

# Lehigh Substation Expansion B-Bus



Lee County Electric Cooperative upgrades facilities in order to deliver reliable, cost-competitive electricity to our customers.

## [Introducing a New 50 MVA B-Bus to Enhance Capacity and Reliability](#)

The Lehigh Substation is undergoing an important upgrade with the installation of a new 50 MVA B-Bus alongside the existing 60 MVA A-Bus. This strategic addition will increase the substation's total transformer capacity to 110 MVA, significantly boosting its ability to serve the local grid and accommodate future growth.

### [Why Add the 50 MVA B-Bus?](#)

- **Enhanced Reliability:** By distributing the electrical load across both the A-Bus and the new B-Bus, the substation can better withstand maintenance outages and unforeseen events, minimizing service interruptions.
- **Increased Capacity:** The new B-Bus allows the facility to handle higher demand, supporting economic development and member expansion in the area.
- **Operational Flexibility:** Operators can now reroute power more efficiently and perform system upgrades or repairs with less risk of outages.

### [Technical Details](#)

The B-Bus will be installed adjacent to the existing A-Bus, with new switchgear and protective relays to ensure safe and reliable operation. Both buses will be integrated into the substation's control and monitoring systems, enabling real-time management of electricity flows.

### [Project Impact](#)

- Supports local and regional power needs
- Reduces risk of overload and equipment failure
- Improves long-term reliability for residents and businesses

The Lehigh Substation expansion demonstrates our commitment to a robust and future-ready electrical infrastructure.

05-Lehigh Existing A-Bus



Representation of Expansion (B-Bus)



Expected in service Q1 2026

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