

# Northeast Oklahoma Transmission Enhancement Project

AEP Oklahoma Transmission Company, Inc. (OK Transco) representatives plan to expand the electric transmission system in northeast Oklahoma as part of a regional reliability effort.

## What

The project involves:

- Building approximately 100 miles of 345-kilovolt (kV) transmission lines.
- Upgrading equipment at the Delaware Substation to accommodate the new transmission lines.

## Why

The Southwest Power Pool (SPP), the regional transmission operator who oversees and monitors the power grid across 14 states, mandated this project as a regional effort to expand the transmission system and enhance reliability in Oklahoma, Kansas and Missouri.

The improvements:

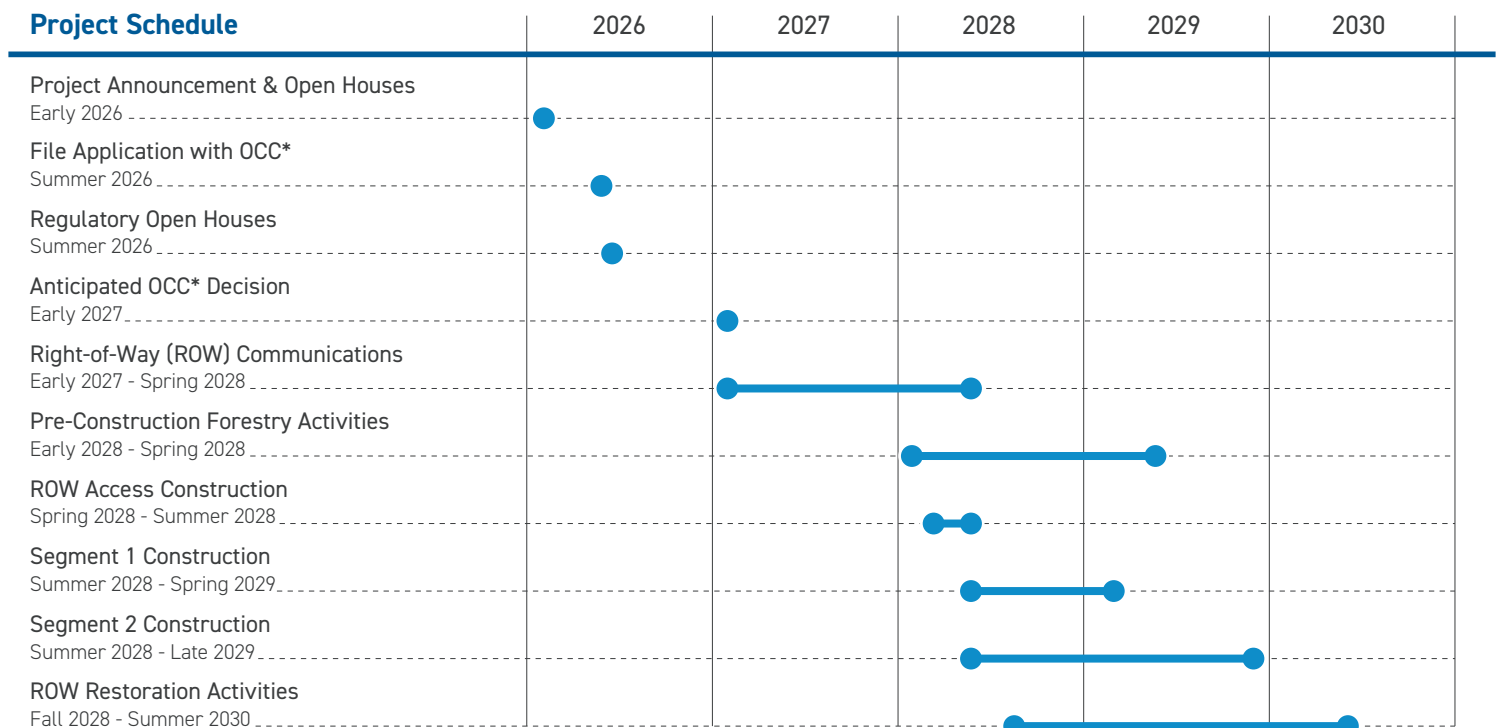
- Enhance electric service reliability and quality.
- Reduce the frequency and duration of power outages.
- Improve ability to deliver power during extreme weather events.
- Optimize operations and lower the cost to deliver power across the region.
- Improve the transmission of low-cost energy to eastern areas of the SPP footprint, including northeast Oklahoma.

