

## Exhibit No. 23

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Witness: Darryl T. Sagel  
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File No.: ER-2021-0240  
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**MISSOURI PUBLIC SERVICE COMMISSION**

**FILE NO. ER-2021-0240**

**DIRECT TESTIMONY**

**OF**

**DARRYL T. SAGEL**

**ON**

**BEHALF OF**

**UNION ELECTRIC COMPANY**

**D/B/A AMEREN MISSOURI**

**St. Louis, Missouri  
March 2021**

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**DIRECT TESTIMONY**

**OF**

**DARRYL T. SAGEL**

**FILE NO. ER-2021-0240**

**I. INTRODUCTION**

1

**Q. Please state your name and business address.**

2

3 A. My name is Darryl T. Sagel. My business address is One Ameren Plaza,  
4 1901 Chouteau Avenue, St. Louis, Missouri 63103.

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**Q. By whom and in what capacity are you employed?**

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6 A. I am employed by Ameren Services Company ("Ameren Services"), a  
7 wholly-owned subsidiary of Ameren Corporation ("Ameren"), as Vice President and  
8 Treasurer. I also serve as Vice President and Treasurer of Union Electric Company d/b/a  
9 Ameren Missouri ("Ameren Missouri" or "Company"). Ameren Services provides various  
10 corporate support services to Ameren's subsidiaries, including Ameren Missouri, such as  
11 accounting, legal, financial, and treasury services.

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**Q. What are your current job duties and responsibilities?**

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A. As Treasurer, I am responsible for all areas of the treasury functional area,  
including corporate finance, cash and investment management, insurance, credit risk  
management, investor relations, investor services, and corporate development. Within the  
areas of corporate finance, I am responsible for, among other things, managing Ameren's  
and its subsidiaries' capital raising and capital structure, including their short-term and  
long-term financing activities, such as debt and equity issuances and credit facility  
arrangements. I am also responsible for monitoring and managing Ameren's and its

1 subsidiaries' liquidity positions, key credit metrics, and debt agreement compliance,  
2 overseeing relationships with credit rating agencies and banks, and monitoring capital  
3 markets for key developments, emerging risks, and opportunities, among other corporate  
4 finance-related activities.

5 **Q. Please describe your educational and professional background.**

6 A. See my Statement of Qualifications, which is attached as Appendix A to my  
7 direct testimony.

8 **II. PURPOSE AND SUMMARY OF TESTIMONY**

9 **Q. What is the purpose of your direct testimony?**

10 A. The purpose of my direct testimony is to recommend a reasonable capital  
11 structure for Ameren Missouri for ratemaking purposes and an appropriate overall fair rate  
12 of return for the Company's electric utility business. The capital structure that I recommend  
13 is based on Ameren Missouri's forecasted debt, preferred stock, and common stock  
14 balances as of September 30, 2021. The actual balances as of that date will be provided  
15 with the true-up data. My direct testimony reflects, for informational purposes, Ameren  
16 Missouri's actual capital structure as of December 31, 2020, the end of the proposed test  
17 year. In recommending a fair overall rate of return, I consider Ameren Missouri's  
18 embedded cost of long-term debt, its embedded cost of preferred stock, and the fair return  
19 on equity recommended by Ameren Missouri witness Ann Bulkley in her direct testimony  
20 in this case.

1           **Q.    Are you sponsoring any schedules in connection with your direct**  
2 **testimony?**

3           A.    Yes, I am sponsoring and have attached to my testimony the following  
4 schedules, which have been prepared as of or for the projected twelve months ending  
5 September 30, 2021, as appropriate:

- 6           •    Schedule DTS-D1 – Capital Structure/Weighted Average Cost of Capital
- 7           •    Schedule DTS-D2 – Embedded Cost of Long-Term Debt
- 8           •    Schedule DTS-D3 – Cost of Short-Term Debt
- 9           •    Schedule DTS-D4 – Embedded Cost of Preferred Stock

10           **III.   RATE OF RETURN AND COST OF CAPITAL CONSIDERATIONS**

11           **Q.    What is the relationship between allowed rate of return and cost of**  
12 **capital in the context of utility ratemaking?**

13           A.    Under a traditional regulatory model, the interests of customers and a  
14 utility's shareholders may be considered "balanced" when the Missouri Public Service  
15 Commission ("Commission") authorizes a rate of return on rate base equal to the utility's  
16 cost of capital. If the authorized rate of return is less than the utility's overall cost of capital,  
17 the financial strength and stability of the utility could degrade, making it difficult for the  
18 utility to raise necessary capital on a timely basis, at a reasonable cost, and under reasonable  
19 terms. Ultimately, the utility's inability to raise sufficient capital would impair service  
20 quality, or the increased cost of capital incurred by a financially-weakened utility would  
21 result in increased rates. Customer interests are best served when the Commission-  
22 authorized rate of return is set equal to the utility's overall cost of capital.

