

# Coleman - Grapevine Transmission Improvements Project

Kentucky Power and Appalachian Power representatives plan to increase electric reliability by making transmission line and substation upgrades in Pike County, Kentucky and Mingo County, West Virginia. Crews plan to begin construction in fall 2027 and conclude by spring 2029.

## What

The project involves:

- Rebuilding approximately 6 miles of 69-kilovolt (kV) transmission line
- Building approximately 3 miles of new 46-kV transmission line
- Building the new Peter Creek Substation to replace Barrenshe Substation
- Retiring Barrenshe Substation

The project involves filing applications with the Kentucky and West Virginia Public Service Commissions (PSC).

## Why

The line was originally built in the 1920's and all the equipment is between 50 and 100 years old. Rebuilding this line will include the following benefits:

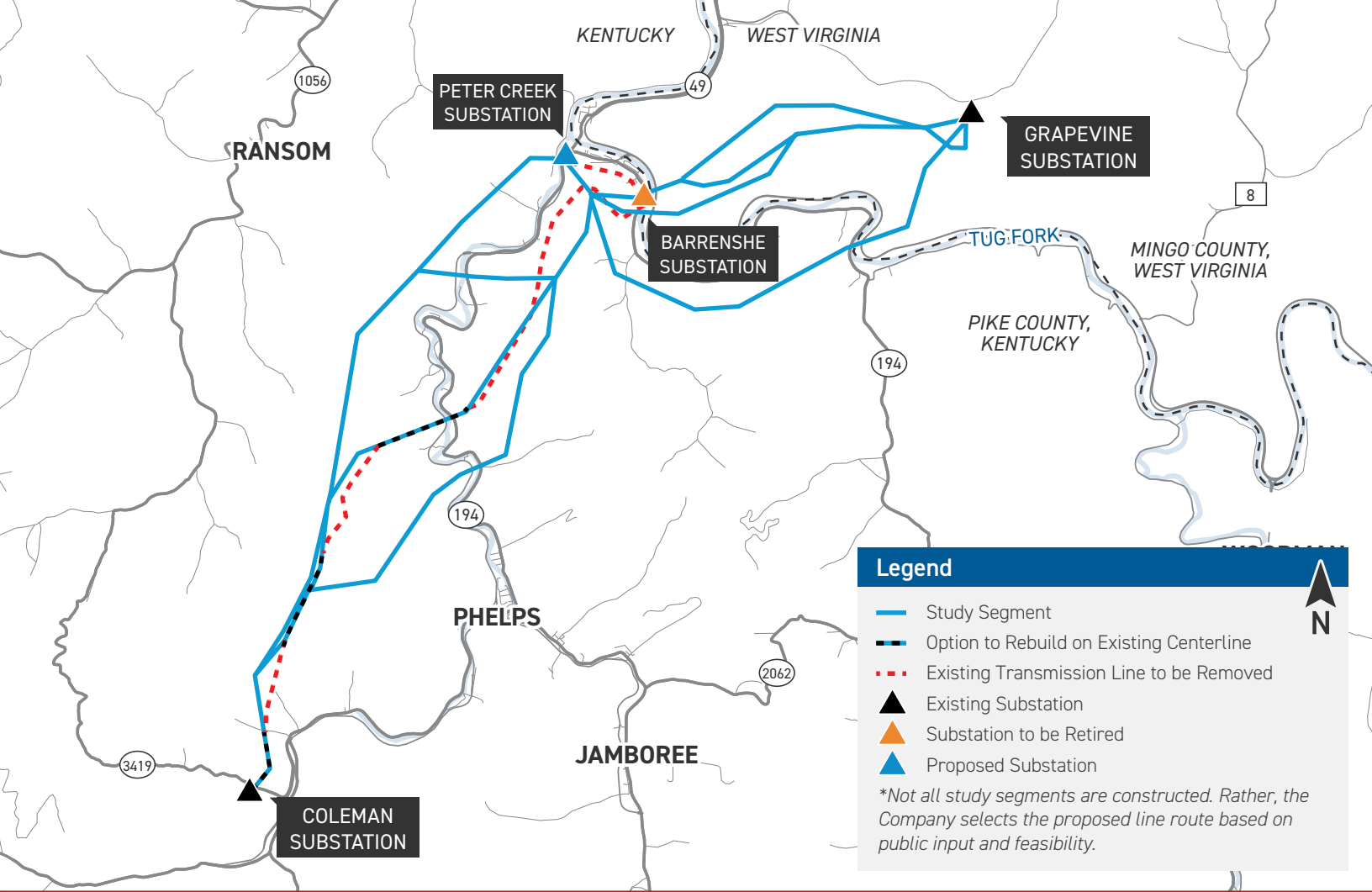
- Replacing aging transmission equipment with modern infrastructure.
- Increasing electric reliability in the area which will reduce the likelihood and duration of outages.
- Enabling the retirement of equipment located on difficult terrain.

## Where

The line route begins at the Coleman Substation in Pike County, Kentucky, near Blackberry Fork Road. From there, it will continue northeast to the proposed Peter Creek Substation in Pike County, Kentucky, near KY-194. It will then exit Peter Creek Substation to continue east and terminate at the Grapevine Substation in Pike County, Kentucky, near US-119.

## Project Schedule

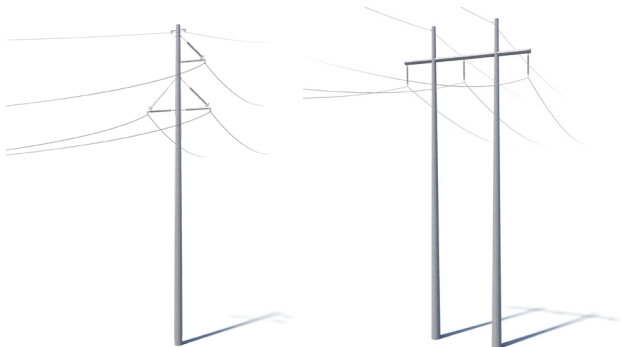
|                                                             | 2026 | 2027 | 2028 | 2029 |
|-------------------------------------------------------------|------|------|------|------|
| Project Announcement and Virtual Open House<br>Summer 2026  | ●    |      |      |      |
| In-Person Open House<br>Summer 2026                         | ●    |      |      |      |
| Proposed Route Announcement<br>Fall 2026                    | ●    |      |      |      |
| Right of Way Communications Begin<br>Late 2026              | ●    |      |      |      |
| Submit for Approval to the WV and KY PSC*<br>Late 2026      | ●    |      |      |      |
| Anticipated Approval from the WV and KY PSC*<br>Summer 2027 |      | ●    |      |      |
| Construction Begins<br>Fall 2027                            |      | ●    |      |      |
| Project In Service<br>Spring 2029                           |      |      |      | ●    |



## Typical Structures

The Project primarily involves the use of steel H-Frames and some monopole structures.

Existing Average Structure Height: Approximately 50 feet  
 Proposed Structure Height: Approximately 90 feet  
 Proposed Right-of-Way Width: 100 feet



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

## Typical Substation

Substations serve as electrical intersections directing the flow of electricity and either decrease or increase voltage levels for transport. Substations transform 69-kV and 138-kV electricity into lower distribution level voltages such as 34.5-kV, 12-kV, or 7.2-kV.



*\*Substation shown is a general depiction of the proposed facilities for the project. It does not represent final design.*



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

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[AppalachianPower.com/Coleman-Grapevine](http://AppalachianPower.com/Coleman-Grapevine)

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