouri's costs have also increased at about one half of the rate that
10		national average costs grew.
11	Q.	How did Ameren Missouri compare to its peers when reviewing just the A&G portion
12		of these O&M expenses on a per customer basis?
13	A.	As shown on Schedule JJR-D6, out of the 52 companies in the peer group, Ameren
14		Missouri's A&G expense per customer has shown a dramatic improvement on both an
15		absolute and relative basis over the past five years. In 2014, Ameren Missouri's A&G cost
16		per customer was 4.5% above the national average, but by 2018 they were 18.5% below
17		the national average.
18	Q.	Does this significant improvement come as a surprise to you?
19	A.	No, it does not. At the end of 2012, Ameren Services formed a new Continuous
20		Improvement Integration group that focused on identifying opportunities to reduce costs,
21		improve productivity, improve reliability, improve customer satisfaction, or increase
22		revenue across Ameren. The department leverages the results of benchmarking studies, as

23		A&G portion of O&M expense?
22	Q.	When compared to the larger companies, how did Ameren Missouri look for just the
21		smaller subset of 21 other larger utilities, Ameren Missouri is performing well.
20		levels for total non-fuel O&M in each of the last three years. Even when compared to the
19	A.	As shown on Schedule JJR-D9, Ameren Missouri achieved slightly below-average cost
18		compare to the national averages?
17		economies of scale as AMS has been able to achieve, how does Ameren Missouri
16	Q.	When the comparisons are limited to the larger utilities, which presumably have
15		of time.
14		Continuous Improvement Plan and shows a high level of productivity gains over that period
13		widening over the past five years. Again, this shows very substantial benefits from AMS'
12		28% below the regional average in 2018, and its performance gap over its peers had been
11	A.	As shown on Schedule JJR-D8, Ameren Missouri's A&G cost per customer was more than
10		expense per customer?
9	Q.	How did Ameren Missouri compare to its Midwest peers when reviewing A&G
8		basis of comparison, Ameren Missouri is a top performer.
7		below the average for Midwest utilities for total non-fuel O&M costs in 2018. On this
6		utilities. As shown on Schedule JJR-D7, Ameren Missouri posted results that were 25%
5	A.	No, in fact Ameren Missouri's costs are even more competitive when compared to Midwest
4		the east and west coasts, as opposed to Midwestern utilities?
3	Q.	Is it possible that these results are biased by the inclusion of higher-cost utilities on
2		the services and costs of the Ameren Services Business and Corporate Services group.
1		well as other techniques to help identify potential improvement projects while reviewing

A. As shown on Schedule JJR-D10, Ameren Missouri improved its A&G cost per customer in each year examined, while the peer group average increased year-over-year in three of the four year-over-year periods. In 2018, Ameren Missouri's A&G cost per customer was at the peer group average. This improvement again shows the focus that AMS has had on continuous improvement.

6

## Q. What can be concluded from the results of this analysis?

A. As a result of the mergers of Union Electric, CIPS, CILCO, and IP, the Company has been 7 8 able to drive down costs of the business. The source of reduced costs is from the consolidation of common corporate and A&G functions which now reside at AMS. These 9 savings result from the elimination of duplicative positions (e.g., a CEO and CFO and 10 Treasurer at each operating company, multiple CIOs, multiple General Counsels, etc.), as 11 well as economies of scale attributable to the provisioning of services by a smaller number 12 of employees than the four individual companies could have achieved. In addition, AMS 13 and Ameren Missouri have had a successful continuous improvement campaign over the 14 past six years that has brought Ameren Missouri's largest measure of cost, Total Non-Fuel 15 16 O&M per customer, down to well below the peer group average levels for all three of the peer groups I have examined. These campaigns have delivered significant savings for 17 customers, while maintaining compensation at competitive levels for employees working 18 19 at AMC subsidiaries.

## 20 Q. Based upon your review of AMS and the services that it provides to its affiliated 21 companies, what are your observations and conclusions?

22 A. My observations and conclusions are as follows:

Direct Testimony of John J. Reed

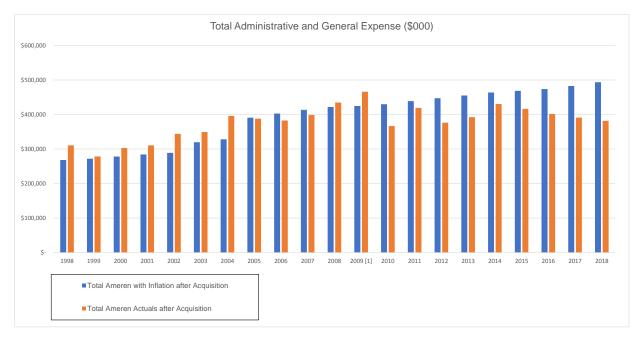
7	Q.	Do	es this conclude your direct testimony?
6			provided by, AMS.
5		•	Customers of Ameren Missouri have benefited from the existence of, and services
4			other utility shared services companies with which I am familiar;
3		•	The scope of services offered by AMS to its affiliated companies is consistent with
2			with utility industry practices;
1		•	The use of a shared services organizations, such as AMS, is reasonable and consistent

8 A. Yes, it does.

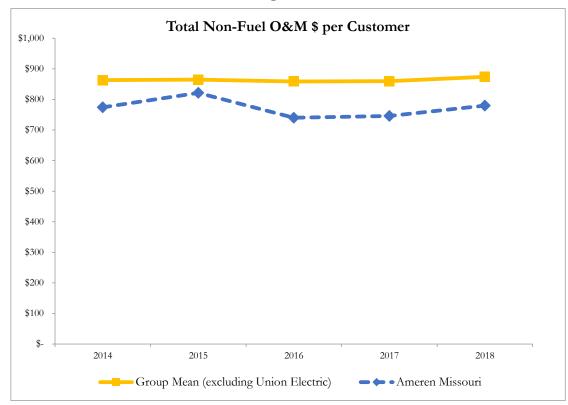
#### Total Administrative and General (\$000)

#### Inflated after Acquisition

•	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 [1]	2010	2011	2012	2013	2014	2015	2016	2017	2018
Union Electric	199,146	201,386	204,292	208,861	213,453	216,826	220,840	226,784	233,851	240,938	247,408	252,241	254,151	257,104	262,477	267,516	272,204	277,348	280,325	283,386	288,771	295,278
CIPS (merger completed 12/31/1997)	66,040	66,783	67,747	69,262	70,784	71,903	73,234	75,205	77,549	79,899	82,045	83,647	84,280	85,260	87,042	88,713	90,267	91,973	92,960	93,975	95,761	97,919
CILCO (acquisition closed 1/31/2003)	27,607	27,500	55,274	16,810	18,876	25,074	25,538	26,226	27,043	27,862	28,611	29,169	29,390	29,732	30,353	30,936	31,478	32,073	32,417	32,771	33,394	34,146
IP (acquisition closed 9/30/2004)	76,303	86,538	86,766	71,635	47,579	46,025	58,861	49,599	52,521	54,113	55,566	56,651	57,080	57,744	58,950	60,082	61,135	62,290	62,959	63,647	64,856	66,317
Total Ameren with Inflation after Acquisition	199,146	268,169	272,039	278,123	284,237	288,729	319,612	328,215	390,964	402,812	413,630	421,708	424,902	429,839	438,822	447,246	455,085	463,684	468,662	473,780	482,782	493,661
Actuals Union Electric CIPS (merger completed 12/31/1997) CILCO (acquisition closed 1/31/2003) IP (acquisition closed 9/30/2004) Ameren Illinois	199,146 66,040 27,607 76,303	235,628 74,783 27,500 86,538	192,515 85,870 55,274 86,766	244,247 58,680 16,810 71,635	249,441 61,203 18,876 47,579	25,074 46,025	246,451 51,665 51,181 58,861	231,682 52,737 61,881 49,599	243,224 41,305 36,057 67,543	245,282 39,765 30,052 67,716	265,020 39,944 32,037 61,571	272,687 47,871 27,610 86,449	77,172	240,384 126,171	275,201 143,958	236,903 139,418	251,904 <u>140,454</u>	278,701 151,672	264,623 151,661	251,783 149,707	157,181	235,012 <u>146,610</u>
Total Ameren Actuals after Acquisition	199,146	310,411	278,385	302,927	310,644	344,013	349,297	395,899	388,129	382,815	398,572	434,617	466,092	366,555	419,159	376,321	392,358	430,373	416,284	401,490	391,231	381,622

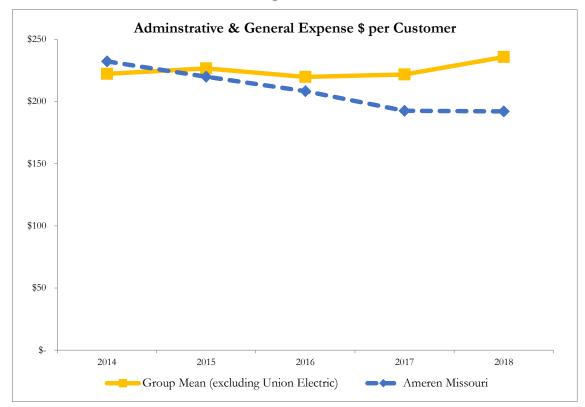


NOTES [1] Amount for CILCO in 2009 ties to the Form 1 which includes \$57,483 of intercompany billings recorded in account 921. In the Company's filing in Docket #12-0001, that amount was excluded.



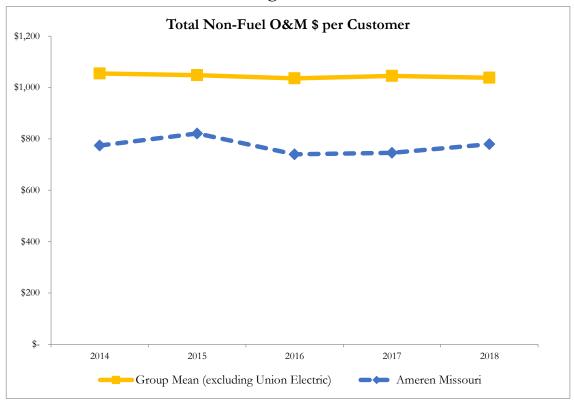
## National Electric Utilities With Regulated Generation

Total Non-Fuel O8	kM \$ per	Custome	er								
Annual Values											
	2014	2015	2016	2017	2018						
Ameren Missouri	774	821	740	746	779						
Group Mean (excluding Union Electric)	863	865	859	859	874						
Rank	tings										
	2014	2015	2016	2017	2018						
National Electric Utilities With Regulated Generation											
Ameren Missouri	25	28	19	18	23						
Quartile	2	3	2	2	2						
Total Ranked	52	52	52	52	52						



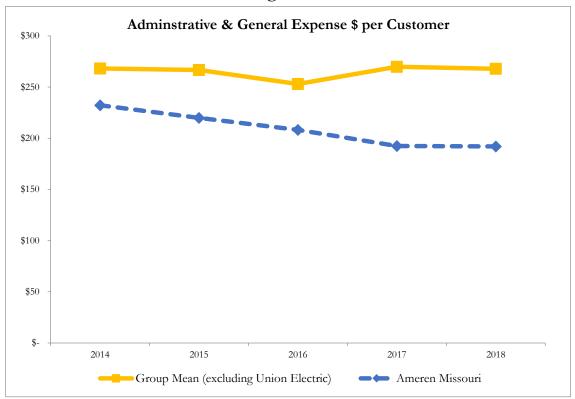
## National Electric Utilities With Regulated Generation

Adminstrative & Gene	ral Expense	\$ per Cu	istomer								
Annual Values											
	2014	2015	2016	2017	2018						
Ameren Missouri	232	220	208	193	192						
Group Mean (excluding Union Electric)	222	227	220	222	236						
R	ankings										
	2014	2015	2016	2017	2018						
Electric - Utilities, With Regulated Generation											
Ameren Missouri	30	30	30	26	22						
Quartile	3	3	3	2	2						
Total Ranked	52	52	52	52	52						



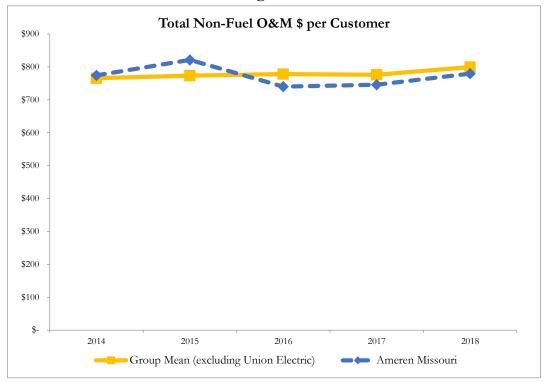
## **Midwest Electric Utilities With Regulated Generation**

Total Non-Fuel O8	&M \$ per	Custome	er								
Annual Values											
	2014	2015	2016	2017	2018						
Ameren Missouri	774	821	740	746	779						
Group Mean (excluding Union Electric)	1,055	1,048	1,036	1,045	1,038						
Rank	tings										
	2014	2015	2016	2017	2018						
Midwest Electric Utilities With Regulated Generation											
Ameren Missouri	6	6	1	1	4						
Quartile	2	2	1	1	1						
Total Ranked	18	18	18	18	18						



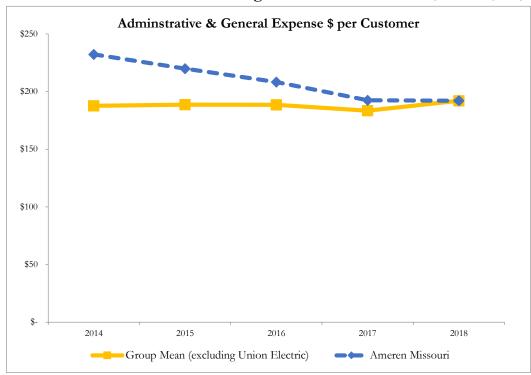
## **Midwest Electric Utilities With Regulated Generation**

Adminstrative & General	Expense	\$ per Cu	istomer								
Annual Values											
	2014	2015	2016	2017	2018						
Ameren Missouri	232	220	208	193	192						
Group Mean (excluding Union Electric)	268	267	253	270	268						
Rank	ings										
	2014	2015	2016	2017	2018						
Electric - Midwest Utilities With Regulated Generation											
Ameren Missouri	7	6	7	5	5						
Quartile	2	2	2	2	2						
Total Ranked	18	18	18	18	18						



## National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

Total Non-Fue	el O&M \$ per	Custome	er								
Annual Values											
	2014	2015	2016	2017	2018						
Ameren Missouri	774	821	740	746	779						
Group Mean (excluding Union Electric)	766	773	778	776	800						
	Rankings										
	2014	2015	2016	2017	2018						
National Electric Utilities With Regulated Generati	ion & 500,000 to 2	,000,000 Ci	ustomers								
Ameren Missouri	12	14	10	9	11						
Quartile	3	3	2	2	3						
Total Ranked	21	21	21	21	21						



## National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

Adminstrative & Gen	neral Expense	\$ per Cu	istomer									
Annual Values												
	2014	2015	2016	2017	2018							
Ameren Missouri	232	220	208	193	192							
Group Mean (excluding Union Electric)	188	189	189	183	192							
	Rankings											
	2014	2015	2016	2017	2018							
National Electric Utilities With Regulated Generat	ion & 500,000 to 2	2,000,000 C	lustomers									
Ameren Missouri	16	15	15	13	11							
Quartile	4	3	3	3	3							
Total Ranked	21	21	21	21	21							

Exhibit No.: Issue(s): Affiliate Transactions Witness: John J. Reed Type of Exhibit: Direct Testimony Sponsoring Party: Union Electric Company File No.: ER-2021-0240 Date Testimony Prepared: March 31, 2021

### **DIRECT TESTIMONY**

## OF

## JOHN J. REED

## **ON BEHALF OF**

## UNION ELECTRIC COMPANY

## d/b/a AMEREN MISSOURI

Marlborough, Massachusetts March, 2021

EXHIBIT B

1		VI. HISTORICAL COST ANALYSIS
2	Q.	Have you prepared an analysis of how Ameren Missouri's customers have
3		benefited from the formation of AMS?
4	A.	Yes. An analysis of Ameren Missouri's administrative and general ("A&G")
5		expense levels from 1999 to 2019 was prepared to determine if its customers have
6		benefited from the formation of AMS concurrent with the merger with CIPS,
7		CILCO and IP. In 2019, 91% of the operation and maintenance expense dollars
8		allocated to the Ameren Missouri electric distribution business from AMS included
9		within revenue requirement were booked to administrative and general expenses.
10	Q.	Please explain the analysis.
11	А.	Starting with data from 1990, the reported A&G expense levels were collected as
12		reported in FERC Form 1s. As previously mentioned, UE & CIPS merged in 1997.
13		From that point forward, the historical actual expense levels were escalated using
14		the gross domestic product implicit price deflator for each year through 2019.
15		The same analysis was performed for the acquisition of CILCO in 2003 and Illinois
16		Power in 2004.
17		As shown in Schedule JJR-D3, the A&G cost levels for the merged companies are
18		consistently lower than the sum of the individual stand-alone operating companies'
19		escalated A&G expense levels. This indicates that the merged companies,
20		including AMS' allocated costs, are lower than they would likely have been absent
21		the mergers.
22	Q.	Have you also performed an assessment of Ameren Missouri's costs compared
23		to those of similar utilities?

1	А.	Yes. I updated the benchmarking analysis performed in File No. ER-2019-0335 to
2		include an analysis of 2019. I compared Ameren Missouri's total non-fuel
3		operations and maintenance ("O&M") expense and A&G expense against three
4		peer groups:
5		1. National Electric Utilities with regulated generation;
6		2. Midwest Electric Utilities with regulated generation; and
7		3. National Electric Utilities with regulated generation and 500,000 to 2,000,000
8		customers.
9	Q.	What years did the benchmarking analyses review?
10	A.	The six most recent years for which data were available (i.e., 2014-2019) were used
11		to perform the analyses. This represents the years reviewed in File No. ER-2019-
12		0335 updated with current data and 2019 added to the analyses.
13	Q.	What was the source of the data used to perform the benchmarking analyses?
14	A.	The analyses utilized data obtained from the S&P Global Market Intelligence
15		platform. The source of the data was the annual FERC Form 1 filings made by
16		electric utilities.
17	Q.	Did you make any adjustments to the source data?
18	A.	No.
19	Q.	How did you normalize the benchmarking analyses to account for differences
20		in the size of the utilities?
21	A.	To normalize issues related to the size of the companies in the comparison, all costs
22		were evaluated on a per customer basis.