1           **Q.     Please define weighted average cost of capital.**

2           A.     Weighted average cost of capital equals the sum of the costs of the  
3 components of an entity's capital structure weighted by the relative contribution of each  
4 capital source to the entity's total capitalization.

5           **Q.     How did you calculate the weighted average cost of capital for Ameren**  
6 **Missouri?**

7           A.     As reflected in Schedule DTS-D1, I calculated Ameren Missouri's weighted  
8 average cost of capital by: (1) multiplying the relative weighting or proportion of each  
9 component of Ameren Missouri's capital structure by the cost of that component; and, then  
10 (2) summing the weighted cost of each capital component.

11          **Q.     What is the primary standard for determining a fair rate of return?**

12          A.     According to the landmark *Bluefield* and *Hope* U.S. Supreme Court  
13 decisions, a utility's rate must be set at a level that allows the utility to generate revenues  
14 sufficient to: (1) maintain the financial integrity of its existing invested capital;  
15 (2) maintain its creditworthiness; and (3) attract sufficient capital on competitive terms to  
16 continue to provide a source of funds for continued investment and enable the company to  
17 meet the needs of its customers.<sup>1</sup> When a utility is allowed a reasonable opportunity to earn  
18 its cost of capital, it also generally has the opportunity to accomplish these objectives.

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<sup>1</sup> *Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia*, 262 U.S. 679 (1923) and *Federal Power Commission v. Hope Natural Gas Company*, 320 U.S. 591 (1944).

1           **Q.     From a finance perspective, why is it important that the Missouri**  
2 **Public Service Commission establish Ameren Missouri's rates based on its actual,**  
3 **overall capital structure and thus give it the opportunity to earn its cost of capital?**

4           A.     By earning its cost of capital, Ameren Missouri will generate strong cash  
5 flow and maintain the financial strength and stability necessary to, among other things,  
6 attract investment to finance the business and provide reliable, high quality service to its  
7 customers at a reasonable cost. Strong cash flow and overall financial health allow the  
8 Company to offer an attractive and competitive, risk-adjusted return to equity investors and  
9 also to maintain strong credit metrics and investment grade credit ratings. Those strong  
10 metrics and ratings, as discussed further below, afford the Company ongoing access to debt  
11 capital at a reasonable cost and under reasonable terms and conditions.

12           **IV.     CAPITAL STRUCTURE AND CREDIT RATINGS, GENERALLY**

13           **Q.     What is a utility capital structure?**

14           A.     Capital structure refers to the mix of debt and equity capital that a utility,  
15 such as Ameren Missouri, uses to finance its assets. Because they must support long-lived  
16 assets, utility capital structures tend to include long-term securities, generally a  
17 combination of common equity and long-term debt. However, there are other forms of  
18 capital, such as preferred equity (which has both equity-like and debt-like elements), that  
19 also may be a component of a utility's capital structure.

20           **Q.     How do you believe the reasonableness of a public utility's capital**  
21 **structure should be evaluated?**

22           A.     In evaluating the reasonableness of a public utility's capital structure, one  
23 should determine whether the capital structure is consistent with the financial strength



1 necessary for the utility to access the capital markets under reasonable terms under the most  
2 economic conditions, including the current uncertainty (both financially and operationally)  
3 caused by the COVID-19 pandemic, and if so, whether the cost of capital resulting from  
4 such a structure is reasonable. While debt, relative to equity, is generally a less expensive  
5 form of capital due in part to the tax deductibility of interest expense, heightened leverage  
6 can increase a firm's probability of default and the related costs of financial distress.  
7 Beyond a certain point, dependence on debt as a source of capital increases the risk  
8 associated with a utility's cash flow, which correspondingly increases a utility's overall  
9 cost of capital.

10 **Q. Does Ameren Missouri seek to maintain a certain capital structure?**

11 A. Yes. Ameren Missouri's capital structure is composed of debt, preferred  
12 stock, and common equity. Ameren Missouri specifically and continuously maintains the  
13 balance of debt and equity in its capital structure to minimize its overall cost of capital and,  
14 at the same time, maintain financial strength and stability. Maintaining financial strength  
15 and stability includes supporting strong credit metrics and securing investment grade credit  
16 ratings that will allow the Company to attract new capital at a reasonable cost and on  
17 reasonable terms, and ensure that Ameren Missouri has access to the capital markets under  
18 varying economic conditions.

19 **Q. Why is it necessary for Ameren Missouri to attract new capital?**

20 A. As a public utility, Ameren Missouri is required to continuously provide  
21 safe and adequate service to its customers. Adequately maintaining Ameren Missouri's  
22 aging electric infrastructure through its Smart Energy Plan as well as incremental  
23 investments necessary to transition its generation fleet to renewable generation, as outlined

1 in its most recently-filed Integrated Resource Plan, requires Ameren Missouri to make  
2 significant investments. Ameren Missouri thus requires substantial new capital investment  
3 to do this. It is essential that Ameren Missouri be able to access this new capital on a timely  
4 basis, at a reasonable cost, and under reasonable terms and conditions in order to meet these  
5 significant service and investment commitments.

