

Mathewson–Redbud Transmission Line Project



The Southwest Power Pool (SPP), the regional transmission operator who oversees the power grid across 14 states, mandated this project to relieve congestion on the power grid in and around Oklahoma City. After considering several alternative projects, SPP awarded this project to Transource through a competitive proposal process.

The Mathewson–Redbud Transmission Line Project involves building approximately 40 miles of 345-kilovolt (kV) electric transmission line from Oklahoma Gas & Electric's (OG&E) Mathewson Substation in Piedmont to OG&E's Redbud Substation in Luther.

Working With the Community

Transource understands that new power line projects can raise questions and concerns for landowners and communities. While this project is vital to maintaining reliable power in the area, our goal is to work closely with those affected to find the most suitable route and minimize disruptions.

Transource will file a Certificate of Authority (COA) with the Oklahoma Corporation Commission (OCC) for review and approval. To support an open process, two rounds of public open houses are planned in late 2025 and spring 2026.

Project Need & Benefits

This project is expected to reduce overall electric system costs, providing an estimated

**\$138 -
\$225**

MILLION in savings
— OVER 40 YEARS —

Transource is projected to contribute approximately

\$3 MILLION in county-level taxes
& **\$5 MILLION** in state-level taxes
— OVER 20 YEARS —

These tax revenues will support local governments, public services, and schools in the project area.

Supports current and anticipated future power demand.

Brings existing generation in western Oklahoma to the larger load centers of the state.

Reduces grid congestion and enhances electric reliability by adding an alternative path for energy to serve customers.

Project Timeline



Project Map