1	Q.	How did Ameren Missouri compare to its peers when reviewing total non-fuel
2		O&M cost per customer of the national electric utilities with regulated
3		generation peer group?
4	A.	As shown on Schedule JJR-D4, Ameren Missouri has had below (i.e., better than)
5		the national average non-fuel O&M costs in all six years analyzed. Ameren
6		Missouri's total non-fuel O&M cost per customer was 7.5% below the national
7		average in 2019.
8	Q.	How did Ameren Missouri compare to its peers when reviewing just the A&G
9		portion of these O&M expenses on a per customer basis?
10	A.	As shown on Schedule JJR-D5, Ameren Missouri's A&G expense per customer
11		has shown a dramatic improvement on both an absolute and relative basis over the
12		past six years. In 2014, Ameren Missouri's A&G cost per customer was 6.3%
13		above the national average, but by 2019 they were 18.5% below the national
14		average.
15	Q.	Is it possible that these results are biased by the inclusion of higher-cost
16		utilities on the east and west coasts, as opposed to Midwestern utilities?
17	A.	No, in fact Ameren Missouri's costs are even more competitive when compared to
18		Midwest utilities. As shown on Schedule JJR-D6, Ameren Missouri posted results
19		that were 17.8% below the average for Midwest utilities for total non-fuel O&M
20		costs in 2019 and has been considerably below the regional average each year
21		analyzed. On this basis of comparison, Ameren Missouri is a top performer.

## 1 Q. How did Ameren Missouri compare to its Midwest peers when reviewing A&G

- 2 **expense per customer?**
- A. As shown on Schedule JJR-D7, Ameren Missouri's A&G cost per customer was
  more than 25% below the regional average in 2019, and its performance advantage
  over its peers had been widening over the past six years.
- Q. When the comparisons are limited to the larger utilities, which presumably
  have economies of scale as AMS has been able to achieve, how does Ameren
  Missouri compare to the national averages?
- A. As shown on Schedule JJR-D8, when compared to national electric utilities with
  regulated generation and between 500,000 and 2 million customers, Ameren
  Missouri achieved slightly lower-than-average cost levels for total non-fuel O&M
  in 2019 and has achieved slightly lower-than-average cost levels for total non-fuel
  O&M each year since 2016. Even when compared to the smaller subset of 21 other
- 14 large utilities, Ameren Missouri is performing well.

# Q. When compared to the larger companies, how did Ameren Missouri look for just the A&G portion of O&M expense?

A. As shown on Schedule JJR-D9, Ameren Missouri improved its A&G cost per
customer in each year examined, while the peer group average remained consistent
during the same period. In 2019, Ameren Missouri's A&G cost per customer was
below the large company peer group average by 6.9%.

## 21 Q. What can be concluded from the results of these analyses?

A. As a result of the mergers of Union Electric, CIPS, CILCO, and IP, the Company
has been able to drive down costs of the businesses. The source of reduced costs is

## The Direct Testimony of John J. Reed

from the consolidation of common corporate and A&G functions which now reside 1 at AMS. These savings result from the elimination of duplicative positions (e.g., a 2 CEO and CFO and Treasurer at each operating company, multiple CIOs, multiple 3 General Counsels, etc.) as well as economies of scale attributable to the 4 provisioning of services by a smaller number of employees than the four individual 5 6 companies could have achieved separately. In addition, AMS and Ameren Missouri engage in continuous improvement efforts that should be expected to 7 contribute to bringing down Ameren Missouri's largest measure of controllable 8 9 cost, Total Non-Fuel O&M per customer, which is in fact well below the peer group average levels for all three of the peer groups I have examined. The numbers 10 indicate that these efforts have delivered significant savings for customers, while 11 maintaining compensation at competitive levels for employees working at AMC 12 subsidiaries. 13

14 Q. Have you expanded the benchmarking?

A. Yes. I have done some additional benchmarking to further assess Ameren
 Missouri's financial and operational performance.

In general, what steps did you take in constructing this additional
 benchmarking analysis?

A. The first step of the benchmarking analysis was to define the timeframe over which
the analysis was to be performed. The second step was to develop the composition
of the peer group used to compare to Ameren Missouri. The third step was to define
the financial and operational metrics to be used in the benchmarking and to collect
the necessary data to evaluate these metrics.

## Q. How did you select the companies to include in your benchmarking peer group?

A. My objective in determining the peer group was to achieve the largest group of companies for which consistent data were available and which were, broadly speaking, operationally similar to Ameren Missouri. Because Ameren Missouri is a large primarily electric utility with ownership in generating resources, I established a peer group of companies with electric-only utility operations that have between 500,000 and 2 million customers and own generating resources. This produced a peer group of 21 comparable companies.

## Q. What data sources did you rely on for the performance metrics that you developed?

- A. I obtained much of the data from FERC Form 1 and U.S. Securities and Exchange
  Commission ("SEC") Form 10-K reports (as reported by SNL Financial).
- Q. What metrics did you use to assess Ameren Missouri's financial and
   operational performance?
- A. I evaluated Ameren Missouri's performance across a variety of financial and
   operational metrics to evaluate the Company's cost efficiency.
- 18 Regarding cost efficiency the ability to maximize output and minimize costs, I
   19 considered expense performance metrics:
- 20• Total Non-Fuel O&M expenses
- Non-Fuel Production O&M expenses
  - Transmission O&M expenses

22

23

• Distribution O&M expenses

1		• Administrative and General ("A&G") expenses
2		• Customer expenses
3	Q.	Did the metrics account for companies of different sizes?
4	A.	Yes. Most metrics are calculated on an expense per customer or an expense per
5		MWh sold basis.
6	Q.	Have you provided the results of the expense performance metrics?
7	A.	Yes. Schedule JJR-D10 thru Schedule JJR-D23 provides the results of each of the
8		expense performance metrics listed above.
9	Q.	Overall how did Ameren Missouri compare to its peers in regards to the
10		expense performance metrics?
11	A.	In reviewing the four primary operating functions (generation, transmission,
12		distribution, and customer service), and administrative and general expenses,
13		Ameren Missouri is a strong performer in controlling its expenses per customer.
14		Ameren Missouri was below the peer group mean in every year of the analysis for
15		Non-Fuel Production O&M expenses per customer and Transmission O&M
16		expenses per customer. While Ameren Missouri was above the group mean in
17		every year of the analysis for Distribution O&M expenses per customer, its ranking
18		is improving and in 2019 ranked 12th of the 21 companies in the peer group.
19		Ameren Missouri was below the peer group mean in Administrative and General
20		expenses per customer in 2018 and 2019 and Ameren Missouri improved its A&G
21		cost per customer in each year examined, while the peer group average remained
22		consistent during the same period.

# Q. Which metrics provide the best indication of Ameren Missouri's overall performance relative to the peer groups?

While each metric is significant and may help identify particular areas of strength 3 A. or weakness, the best indication of Ameren Missouri's overall level of performance 4 in terms of cost control, which also provides a good indication of the reasonableness 5 6 of AMS costs since it provides significant services to Ameren Missouri, is Total Non-Fuel O&M expenses per customer. This category covers all four primary 7 operating functions (generation, transmission, distribution, and customer service), 8 9 and includes all administrative and general functions which, as noted, make up nearly all AMS costs. Further, this metric has the advantage of removing the effects 10 of differences in fuel costs, which can vary due to availability, location, and state 11 or local environmental policies. 12

# Q. Please discuss how Ameren Missouri compares to its peers in regards to the Total Non-Fuel O&M expense metric.

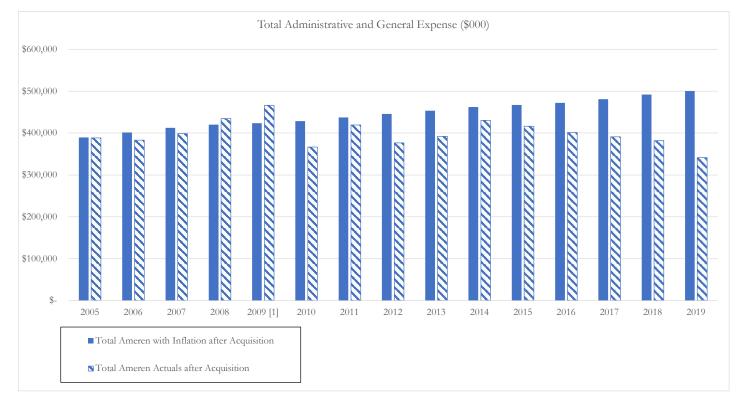
A. Ameren Missouri's performance controlling its non-fuel O&M expense per
 customer and per MWh sold is strong in each year of my analysis coming in below
 the peer group average in the four most recent years in the per customer analysis
 and right around the peer group average for each year in the per MWh sold analysis.

## 19 VII. REQUIREMENTS FROM STIPULATION IN FILE NO. ER-2019-0335

- Q. Please summarize the information concerning affiliate transactions that
   Ameren Missouri agreed to provide per the Second Stipulation in Ameren
   Missouri's most recent electric rate case, File No. ER-2019-0335.
- 23 A. Ameren Missouri agreed to file or provide the following items:

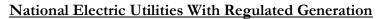
### Total Administrative and General (\$000)

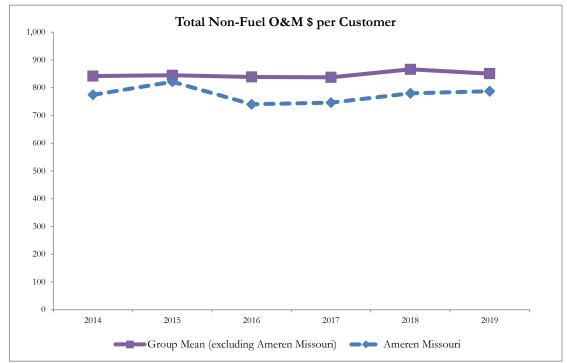
Inflated after Acquisition															
	2005	2006	2007	2008	2009 [1]	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Union Electric	233,851	240,938	247,408	252,241	254,151	257,104	262,477	267,516	272,204	277,348	280,325	283,386	288,771	295,278	300,321
CIPS (merger completed 12/31/1997)	77,549	79,899	82,045	83,647	84,280	85,260	87,042	88,713	90,267	91,973	92,960	93,975	95,761	97,919	99,591
CILCO (acquisition closed 1/31/2003)	27,043	27,862	28,611	29,169	29,390	29,732	30,353	30,936	31,478	32,073	32,417	32,771	33,394	34,146	34,730
IP (acquisition closed 9/30/2004)	51,145	52,695	54,110	55,166	55,584	56,230	57,405	58,507	59,533	60,633	61,213	61,854	63,016	64,530	65,682
Total Ameren with Inflation after Acquisition	389,588	401,394	412,173	420,223	423,406	428,326	437,277	445,672	453,482	462,027	466,915	471,987	480,942	491,873	500,324
Actuals															
Union Electric	243,224	245,282	265,020	272,687	250,628	240,384	275,201	236,903	251,904	278,701	264,623	251,783	234,050	235,012	214,437
CIPS (merger completed 12/31/1997)	41,305	39,765	39,944	47,871	40,468										
CILCO (acquisition closed 1/31/2003)	36,057	30,052	32,037	27,610	97,824										
IP (acquisition closed 9/30/2004)	67,543	67,716	61,571	86,449	77,172										
Ameren Illinois						126,171	143,958	139,418	140,454	151,672	151,661	149,707	157,181	146,610	126,801
Total Ameren Actuals after Acquisition	388,129	382,815	398,572	434,617	466,092	366,555	419,159	376,321	392,358	430,373	416,284	401,490	391,231	381,622	341,238



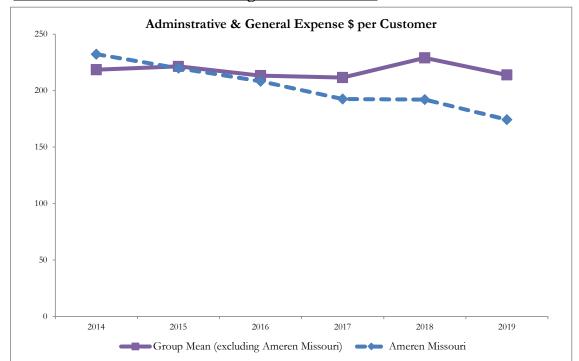
### NOTES

[1] Amount for CILCO in 2009 ties to the Form 1 which includes \$57,483 of intercompany billings recorded in account 921. In the Company's filing in Docket #12-0001, that amount was excluded.

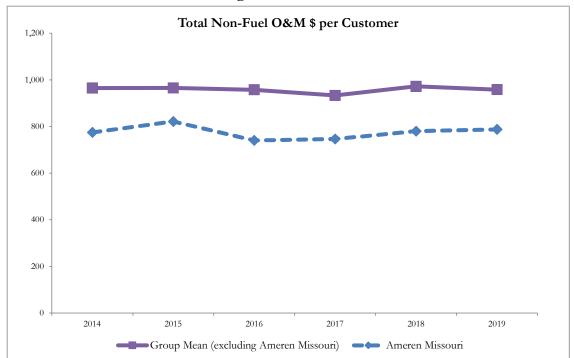




Total Non-Fu	el O&M \$	per Cus	tomer							
Annual Values										
	2014	2015	2016	2017	2018	2019				
Ameren Missouri	774	821	740	746	779	787				
Group Mean (excluding Ameren Missouri)	842	844	839	837	866	851				
	Rankings									
	2014	2015	2016	2017	2018	2019				
National Electric Utilities With Regulated Generation										
Ameren Missouri	25	28	19	19	23	23				
Quartile	2	3	2	2	2	2				
Total Ranked	50	50	50	51	51	51				

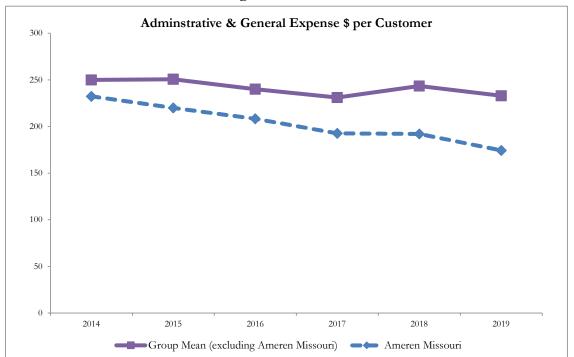


Adminstrative & Ger	neral Exp	ense \$ pe	er Custor	ner						
Annual Values										
	2014	2015	2016	2017	2018	2019				
Ameren Missouri	232	220	208	193	192	174				
Group Mean (excluding Ameren Missouri)	218	221	213	212	229	214				
	Rankings									
	2014	2015	2016	2017	2018	2019				
National Electric Utilities With Regulated Generation										
Ameren Missouri	30	30	30	26	22	20				
Quartile	3	3	3	3	2	2				
Total Ranked	50	50	50	51	51	51				



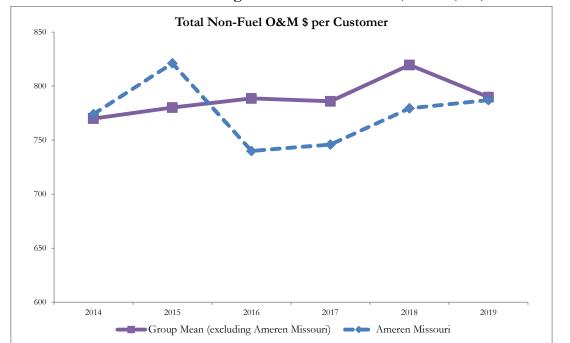
## Midwest Electric Utilities With Regulated Generation

Total Non-Fue	el O&M \$	per Cus	tomer						
Annual Values									
	2014	2015	2016	2017	2018	2019			
Ameren Missouri	774	821	740	746	779	787			
Group Mean (excluding Ameren Missouri)	964	965	957	933	972	958			
	Rankings								
	2014	2015	2016	2017	2018	2019			
Midwest Electric Utilities With Regulated Generation									
Ameren Missouri	6	6	1	2	4	3			
Quartile	2	2	1	1	1	1			
Total Ranked	16	16	16	17	17	17			



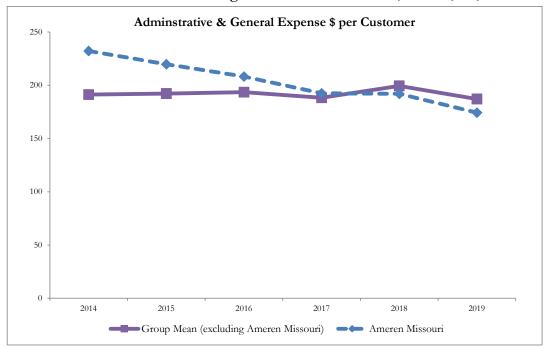
## Midwest Electric Utilities With Regulated Generation

Adminstrative & Ge	eneral Exp	ense \$ pe	er Custor	ner						
Annual Values										
	2014	2015	2016	2017	2018	2019				
Ameren Missouri	232	220	208	193	192	174				
Group Mean (excluding Ameren Missouri)	250	251	240	231	243	233				
	Rankings									
	2014	2015	2016	2017	2018	2019				
Midwest Electric Utilities With Regulated Generation										
Ameren Missouri	7	6	7	6	6	6				
Quartile	2	2	2	2	2	2				
Total Ranked	16	16	16	17	17	17				



