

Jeffersonville Area Improvements Overview

This project is part of the upgrades to the electric system in this area needed to ensure continued reliable operations for new and existing customers while providing capacity to large load growth taking place in this developing area near Jeffersonville, Ohio. The improvement project involves building approximately 13 miles of new transmission lines, two new transmission substations, and relocating an existing distribution substation.

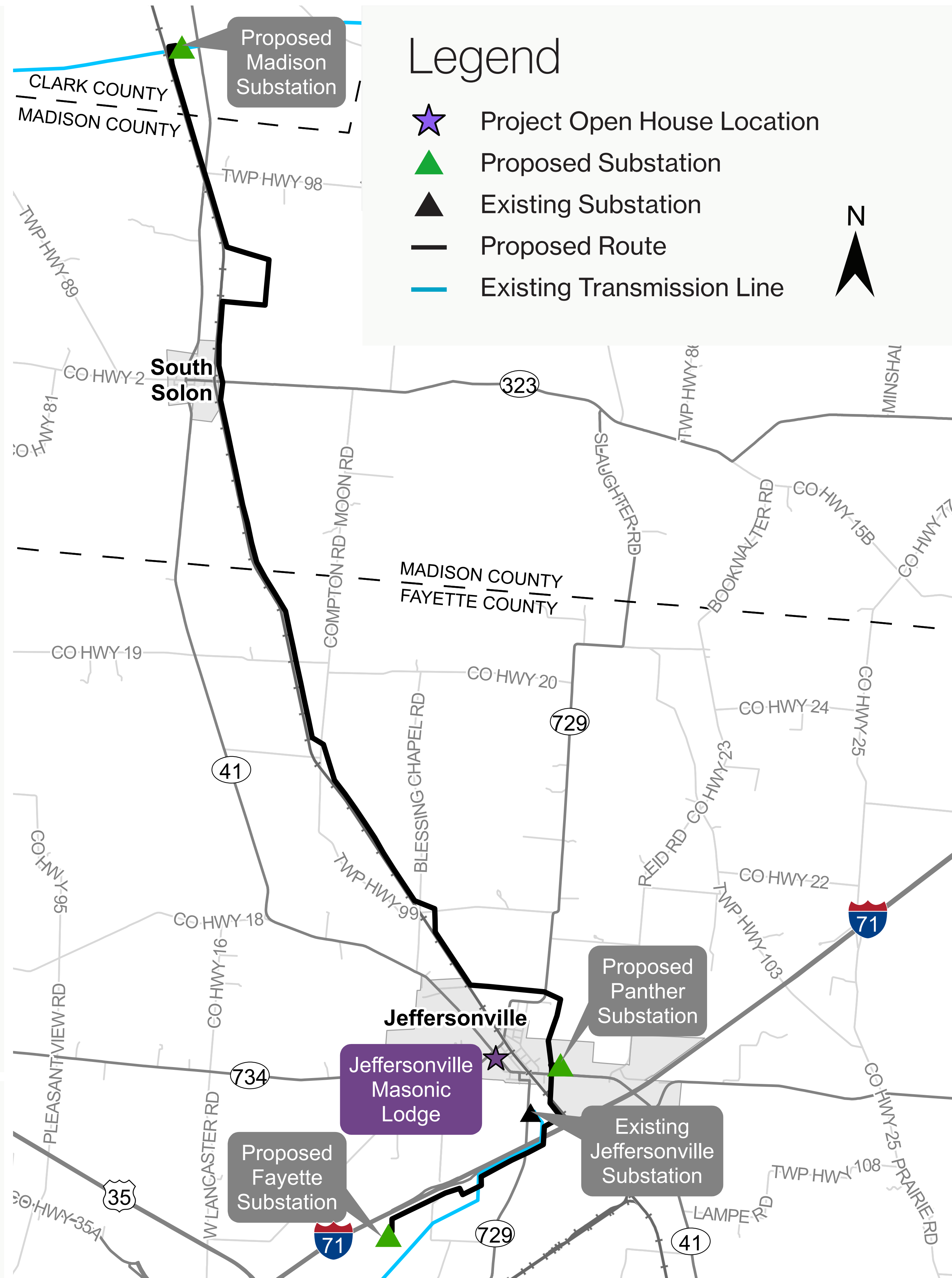
Why

Currently, the area around Jeffersonville is served by a radial 69kV circuit which serves approximately 30MVA of load. A new industrial customer has committed to the installation of a \$4 billion dollar battery manufacturing facility requiring AES Ohio to serve an estimated additional 140MVA of new load by August of 2024. The existing radial line and the underlying source in the area do not have the ability to serve this new load. Additionally, best utility practice for a load of this magnitude is to serve via a looped feed, have multiple voltages available in near proximity to ensure redundancy capacity, and improve reliability in the growing load center.

The new double circuit Madison-Fayette 345kV line will provide a looped feed with a strong new source into the Jeffersonville area. Additionally, bringing in 345kV and transforming it near the load center will provide flexibility for the area to continue to grow around the new battery manufacturing facility as anticipated in the future.

What*

- The project includes:
- Building 13 miles of 345kV transmission line
- Underbuilding 2.5 miles of 69kV transmission line
- New Madison Transmission Substation*
- New Fayette Transmission Substation*
- New Panther Distribution Substation



Where

- Clark, Madison, and Fayette Counties
- Villages of Jeffersonville and South Solon
- Madison Township
- Stokes Township
- Jefferson Township

*Madison and Fayette Substations will be filed under separate OPSB case numbers 22-1079-EL-BLN and 23-0067-EL-BLN, respectively.