6 **Q. Why is it necessary that Ameren Missouri be able to access the capital**  
7 **markets during all economic conditions?**

8 A. Ameren Missouri's service commitments to its customers and its  
9 infrastructure investment obligations do not cease in an economic downturn. Ameren  
10 Missouri must be able to attract the capital necessary to meet those commitments and  
11 obligations under varying economic conditions, including periods of market distress, when  
12 access to the capital markets may be severely limited for weaker-rated issuers.

13 **Q. How does a balanced capital structure help ensure Ameren Missouri's**  
14 **access to the capital it needs at a reasonable cost and during market fluctuations?**

15 A. Capital structure is one metric that credit rating agencies evaluate when  
16 assessing an issuer's credit profile and assigning a credit rating. A healthy capital structure  
17 is one that results in a reasonable balance between the overall cost of capital and the  
18 expected cost of financial distress. The capital structure recommended in my testimony  
19 reflects a reasonable balance between cost of capital and financial strength and stability. It  
20 allows Ameren Missouri to take advantage of the lower cost of debt financing without  
21 elevating the risk of default and the related costs of financial distress to an unreasonable  
22 level that would impair the creditworthiness and financial integrity of Ameren Missouri.  
23 The actual capital structure also influences other credit metrics on which credit ratings are

1 based. Credit ratings, in turn, are used by investors to evaluate the creditworthiness of an  
2 issuer and make investment decisions.

3 **Q. What is a credit rating?**

4 A. A credit rating is an evaluation by a credit rating agency of a company's  
5 ability to meet its financial obligations in a timely manner. It reflects the opinion of the  
6 rating agency of the overall creditworthiness of the company based on the company's  
7 relevant business and financial risks. A credit rating can be specific to a particular security  
8 or to a particular securities issuer.

9 **Q. Why do credit ratings matter?**

10 A. Credit ratings have a significant effect on a company's ability to attract debt  
11 capital, and in extreme cases, whether the company can access debt capital at all. Credit  
12 ratings also impact the pricing and contractual terms at which a company may issue debt  
13 securities. This affects the cost of capital and, in Ameren Missouri's case, the rates  
14 customers must pay for utility service. In general, a stronger credit rating typically enables  
15 a utility to obtain debt capital at a lower cost, to the benefit of customers.

16 **Q. How are credit ratings determined?**

17 A. The two primary credit rating agencies are Standard and Poor's Ratings  
18 Services ("S&P") and Moody's Investor Services ("Moody's"). In assessing a company's  
19 ability to meet its financial obligations, S&P and Moody's generally - but each to varying  
20 degrees - consider both qualitative factors affecting the company's business risk and  
21 quantitative factors affecting its financial risk.

1           **Q.     How do a company's credit metrics affect its credit ratings?**

2           A.     Credit metrics factor significantly into the credit rating agencies'  
3     evaluations of a company's credit profile and the rating agencies' assignment of credit  
4     ratings. The credit rating agencies generally deem strong credit metrics necessary to  
5     maintain investment grade credit ratings.

6           **Q.     What is an "investment grade" credit rating?**

7           A.     An investment grade credit rating is a rating of BBB- or stronger from S&P  
8     or a rating of Baa3 or stronger from Moody's. An investment grade credit rating implies a  
9     certain degree of financial strength, stability and reasonable assurance of an issuer's ability  
10    to satisfy its debt obligations. Investment grade credit ratings, therefore, tend to support  
11    enhanced access to debt capital for a company, even when market conditions are weak.  
12    For Ameren Missouri, investment grade credit ratings provide reasonable assurance that it  
13    will be able to access the capital markets on a timely basis, at a reasonable cost, and under  
14    reasonable terms and conditions. Again, for Ameren Missouri, ongoing access to the debt  
15    capital markets benefits its customers by supporting its service obligations, and lower debt  
16    costs achievable with investment grade credit ratings contribute to lower utility rates.

17          **Q.     Does Ameren Missouri target investment grade issuer credit ratings**  
18    **when it maintains its capital structure?**

19          A.     Yes. As explained, access to sufficient capital is critical to Ameren  
20    Missouri's financial health and stability and, in turn, to the service that its customers  
21    receive and the rates customers pay for that service. Therefore, in my opinion, Ameren  
22    Missouri's issuer credit ratings should be securely investment grade (at least two notches  
23    stronger than the various ratings agencies' weakest investment grade issuer credit rating)

1 to continue to support the financial integrity of the utility and ensure its access to necessary  
2 capital at a reasonable cost and on reasonable terms in both strong and weak markets.