National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

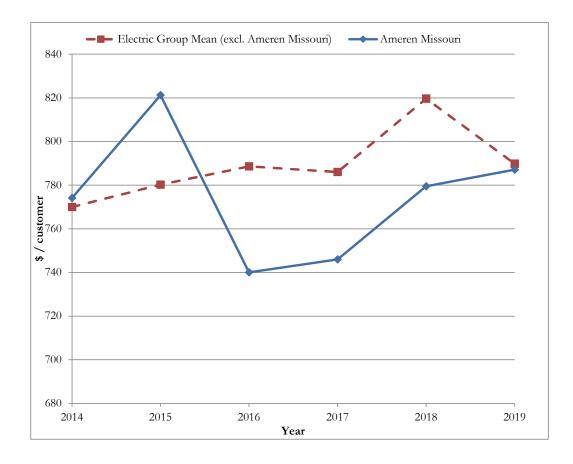
Total No	n-Fuel O&M	\$ per Cus	stomer							
Annual Values										
	2014	2015	2016	2017	2018	2019				
Ameren Missouri	774	821	740	746	779	787				
Group Mean (excluding Ameren Missouri)	770	780	789	786	820	790				
	Rankings	5								
	2014	2015	2016	2017	2018	2019				
National Electric Utilities With Regulated Generatio	n & 500,000 to 2,0	000,000 Cust	tomers							
Ameren Missouri	12	14	9	8	10	11				
Quartile	3	3	2	2	2	3				
Total Ranked	21	21	21	21	21	21				



National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

Adminstrative &	k General Exp	pense \$ p	er Custor	ner						
Annual Values										
	2014	2015	2016	2017	2018	2019				
Ameren Missouri	232	220	208	193	192	174				
Group Mean (excluding Ameren Missouri)	191	192	193	188	199	187				
	Rankings									
	2014	2015	2016	2017	2018	2019				
National Electric Utilities With Regulated Generatio	on & 500,000 to 2,	000,000 Cus	tomers							
Ameren Missouri	15	14	14	12	10	10				
Quartile	3	3	3	3	2	2				
Total Ranked	21	21	21	21	21	21				

## Total Non-Fuel O&M per Customer Cost Efficiency

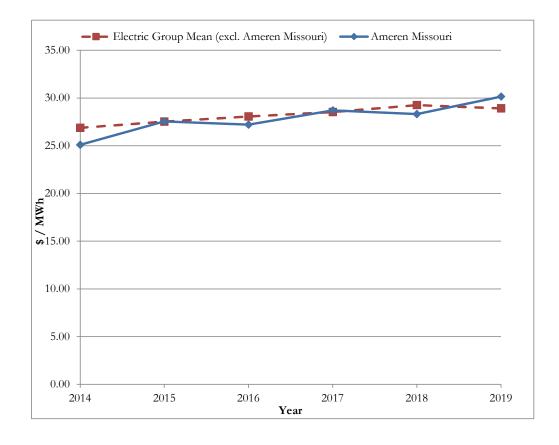


Total Non-Fuel O&M per Customer Annual Values							
Ameren Misssouri	774	821	740	746	779	787	
Electric Group Mean (excl. Ameren Missouri)	770	780	789	786	820	790	
Rankings							
	2014	2015	2016	2017	2018	2019	
Electric Group:							
Ameren Missouri	12	14	9	8	10	11	
Total Ranked	21	21	21	21	21	21	

Source: SNL Interactive, FERC Form 1

Total O&M Expenses less Fuel, Purchased Power, and Other Expenses; Ult Consumer Electric Customers

## Total Non-Fuel O&M per MWh Sold Cost Efficiency

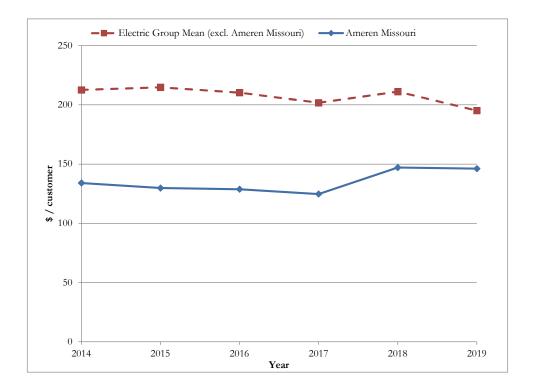


Total Non-Fuel O&M per MWh Sold Annual Values							
Ameren Missouri	25.1	27.5	27.2	28.7	28.3	30.1	
Electric Group Mean (excl. Ameren Missouri)	26.9	27.5	28.1	28.5	29.3	28.9	
Rankings							
	2014	2015	2016	2017	2018	2019	
Electric Group:							
Ameren Missouri	12	14	12	12	13	13	
Total Ranked	21	21	21	21	21	21	

Source: SNL Interactive, FERC Form 1

Total O&M Expenses less Fuel, Purchased Power, and Other Expenses; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

## Non-Fuel Production O&M (Excluding Nuclear) per Customer Cost Efficiency

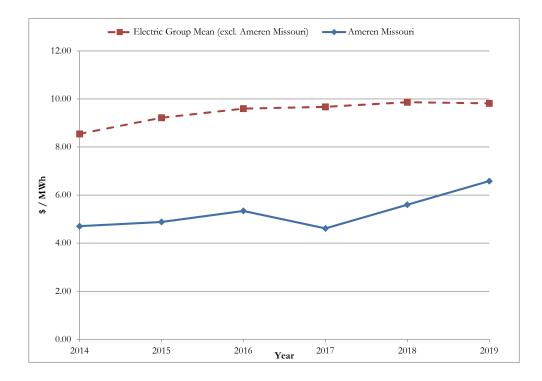


Non-Fuel Production O&M (Excluding Nuclear) per Customer							
Annual Values							
	2014	2015	2016	2017	2018	2019	
Ameren Missouri	134	130	129	125	147	146	
Electric Group Mean (excl. Ameren Missouri)	213	215	210	202	211	195	
	Ranking	rs					
	2014	2015	2016	2017	2018	2019	
Electric Group:							
Ameren Missouri	4	3	4	5	6	7	
Total Ranked	21	21	21	21	21	21	

Source: SNL Interactive, FERC Form 1

Total Power Production O&M Expenses, excluding Nuclear less fuel, Purchased Power, and Other Expenses; Total Electric Customers

### Non-Fuel Production O&M per MWh Produced (Excluding Nuclear) Cost Efficiency

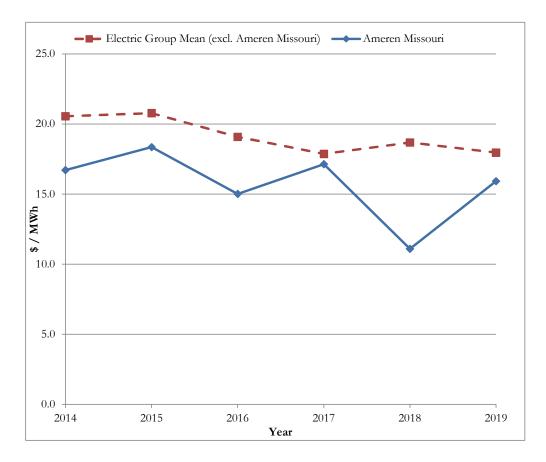


Non-Fuel Production O&M per MWh Produced (Excluding Nuclear)								
Annual Values								
	2014	2015	2016	2017	2018	2019		
Ameren Missouri	4.70	4.88	5.34	4.62	5.60	6.58		
Electric Group Mean (excl. Ameren Missouri)	8.55	9.22	9.60	9.67	9.87	9.82		
Rankings								
	2014	2015	2016	2017	2018	2019		
Electric Group:								
Ameren Missouri	1	2	2	2	4	5		
Total Ranked	21	21	21	21	21	21		

Source: SNL Interactive, FERC Form 1

Total Power Production O&M Expenses excluding Nuclear, less Fuel, Purchased Power, and Other Expenses; Total Net Generation excl Nuclear

## Non-Fuel Nuclear Production O&M per Nuclear MWh Produced Cost Efficiency

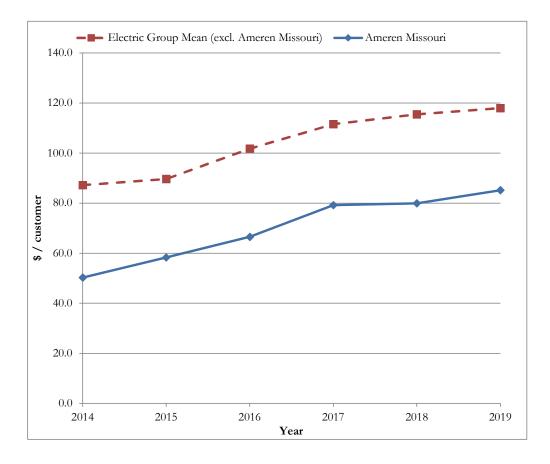


Non-Fuel Nuclear Production O&M per Nuclear MWh Produced								
Annual Values								
	2014	2015	2016	2017	2018	2019		
Ameren Missouri	16.7	18.4	15.0	17.1	11.1	15.9		
Electric Group Mean (excl. Ameren Missouri)	20.6	20.8	19.1	17.9	18.7	18.0		
Rankings								
	2014	2015	2016	2017	2018	2019		
Electric Group:								
Ameren Missouri	4	3	1	4	1	2		
Total Ranked	8	8	8	8	8	8		

Source: SNL Interactive, FERC Form 1

Non-Fuel Nuclear O&M less Fuel Expenses; Nuclear Generation (MWh)

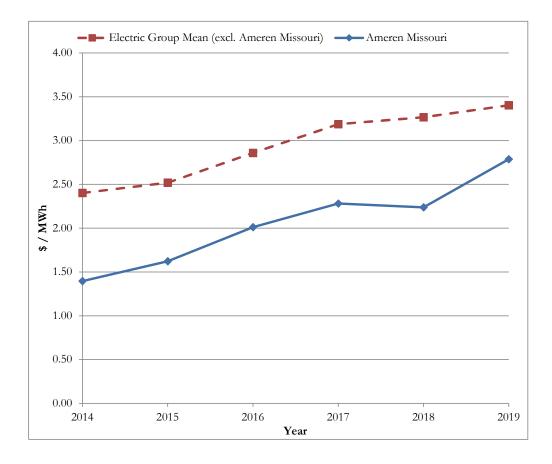
## Transmission O&M per Customer Cost Efficiency



Transmission O&M per Customer						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	50.3	58.3	66.6	79.2	80.0	85.2
Electric Group Mean (excl. Ameren Missouri)	87.2	89.6	101.7	111.5	115.5	118.0
	Ranking	<i>gs</i>				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	5	8	10	11	10	10
Total Ranked	21	21	21	21	21	21

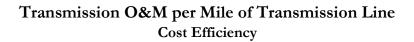
Source: SNL Interactive, FERC Form 1 Transmiss-O&M Exp; Total Electric Customers

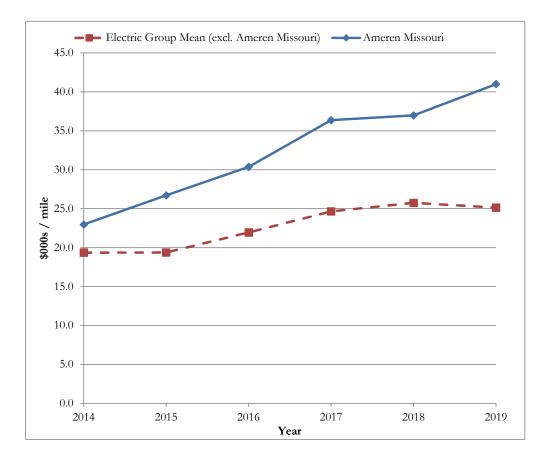
## Transmission O&M per MWh Cost Efficiency



Transmission O&M per MWh						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	1.40	1.62	2.01	2.28	2.24	2.79
Electric Group Mean (excl. Ameren Missouri)	2.40	2.52	2.86	3.19	3.27	3.40
	Ranking	gs				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	8	8	9	8	8	10
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1 Transmiss-O&M Exp; Total Electricity Sales Vol

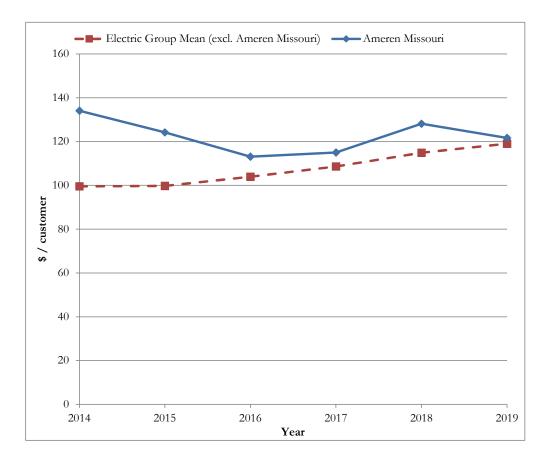




Transmission O&M per Mile of Transmission Line						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	23.0	26.7	30.4	36.4	37.0	41.0
Electric Group Mean (excl. Ameren Missouri)	19.4	19.4	22.0	24.7	25.8	25.1
	Ranking	gs				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	17	18	16	17	17	16
Total Ranked	21	21	21	21	21	21

Transmiss-O&M Exp (\$000); Length of Transmission Lines (Miles)

## Distribution O&M per Customer Cost Efficiency

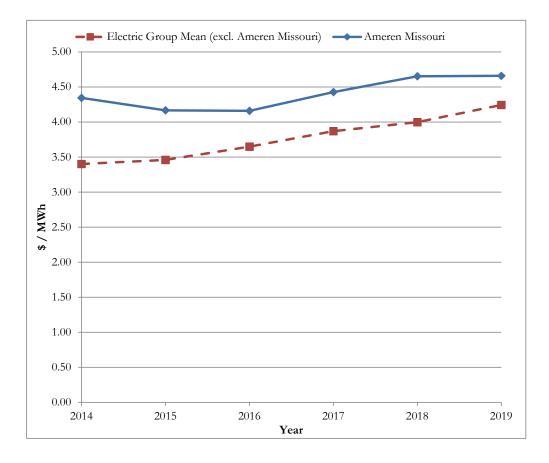


Distribution O&M per Customer						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	134	124	113	115	128	122
Electric Group Mean (excl. Ameren Missouri)	100	100	104	109	115	119
	Ranking	<i>gs</i>				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	20	18	14	13	14	12
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1

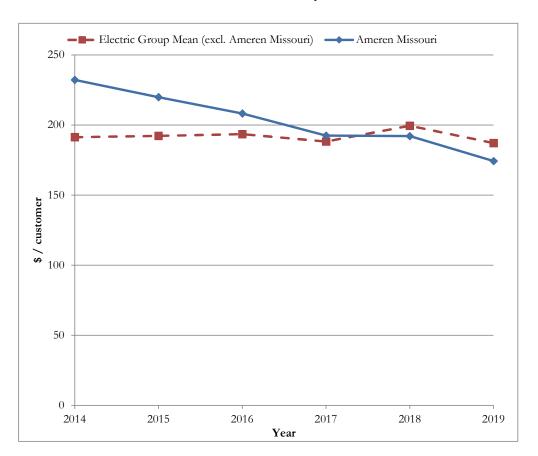
Distr-O&M Exp; Ult Consumer Electric Customers





Distribution O&M per MWh						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	4.35	4.17	4.16	4.43	4.65	4.66
Electric Group Mean (excl. Ameren Missouri)	3.40	3.46	3.65	3.87	4.00	4.24
	Ranking	gs				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	20	18	17	16	18	15
Total Ranked	21	21	21	21	21	21

Distr-O&M Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

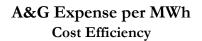


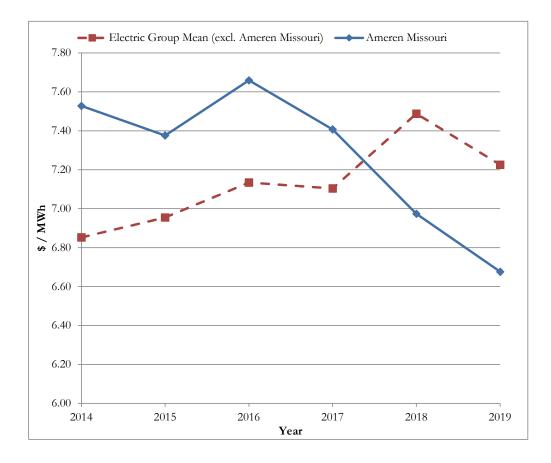
## A&G Expense per Customer Cost Efficiency

A&G Expense per Customer						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	232	220	208	193	192	174
Electric Group Mean (excl. Ameren Missouri)	191	192	193	188	199	187
	Ranking	<i>gs</i>				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	15	14	14	12	10	10
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1

A&G-O&M Exp; Ult Consumer Electric Customers

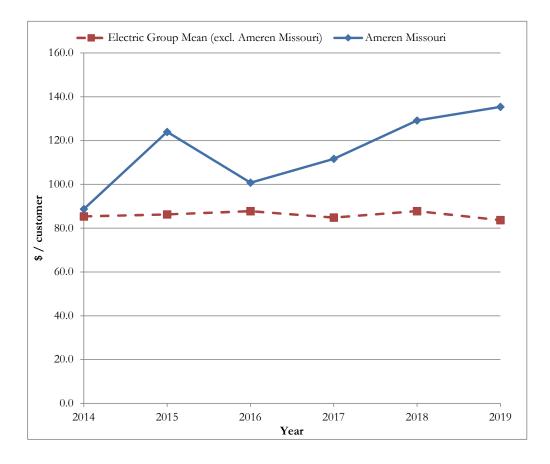




A&G Expense per MWh						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	7.53	7.38	7.66	7.41	6.97	6.68
Electric Group Mean (excl. Ameren Missouri)	6.85	6.96	7.13	7.10	7.49	7.23
	Ranking	<i>gs</i>				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	15	14	14	14	12	12
Total Ranked	21	21	21	21	21	21

A&G-O&M Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

## Customer Expense per Customer Cost Efficiency

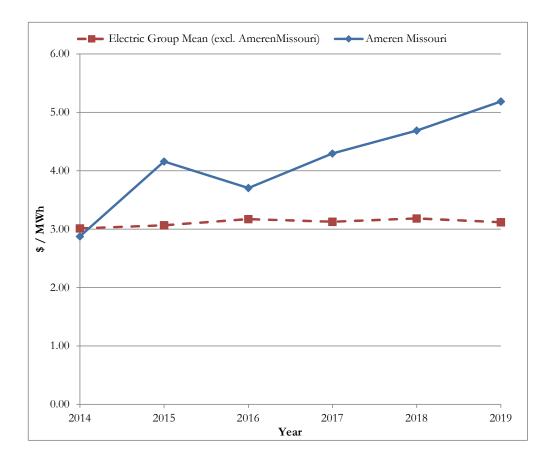


Customer Expense per Customer						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	88.7	124.0	100.8	111.7	129.1	135.4
Electric Group Mean (excl. Ameren Missouri)	85.4	86.2	87.8	84.8	87.8	83.7
	Rankin	gs				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	11	20	15	18	20	20
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1

