

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of a Determination of Special)
Contemporary Resource Planning Issues to be)
Addressed by The Empire District Electric) File No. EO-2023-0102
Company d/b/a Liberty in its Next Triennial)
Compliance Filing or Next Annual Update Report)

**RENEW MISSOURI’S LIST OF SUGGESTED
SPECIAL CONTEMPORARY ISSUES**

COMES NOW Renew Missouri Advocates (“Renew Missouri”), pursuant to the Commission’s September 13, 2022 Order in this case, and herein submits these suggested issues for The Empire District Electric Company d/b/a Liberty (the “Company”) to consider as Special Contemporary Resource Planning Issues:

1. Study and/or model various technologies and programs designed to reduce demand on the customer side of the meter, including but not limited to:
 - a. Residential demand response programs, pairing increased rebates for web-enabled or “smart” thermostats with demand response program participation;
 - b. 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;
 - c. 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;
 - d. A program offering free installation of utility-owned battery storage units in exchange for customer agreements to allow the Company use of batteries at times

of high demand. Specifically, the Company should consider marketing this offering to all of its net-metered customers;

2. Study and/or model the potential for utility-scale battery storage to meet current and future demand, including:
 - a. Consideration of the range of potential price reductions in these technologies over the coming two decades;
 - b. 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;
 - c. Pairing mid-scale deployments of battery storage technologies with current and future utility-scale solar generation sites;
 - d. Offering free installation of utility-owned battery storage systems to large commercial and industrial customers in exchange for the Company's use of the systems at times of high peak. Consideration should include: university campuses, municipalities, sports complexes, high-rise commercial buildings or skyscrapers, hospitals and medical centers, shopping centers, and other areas of dense development.

Respectfully submitted,

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Certificate of Service

I hereby certify that copies of the foregoing have been emailed to all counsel of record this 15th day of September 2022:

/s/ Alissa Greenwald