STATE OF MISSOURI PUBLIC SERVICE COMMISSION

At a session of the Public Service Commission held at its Office in Jefferson City, Missouri on the 26th day of October, 2022.

In the Matter of a Determination of Special)	
Contemporary Resource Planning Issues to be)	
Addressed by Ameren Missouri in its Next)	File No. EO-2023-0099
Triennial Compliance Filing or Next Annual)	
Update Report)	

ORDER ESTABLISHING SPECIAL CONTEMPORARY RESOURCE PLANNING ISSUES

Issue Date: October 26, 2022 Effective Date: November 5, 2022

A provision in the Commission's electric utility resource planning rule, 20 CSR 4240-22.080(4), requires Missouri's electric utilities to consider and analyze special contemporary issues in their integrated resource plan (IRP) triennial compliance filings or in their annual IRP update reports. The regulation provides that by September 15 of each year, the Commission's Staff (Staff), the Office of the Public Counsel (Public Counsel), and other interested stakeholders may file suggested issues for consideration. The regulation allows the utilities and other stakeholders until October 1 to file comments regarding the suggested issues. The Commission is then to issue an order by November 1 of each year specifying the list of special contemporary issues that each electric utility must address.

Staff, Public Counsel, Sierra Club, and Renew Missouri Advocates d/b/a Renew Missouri filed suggested special contemporary issues for Union Electric Company d/b/a Ameren Missouri (Ameren Missouri) to analyze and respond to in its 2023 triennial IRP

Filing.¹ Ameren Missouri filed responses to those suggestions. The Commission must now determine what special contemporary issues Ameren Missouri should address.

This is not a contested case. The Commission does not need to hear evidence before reaching a decision and does not need to make findings of fact and conclusions of law in announcing that decision.² The Commission's rule gives the Commission broad discretion in determining what issues a utility should be required to address, indicating:

[t]he purpose of the contemporary issues lists is to ensure that evolving regulatory, economic, financial, environmental, energy, technical, or customer issues are adequately addressed by each utility in its electric resource planning. Each special contemporary issues list will identify new and evolving issues but may also include other issues such as unresolved deficiencies or concerns from the preceding triennial compliance filing.³

After considering these factors, the Commission will adopt the list of special contemporary issues set forth in this order. The Commission has chosen these issues because they are of particular interest and importance and should be addressed in Ameren Missouri's IRP filing. Ameren Missouri may already plan to address these issues in its triennial IRP filing apart from their designation as special contemporary issues, or it may believe it has already adequately addressed some of these issues in a previous IRP filing, or some other filing. If that is so, it does not need to undertake any additional analysis because of this designation and may simply explain in its upcoming IRP filing exactly where the Commission can find that other analysis. The Commission does not intend that a utility spend an unreasonable amount to address any special contemporary

¹ Staff suggests Ameren Missouri be directed to address these special contemporary issues by December 15, 2022, since its next IRP filing will not be due until October 2023. There is no support in the applicable IRP regulations for requiring Ameren Missouri to make an additional filing and the Commission will not do so.

² State ex rel. Public Counsel v. Public Service Com'n, 259 S.W.3d 23, 29 (Mo. App. W.D. 2008).

³ 20 CSR 4240-22.080(4).

issue. If Ameren Missouri finds that the cost to address a special contemporary issue is excessive, it may explain its concerns in its next IRP filing, while addressing the issue to the extent reasonably possible.

To give Ameren Missouri as much time as possible to examine these issues before its next IRP filing, the Commission will make this order effective in ten days.

THE COMMISSION ORDERS THAT:

- 1. Ameren Missouri shall analyze and document the following special contemporary issues in its 2023 triennial IRP filing:
 - A. Explore the feasibility, impacts, and potential mitigation of a potentially more pronounced urban heat island over the greater St. Louis urban area over a twenty-year IRP cycle.
 - B. Model for low, medium, and high participation scenarios of commercial and industrial customers electing to participate in demand response activities based on the introduction of third-party ARCs within its footprint and provide an analysis of that impact ARCs would have on its IRP.
 - C. Account for and explicitly identify cost reductions, tax credits (including all available tax credits for renewable and storage assets), additional funding sources, and other potential benefits from the Inflation Reduction Act and incorporate those changes into its IRP modeling as appropriate.
 - D. Update its analysis and planning activities regarding actions necessary for system-wide voltage optimization analysis of its distribution system.

- E. Analyze the impact resulting from satisfaction of the clean energy goals of large customers in general, and St. Louis' municipal clean energy goals in particular.
- F. Study and/or model various technologies and programs designed to reduce demand on the customer side of the meter, including but not limited to:
 - Residential demand response programs, pairing increased rebates for web-enabled or "smart" thermostats with demand response program participation;
 - Increased rebates for residential electric vehicle charging units
 paired with customer agreements to participate in a program allowing
 the Company's use of electricity from a customer's connected
 electric vehicle at times of high demand;
 - New rebates for residential battery storage units paired with customer agreements to participate in a program allowing the Company's use of batteries at times of high demand;
 - A program offering free installation of utility-owned battery storage units in exchange for customer agreements to allow the Company to use batteries at times of high demand.
- G. Study and/or model the potential for utility-scale battery storage to meet current and future demand, including:
 - Consideration of the range of potential price reductions in these technologies over the coming two decades;

- Consideration of pumped hydro, stacked blocks, liquid air, above-ground and underground compressed air, and flow battery technologies in addition to lithium-ion battery technologies;
- Pairing mid-scale deployments of battery storage technologies with current and future utility-scale solar generation sites; and
- 4. Offering free installation of utility-owned battery storage systems to large commercial and industrial customers in exchange for the Company's use of systems at times of high peak demand.
- H. Model stand-alone or hybrid battery storage resources.
- 2. This order shall become effective on November 5, 2022.

BY THE COMMISSION

Morris L. Woodruff

Secretary

Silvey, Chm., Rupp, Coleman, Holsman, and Kolkmeyer CC., concur.

Woodruff, Chief Regulatory Law Judge

STATE OF MISSOURI

OFFICE OF THE PUBLIC SERVICE COMMISSION

I have compared the preceding copy with the original on file in this office and I do hereby certify the same to be a true copy therefrom and the whole thereof.

WITNESS my hand and seal of the Public Service Commission, at Jefferson City, Missouri, this 26th day of October, 2022.

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Morris L. Woodruff Secretary

MISSOURI PUBLIC SERVICE COMMISSION October 26, 2022

File/Case No. EO-2023-0099

Missouri Public Service Commission

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Union Electric Company

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Enclosed find a certified copy of an Order or Notice issued in the above-referenced matter(s).

Sincerely,

Morris L. Woodruff Secretary

Porris L Wooduff

Recipients listed above with a valid e-mail address will receive electronic service. Recipients without a valid e-mail address will receive paper service.