Customer Accounts Exp; Customer Service and Info Exp; Sales Exp; Ult Consumer Electric Customers

## Customer Expense per MWh Cost Efficiency



Customer Expense per MWh						
Annual Values						
2014 2015 2016 2017 2018 2019						
Ameren Missouri	2.88	4.16	3.71	4.30	4.69	5.19
Electric Group Mean (excl. Ameren Missouri)	3.01	3.07	3.17	3.13	3.18	3.12
	Ranking	gs				
	2014	2015	2016	2017	2018	2019
Electric Group:						
Ameren Missouri	13	17	12	17	19	21
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1

Customer Accounts Exp; Customer Service and Info Exp; Sales Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

Exhibit No.: Issue(s): Affiliate Transactions Witness: John J. Reed Type of Exhibit: Direct Testimony Sponsoring Party: Union Electric Company File No.: ER-2022-0337 Date Testimony Prepared: August 1, 2022

## **DIRECT TESTIMONY**

### OF

## JOHN J. REED

## **ON BEHALF OF**

## UNION ELECTRIC COMPANY

## d/b/a AMEREN MISSOURI

August 1, 2022

1		• AMS provides these services on a zero-profit basis which no other provider could do
2		on a sustainable basis;
3		• AMS provides these services to all of Ameren Missouri's regulated affiliates and no
4		regulator has, to date, found these costs to be unreasonable or imprudently incurred;
5		• AMS uses benchmarking to ensure that its costs are market-based and uses competitive
6		bidding in accordance with corporate policies for procurement; and
7		• Ameren Missouri can, if it so chooses, reduce the services it takes from AMS in given
8		areas and either self-provide a service or obtain it elsewhere.
9	Simpl	y put, these facts provide a very compelling case that selecting AMS as the service provider
10	is not	only a reasonable decision, but also the best decision that the Company can make. This
11	decisi	on by Ameren Missouri is unquestionably prudent.
12		VI. HISTORICAL COST ANALYSIS
12 13	Q.	VI. HISTORICAL COST ANALYSIS Have you prepared an analysis of how Ameren Missouri's customers have benefited
	Q.	
13	<b>Q.</b> A.	Have you prepared an analysis of how Ameren Missouri's customers have benefited
13 14		Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS?
13 14 15		Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS? Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense
13 14 15 16		Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS? Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense levels from 1999 to 2021 was prepared to determine if its customers have benefited from
13 14 15 16 17		Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS? Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense levels from 1999 to 2021 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger of CIPS, CILCO and IP. In 2021, 92%
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ol>		Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS? Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense levels from 1999 to 2021 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger of CIPS, CILCO and IP. In 2021, 92% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>		Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS? Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense levels from 1999 to 2021 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger of CIPS, CILCO and IP. In 2021, 92% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric distribution business from AMS included within revenue requirement were booked to
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	A.	Have you prepared an analysis of how Ameren Missouri's customers have benefited from the formation of AMS? Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense levels from 1999 to 2021 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger of CIPS, CILCO and IP. In 2021, 92% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric distribution business from AMS included within revenue requirement were booked to administrative and general expenses.

1		forward, the historical actual expense levels were escalated using the gross domestic
2		product implicit price deflator for each year through 2021.
3		The same analysis was performed for the acquisition of CILCO in 2003 and Illinois Power
4		in 2004.
5		As shown in Schedule JJR-D3, the A&G cost levels for the merged companies are
6		consistently lower than the sum of the individual stand-alone operating companies'
7		escalated A&G expense levels. This indicates that the merged companies' costs, including
8		AMS' allocated costs, are lower than they would likely have been absent the mergers.
9	Q.	Have you also performed an assessment of Ameren Missouri's costs compared to
10		those of similar utilities?
11	A.	Yes. I updated the benchmarking analysis performed in File Nos. ER-2019-0335 and ER-
12		2021-0240 to include an analysis through 2021. I compared Ameren Missouri's total non-
13		fuel operations and maintenance ("O&M") expense and A&G expense against three peer
14		groups:
15		1. National Electric Utilities with regulated generation and greater than 50,000
16		customers;
17		2. Midwest Electric Utilities with regulated generation and greater than 50,000
18		customers; and
19		3. National Electric Utilities with regulated generation and 500,000 to 2,000,000
20		customers.
21	Q.	What years did the benchmarking analyses review?

1	A.	The six most recent years for which data were available (i.e., 2016-2021) were used to
2		perform the analyses. This represents the years reviewed in File No. ER-2019-0335 and
3		File No. ER-2021-0240 updated with current data and 2021 added to the analyses.
4	Q.	What was the source of the data used to perform the benchmarking analyses?
5	A.	The analyses utilized data obtained from the S&P Global Market Intelligence platform.
6		The source of the data was the annual FERC Form 1 filings made by electric utilities.
7	Q.	Did you make any adjustments to the source data?
8	A.	No.
9	Q.	How did you normalize the benchmarking analyses to account for differences in the
10		size of the utilities?
11	A.	To normalize issues related to the size of the companies in the comparison, all costs were
12		evaluated on a per customer basis.
13	Q.	How did Ameren Missouri compare to its peers when reviewing total non-fuel O&M
14		cost per customer of the national electric utilities with regulated generation peer
15		group? <sup>4</sup>
16	A.	As shown on Schedule JJR-D4, Ameren Missouri has had below (i.e., better than) the
17		national average non-fuel O&M costs in all six years analyzed. Ameren Missouri's total
18		non-fuel O&M cost per customer was 10.8% below the national average in 2021.
19	Q.	How did Ameren Missouri compare to its peers when reviewing just the A&G portion
20		of these O&M expenses on a per customer basis?
21	A.	As shown on Schedule JJR-D5, Ameren Missouri's A&G expense per customer has shown
22		a dramatic improvement on both an absolute and relative basis over the past six years. In

<sup>&</sup>lt;sup>4</sup> Additionally, peer group included criteria that companies must have greater than 50,000 customers.

2016, Ameren Missouri's A&G cost per customer was 3.7% below the national average,
 and by 2021 they were 29.3% below the national average.

# 3 Q. Is it possible that these results are biased by the inclusion of higher-cost utilities on 4 the east and west coasts, as opposed to Midwestern utilities?

A. No, in fact Ameren Missouri's costs are even more competitive when compared to Midwest utilities.<sup>5</sup> As shown on Schedule JJR-D6, Ameren Missouri posted results that were 24.8% below the average for Midwest utilities for total non-fuel O&M costs in 2021 and has been considerably below the regional average each year analyzed. On this basis of comparison, Ameren Missouri is a top performer.

# Q. How did Ameren Missouri compare to its Midwest peers when reviewing A&G expense per customer?

A. As shown on Schedule JJR-D7, Ameren Missouri's A&G cost per customer was more than
 37% below the regional average in 2021, and its performance advantage over its peers had
 been widening over the past six years.

## Q. When the comparisons are limited to the larger utilities, which presumably have economies of scale as AMS has been able to achieve, how does Ameren Missouri compare to the national averages?

## A. As shown on Schedule JJR-D8, when compared to national electric utilities with regulated generation and between 500,000 and 2 million customers, Ameren Missouri achieved slightly lower-than-average cost levels for total non-fuel O&M in 2021 and has achieved lower-than-average cost levels for total non-fuel O&M each year since 2016. Even when

<sup>&</sup>lt;sup>5</sup> Additionally, peer group included criteria that companies must have greater than 50,000 customers.

compared to the smaller subset of 21 other large utilities, Ameren Missouri is performing
 well.

# 3 Q. When compared to the larger companies, how did Ameren Missouri look for just the 4 A&G portion of O&M expense?

A. As shown on Schedule JJR-D9, Ameren Missouri improved its A&G cost per customer in
 each year examined, while the peer group average remained consistent during the same
 period. In 2021, Ameren Missouri's A&G cost per customer was below the large company
 peer group average by 17.3%.

### 9 Q. What can be concluded from the results of these analyses?

As a result of the mergers of Union Electric, CIPS, CILCO, and IP, the Company has been 10 A. able to drive down costs of the businesses. The source of reduced costs is from the 11 consolidation of common corporate and A&G functions which now reside at AMS. These 12 savings result from the elimination of duplicative positions (e.g., a CEO and CFO and 13 Treasurer at each operating company, multiple CIOs, multiple General Counsels, etc.) as 14 well as economies of scale attributable to the provisioning of services by a smaller number 15 of employees than the four individual companies could have achieved separately. In 16 17 addition, AMS and Ameren Missouri engage in continuous improvement efforts that should be expected to contribute to bringing down Ameren Missouri's largest measure of 18 19 controllable cost, Total Non-Fuel O&M per customer, which is in fact well below the peer 20 group average levels for all three of the peer groups I have examined. The numbers indicate that these efforts have delivered significant savings for customers, while maintaining 21 22 compensation at competitive levels for employees working at AMC subsidiaries.

23 Q. Have you expanded the benchmarking?

21

A. Yes. I have done some additional benchmarking to further assess Ameren Missouri's
 financial and operational performance.

# 3 Q. In general, what steps did you take in constructing this additional benchmarking 4 analysis?

5 A. The first step of the benchmarking analysis was to define the timeframe over which the 6 analysis was to be performed. The second step was to develop the composition of the peer 7 group used to compare to Ameren Missouri. The third step was to define the financial and 8 operational metrics to be used in the benchmarking and to collect the necessary data to 9 evaluate these metrics.

### 10 Q. How did you select the companies to include in your benchmarking peer group?

A. My objective in determining the peer group was to achieve the largest group of companies for which consistent data were available and which were, broadly speaking, operationally similar to Ameren Missouri. Because Ameren Missouri is a large primarily electric utility with ownership in generating resources, I established a peer group of companies with electric-only utility operations that have between 500,000 and 2 million customers and own generating resources. This produced a peer group of 21 comparable companies.

## 17 Q. What data sources did you rely on for the performance metrics that you developed?

18 A. I obtained much of the data from FERC Form 1 and U.S. Securities and Exchange
19 Commission ("SEC") Form 10-K reports (as reported by S&P Cap IQ Pro).

## 20 Q. What metrics did you use to assess Ameren Missouri's financial and operational 21 performance?

A. I evaluated Ameren Missouri's performance across a variety of financial and operational
 metrics to evaluate the Company's cost efficiency.

22

1		Regarding cost efficiency – the ability to maximize output and minimize costs, I considered
2		expense performance metrics:
3		Total Non-Fuel O&M expenses
4		Non-Fuel Production O&M expenses
5		Transmission O&M expenses
6		Distribution O&M expenses
7		• Administrative and General ("A&G") expenses
8		Customer expenses
9	Q.	Did the metrics account for companies of different sizes?
10	A.	Yes. Most metrics are calculated on an expense per customer or an expense per MWh sold
11		basis.
12	Q.	Have you provided the results of the expense performance metrics?
13	A.	Yes. Schedule JJR-D10 thru Schedule JJR-D23 provides the results of each of the expense
14		performance metrics listed above.
15	Q.	Overall how did Ameren Missouri compare to its peers in regards to the expense
16		performance metrics?
17	A.	In reviewing the four primary operating functions (generation, transmission, distribution,
18		and customer service), and administrative and general expenses, Ameren Missouri is a
19		strong performer in controlling its expenses per customer. Ameren Missouri was below
20		the peer group mean in every year of the analysis for Non-Fuel Production O&M expenses
21		per customer and Transmission O&M expenses per customer. Ameren Missouri was below
22		the peer group mean for the first 5 years of the analysis for Non-Fuel Nuclear Production
23		O&M per Nuclear MWh Produced, but this expense was above the peer group mean in

12021. This atypical increase in 2021 was due to the shutdown of the Callaway Energy2Center Nuclear Plant for several months.<sup>6</sup> While Ameren Missouri was above the group3mean in every year of the analysis for Distribution O&M expenses per customer, its ranking4has stayed relatively consistent over each year examined. Ameren Missouri was below the5peer group mean in Administrative and General expenses per customer in 2018, 2019,62020, and 2021 and Ameren Missouri improved its A&G cost per customer in each year7examined, while the peer group average remained consistent during the same period.

Which metrics provide the best indication of Ameren Missouri's overall performance

## 8

Q.

9

## relative to the peer groups?

While each metric is significant and may help identify particular areas of strength or 10 A. weakness, the best indication of Ameren Missouri's overall level of performance in terms 11 of cost control, which also provides a good indication of the reasonableness of AMS costs 12 since it provides significant services to Ameren Missouri, is Total Non-Fuel O&M 13 expenses per customer. This category covers all four primary operating functions 14 (generation, transmission, distribution, and customer service), and includes all 15 administrative and general functions which, as noted, make up nearly all AMS costs. 16 17 Further, this metric has the advantage of removing the effects of differences in fuel costs, which can vary due to availability, location, and state or local environmental policies. 18

## 19

20

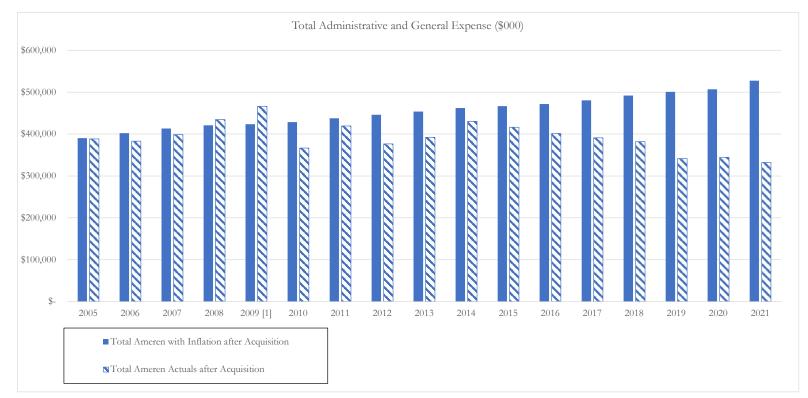
Q. Please discuss how Ameren Missouri compares to its peers in regards to the Total Non-Fuel O&M expense metric.

<sup>&</sup>lt;sup>6</sup> Since the denominator of this metric is the annual nuclear MWh produced, the decrease in production caused by a plant shut down for part of the year causes this total metric to increase in that year. Ameren Missouri's Callaway Energy Center shut down in December 2020 as a result of an equipment failure. The plant was back online in August of 2021.

1	A.	Ameren Missouri's performance in controlling its non-fuel O&M expense per customer
2		and per MWh sold is strong in each year of my analysis, coming in below the peer group
3		average in each year examined in the per customer analysis and right around the peer group
4		average for each year in the per MWh sold analysis.
5		VII. ADDITIONAL INFORMATION BEING PROVIDED BY AMEREN
6		MISSOURI
7	Q.	In your direct testimony in Ameren Missouri's last electric rate case you summarized
8		information concerning affiliate transactions that Ameren Missouri agreed to provide
9		per the Second Stipulation in that case, File No. ER-2019-0335. Is Ameren Missouri
10		submitting that information in this case?
11	A.	Yes. While the obligation under the Stipulation has been fulfilled, Ameren Missouri is
12		again providing that information in this case. The information being provided is listed in
13		Schedule JJR-D24, together with an explanation of how the information is being provided
14		and my comments on some of the items, as appropriate.
15		VIII. CONCLUSIONS
16	Q.	Based upon your review of AMS and the services that it provides to its affiliated
17		companies, what are your observations and conclusions?
18	A.	My observations and conclusions are as follows:
19		• The use of a shared services organizations, such as AMS, is reasonable and consistent
20		with utility industry practices and its use by Ameren Missouri for the services provided
21		in the test year was prudent and reasonable;
22		• The scope of services offered by AMS to its affiliated companies is consistent with
23		other utility shared services companies with which I am familiar;

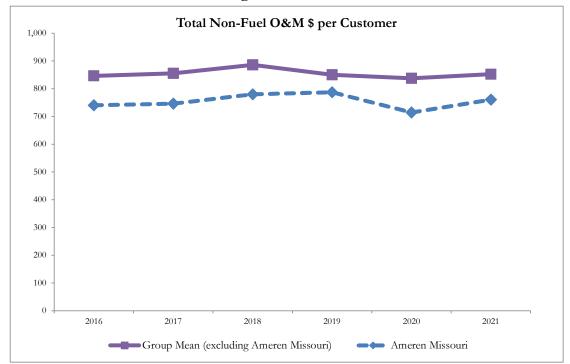
#### Total Administrative and General (\$000)

Inflated after Acquisition																	
	2005	2006	2007	2008	2009 [1]	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Union Electric	234,223	241,457	247,981	252,758	254,365	257,413	262,765	267,684	272,366	277,455	280,241	283,045	288,412	295,305	300,588	304,182	316,788
CIPS (merger completed 12/31/1997)	77,672	80,071	82,234	83,819	84,351	85,362	87,137	88,768	90,321	92,008	92,933	93,862	95,642	97,928	99,680	100,872	105,052
CILCO (acquisition closed 1/31/2003)	27,078	27,914	28,668	29,220	29,406	29,758	30,377	30,946	31,487	32,075	32,398	32,722	33,342	34,139	34,750	35,165	36,622
IP (acquisition closed 9/30/2004)	51,155	52,735	54,160	55,203	55,554	56,220	57,389	58,463	59,486	60,597	61,206	61,818	62,990	64,496	65,650	66,435	69,188
Total Ameren with Inflation after Acquisition	390,128	402,178	413,044	421,000	423,676	428,754	437,669	445,862	453,660	462,136	466,777	471,447	480,386	491,868	500,667	506,654	527,650
Actuals																	
Union Electric	243,224	245,282	265,020	272,687	250,628	240,384	275,201	236,903	251,904	278,701	264,623	251,783	234,050	235,012	214,437	204,068	192,583
CIPS (merger completed 12/31/1997)	41,305	39,765	39,944	47,871	40,468												
CILCO (acquisition closed 1/31/2003)	36,057	30,052	32,037	27,610	97,824												
IP (acquisition closed 9/30/2004)	67,543	67,716	61,571	86,449	77,172												
Ameren Illinois						126,171	143,958	139,418	140,454	151,672	151,661	149,707	157,181	146,610	126,801	140,380	139,515
Total Ameren Actuals after Acquisition	388,129	382,815	398,572	434,617	466,092	366,555	419,159	376,321	392,358	430,373	416,284	401,490	391,231	381,622	341,238	344,448	332,099



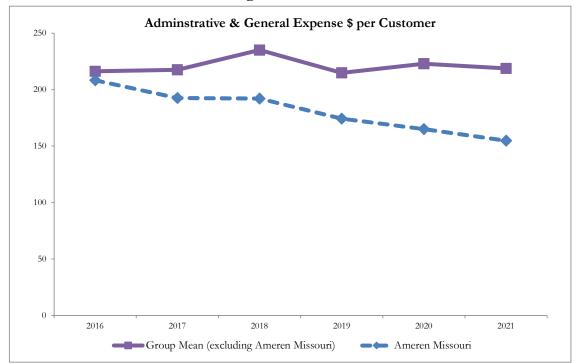
#### NOTES

[1] Amount for CILCO in 2009 ties to the Form 1 which includes \$57,483 of intercompany billings recorded in account 921. In the Company's filing in Docket #12-0001, that amount was excluded.



