

Big Sandy-Thelma Transmission Improvements Project

Kentucky Power and Appalachian Power representatives plan to upgrade the electric transmission grid in Lawrence and Johnson counties, Kentucky and Wayne County, West Virginia. Construction begins fall 2029 and concludes by fall 2030.

What

The project involves:

- Rebuilding approximately 26 miles of 138-kilovolt (kV) transmission line between Big Sandy and Thelma substations
- Improving the connection into Busseyville Substation

The project team plans to rebuild in or near the existing right-of-way where possible and will seek new and supplemental easements to avoid encroachments, slides, and other constraints.

This project involves filing applications with the Kentucky Public Service Commission and the Public Service Commission of West Virginia.

Why

This line has experienced numerous outages in the last 12 years due to lightning strikes and vegetation encroachments.

Project benefits include:

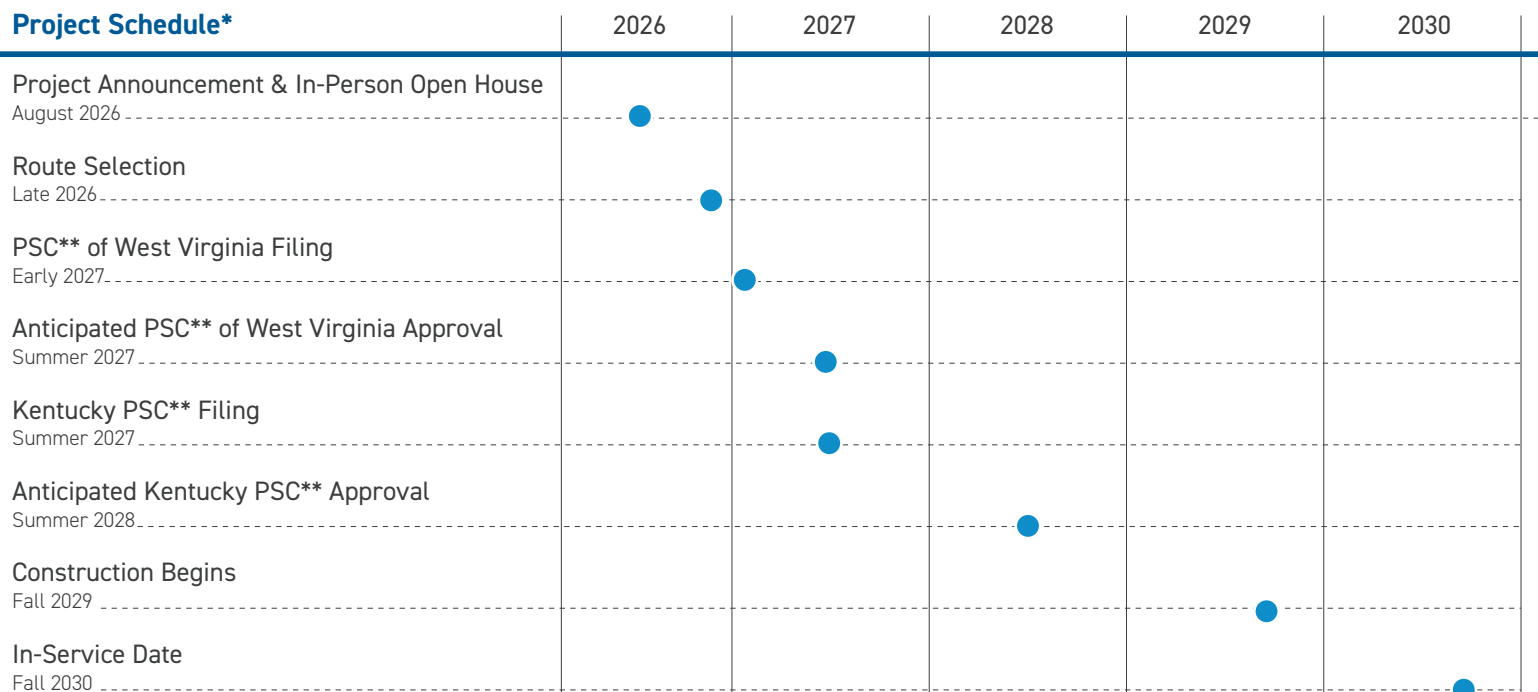
- Replacing 1960s-era infrastructure to provide more efficient energy delivery
- Increasing electric reliability and reducing outages for area customers
- Strengthening the local electric power grid against severe weather events

Where

The project area includes:

- Lawrence County, Kentucky
- Johnson County, Kentucky
- Wayne County, West Virginia

Project Schedule*



*Timeline subject to change. **Public Service Commission

Typical Structures

Crews plan to install steel H-frame, three-pole structures and lattice tower structures along the line route.