3 **Q. What are Ameren Missouri’s current issuer credit ratings?**

4 A. Currently, Ameren Missouri’s issuer credit ratings at Moody’s and S&P are  
5 Baa1 and BBB+, respectively. Both credit rating agencies report stable outlooks for  
6 Ameren Missouri’s credit ratings.

7 **Q. Do you consider Ameren Missouri’s current issuer credit ratings to be**  
8 **securely investment grade?**

9 A. Yes.

10 **V. AMEREN MISSOURI’S ACTUAL & FORECASTED CAPITAL STRUCTURE**

11 **Q. What was Ameren Missouri’s capital structure as of December 31,**  
12 **2020, the end of the proposed test year in this case?**

13 A. Table 1 shows Ameren Missouri’s actual capital structure as of December  
14 31, 2020:

**Table 1**  
**As of December 31, 2020**

	<b>Balance</b>	<b>%</b>
Long-term debt	\$ 4,795,473,446	47.92%
Short-term debt	\$ -	0.00%
Preferred stock	\$ 81,827,509	0.82%
Common equity	\$ 5,129,705,232	51.26%
Total	\$ 10,007,006,187	100.00%

15  
16 **Q. What capital structure are you recommending in this case?**

17 A. I recommend that Ameren Missouri’s actual capital structure as of the  
18 recommended true-up date of September 30, 2021, be used in this case.

1           **Q.     How do you expect Ameren Missouri’s capital structure to change**  
2 **when the balances are trued-up through September 30, 2021?**

3           A.     Based on current projections, I expect Ameren Missouri’s capital structure  
4 as of the September 30, 2021 true-up date to be as follows in Table 2:

**Table 2**

	<u>As of December 31, 2020</u>		<u>Projected as of September 30, 2021</u>	
	<u>Balance</u>	<u>%</u>	<u>Balance</u>	<u>%</u>
Long-term debt	\$ 4,795,473,446	47.92%	\$ 5,320,922,800	47.34%
Short-term debt	\$ -	0.00%	\$ -	0.00%
Preferred stock	\$ 81,827,509	0.82%	\$ 81,827,509	0.73%
Common equity	\$ 5,129,705,232	51.26%	\$ 5,835,958,135	51.93%
5           Total	<u>\$ 10,007,006,187</u>	<u>100.00%</u>	<u>\$ 11,238,708,444</u>	<u>100.00%</u>

6           **Q.     How does the recommended capital structure compare to the**  
7 **Company's capital structure in recent years?**

8           A.     Ameren Missouri's proposed capital structure is consistent with recent years  
9 as its expected common equity ratio as of September 30, 2021 of 51.93% is squarely within  
10 the 51.81% - 52.51% range of such ratios between the years ended 2016 and 2019.

11           **Q.     Why did the year-end 2020 capital structure, and specifically the**  
12 **common equity ratio, modestly deviate from such range?**

13           A.     The common equity component of Ameren Missouri's year-end 2020  
14 capital structure was 51.26%, modestly below the range of ratios between the years ended  
15 2016 and 2019. The decline was in large part due to unplanned delays in consummating  
16 the announced acquisitions of approximately \$1.14 billion of wind generation facilities,  
17 resulting in approximately \$500 million of Company funding needs being deferred into

1 2021 from 2020.<sup>2</sup> In October 2020, Ameren Missouri issued \$550 million of 2.625% green  
2 first mortgage bonds in order to finance the entire targeted debt component of the  
3 acquisitions. Because of the delayed consummation of the wind generation facilities  
4 transactions, particularly the closing of the Atchison Renewable Energy Center acquisition,  
5 and to better align Ameren Missouri's financing schedule with its cash needs, the Company  
6 decided to raise the targeted equity component of the acquisition financing in two distinct  
7 phases. In December 2020, Ameren Missouri physically settled \$425 million of common  
8 equity pursuant to an August 2019 forward equity sale agreement, with such proceeds  
9 immediately provided to Ameren Missouri. The remaining shares available under the  
10 forward equity sale agreement (representing approximately \$113 million of common  
11 equity) were physically settled by Ameren on February 11, 2021 and the proceeds of the  
12 issuance were immediately contributed to Ameren Missouri. Had the entire additional  
13 equity investment by Ameren in Ameren Missouri been completed in 2020 as originally  
14 contemplated, the common equity component of the Company's year-end 2020 capital  
15 structure would have been more consistent with the projected capital structure as of  
16 September 30, 2021.

17 **Q. What constitutes a healthy capital structure for a regulated utility?**

18 A. Again, a healthy capital structure for a regulated utility is one that results in  
19 a reasonable balance between the overall cost of capital and the expected costs of financial  
20 distress.

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<sup>2</sup> Please see File Nos. EA-2018-0202 and EA-2019-0181 for more information regarding the wind generation facility acquisitions.