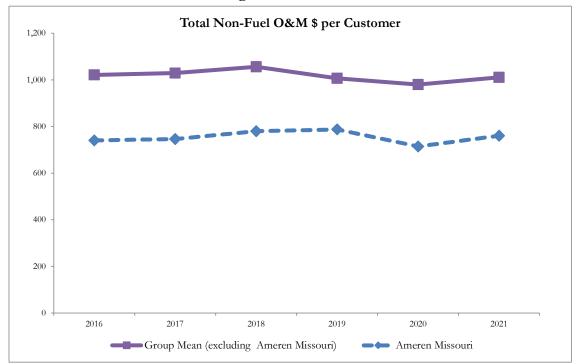
## National Electric Utilities With Regulated Generation, >50k Customers

Total Non-	Fuel O&M \$	per Cus	tomer			
	Annual Value	? <i>S</i>				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	740	746	779	787	714	760
Group Mean (excluding Ameren Missouri)	846	855	886	850	837	852
	Rankings					
	2016	2017	2018	2019	2020	2021
National Electric Utilities With Regulated Generation	on, >50k Custom	ers				
Ameren Missouri	16	17	19	21	17	18
Quartile	2	2	2	2	2	2
Total Ranked	47	47	47	47	47	47



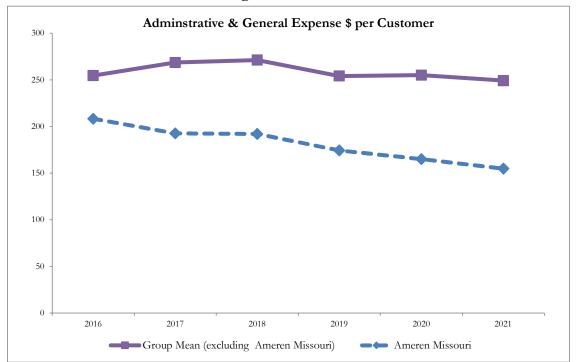
National Electric Utilities With Regulated Generation, >50k Customers

Adminstrative &	General Exp	ense \$ pe	er Custor	ner		
	Annual Value	? <b>S</b>				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	208	193	192	174	165	155
Group Mean (excluding Ameren Missouri)	216	218	235	215	223	219
	Rankings					
	2016	2017	2018	2019	2020	2021
National Electric Utilities With Regulated Generation	on, >50k Custom	ers				
Ameren Missouri	27	24	20	19	17	14
Quartile	3	3	2	2	2	2
Total Ranked	47	47	47	47	47	47



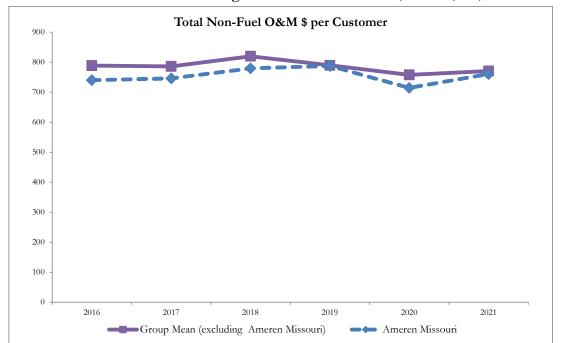
## Midwest Electric Utilities With Regulated Generation, >50k Customers

Total Non-	Fuel O&M \$	per Cus	tomer			
	Annual Value	? <i>S</i>				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	740	746	779	787	714	760
Group Mean (excluding Ameren Missouri)	1,021	1,029	1,056	1,006	980	1,010
	Rankings					
	2016	2017	2018	2019	2020	2021
Midwest Electric Utilities With Regulated Generatio	n, >50k Custom	ers				
Ameren Missouri	1	1	3	3	2	3
Quartile	1	1	1	1	1	1
Total Ranked	16	17	17	17	17	17



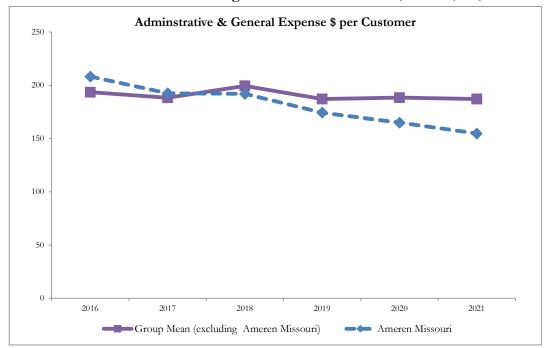
## Midwest Electric Utilities With Regulated Generation, >50k Customers

Adminstrative &	General Exp	ense \$ pe	er Custor	ner		
	Annual Value	? <i>S</i>				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	208	193	192	174	165	155
Group Mean (excluding Ameren Missouri)	255	269	271	254	255	249
	Rankings					
	2016	2017	2018	2019	2020	2021
Midwest Electric Utilities With Regulated Generatio	n, >50k Custom	ers				
Ameren Missouri	7	5	5	5	5	3
Quartile	2	2	2	2	2	1
Total Ranked	16	17	17	17	17	17



## National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

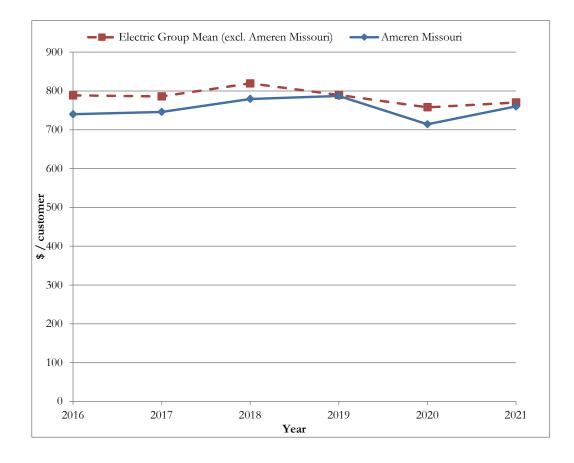
Total No	n-Fuel O&M	\$ per Cus	stomer			
	Annual Val	ues				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	740	746	779	787	714	760
Group Mean (excluding Ameren Missouri)	789	786	820	790	758	770
	Ranking	s				
	2016	2017	2018	2019	2020	2021
National Electric Utilities With Regulated Generation	n & 500,000 to 2,0	000,000 Cust	omers			
Ameren Missouri	9	8	10	11	9	9
Quartile	2	2	2	3	2	2
Total Ranked	21	21	21	21	21	21



National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

Adminstrative &	c General Exp	ense \$ p	er Custor	ner		
	Annual Valu	es				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	208	193	192	174	165	155
Group Mean (excluding Ameren Missouri)	193	188	199	187	188	187
	Rankings					
	2016	2017	2018	2019	2020	2021
National Electric Utilities With Regulated Generation	n & 500,000 to 2,	000,000 Cus	stomers			
Ameren Missouri	14	12	10	10	10	8
Quartile	3	3	2	2	2	2
Total Ranked	21	21	21	21	21	21

## Total Non-Fuel O&M per Customer Cost Efficiency

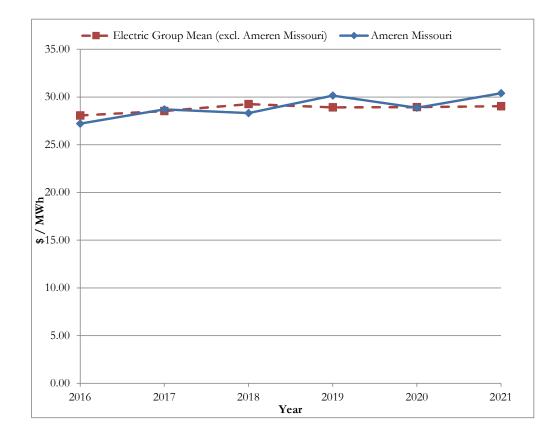


Total Non	Total Non-Fuel O&M per Customer										
	Annual Val	lues									
	2016	2017	2018	2019	2020	2021					
Ameren Missouri	740	746	779	787	714	760					
Electric Group Mean (excl. Ameren Missouri)	789	786	820	790	758	770					
	Ranking	s									
	2016	2017	2018	2019	2020	2021					
Electric Group:											
Ameren Missouri	9	8	10	11	9	9					
Total Ranked	21	21	21	21	21	21					

Source: SNL Interactive, FERC Form 1

Total O&M Expenses less Fuel, Purchased Power, and Other Expenses; Ult Consumer Electric Customers

## Total Non-Fuel O&M per MWh Sold Cost Efficiency

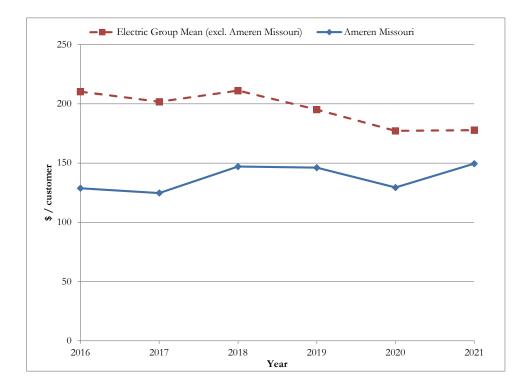


Total Non-J	Fuel O&N	A per MV	Wh Sold			
	Annual Va	lues				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	27.2	28.7	28.3	30.1	28.9	30.4
Electric Group Mean (excl. Ameren Missouri)	28.1	28.5	29.3	28.9	28.9	29.0
	Ranking	<i>gs</i>				
	2016	2017	2018	2019	2020	2021
Electric Group:						
Ameren Missouri	12	12	13	13	14	15
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1

Total O&M Expenses less Fuel, Purchased Power, and Other Expenses; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

## Non-Fuel Production O&M (Excluding Nuclear) per Customer Cost Efficiency

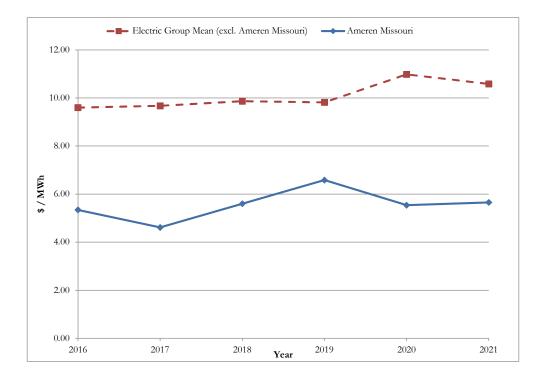


Non-Fuel Production	n O&M (Exclu	iding Nuc	lear) per C	Customer		
	Annual Va	lues				
	2016	2017	2018	2019	2020	2021
Ameren Missouri	129	125	147	146	129	149
Electric Group Mean (excl. Ameren Missouri)	210	202	211	195	177	178
	Ranking	s				
	2016	2017	2018	2019	2020	2021
Electric Group:						
Ameren Missouri	4	5	6	7	7	9
Total Ranked	21	21	21	21	21	21

Source: SNL Interactive, FERC Form 1

Total Power Production O&M Expenses, excluding Nuclear less fuel, Purchased Power, and Other Expenses; Total Electric Customers

## Non-Fuel Production O&M per MWh Produced (Excluding Nuclear) Cost Efficiency

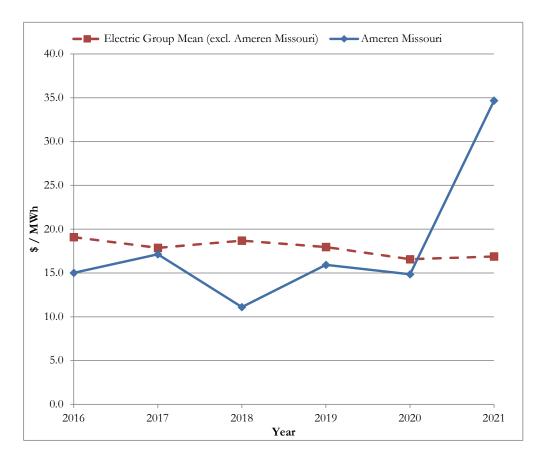


Non-Fuel Production O&M per MWh Produced (Excluding Nuclear)									
Annual Values									
	2016	2017	2018	2019	2020	2021			
Ameren Missouri	5.34	4.62	5.60	6.58	5.54	5.66			
Electric Group Mean (excl. Ameren Missouri)	9.60	9.67	9.87	9.82	10.98	10.59			
	Rai	nkings							
	2016	2017	2018	2019	2020	2021			
Electric Group:									
Ameren Missouri	2	2	4	5	3	4			
Total Ranked	21	21	21	21	21	21			

Source: SNL Interactive, FERC Form 1

Total Power Production O&M Expenses excluding Nuclear, less Fuel, Purchased Power, and Other Expenses; Total Net Generation excl Nuclear

## Non-Fuel Nuclear Production O&M per Nuclear MWh Produced Cost Efficiency

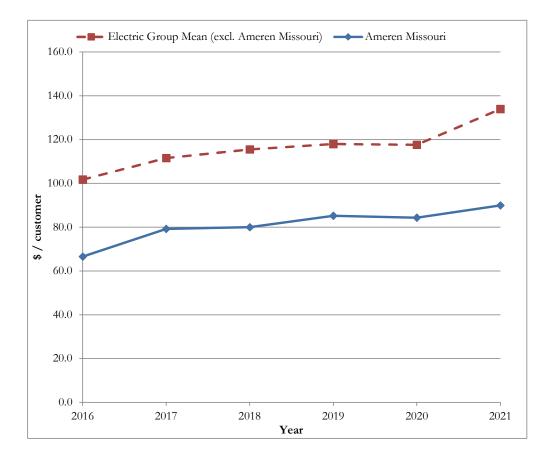


Non-Fuel Nuclear Production O&M per Nuclear MWh Produced								
Annual Values								
	2016	2017	2018	2019	2020	2021		
Ameren Missouri	15.0	17.1	11.1	15.9	14.8	34.7		
Electric Group Mean (excl. Ameren Missouri)	19.1	17.9	18.7	18.0	16.6	16.9		
	Rankings							
	2016	2017	2018	2019	2020	2021		
Electric Group:								
Ameren Missouri	1	4	1	2	3	8		
Total Ranked	8	8	8	8	8	8		

Source: SNL Interactive, FERC Form 1

Non-Fuel Nuclear O&M less Fuel Expenses; Nuclear Generation (MWh)

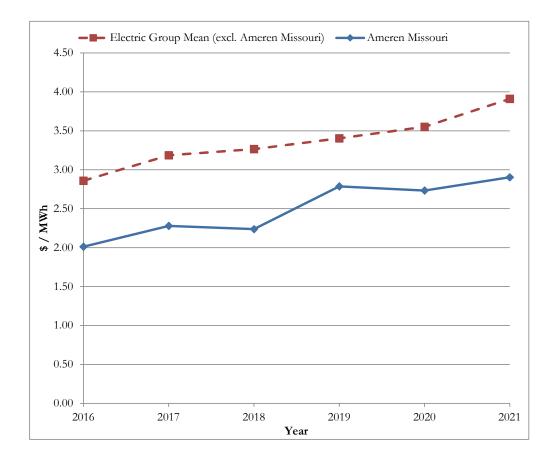
## Transmission O&M per Customer Cost Efficiency



Transmission O&M per Customer								
Annual Values								
	2016	2017	2018	2019	2020	2021		
Ameren Missouri	66.6	79.2	80.0	85.2	84.4	90.0		
Electric Group Mean (excl. Ameren Missouri)	101.7	111.5	115.5	118.0	117.6	133.9		
Rankings								
	2016	2017	2018	2019	2020	2021		
Electric Group:								
Ameren Missouri	10	11	10	10	11	11		
Total Ranked	21	21	21	21	21	21		

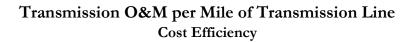
Source: SNL Interactive, FERC Form 1 Transmiss-O&M Exp; Total Electric Customers

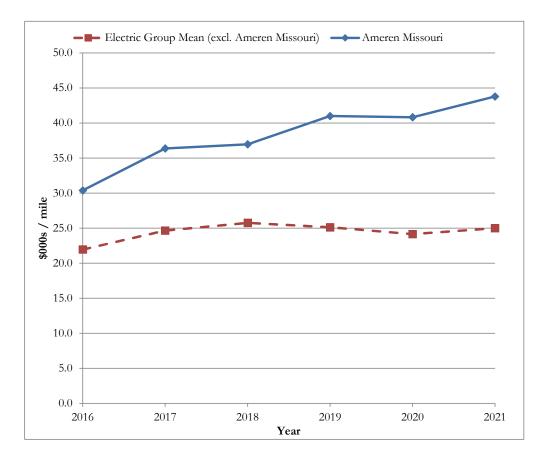
## Transmission O&M per MWh Cost Efficiency



Transmission O&M per MWh								
Annual Values								
	2016	2017	2018	2019	2020	2021		
Ameren Missouri	2.01	2.28	2.24	2.79	2.73	2.90		
Electric Group Mean (excl. Ameren Missouri)	2.86	3.19	3.27	3.40	3.55	3.91		
	Rankings							
	2016	2017	2018	2019	2020	2021		
Electric Group:								
Ameren Missouri	9	8	8	10	9	10		
Total Ranked	21	21	21	21	21	21		

