

Opossum Creek - Smith Mountain Transmission Line Rebuild Project

Appalachian Power representatives plan to upgrade the electric transmission grid by making upgrades in Bedford and Campbell counties in Virginia. Construction is expected to begin in spring 2028 and conclude by late 2029.

What

The project involves:

- Rebuilding approximately 30 miles of 138 kilovolt (kV) transmission line.
- Upgrading the Smith Mountain, Leesville, Redeye, Candler Mountain and Opossum Creek substations in Campbell and Bedford counties in Virginia.

*The project involves filing an application with the Virginia State Corporation Commission (SCC).

Why

The project is mandated by the regional transmission operator, PJM, which manages the electric grid in this region. PJM identified a need for the project as the area continues to grow and requires additional power capacity.

These improvements:

- Increase reliability for area customers and support the area's economic development.
- Replace deteriorating equipment with modern steel infrastructure. The power line has experienced many outages related to vegetation, lightning and operational performance issues. Updating the equipment improves reliability and resiliency of the local power grid.
- Relocate sections of the power line to maintain safety and operational standards near structures and vegetation.

Where

The upgrades are located in Bedford and Campbell counties in Virginia.

Project Schedule

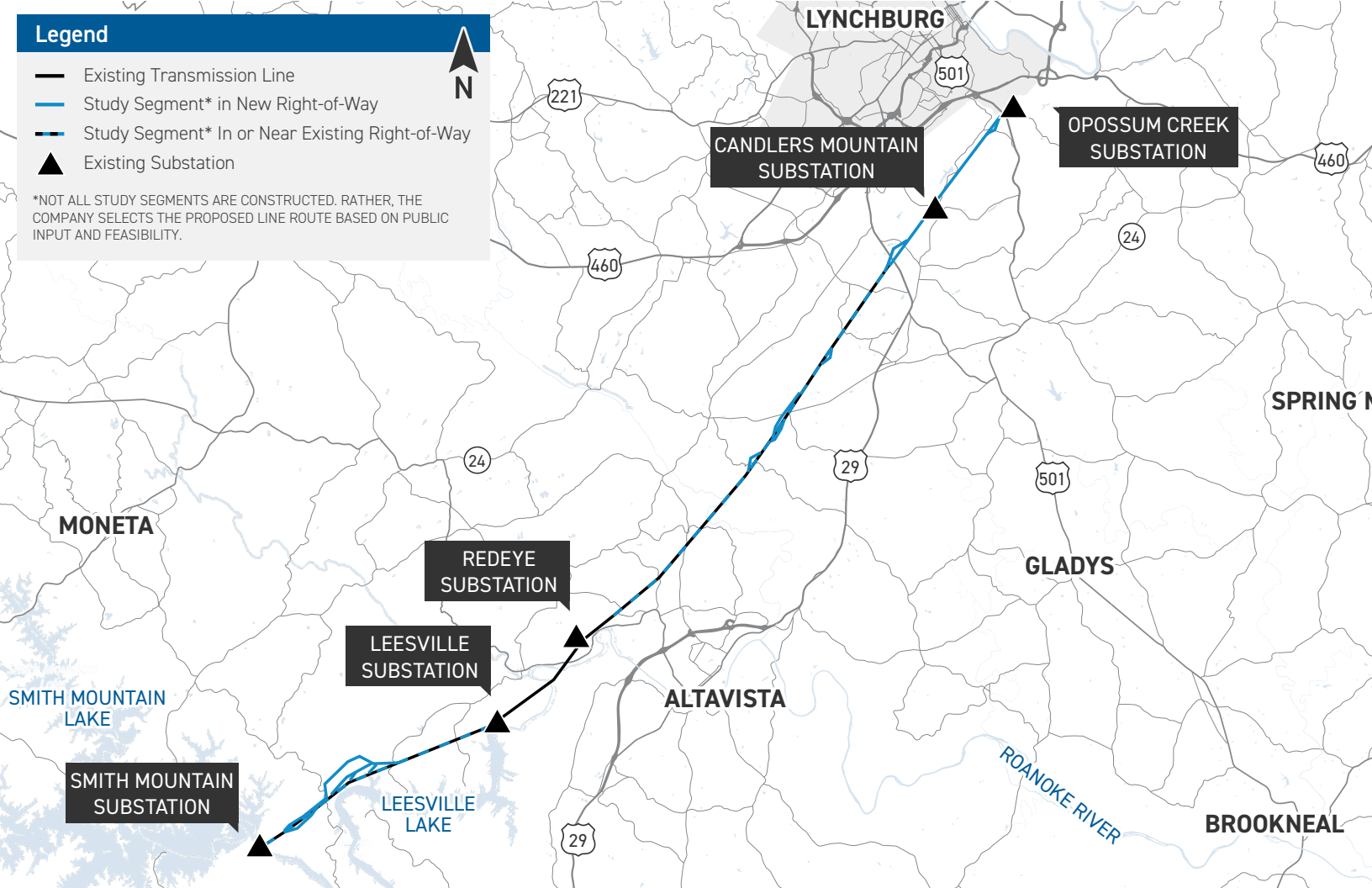
	2026	2027	2028	2029
Project Announcement September 2026	●			
Project Open House September 2026	●			
Proposed Route Late 2026	●			
File Application with the VA SCC Early 2027		●		
Construction Begins Spring 2028			●	
Project in Service Late 2029				●

*Timeline subject to change.

Legend

- Existing Transmission Line
- Study Segment* in New Right-of-Way
- Study Segment* In or Near Existing Right-of-Way
- Existing Substation

*NOT ALL STUDY SEGMENTS ARE CONSTRUCTED. RATHER, THE COMPANY SELECTS THE PROPOSED LINE ROUTE BASED ON PUBLIC INPUT AND FEASIBILITY.



Typical Structures

Appalachian Power crews plan to install taller structures to meet current engineering standards. Structure types and right-of-way widths vary due to steep terrain and geography.

Flat to Hilly Areas:

Structure Type: Steel single-pole, 3-pole and H-frame

Structure Height: Approximately 70-130 feet

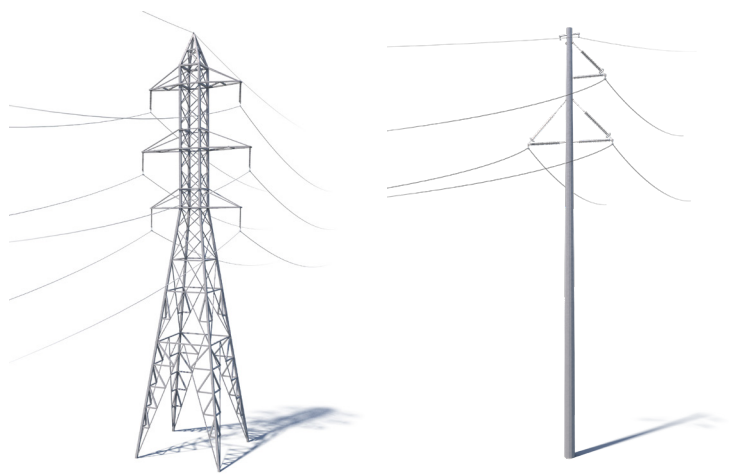
Right-of-Way Width: 100 feet*

Hilly to Mountainous Areas:

Structure Type: Steel single-pole and lattice towers

Structure Height: Approximately 90-150 feet

Right-of-Way Width: 160 feet*



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



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

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AppalachianPower.com/Opossum

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