1           **Q.     Why do you believe that the capital structure recommended in your**  
2 **testimony is appropriate?**

3           A.     The capital structure recommended in my testimony reflects a reasonable  
4 balance between cost of capital and financial strength and stability. It allows Ameren  
5 Missouri to take advantage of the lower costs of debt financing without elevating the risk  
6 of default and the related costs of financial distress to an unreasonable level that would  
7 impair the creditworthiness and financial integrity of the Company.

8           **VI.    BALANCE AND EMBEDDED COST OF LONG-TERM DEBT**

9           **Q.     How was the balance of long-term debt determined?**

10          A.     The long-term debt balance of \$5,320,922,800 reflected in the proposed  
11 Ameren Missouri capital structure represents the projected total carrying value of the  
12 Company's long-term debt as of September 30, 2021. As detailed in Schedule DTS-D2,  
13 the carrying value of long-term debt was computed using the net proceeds method, which  
14 adjusts the face amount of long-term debt to properly account for unamortized discounts  
15 and premiums, long-term debt issuance expenses, and any gains or losses incurred in  
16 connection with long-term debt redemptions.

17          **Q.     Did you make any adjustments to Ameren Missouri's actual long-term**  
18 **debt balance in determining the long-term debt balance proposed in this proceeding?**

19          A.     I did not include in the proposed long-term debt balance the Company's  
20 obligations under capital leases related to the Chapter 100 financing of its Peno Creek (City  
21 of Bowling Green) and Audrain County gas-fired generating facilities. These transactions  
22 and related capital leases did not generate any proceeds, nor were they a source of new



1 capital for the Company. This treatment is consistent with that reflected in the Company's  
2 previous rate case orders.

3 **Q. How was the embedded cost of long-term debt determined?**

4 A. As reflected in Schedule DTS-D2, the embedded cost of long-term debt of  
5 3.85% was computed by dividing forecasted annualized interest expense as of September  
6 30, 2021, by the forecasted long-term debt carrying value as of such date.

7 **VII. BALANCE OF SHORT-TERM DEBT**

8 **Q. How was the balance of short-term debt determined?**

9 A. The balance of short-term debt of \$0 reflected in the proposed Ameren  
10 Missouri capital structure represents the forecasted average short-term debt balance for the  
11 twelve months ending September 30, 2021, net of cash and construction work in progress  
12 balances. As reflected in Schedule DTS-D3, the Company expects to have no net short-  
13 term borrowings during the period.

14 **VIII. BALANCE AND EMBEDDED COST OF PREFERRED STOCK**

15 **Q. How was the balance of preferred stock determined?**

16 A. The preferred stock balance of \$81,827,509 reflected in Ameren Missouri's  
17 proposed capital structure reflects the expected carrying value of, and the net proceeds  
18 received for, Ameren Missouri's projected preferred stock outstanding as of September 30,  
19 2021. The calculation of the preferred stock balance is shown in Schedule DTS-D4.

1           **Q.     How was the embedded cost of Ameren Missouri’s preferred stock**  
2 **determined?**

3           A.     As reflected in Schedule DTS-D4, the embedded cost of preferred stock of  
4 4.18% was computed by dividing forecasted annualized dividends by the net proceeds  
5 received for forecasted preferred stock outstanding as of September 30, 2021.

6           **Q.     Did you consider expenses incurred in connection with Ameren**  
7 **Missouri’s issuance of preferred stock in calculating the embedded cost of this**  
8 **component of the Company’s capital structure?**

9           A.     Yes. As reflected in Schedule DTS-D4, considered in the embedded cost of  
10 preferred stock is not only the cost of dividends, but also the cost of preferred stock  
11 issuance, including discounts, premiums, expenses, and any losses incurred in connection  
12 with redeeming prior preferred stock series. Unlike similar costs incurred in connection  
13 with the issuance and redemption of long-term debt, these expenses are not amortized over  
14 the life of the security due to the perpetual nature of preferred stock. Nonetheless, it is  
15 important and appropriate to consider these costs in order to accurately quantify the true  
16 economic cost of Ameren Missouri’s preferred stock and establish a fair overall rate of  
17 return for the Company.

18                   **IX.     BALANCE AND COST OF COMMON EQUITY**

19           **Q.     How was the balance of Ameren Missouri’s common equity**  
20 **determined?**

21           A.     The common equity balance of \$5,835,958,135 reflected in Ameren  
22 Missouri’s proposed capital structure reflects Ameren Missouri’s forecasted book value of  
23 common equity as of September 30, 2021. Common equity is generally reflected net of

1 accumulated other comprehensive income ("AOCI"), but AOCI is projected to be zero as  
2 of September 30, 2021.

