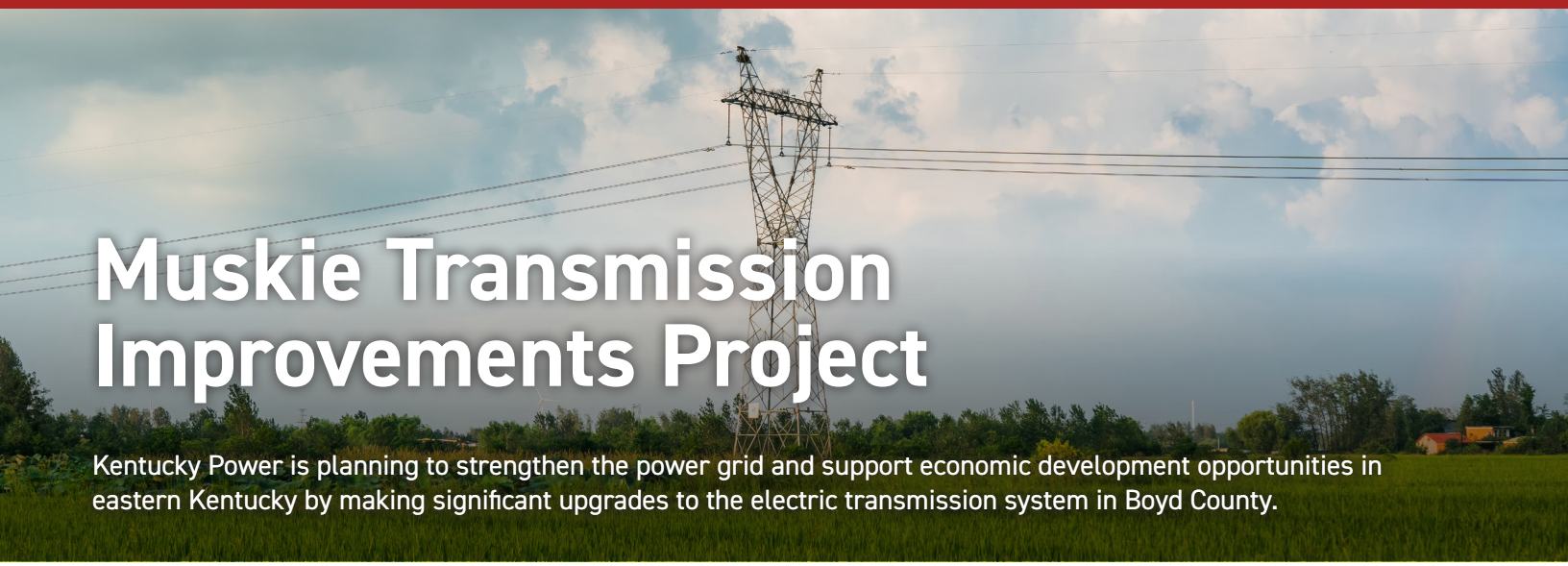
KENTUCKY POWER
An AEP Company



Muskie Transmission Improvements Project

Kentucky Power is planning to strengthen the power grid and support economic development opportunities in eastern Kentucky by making significant upgrades to the electric transmission system in Boyd County.

What

The project involves building:

- The 765-kilovolt (kV) Venator Substation
- Two 765-kV transmission lines totaling approximately 2.5 miles to connect the proposed Venator Substation to an existing line
- Two 345-kV transmission lines, approximately 3 miles long, parallel to each other, totaling 6 miles

The proposed routes for the new transmission lines will be determined after public input is received on the preliminary route options and additional route analysis is completed.