Source: SNL Interactive, FERC Form 1 Transmiss-O&M Exp; Total Electricity Sales Vol

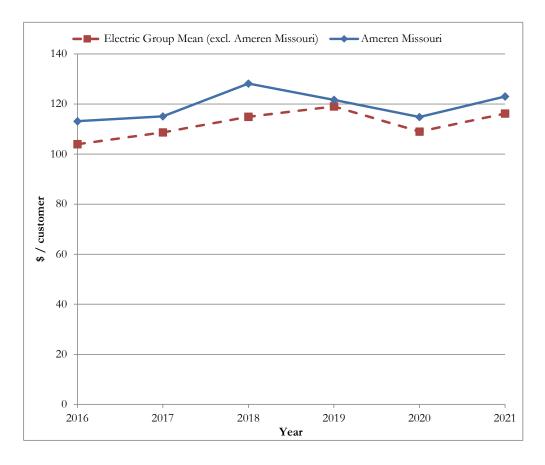




Transmission O&M per Mile of Transmission Line								
Annual Values								
	2016	2017	2018	2019	2020	2021		
Ameren Missouri	30.4	36.4	37.0	41.0	40.8	43.8		
Electric Group Mean (excl. Ameren Missouri)	22.0	24.7	25.8	25.1	24.1	25.0		
	Rankinį	gs						
	2016	2017	2018	2019	2020	2021		
Electric Group:								
Ameren Missouri	16	17	17	16	17	17		
Total Ranked	21	21	21	21	21	21		

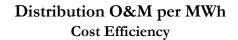
Transmiss-O&M Exp (\$000); Length of Transmission Lines (Miles)

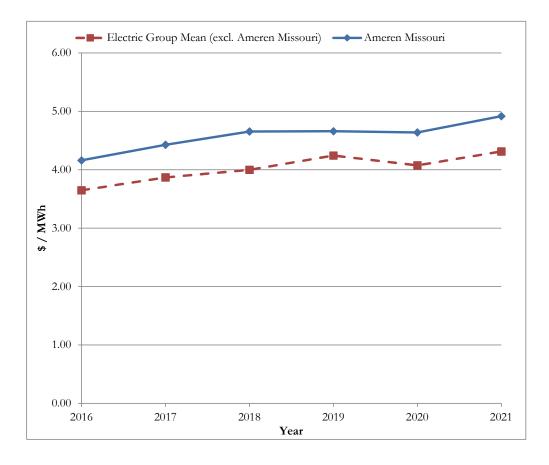




Distribution O&M per Customer								
Annual Values								
	2016	2017	2018	2019	2020	2021		
Ameren Missouri	113	115	128	122	115	123		
Electric Group Mean (excl. Ameren Missouri)	104	109	115	119	109	116		
	Ranking	<i>gs</i>						
	2016	2017	2018	2019	2020	2021		
Electric Group:								
Ameren Missouri	14	13	14	12	12	13		
Total Ranked	21	21	21	21	21	21		

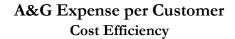
Distr-O&M Exp; Ult Consumer Electric Customers

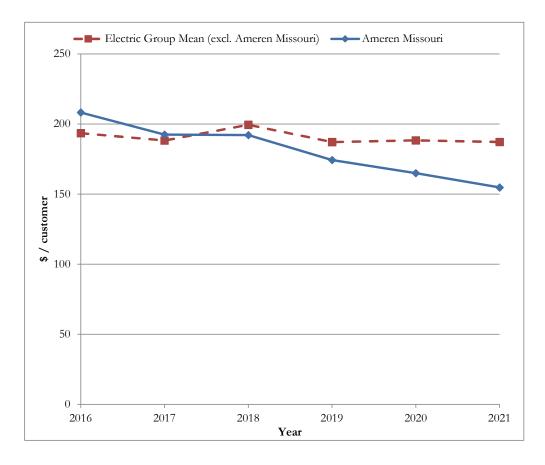




Distribution O&M per MWh								
Annual Values								
	2016	2017	2018	2019	2020	2021		
Ameren Missouri	4.16	4.43	4.65	4.66	4.64	4.92		
Electric Group Mean (excl. Ameren Missouri)	3.65	3.87	4.00	4.24	4.08	4.31		
	Rankings							
	2016	2017	2018	2019	2020	2021		
Electric Group:								
Ameren Missouri	17	16	18	15	15	16		
Total Ranked	21	21	21	21	21	21		

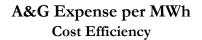
Distr-O&M Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

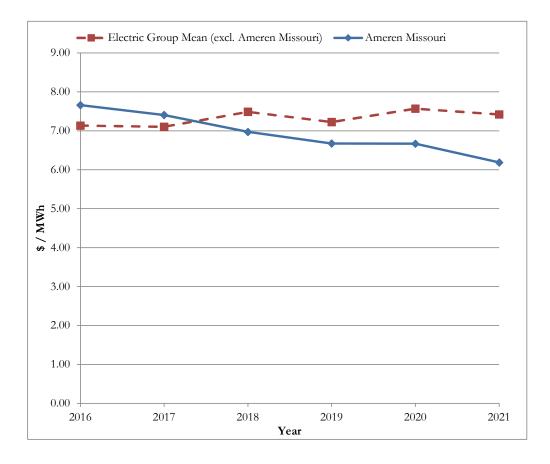




A&G E	A&G Expense per Customer										
Annual Values											
2016 2017 2018 2019 2020 2021											
Ameren Missouri	208	193	192	174	165	155					
Electric Group Mean (excl. Ameren Missouri)	193	188	199	187	188	187					
	Rankinį	<i>gs</i>									
	2016	2017	2018	2019	2020	2021					
Electric Group:											
Ameren Missouri	14	12	10	10	10	8					
Total Ranked	21	21	21	21	21	21					

A&G-O&M Exp; Ult Consumer Electric Customers

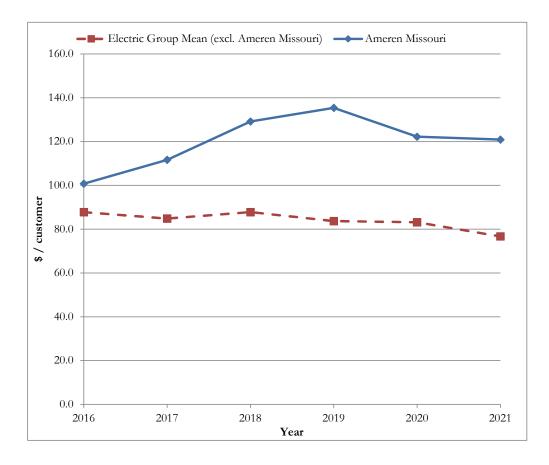




A&G	A&G Expense per MWh										
Annual Values											
2016 2017 2018 2019 2020 2021											
Ameren Missouri	7.66	7.41	6.97	6.68	6.67	6.19					
Electric Group Mean (excl. Ameren Missouri)	7.13	7.10	7.49	7.23	7.57	7.42					
	Ranking	<i>gs</i>									
	2016	2017	2018	2019	2020	2021					
Electric Group:											
Ameren Missouri	14	14	12	12	13	11					
Total Ranked	21	21	21	21	21	21					

A&G-O&M Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

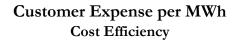
# Customer Expense per Customer Cost Efficiency

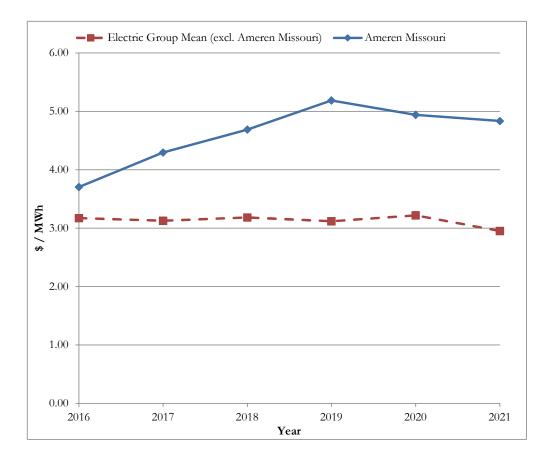


Customer	Customer Expense per Customer									
Annual Values										
2016 2017 2018 2019 2020 2021										
Ameren Missouri	100.8	111.7	129.1	135.4	122.2	120.9				
Electric Group Mean (excl. Ameren Missouri)	87.8	84.8	87.8	83.7	83.2	76.7				
	Rankinį	<i>gs</i>								
	2016	2017	2018	2019	2020	2021				
Electric Group:										
Ameren Missouri	15	18	20	20	19	20				
Total Ranked	21	21	21	21	21	21				

Source: SNL Interactive, FERC Form 1

Customer Accounts Exp; Customer Service and Info Exp; Sales Exp; Ult Consumer Electric Customers





Customer Expense per MWh										
Annual Values										
2016 2017 2018 2019 2020 2021										
Ameren Missouri	3.71	4.30	4.69	5.19	4.94	4.83				
Electric Group Mean (excl. Ameren Missouri)	3.17	3.13	3.18	3.12	3.22	2.95				
	Ranking	gs								
	2016	2017	2018	2019	2020	2021				
Electric Group:										
Ameren Missouri	12	17	19	21	19	19				
Total Ranked	21	21	21	21	21	21				

Customer Accounts Exp; Customer Service and Info Exp; Sales Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

Exhibit No.: Issue(s): Affiliate Transactions Witness: Joseph S. Weiss Type of Exhibit: Direct Testimony Sponsoring Party: Union Electric Company File No.: ER-2024-0319 Date Testimony Prepared: June 28, 2024

### **MISSOURI PUBLIC SERVICE COMMISSION**

#### FILE NO. ER-2024-0319

#### **DIRECT TESTIMONY**

#### OF

#### **JOSEPH S. WEISS**

#### ON

#### **BEHALF OF**

## UNION ELECTRIC COMPANY

#### D/B/A AMEREN MISSOURI

St. Louis, Missouri June, 2024

1		• AMS from time-to-time engages in various exercises that include benchmarking itself
2		to other companies to help ensure that its costs are market-based and uses competitive
3		bidding in accordance with corporate policies for procurement; and
4		• Ameren Missouri can, if it so chooses, reduce the services it takes from AMS in given
5		areas and either self-provide a service or obtain it elsewhere.
6		Simply put, these facts provide a very compelling case that selecting AMS as the service
7		provider is not only a reasonable decision, but also the best decision that the Company can
8		make. This decision by Ameren Missouri is unquestionably prudent.
9		VI. HISTORICAL COST ANALYSIS
10	Q.	Have you prepared an analysis of how Ameren Missouri's customers have benefited
11		from the formation of AMS?
12	A.	Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense
12 13	А.	Yes. An analysis of Ameren Missouri's administrative and general ("A&G") expense levels from 1999 to 2023 was prepared to determine if its customers have benefited from
	А.	
13	А.	levels from 1999 to 2023 was prepared to determine if its customers have benefited from
13 14	А.	levels from 1999 to 2023 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger with CIPS, CILCO and IP. In the twelve
13 14 15	A.	levels from 1999 to 2023 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger with CIPS, CILCO and IP. In the twelve months ending March 31, 2024, 91% of the operation and maintenance expense dollars
13 14 15 16	А. Q.	levels from 1999 to 2023 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger with CIPS, CILCO and IP. In the twelve months ending March 31, 2024, 91% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric distribution business from AMS included within
13 14 15 16 17		levels from 1999 to 2023 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger with CIPS, CILCO and IP. In the twelve months ending March 31, 2024, 91% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric distribution business from AMS included within the revenue requirement were booked to administrative and general expenses.
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ol>	Q.	levels from 1999 to 2023 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger with CIPS, CILCO and IP. In the twelve months ending March 31, 2024, 91% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric distribution business from AMS included within the revenue requirement were booked to administrative and general expenses. <b>Please explain the analysis.</b>
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>	Q.	levels from 1999 to 2023 was prepared to determine if its customers have benefited from the formation of AMS concurrent with the merger with CIPS, CILCO and IP. In the twelve months ending March 31, 2024, 91% of the operation and maintenance expense dollars allocated to the Ameren Missouri electric distribution business from AMS included within the revenue requirement were booked to administrative and general expenses. <b>Please explain the analysis.</b> Starting with data from 1990, the reported A&G expense levels were collected as reported

1	The same analysis was performed for the acquisition of CILCO in 2003 and Illinois Power
2	in 2004.

As shown in Schedule JSW-D3, the A&G cost levels for the merged companies are consistently lower than the sum of the individual stand-alone operating companies' escalated A&G expense levels. This indicates that the merged companies' costs, including AMS' allocated costs, are lower than they would likely have been absent the mergers.

Q. Have you also performed an assessment of Ameren Missouri's costs compared to
 those of similar utilities?

9 A. Yes. I updated the benchmarking analysis performed in File Nos. ER-2019-0335, ER-

2021-0240, and ER-2022-0337 to include an analysis through 2023. I compared Ameren
 Missouri's total non-fuel O&M expense and A&G expense against three peer groups:

1. National Electric Utilities with regulated generation and greater than 50,000
 customers;<sup>5</sup>

# Midwest Electric Utilities with regulated generation and greater than 50,000 customers; and

16 3. National Electric Utilities with regulated generation and 500,000 to 2,000,000
 17 customers.

# 18 Q. What years did the benchmarking analyses review?

A. The six most recent years for which data were available (i.e., 2018-2023) were used to
 perform the analyses. This represents the years reviewed in File No. ER-2019-0335, File

<sup>&</sup>lt;sup>5</sup> Hawaii Electric Light Company, Hawaiian Electric Company, and Maui Electric Company do not file their Electric Financials and Operating data with FERC, but to the Public Utilities Commission of Hawaii. The Public Utilities Commission of Hawaii has different deadlines than FERC and then that data is manually processed by S&P. As of the completion of this analysis the data had not been processed by S&P, so these three companies are not included in the peer group.

1	No. ER-2021-0240, and File No. ER-2022-0337 updated with current data and 2022 and
2	2023 added to the analyses.

## 3 Q. What was the source of the data used to perform the benchmarking analyses?

- 4 A. The analyses utilized data obtained from the S&P Global Market Intelligence platform.
- 5 The source of the data was the annual FERC Form 1 filings made by electric utilities.
- 6 Q. Did you make any adjustments to the source data?
- 7 A. No.
- 8 Q. How did you normalize the benchmarking analyses to account for differences in the 9 size of the utilities?
- A. To normalize issues related to the size of the companies in the comparison, all costs were
  evaluated on a per customer basis.
- Q. How did Ameren Missouri compare to its peers when reviewing total non-fuel O&M
   cost per customer of the national electric utilities with regulated generation peer
   group<sup>6</sup>?
- A. As shown on Schedule JSW-D4, Ameren Missouri has had below (i.e., better than) the
   national average non-fuel O&M costs in all six years analyzed. Ameren Missouri's total
   non-fuel O&M cost per customer was 14.75% below the national average in 2023.
- Q. How did Ameren Missouri compare to its peers when reviewing just the A&G portion
   of these O&M expenses on a per customer basis?
- A. As shown on Schedule JSW-D5, Ameren Missouri's A&G expense per customer has been
  below the national average A&G expense in all six years analyzed. In 2023, Ameren
- 22 Missouri's A&G cost per customer was 35.73% below the national average.

<sup>&</sup>lt;sup>6</sup> Additionally, the peer group included criteria that companies must have greater than 50,000 customers.

#### Q. Is it possible that these results are biased by the inclusion of higher-cost utilities on 1 the east and west coasts, as opposed to Midwestern utilities? 2 A. No, in fact Ameren Missouri's costs are even more competitive when compared to Midwest 3 utilities.<sup>7</sup> As shown on Schedule JSW-D6, Ameren Missouri posted results that were 4 25.65% below the average for Midwest utilities for total non-fuel O&M costs in 2023 and 5 6 has been considerably below the regional average each year analyzed. On this basis of comparison, Ameren Missouri is a top performer. 7 Q. How did Ameren Missouri compare to its Midwest peers when reviewing A&G 8 9 expense per customer? As shown on Schedule JSW-D7, Ameren Missouri's A&G cost per customer was more A. 10 than 36% below the regional average in 2023. 11 Q. When the comparisons are limited to the larger utilities, which presumably have 12 economies of scale as AMS has been able to achieve, how does Ameren Missouri 13 compare to the national averages? 14 As shown on Schedule JSW-D8, when compared to national electric utilities with regulated 15 A. generation and between 500,000 and 2 million customers, Ameren Missouri achieved 16 slightly lower-than-average cost levels for total non-fuel O&M in 2023, 4.38% below the 17 large utility peer group average, and has achieved lower-than-average cost levels for total 18 non-fuel O&M each year of the analysis. Even when compared to the smaller subset of 20 19 20 other large utilities, Ameren Missouri is performing well. Q. When compared to the larger companies, how did Ameren Missouri look for just the 21 A&G portion of O&M expense?

<sup>&</sup>lt;sup>7</sup> Additionally, the peer group included criteria that companies must have greater than 50,000 customers.

Direct Testimony of Joseph S. Weiss

A. As shown on Schedule JSW-D9, Ameren Missouri's A&G cost per customer was below
 the large company peer group average by 21.78% in 2023 and has achieved lower-than average cost levels for A&G each year of the analysis.

4 Q. What can be concluded from the results of these analyses?

As a result of the mergers of Union Electric, CIPS, CILCO, and IP, the Company has been A. 5 able to drive down costs of the businesses. The source of reduced costs is from the 6 consolidation of common corporate and A&G functions which now reside at AMS. These 7 savings result from the elimination of duplicative positions (e.g., a CEO and CFO and 8 9 Treasurer at each operating company, multiple CIOs, multiple General Counsels, etc.) as well as economies of scale attributable to the provisioning of services by a smaller number 10 of employees than the four individual companies could have achieved separately. In 11 addition, AMS and Ameren Missouri engage in continuous improvement and customer 12 affordability efforts that should be expected to contribute to bringing down Ameren 13 Missouri's largest measure of controllable cost, Total Non-Fuel O&M per customer, which 14 is in fact below the peer group average levels for all three of the peer groups I have 15 examined. The numbers indicate that these efforts have delivered significant savings for 16 customers, while maintaining compensation at competitive levels for employees working 17 at AMC subsidiaries. 18

19 **Q.** 

#### Have you expanded the benchmarking?

A. Yes. I have done some additional benchmarking to further assess Ameren Missouri's
 financial and operational performance.