3 **Q. How was the cost of common equity determined?**

4 A. In her testimony in this case, Ms. Bulkley states that the cost of common  
5 equity capital for Ameren Missouri's integrated electric operations is currently within the  
6 range of 9.75% to 10.50% and recommends that the Commission allow Ameren Missouri  
7 the opportunity to earn a return on common equity of 9.90%. As a consequence, in  
8 forecasting Ameren Missouri's overall weighted average cost of capital for its electric  
9 business, I have assumed a cost of common equity of 9.90%, and Ameren Missouri requests  
10 that the Commission approve a return on common equity of 9.90% in this case.

11 **X. FAIR RATE OF RETURN**

12 **Q. What do you propose is a fair overall rate of return for Ameren**  
13 **Missouri in this case?**

14 A. I believe a return of 7.00%, which is equivalent to Ameren Missouri's  
15 forecasted weighted average cost of capital as of September 30, 2021, is fair and  
16 reasonable. The calculation of the Company's forecasted weighted average cost of capital,  
17 considering the debt, preferred stock, and common equity balances and costs set forth  
18 above, is reflected in Schedule DTS-D1.

19 **Q. Does this conclude your direct testimony?**

20 A. Yes, it does.

**APPENDIX A**  
**STATEMENT OF QUALIFICATIONS**

**DARRYL T. SAGEL**

1           My name is Darryl T. Sagel. My business address is One Ameren Plaza, 1901  
2 Chouteau Avenue, St. Louis, Missouri, 63103. I am employed by Ameren Services  
3 Company as Vice President and Treasurer. As Treasurer, I am responsible for all areas of  
4 the treasury functional area of Ameren Corporation and its subsidiaries, including  
5 corporate finance, cash and investment management, insurance, credit risk management,  
6 investor relations, investor services and corporate development. Within the areas of  
7 corporate finance, I am responsible for, among other things, managing Ameren  
8 Corporation's and its subsidiaries' capital raising initiatives and capital structure, including  
9 their short-term and long-term financing activities, such as debt and equity issuances and  
10 credit facility arrangements. I am also responsible for monitoring and managing Ameren's  
11 and its subsidiaries' liquidity positions, key credit metrics, and debt agreement compliance,  
12 overseeing relationships with credit rating agencies and banks, and monitoring capital  
13 markets for key developments, emerging risks, and opportunities, among other corporate  
14 finance-related activities.

15           I received my Bachelor of Arts degree in Quantitative Economics in 1994 from  
16 Stanford University.

17           I have more than 26 years of experience in various finance and strategy roles. Upon  
18 graduating from college in 1994, I joined the Investment Research Department at Goldman  
19 Sachs, & Co. based in New York City, where I aided in the research coverage of  
20 approximately 100 domestic and international electric and gas utility companies. In 1996,

1 I transferred to Goldman Sachs' Investment Banking Division, within which I advised  
2 energy and utility clients in the U.S. and internationally in raising capital and structuring  
3 merger and acquisition (M&A) transactions. In 2000, I took a position at Morgan Stanley  
4 & Co., working within the company's Mergers & Acquisitions group and focusing  
5 predominantly on assisting global power and utilities clients on M&A-related matters.  
6 After over three years on the Morgan Stanley investment banking platform, in 2003, I  
7 moved to Lazard Freres & Co. (Lazard), where I continued to originate and execute  
8 financial advisory assignments for a broad range of domestic and international power and  
9 utility companies and alternative energy companies. For several years during my tenure, I  
10 was a Partner and co-head of Lazard's North American Power & Utilities practice. In 2010,  
11 I left Lazard to join Rothschild Inc. to head its North American Power & Utilities group.  
12 In total, I amassed over 18 years of experience as an investment banker covering the broad  
13 power and utilities sector, working on a wide array of transformative and incremental  
14 M&A transactions, corporate restructurings and capital raising initiatives. In mid-2012, I  
15 joined Ameren Services as Director of Corporate Development, overseeing the company's  
16 M&A functional area, as well as originating and executing direct investment and corporate  
17 partnership opportunities. I was promoted to Assistant Vice President, Corporate  
18 Development in 2016 and again promoted to Vice President, Corporate Development in  
19 2017. In July 2018, I inherited oversight of all of Ameren's treasury functions and my title  
20 changed to Vice President and Treasurer.

**Union Electric Company d/b/a Ameren Missouri  
Capital Structure/Weighted Average Cost of Capital**

Projected at 9/30/2021:

<b>CAPITAL COMPONENT</b>	<b>AMOUNT</b>	<b>PERCENT OF TOTAL</b>	<b>COST</b>	<b>WEIGHTED COST</b>
Long-Term Debt	\$5,320,922,800	47.345%	3.853%	1.824%
Short-Term Debt	\$0	0.000%	0.000%	0.000%
Preferred Stock	\$81,827,509	0.728%	4.180%	0.030%
Common Equity	\$5,835,958,135	51.927%	9.900%	5.141%
<b>TOTAL</b>	<b>\$11,238,708,444</b>	<b>100.000%</b>		<b>6.995%</b>