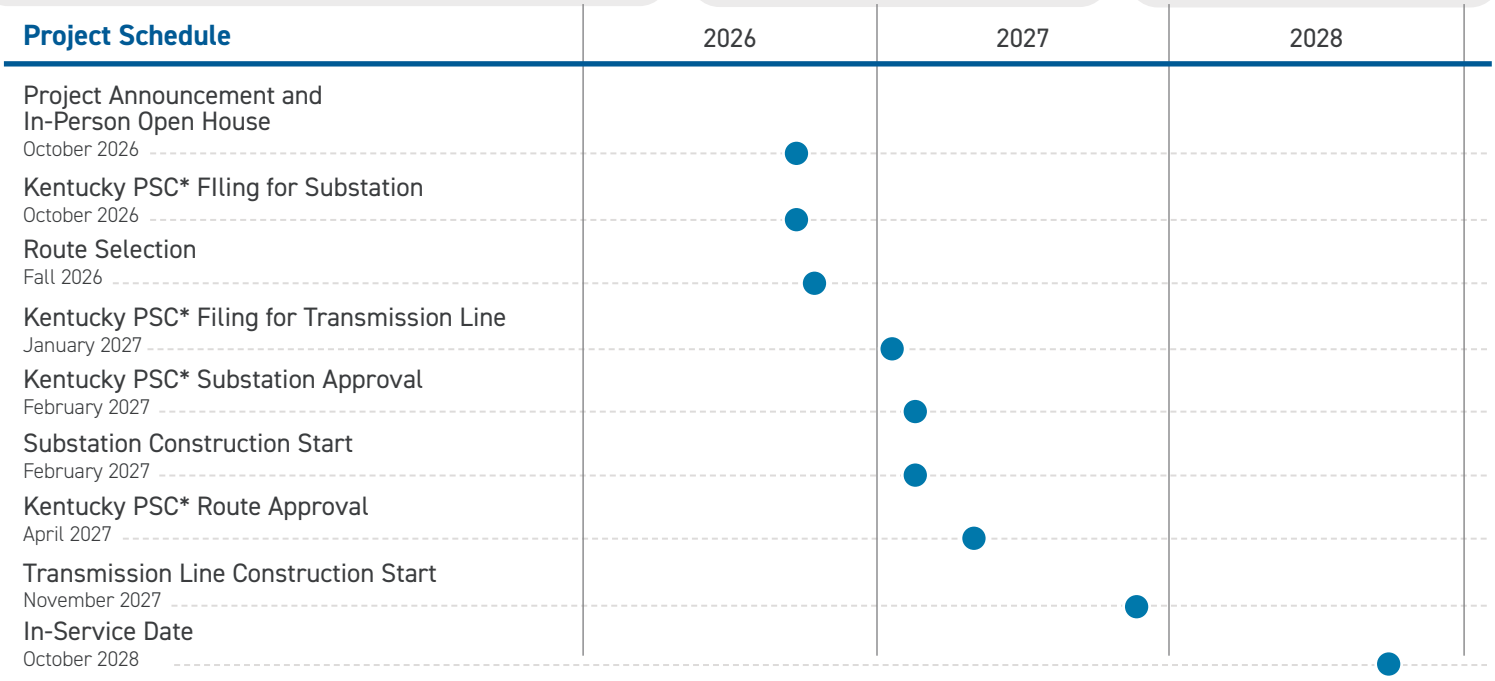
Why

TeraWulf needs a reliable power source for its planned data center campus in EastPark Industrial Park. The new transmission lines and substation will provide the electrical infrastructure needed to serve the facility and support continued economic development opportunities in the region.