Q. In general, what steps did you take in constructing this additional benchmarking
analysis?

Direct Testimony of Joseph S. Weiss

A. The first step of the benchmarking analysis was to define the timeframe over which the analysis was to be performed. The second step was to develop the composition of the peer group used to compare to Ameren Missouri. The third step was to define the financial and operational metrics to be used in the benchmarking and to collect the necessary data to evaluate these metrics.

Q. Ho

6

# . How did you select the companies to include in your benchmarking peer group?

A. My objective in determining the peer group was to achieve the largest group of companies
for which consistent data were available and which were, broadly speaking, operationally
similar to Ameren Missouri. Because Ameren Missouri is a large primarily electric utility
with ownership in generating resources, I established a peer group of companies with
electric-only utility operations that have between 500,000 and 2 million customers and own
generating resources. This produced a peer group of 20 comparable companies.

#### 13 Q. What data sources did you rely on for the performance metrics that you developed?

A. I obtained much of the data from FERC Form 1 and U.S. Securities and Exchange
Commission ("SEC") Form 10-K reports (as reported by S&P Cap IQ Pro).

# Q. What metrics did you use to assess Ameren Missouri's financial and operational performance?

# A. I evaluated Ameren Missouri's performance across a variety of financial and operational metrics to evaluate the Company's cost efficiency. Regarding cost efficiency – the ability to maximize output and minimize costs, I considered expense performance metrics:

21

22

23

- Total Non-Fuel O&M expenses
- Non-Fuel Production O&M expenses
- Transmission O&M expenses

1		Distribution O&M expenses
2		• Administrative and General ("A&G") expenses
3		Customer expenses
4	Q.	Did the metrics account for companies of different sizes?
5	A.	Yes. Most metrics are calculated on an expense per customer or an expense per MWh sold
6		basis.
7	Q.	Have you provided the results of the expense performance metrics?
8	A.	Yes. Schedule JSW-D10 thru Schedule JSW-D23 provides the results of each of the
9		expense performance metrics listed above.
10	Q.	Overall, how did Ameren Missouri compare to its peers in regards to the expense
11		performance metrics?
12	A.	In reviewing the four primary operating functions (generation, transmission, distribution,
13		and customer service), and administrative and general expenses, Ameren Missouri is a
14		strong performer in controlling its expenses per customer. Ameren Missouri was below
15		the peer group mean in every year of the analysis for Non-Fuel Production O&M expenses
16		per customer and Transmission O&M expenses per customer. Ameren Missouri was below
17		the peer group mean for 4 of the 6 years of the analysis for Non-Fuel Nuclear Production
18		O&M per Nuclear MWh Produced, but this expense was above the peer group mean in
19		2021 and just above the peer group mean in 2023. This atypical increase in 2021 was due
20		to the shutdown of the Callaway Energy Center Nuclear Plant for several months. <sup>8</sup> While
21		Ameren Missouri was above the group mean in 5 of the 6 years of the analysis for

<sup>&</sup>lt;sup>8</sup> Since the denominator of this metric is the annual nuclear MWh produced, the decrease in production caused by a plant shut down for part of the year causes this total metric to increase in that year. Ameren Missouri's Callaway Energy Center shut down in December 2020 as a result of an equipment failure. The plant was back online in August of 2021.

Direct Testimony of Joseph S. Weiss

Distribution O&M expenses per customer, its ranking has stayed relatively consistent over each year examined and was below the peer group mean in 2022. Ameren Missouri was below the peer group mean in Administrative and General expenses per customer in every year of the analysis.

Which metrics provide the best indication of Ameren Missouri's overall performance

5 6 Q.

# relative to the peer groups?

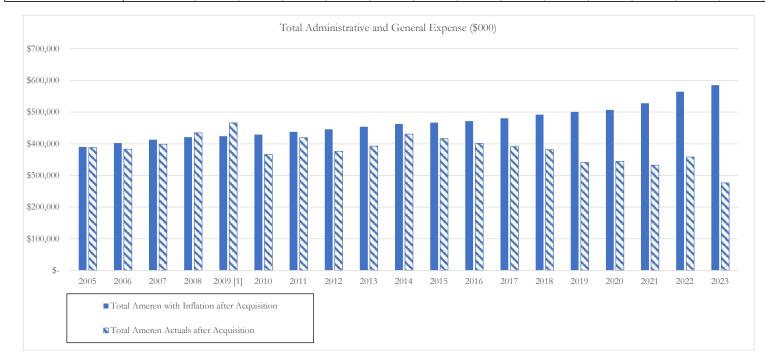
A. While each metric is significant and may help identify particular areas of strength or 7 weakness, the best indication of Ameren Missouri's overall level of performance in terms 8 9 of cost control, which also provides a good indication of the reasonableness of AMS costs since it provides significant services to Ameren Missouri, is Total Non-Fuel O&M 10 This category covers all four primary operating functions expenses per customer. 11 (generation, transmission, distribution, and customer service), and includes all 12 administrative and general functions which, as noted, make up nearly all AMS O&M costs. 13 Further, this metric has the advantage of removing the effects of differences in fuel costs, 14 which can vary due to availability, location, and state or local environmental policies. 15

# Q. Please discuss how Ameren Missouri compares to its peers in regards to the Total Non-Fuel O&M expense metric.

A. Ameren Missouri's performance controlling its non-fuel O&M expense per customer and per MWh sold is strong in each year of my analysis coming in below the peer group average in each year examined in the per customer analysis and right around the peer group average for each year in the per MWh sold analysis.

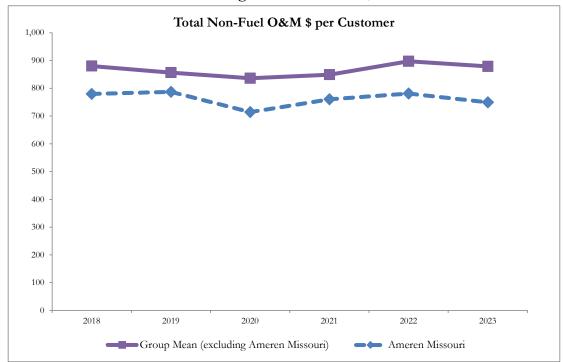
#### Total Administrative and General (\$000)

Inflated after Acquisition																			
	2005	2006	2007	2008	2009 [1]	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Union Electric	234,223	241,457	247,981	252,758	254,365	257,413	262,765	267,684	272,366	277,455	280,241	283,045	288,412	295,305	300,588	304,182	316,788	338,816	351,165
CIPS (merger completed 12/31/1997)	77,672	80,071	82,234	83,819	84,351	85,362	87,137	88,768	90,321	92,008	92,933	93,862	95,642	97,928	99,680	100,872	105,052	112,357	116,452
CILCO (acquisition closed 1/31/2003)	27,078	27,914	28,668	29,220	29,406	29,758	30,377	30,946	31,487	32,075	32,398	32,722	33,342	34,139	34,750	35,165	36,622	39,170	40,598
IP (acquisition closed 9/30/2004)	51,155	52,735	54,160	55,203	55,554	56,220	57,389	58,463	59,486	60,597	61,206	61,818	62,990	64,496	65,650	66,435	69,188	73,997	76,694
Total Ameren with Inflation after Acquisitio:	390,128	402,178	413,044	421,000	423,676	428,754	437,669	445,862	453,660	462,136	466,777	471,447	480,386	491,868	500,667	506,654	527,650	564,340	584,909
Actuals																			
Union Electric	243,224	245,282	265,020	272,687	250,628	240,384	275,201	236,903	251,904	278,701	264,623	251,783	234,050	235,012	214,437	204,068	192,583	230,619	188,547
CIPS (merger completed 12/31/1997)	41,305	39,765	39,944	47,871	40,468														
CILCO (acquisition closed 1/31/2003)	36,057	30,052	32,037	27,610	97,824														
IP (acquisition closed 9/30/2004)	67,543	67,716	61,571	86,449	77,172														
Ameren Illinois						126,171	143,958	139,418	140,454	151,672	151,661	149,707	157,181	146,610	126,801	140,380	139,515	127,478	88,022
Total Ameren Actuals after Acquisition	388,129	382,815	398,572	434,617	466,092	366,555	419,159	376,321	392,358	430,373	416,284	401,490	391,231	381,622	341,238	344,448	332,099	358,097	276,569



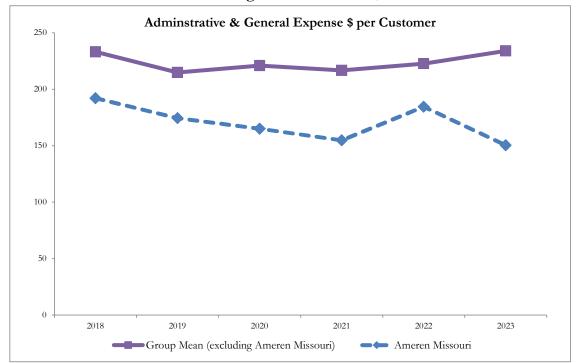
#### NOTES

[1] Amount for CILCO in 2009 ties to the Form 1 which includes \$57,483 of intercompany billings recorded in account 921. In the Company's filing in Docket #12-0001, that amount was excluded.



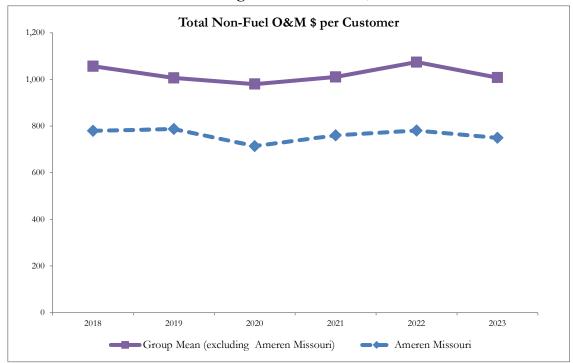
# National Electric Utilities With Regulated Generation, >50k Customers

Total Non-Fuel O&M \$ per Customer											
Annual Values											
	2018	2019	2020	2021	2022	2023					
Ameren Missouri	779	787	714	760	781	749					
Group Mean (excluding Ameren Missouri)	880	857	836	849	897	879					
	Rankings										
	2018	2019	2020	2021	2022	2023					
National Electric Utilities With Regulated Generation	on, >50k Custom	ers									
Ameren Missouri	20	21	17	19	19	20					
Quartile	2	2	2	2	2	2					
Total Ranked	48	48	48	48	48	48					



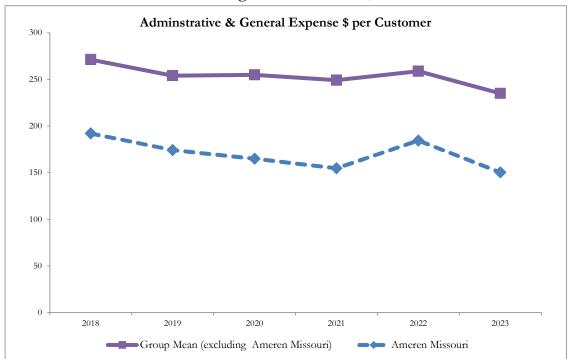
National Electric Utilities With Regulated Generation, >50k Customers

Adminstrative &	General Exp	ense \$ pe	er Custor	ner							
Annual Values											
	2018	2019	2020	2021	2022	2023					
Ameren Missouri	192	174	165	155	184	150					
Group Mean (excluding Ameren Missouri)	233	215	221	217	223	234					
	Rankings										
	2018	2019	2020	2021	2022	2023					
National Electric Utilities With Regulated Generation	on, >50k Custom	ers									
Ameren Missouri	21	19	18	15	22	18					
Quartile	2	2	2	2	2	2					
Total Ranked	48	48	48	48	48	48					



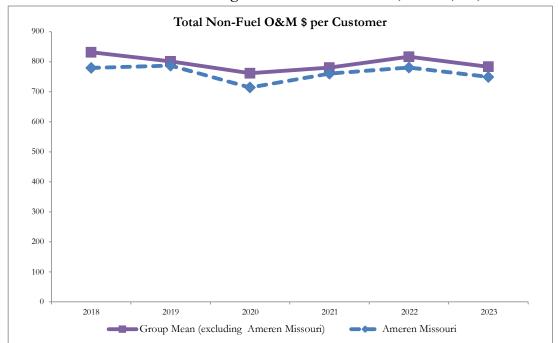
# Midwest Electric Utilities With Regulated Generation, >50k Customers

Total Non-	Fuel O&M \$	per Cus	tomer								
Annual Values											
	2018	2019	2020	2021	2022	2023					
Ameren Missouri	779	787	714	760	781	749					
Group Mean (excluding Ameren Missouri)	1,056	1,006	980	1,010	1,074	1,008					
	Rankings										
	2018	2019	2020	2021	2022	2023					
Midwest Electric Utilities With Regulated Generatio	n, >50k Custom	ers									
Ameren Missouri	3	3	2	3	4	5					
Quartile	1	1	1	1	1	2					
Total Ranked	17	17	17	17	17	17					



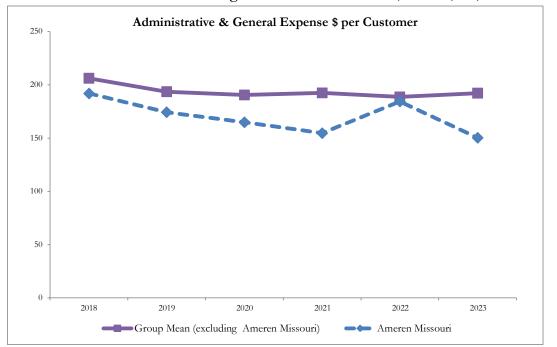
# Midwest Electric Utilities With Regulated Generation, >50k Customers

Adminstrative &	General Exp	ense \$ pe	er Custor	ner		
	Annual Value	e <i>s</i>				
	2018	2019	2020	2021	2022	2023
Ameren Missouri	192	174	165	155	184	150
Group Mean (excluding Ameren Missouri)	271	254	255	249	259	235
	Rankings					
	2018	2019	2020	2021	2022	2023
Midwest Electric Utilities With Regulated Generatio	n, >50k Custom	ers				
Ameren Missouri	5	5	5	3	7	7
Quartile	2	2	2	1	2	2
Total Ranked	17	17	17	17	17	17



# National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

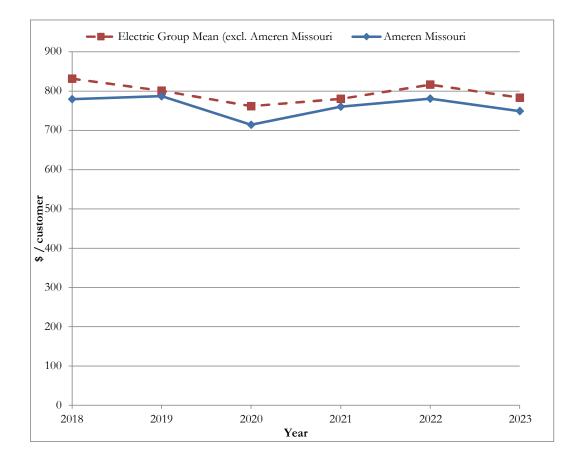
Total No	n-Fuel O&M	\$ per Cus	stomer			
	Annual Val	ues				
	2018	2019	2020	2021	2022	2023
Ameren Missouri	779	787	714	760	781	749
Group Mean (excluding Ameren Missouri)	832	801	762	780	816	783
	Rankings	5				
	2018	2019	2020	2021	2022	2023
National Electric Utilities With Regulated Generation	n & 500,000 to 2,0	00,000 Cust	omers			
Ameren Missouri	9	10	8	8	9	10
Quartile	2	2	2	2	2	2
Total Ranked	20	20	20	20	20	20



National Electric Utilities With Regulated Generation & 500,000 to 2,000,000 Customers

Administrative 8	c General Exp	pense \$ p	er Custor	ner		
	Annual Valu	es				
	2018	2019	2020	2021	2022	2023
Ameren Missouri	192	174	165	155	184	150
Group Mean (excluding Ameren Missouri)	206	194	190	192	189	192
	Rankings					
	2018	2019	2020	2021	2022	2023
National Electric Utilities With Regulated Generation	n & 500,000 to 2,	000,000 Cus	stomers			
Ameren Missouri	9	9	9	7	12	8
Quartile	2	2	2	2	3	2
Total Ranked	20	20	20	20	20	20

# Total Non-Fuel O&M per Customer Cost Efficiency

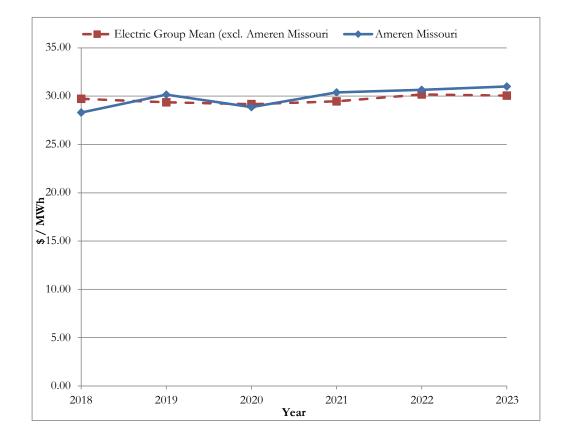


Total Non-Fuel O&M per Customer									
Annual Values									
	2018	2019	2020	2021	2022	2023			
Ameren Missouri	779	787	714	760	781	749			
Electric Group Mean (excl. Ameren Missouri)	832	801	762	780	816	783			
	Ranking	\$							
	2018	2019	2020	2021	2022	2023			
Electric Group:									
Ameren Missouri	9	10	8	8	9	10			
Total Ranked	20	20	20	20	20	20			

Source: SNL Interactive, FERC Form 1

Total O&M Expenses less Fuel, Purchased Power, and Other Expenses; Ult Consumer Electric Customers