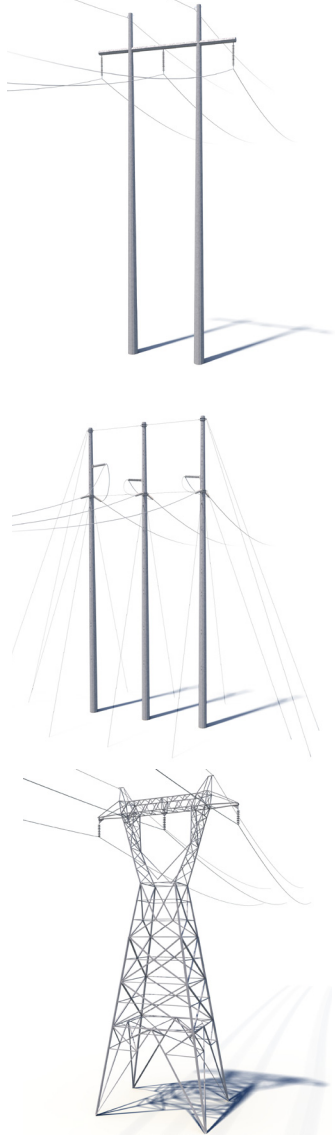
Current Structure Height: 60-80 feet

Typical Structure Height: 80-120 feet*

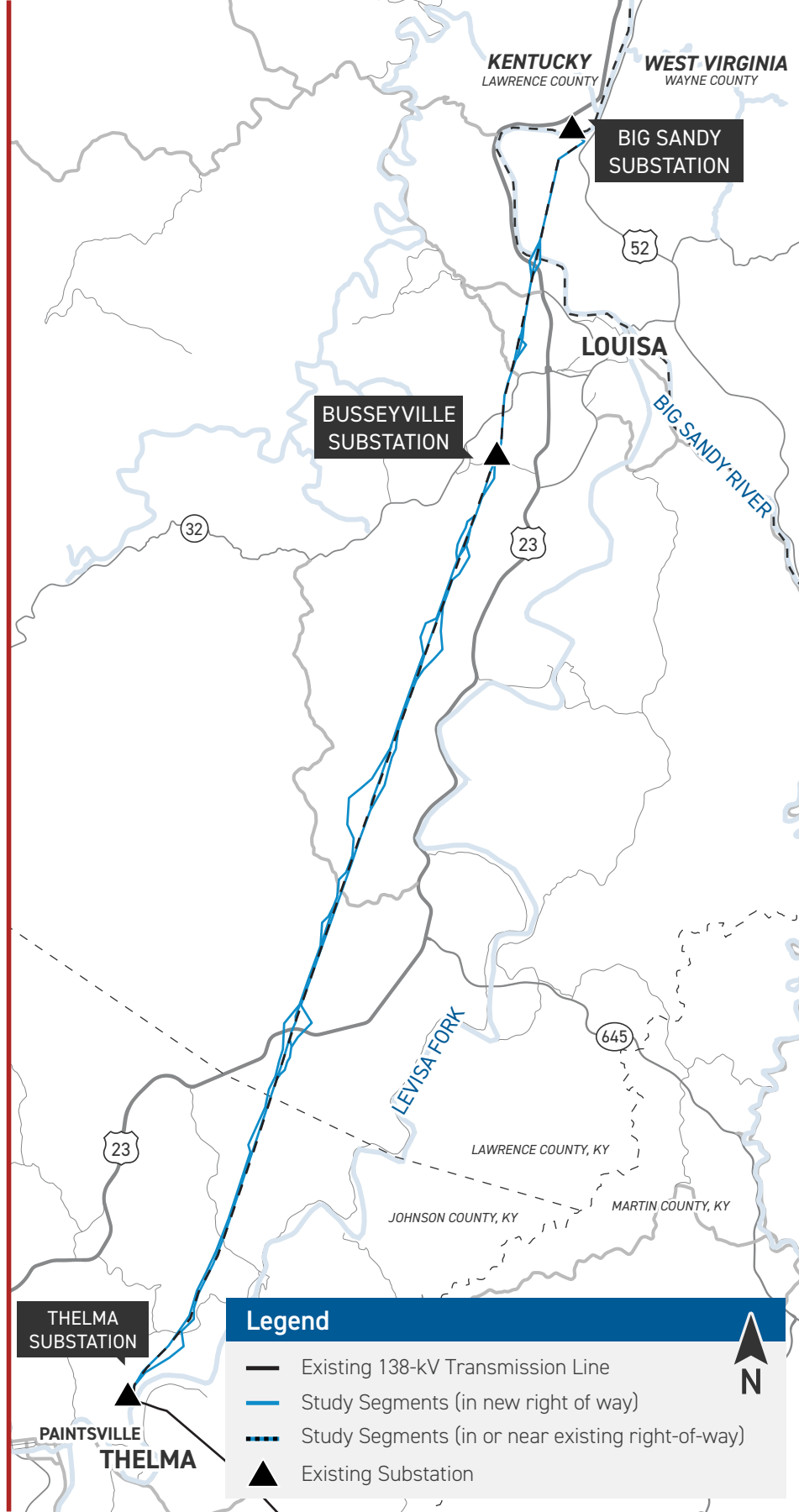
Current Right-of-Way Width: 50 feet

Right-of-Way Width: Approximately 100 feet*

Primary Structure



**Exact structure type, height, and right-of-way requirements may vary.*



We value your input. Please send comments and questions to:

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