## Where

The project area includes Nowata, Washington, Craig, and Ottawa counties.

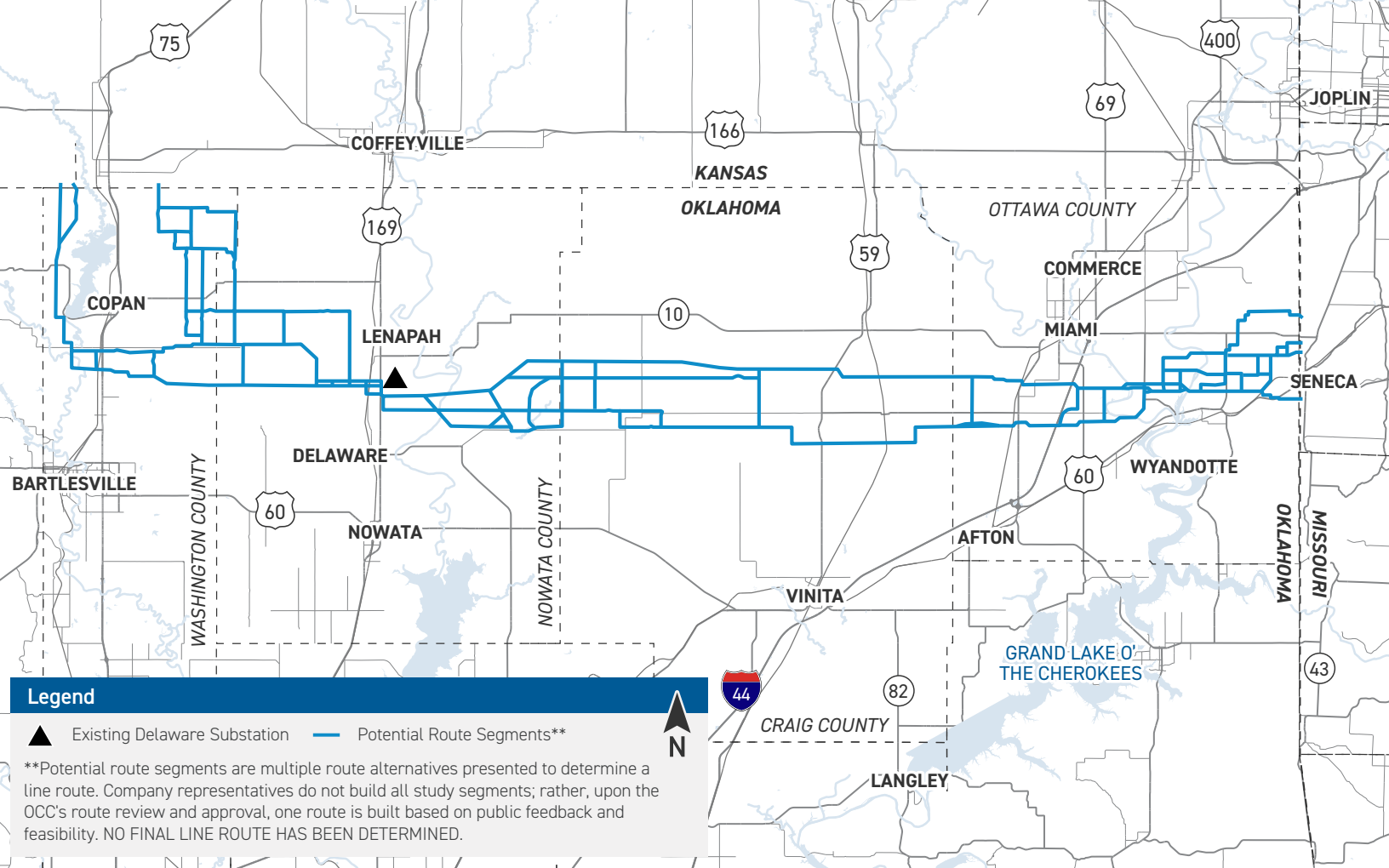
- Segment 1 involves building approximately 34 miles of 345-kV transmission line from the Delaware Substation in central Nowata County to a point near the Oklahoma-Kansas border.
- Segment 2 involves building approximately 68 miles of 345-kV transmission line from the Delaware Substation to a point near the Oklahoma-Missouri border.