# Total Non-Fuel O&M per MWh Sold Cost Efficiency

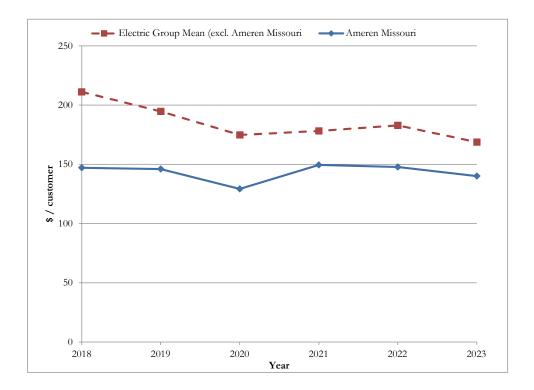


Total Non-J	Fuel O&N	A per MV	Wh Sold			
	Annual Va	lues				
	2018	2019	2020	2021	2022	2023
Ameren Missouri	28.3	30.1	28.9	30.4	30.6	31.0
Electric Group Mean (excl. Ameren Missouri)	29.7	29.4	29.2	29.5	30.2	30.1
	Ranking	<i>gs</i>				
	2018	2019	2020	2021	2022	2023
Electric Group:						
Ameren Missouri	12	12	13	14	13	13
Total Ranked	20	20	20	20	20	20

Source: SNL Interactive, FERC Form 1

Total O&M Expenses less Fuel, Purchased Power, and Other Expenses; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

#### Non-Fuel Production O&M (Excluding Nuclear) per Customer Cost Efficiency

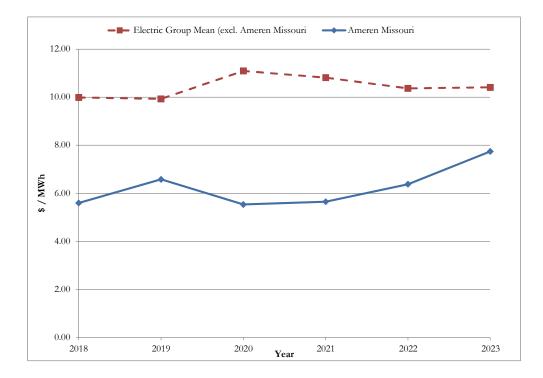


Non-Fuel Production	n O&M (Exclu	iding Nuc	lear) per C	Customer		
	Annual Va	lues				
	2018	2019	2020	2021	2022	2023
Ameren Missouri	147	146	129	149	148	140
Electric Group Mean (excl. Ameren Missouri)	211	195	175	178	183	169
	Ranking	rs				
	2018	2019	2020	2021	2022	2023
Electric Group:						
Ameren Missouri	6	7	7	9	9	10
Total Ranked	20	20	20	20	20	20

Source: SNL Interactive, FERC Form 1

Total Power Production O&M Expenses, excluding Nuclear less fuel, Purchased Power, and Other Expenses; Total Electric Customers

#### Non-Fuel Production O&M per MWh Produced (Excluding Nuclear) Cost Efficiency

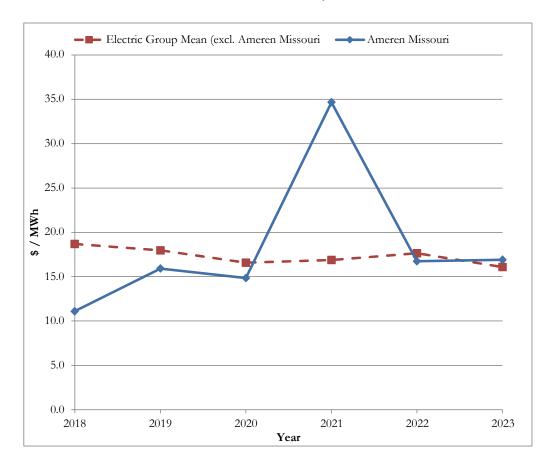


Non-Fuel Production O&M per MWh Produced (Excluding Nuclear)										
Annual Values										
	2018	2019	2020	2021	2022	2023				
Ameren Missouri	5.60	6.58	5.54	5.66	6.38	7.75				
Electric Group Mean (excl. Ameren Missouri)	9.99	9.93	11.10	10.81	10.37	10.42				
	Rai	nkings								
	2018	2019	2020	2021	2022	2023				
Electric Group:										
Ameren Missouri	4	5	3	4	7	8				
Total Ranked	20	20	20	20	20	20				

Source: SNL Interactive, FERC Form 1

Total Power Production O&M Expenses excluding Nuclear, less Fuel, Purchased Power, and Other Expenses; Total Net Generation excl Nuclear

# Non-Fuel Nuclear Production O&M per Nuclear MWh Produced Cost Efficiency

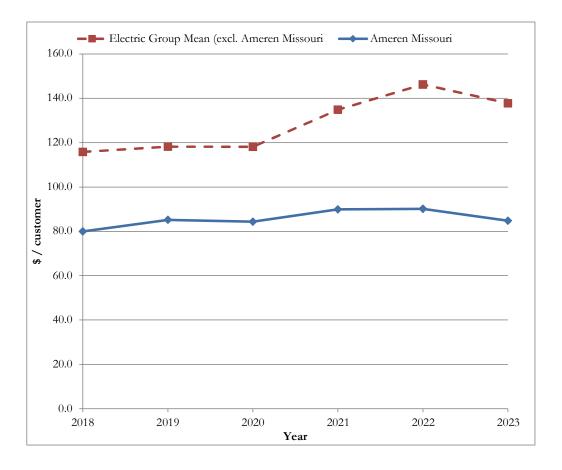


Non-Fuel Nuclear Produc	Non-Fuel Nuclear Production O&M per Nuclear MWh Produced								
	Annual Va	lues							
	2018	2019	2020	2021	2022	2023			
Ameren Missouri	11.1	15.9	14.8	34.7	16.8	16.9			
Electric Group Mean (excl. Ameren Missouri)	18.7	18.0	16.6	16.9	17.7	16.1			
	Ranking	<i>gs</i>							
	2018	2019	2020	2021	2022	2023			
Electric Group:									
Ameren Missouri	1	2	3	8	5	5			
Total Ranked	8	8	8	8	8	8			

Source: SNL Interactive, FERC Form 1

Non-Fuel Nuclear O&M less Fuel Expenses; Nuclear Generation (MWh)

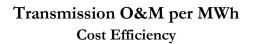
# Transmission O&M per Customer Cost Efficiency

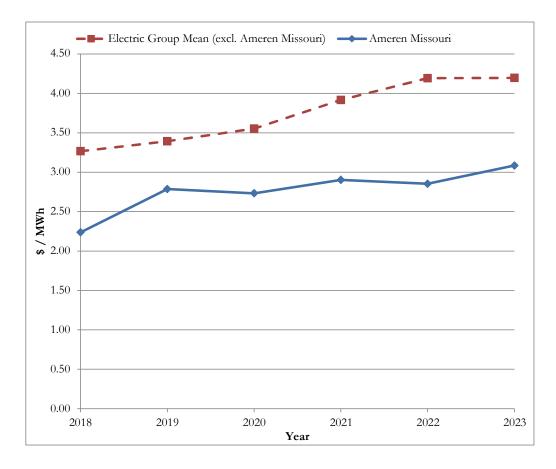


Transmission O&M per Customer								
	Annual Va	lues						
	2018	2019	2020	2021	2022	2023		
Ameren Missouri	80.0	85.2	84.4	90.0	90.2	84.8		
Electric Group Mean (excl. Ameren Missouri)	115.8	118.2	118.2	134.9	146.3	137.8		
	Rankinį	gs						
	2018	2019	2020	2021	2022	2023		
Electric Group:								
Ameren Missouri	10	10	11	11	10	10		
Total Ranked	20	20	20	20	20	20		

Source: SNL Interactive, FERC Form 1

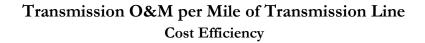
Transmiss-O&M Exp; Total Electric Customers

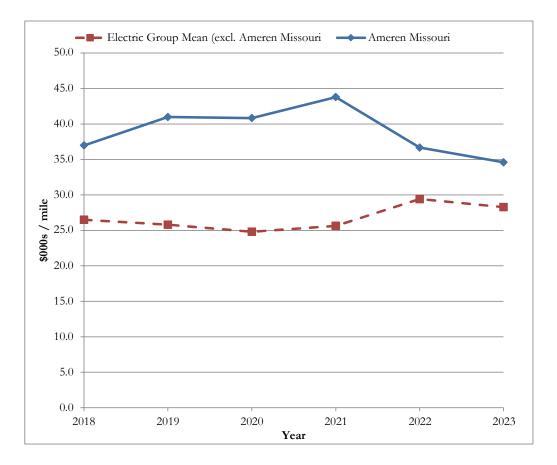




Transmission O&M per MWh								
	Annual Va	lues						
	2018	2019	2020	2021	2022	2023		
Ameren Missouri	2.24	2.79	2.73	2.90	2.85	3.09		
Electric Group Mean (excl. Ameren Missouri)	3.27	3.39	3.55	3.92	4.19	4.20		
	Ranking	gs						
	2018	2019	2020	2021	2022	2023		
Electric Group:								
Ameren Missouri	8	10	9	10	8	12		
Total Ranked	20	20	20	20	20	20		

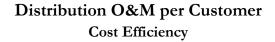
Transmiss-O&M Exp; Total Electricity Sales Vol

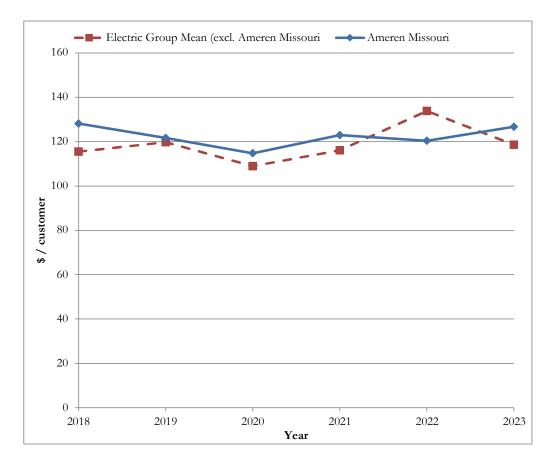




Transmission O&M per Mile of Transmission Line								
	Annual Va	lues						
	2018	2019	2020	2021	2022	2023		
Ameren Missouri	37.0	41.0	40.8	43.8	36.7	34.6		
Electric Group Mean (excl. Ameren Missouri)	26.5	25.8	24.8	25.6	29.4	28.3		
	Ranking	gs						
	2018	2019	2020	2021	2022	2023		
Electric Group:								
Ameren Missouri	16	15	16	16	15	15		
Total Ranked	20	20	20	20	20	20		

Transmiss-O&M Exp (\$000); Length of Transmission Lines (Miles)

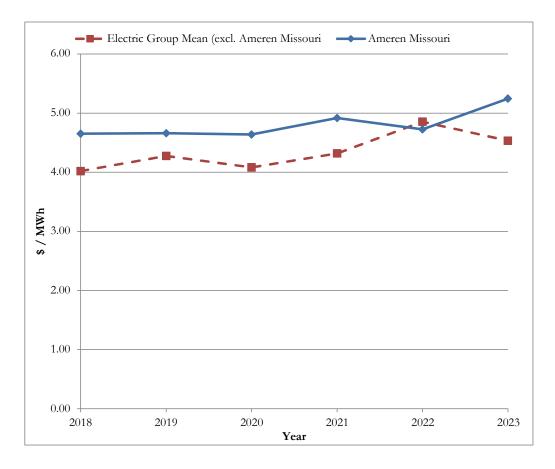




Distribution O&M per Customer									
Annual Values									
	2018	2019	2020	2021	2022	2023			
Ameren Missouri	128	122	115	123	120	127			
Electric Group Mean (excl. Ameren Missouri)	116	120	109	116	134	119			
	Ranking	<i>gs</i>							
	2018	2019	2020	2021	2022	2023			
Electric Group:									
Ameren Missouri	13	11	11	12	9	12			
Total Ranked	20	20	20	20	20	20			

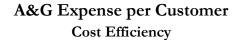
Distr-O&M Exp; Ult Consumer Electric Customers

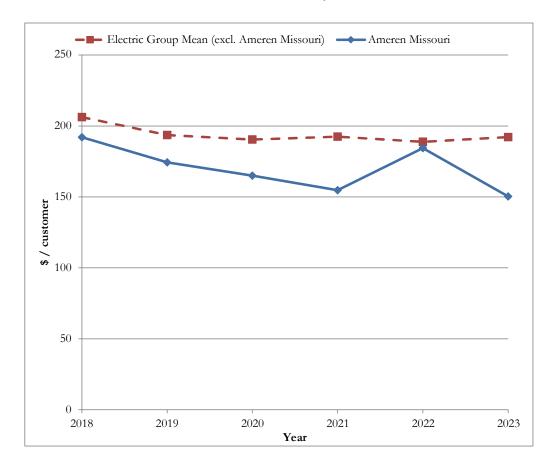




Distribution O&M per MWh							
Annual Values							
	2018	2019	2020	2021	2022	2023	
Ameren Missouri	4.65	4.66	4.64	4.92	4.73	5.25	
Electric Group Mean (excl. Ameren Missouri)	4.02	4.27	4.08	4.32	4.85	4.53	
Rankings							
	2018	2019	2020	2021	2022	2023	
Electric Group:							
Ameren Missouri	17	14	14	15	12	16	
Total Ranked	20	20	20	20	20	20	

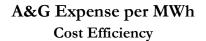
Distr-O&M Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)

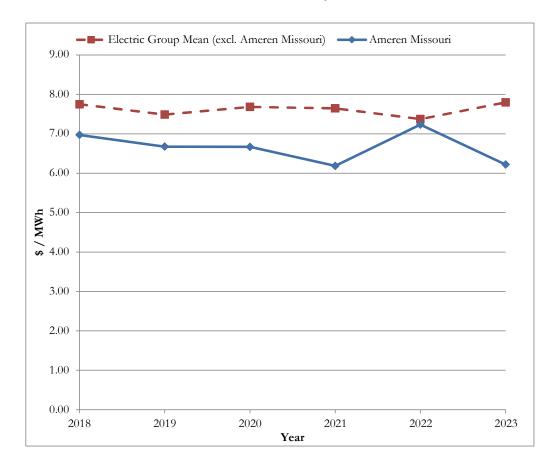




A&G Expense per Customer							
Annual Values							
	2018	2019	2020	2021	2022	2023	
Ameren Missouri	192	174	165	155	184	150	
Electric Group Mean (excl. Ameren Missouri)	206	194	190	192	189	192	
Rankings							
	2018	2019	2020	2021	2022	2023	
Electric Group:							
Ameren Missouri	9	9	9	7	12	8	
Total Ranked	20	20	20	20	20	20	

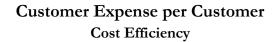
A&G-O&M Exp; Ult Consumer Electric Customers

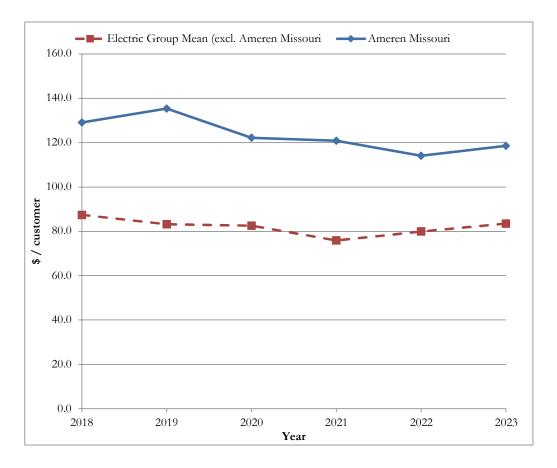




A&G Expense per MWh Annual Values							
Ameren Missouri	6.97	6.68	6.67	6.19	7.24	6.22	
Electric Group Mean (excl. Ameren Missouri)	7.75	7.49	7.69	7.65	7.38	7.80	
Rankings							
	2018	2019	2020	2021	2022	2023	
Electric Group:							
Ameren Missouri	11	11	12	10	11	10	
Total Ranked	20	20	20	20	20	20	

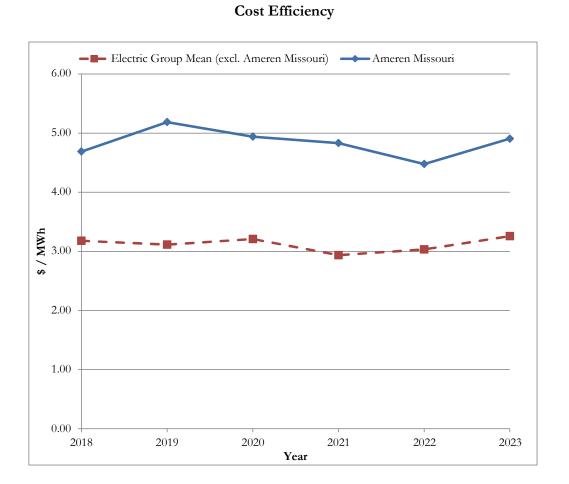
A&G-O&M Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)





Customer Expense per Customer							
Annual Values							
	2018	2019	2020	2021	2022	2023	
Ameren Missouri	129.1	135.4	122.2	120.9	114.1	118.6	
Electric Group Mean (excl. Ameren Missouri)	87.4	83.2	82.6	75.9	79.9	83.5	
Rankings							
	2018	2019	2020	2021	2022	2023	
Electric Group:							
Ameren Missouri	19	19	18	19	18	18	
Total Ranked	20	20	20	20	20	20	

Customer Accounts Exp; Customer Service and Info Exp; Sales Exp; Ult Consumer Electric Customers



Customer Expense per MWh

Customer Expense per MWh							
Annual Values							
	2018	2019	2020	2021	2022	2023	
Ameren Missouri	4.69	5.19	4.94	4.83	4.48	4.91	
Electric Group Mean (excl. Ameren Missouri)	3.18	3.11	3.21	2.94	3.03	3.26	
Rankings							
	2018	2019	2020	2021	2022	2023	
Electric Group:							
Ameren Missouri	18	20	18	18	16	16	
Total Ranked	20	20	20	20	20	20	

Source: SNL Interactive, FERC Form 1

Customer Accounts Exp; Customer Service and Info Exp; Sales Exp; Tot Sales: Ult Cnsmr-Mwhrs Sold (MWh)