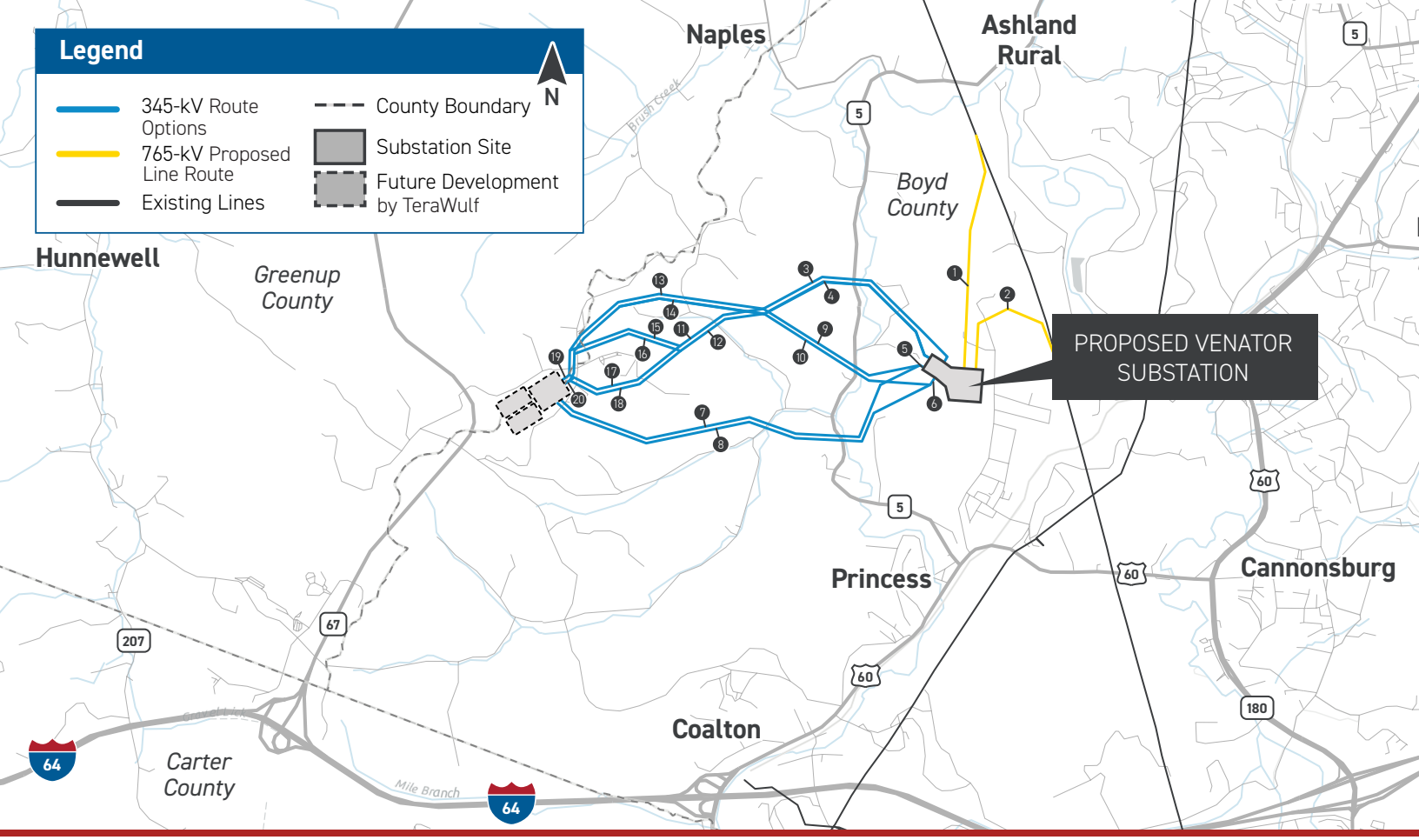
Where

The project is located in western Boyd County. The two proposed 765-kV transmission lines will connect the new substation to the existing 765-kV transmission line. The two 345-kV transmission lines will extend from the new substation to TeraWulf's facility in the industrial park.

Project Schedule

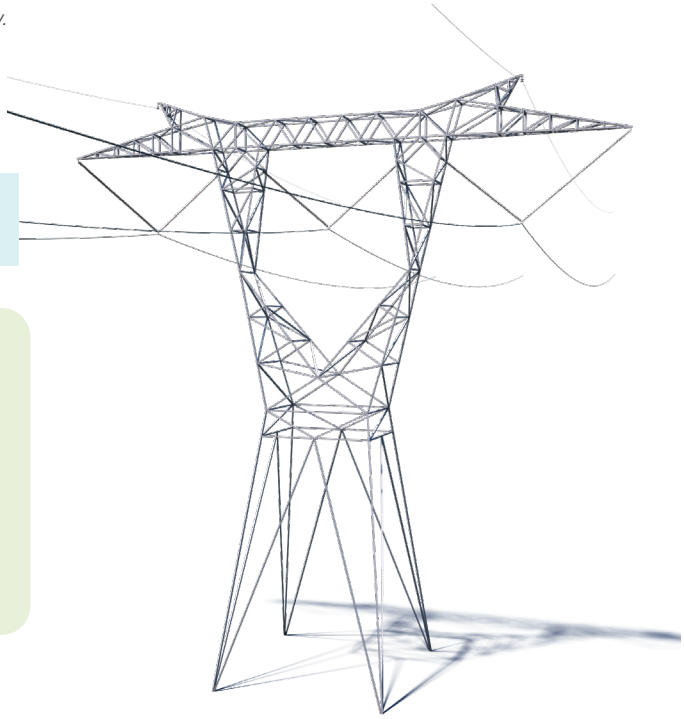


** Kentucky Public Service Commission* *Timeline Subject to Change*



*Potential 345-kV routes presented to determine a line route. Company representatives do not build all route options. One route will be built based on public feedback and feasibility.

Typical Structures



765-kV Self-Supporting Lattice Structure

Typical Structure Height:
140-180 feet

Typical Right-of-Way Width:
150-300 feet

Typical Distance Between Structures:
1,200 feet

345-kV Self-Supporting Lattice Structure

Typical Structure Height:
100-120 feet

Typical Right-of-Way Width:
150-200 feet

Typical Distance Between Structures:
1,000 feet

Exact structure, heights and right-of-way requirements will vary.

We value your input. Please send comments and questions to:
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10/01/2026