**Union Electric Company d/b/a Ameren Missouri**  
**Embedded Cost of Long-Term Debt**

at September 30, 2021

SERIES C1	COUPON (a) C2	ISSUED C3	MATURITY C4	PRINCIPAL C5	FACE AMOUNT OUTSTANDING C6	UNAMORTIZED BALANCES			CARRYING VALUE C10	ANNUALIZED COUPON INT. C11	ANNUALIZED AMORTIZATION			ANNUALIZED EXPENSE C15	EMBEDDED COST C16
						DISC/(PREM) C7	ISSUE EXP. C8	LOSS C9			DISC/(PREM) C12	ISSUE EXP C13	LOSS C14		
Senior Secured Notes	3.500%	04-Apr-14	15-Apr-24	\$350,000,000	\$350,000,000	\$15,945	\$726,840			\$12,250,000	\$6,282	\$290,736			
Senior Secured Notes	2.950%	15-Jun-17	15-Jun-27	\$400,000,000	\$400,000,000	\$744,005	\$1,935,588			\$11,800,000	\$130,399	\$336,624			
First Mortgage Bonds	3.500%	06-Mar-19	15-Mar-29	\$450,000,000	\$450,000,000	\$284,463	\$3,298,874			\$15,750,000	\$38,156	\$444,792			
First Mortgage Bonds	2.950%	20-Mar-20	15-Mar-30	\$465,000,000	\$465,000,000	\$338,617	\$3,340,296			\$13,717,500	\$40,034	\$392,976			
First Mortgage Bonds	1.600%	15-Jun-21	21-Mar-32	\$525,000,000	\$525,000,000	\$0	\$4,146,851			\$8,400,000	\$0	\$396,512			
Senior Secured Notes	5.500%	10-Mar-03	15-Mar-34	\$184,000,000	\$184,000,000	\$825,426	\$725,400			\$10,120,000	\$66,269	\$58,032			
Senior Secured Notes	5.300%	21-Jul-05	01-Aug-37	\$300,000,000	\$300,000,000	\$502,768	\$1,475,350			\$15,900,000	\$31,752	\$93,180			
Senior Secured Notes	8.450%	20-Mar-09	15-Mar-39	\$350,000,000	\$350,000,000	\$678,461	\$2,027,970			\$29,575,000	\$38,869	\$115,884			
Senior Secured Notes	3.900%	11-Sep-12	15-Sep-42	\$485,000,000	\$485,000,000	\$1,781,330	\$3,382,596			\$18,915,000	\$85,007	\$161,076			
Senior Secured Notes	3.650%	06-Apr-15	15-Apr-45	\$250,000,000	\$250,000,000	\$461,851	\$2,190,012			\$9,125,000	\$19,621	\$93,192			
Senior Secured Notes	3.650%	23-Jun-16	15-Apr-45	\$150,000,000	\$150,000,000	\$612,224	\$1,436,508			\$5,475,000	\$26,009	\$61,128			
First Mortgage Bonds	4.000%	06-Apr-18	01-Apr-48	\$425,000,000	\$425,000,000	\$1,626,308	\$4,004,892			\$17,000,000	\$61,369	\$151,128			
First Mortgage Bonds	3.250%	01-Oct-19	01-Oct-49	\$330,000,000	\$330,000,000	\$1,056,442	\$3,291,456			\$10,725,000	\$37,728	\$117,552			
First Mortgage Bonds	2.625%	09-Oct-20	15-Mar-51	\$550,000,000	\$550,000,000	\$2,545,455	\$5,190,843			\$14,437,500	\$85,157	\$175,956			
Environmental Improvement, Series 1992	1.600%	01-Dec-92	01-Dec-22	\$47,500,000	\$47,500,000		\$95,130			\$760,000		\$81,540			
Environmental Improvement, Series 1998A	2.900%	04-Sep-98	01-Sep-33	\$60,000,000	\$60,000,000		\$555,698			\$1,740,000		\$46,632			
Environmental Improvement, Series 1998B	2.900%	04-Sep-98	01-Sep-33	\$50,000,000	\$50,000,000		\$466,895			\$1,450,000		\$39,180			
Environmental Improvement, Series 1998C	2.750%	04-Sep-98	01-Sep-33	\$50,000,000	\$50,000,000		\$467,038			\$1,375,000		\$39,192			
<b>TOTAL LONG-TERM DEBT</b>				<b>\$5,421,500,000</b>	<b>\$5,421,500,000</b>	<b>\$11,473,295</b>	<b>\$38,758,237</b>	<b>\$50,345,668</b>	<b>\$5,320,922,800</b>	<b>\$198,515,000</b>	<b>\$666,652</b>	<b>\$3,095,312</b>	<b>\$2,762,820</b>	<b>\$205,039,784</b>	<b>3.853%</b>

Carrying Value = Face Amount Outstanding less Unamortized Discount, Issuance Expenses, and Loss on Recquired Debt

$$C10 = C6 - C7 - C8 - C9$$

Annualized Expense = Annual Coupon Interest plus Annual Amortization of Discount, Issuance Expenses, and Loss on Recquired Debt

$$C15 = C11 + C12 + C13 + C14$$

Embedded Cost = Annualized Expense divided by Carrying Value

$$C16 = C15 / C10$$

Note: Shaded figures reflect current estimates.

