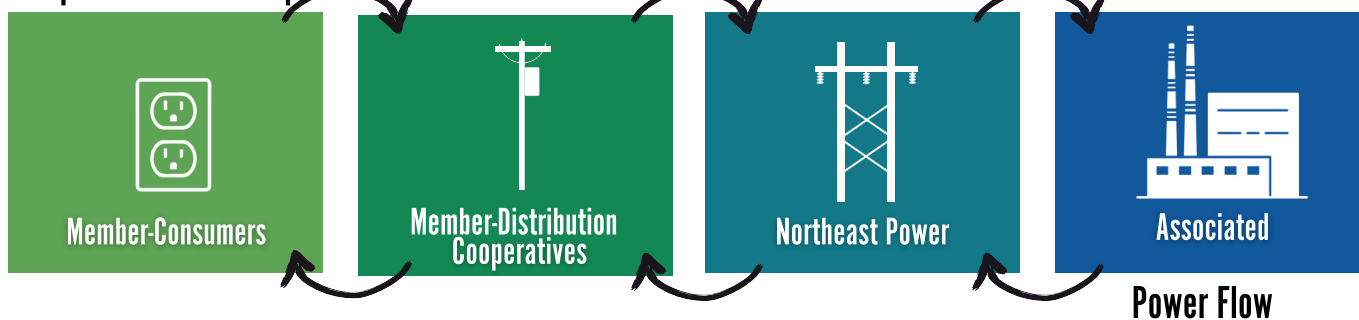


# MARK BOTTOMS TRANSMISSION LINE REBUILD

## ABOUT OUR POWER SYSTEM

Northeast Missouri Electric Power Cooperative (Northeast Power) is part of a three-tiered not-for-profit electric cooperative system. Each tier has its own set of unique responsibilities. Northeast Power is part of the second level of the three-tiered system, which is primarily responsible for transmission services and delivery of wholesale power to our member-distribution cooperatives, including Missouri Electric Cooperative.

### Cooperative Ownership



## ABOUT THE PROJECT

Northeast Power has identified a need to upgrade transmission infrastructure by rebuilding portions of existing lines within the Mark Bottoms, northeast of Palmyra. One 161 kV line runs from Northeast Power's South River 161 kV Substation east of Palmyra to the Palmyra 345 Substation northwest of Palmyra. A second 161 kV transmission line runs from Northeast Power's South River 161 kV Substation to the Emerson Substation, near Emerson. The rebuild also includes a 69 kV line that runs from Northeast Power's 69 kV South River Switch Station to the Taylor Substation, near Taylor.

By relocating and co-locating lines on shared corridors, and rebuilding on taller structures, this rebuild project will increase reliability during flooding events and help meet the long-term needs of our electric cooperative members and communities.

The project will consist of reconstructing approximately 12.2 miles of existing 161 kV transmission line and 6.7 miles of 69 kV transmission line within the Mark Bottoms and adjacent uplands. Single circuit and parallel double circuit configurations supported on steel monopoles and wood H-structures will be used for construction. Most of the conductor will be replaced with large conductor.



**IMPROVES SAFETY AND RELIABILITY DURING FLOODING**



**SUPPORTS REGIONAL LOAD GROWTH**



**COORDINATION REDUCES LANDOWNER IMPACT**



**ENHANCES VOLTAGE SUPPORT AND RELIABILITY**

# PROJECT DESCRIPTION



## LOCATION

- The project will take place in the Mark Bottoms and adjacent uplands located northeast of Palmyra, Missouri.



## CONSTRUCTION

- Construction of the lines will occur over a 9-month period.
- The project will be designed to meet or exceed the National Electrical Safety Code (NESC) and United States of Department of Agriculture Rural Utilities Service (USDA RUS standards for required clearances).



## STRUCTURES

- Both steel monopole and wood H-structure configurations are used for this rebuild.
- The average span length for these structures is 600-800 feet.



## REAL ESTATE

- Supplemental easements will be obtained on existing easements to better clarify rights and obligations of each party.
- A small number of new 150-foot easements will be sought for a portion of the rebuild that is being realigned.
- Compensation will be offered in return for the granting of an easement.

## ANTICIPATED TIMELINE

*Project timeline subject to change.*

- Engineering/Design
- Right-of-Way
- Field Studies/Permitting
- Procurement
- Procurement (Continued)
- Permitting
- Supplemental Easement Acquisition
- Construction
- Project Completion

2024

2025

2026

2027