## Project Schedule



\*Oklahoma Corporation Commission.

Timeline subject to change.



## Typical Structures

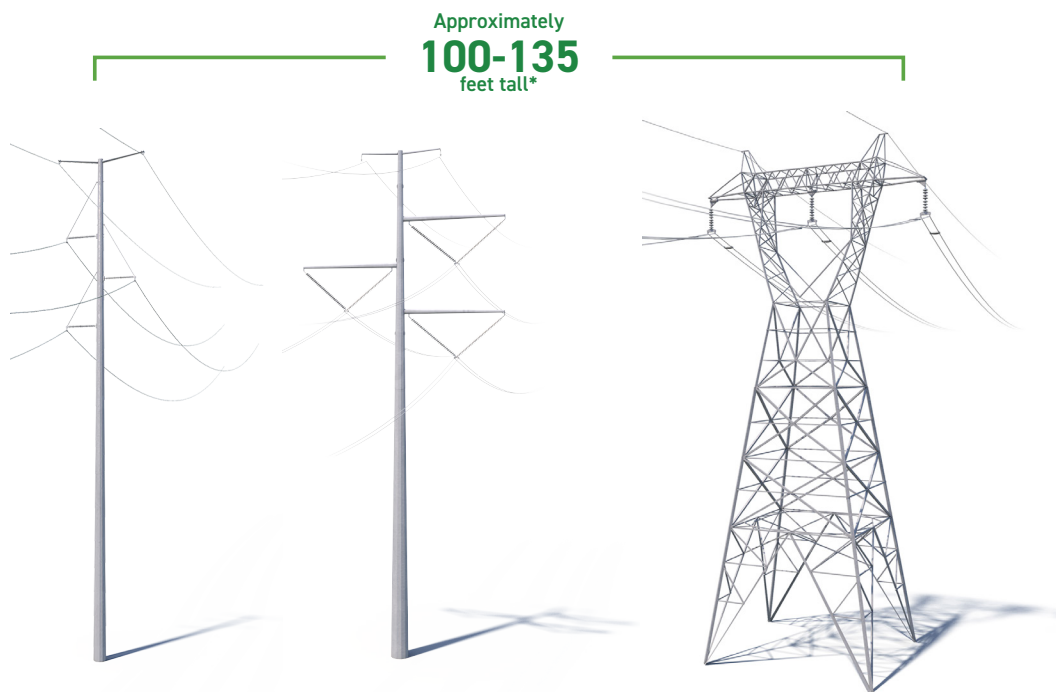
OK Transco representatives are considering single steel poles or steel lattice towers as the primary structures on this project.

**Typical Structure Height:**  
Approximately 100 – 135 feet\*

**Typical Right-of-Way Width:**  
150 feet\*

**Typical Distance Between Structures:**  
Approximately 850 – 1300 feet\*

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



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

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01/20/2026