**Union Electric Company d/b/a Ameren Missouri**  
**Cost of Short-term Debt**

MONTH C1	BALANCE OF SHORT-TERM DEBT (a) C2	BALANCE OF TOTAL CWIP C3	BALANCE OF CWIP ACCRUING AFUDC C4	NET AMOUNT OUTSTANDING C5	INTEREST RATE C6
October 2020	\$0	\$750,514,355	\$722,724,508	\$0	--
November	\$0	\$600,893,896	\$714,125,340	\$0	--
December	\$0	\$463,258,002	\$536,758,061	\$0	--
January 2021	\$105,889,222	\$486,410,738	\$459,479,798	\$0	--
February	\$143,425,000	\$525,007,805	\$485,766,074	\$0	--
March	\$322,248,511	\$702,507,715	\$730,608,024	\$0	--
April	\$394,000,535	\$763,928,369	\$794,485,504	\$0	--
May	\$431,964,862	\$818,389,755	\$851,125,345	\$0	--
June	\$6,636,333	\$788,082,682	\$819,605,989	\$0	--
July	\$0	\$843,112,259	\$876,836,749	\$0	--
August	\$0	\$915,700,838	\$952,328,872	\$0	--
September	\$0	\$876,981,358	\$912,060,612	\$0	--
<b>AVERAGE</b>	<b>\$117,013,705</b>	<b>\$711,232,314</b>	<b>\$737,992,073</b>	<b>\$0</b>	

C5 Net Amount Outstanding = Balance of Short-Term Debt less Balance of CWIP Accruing AFUDC

$$C5 = C2 - C4$$

(a) Short-term debt amounts are net of cash and short-term investments. Negative amounts are excluded.

(b) CWIP accruing AFUDC is estimated to be 104% of CWIP for the months March 2021 through September 2021.

Note: Shaded figures reflect current estimates.



**Union Electric Company d/b/a Ameren Missouri  
Embedded Cost of Preferred Stock**

at September 30, 2021

SERIES, TYPE, PAR C1	DIVIDEND C2	ISSUED C3	MATURITY C4	SHARES OUTSTANDING C5	PAR ISSUED/ OUTSTANDING C6	PREMIUM C7	ISSUANCE EXPENSE/DISCOUNT C8	NET PROCEEDS C9	ANNUAL DIVIDEND C10	EMBEDDED COST C11
\$3.50 Series, Perpetual, \$100 par	\$3.500	01-May-46	-	130,000	\$13,000,000	(\$910,000)	\$252,772	\$13,657,228	\$455,000	
\$3.70 Series, Perpetual, \$100 par	\$3.700	01-Oct-45	-	40,000	\$4,000,000	(\$70,000)	\$69,396	\$4,000,604	\$148,000	
\$4.00 Series, Perpetual, \$100 par	\$4.000	01-Nov-49	-	150,000	\$15,000,000	(\$384,000)	\$326,896	\$15,057,104	\$600,000	
\$4.30 Series, Perpetual, \$100 par	\$4.300	01-Jul-46	-	40,000	\$4,000,000			\$4,000,000	\$172,000	
\$4.50 Series, Perpetual, \$100 par	\$4.500	01-May-41	-	213,595	\$21,359,500	(\$825,000)	\$440,294	\$21,744,206	\$961,178	
\$4.56 Series, Perpetual, \$100 par	\$4.560	01-Nov-63	-	200,000	\$20,000,000	(\$266,000)	\$297,633	\$19,968,367	\$912,000	
\$4.75 Series, Perpetual, \$100 par	\$4.750	01-Oct-49	-	20,000	\$2,000,000			\$2,000,000	\$95,000	
\$5.50 Series, Perpetual, \$100 par	\$5.500	01-Oct-41	-	14,000	\$1,400,000			\$1,400,000	\$77,000	
<b>TOTAL PREFERRED STOCK</b>					<b>\$80,759,500</b>	<b>(\$2,455,000)</b>	<b>\$1,386,991</b>	<b>\$81,827,509</b>	<b>\$3,420,178</b>	<b>4.180%</b>

issuance expenses, discount/premium, and any loss incurred in acquiring/redeeming prior series are not amortized due to the perpetual nature of the company's preferred stock

Net Proceeds = Par Value Outstanding plus Premium less Issuance Expense and Discount

$$C9 = C6 + C7 - C8$$

Embedded Cost = Annual Dividend divided by Net Proceeds

$$C11 = C10 / C9$$