



14.11: Northeastern Tennessee RTEP Overview

PJM operates Bulk Electric System (BES) transmission facilities (and others monitored at lower voltages) within northeastern Tennessee as shown on Map 14.58, including those of American Electric Power (AEP).

Customers are served by native generation resources and power transfers across tie-line facilities with adjoining systems.

Critical RTEP Issues and Upgrades

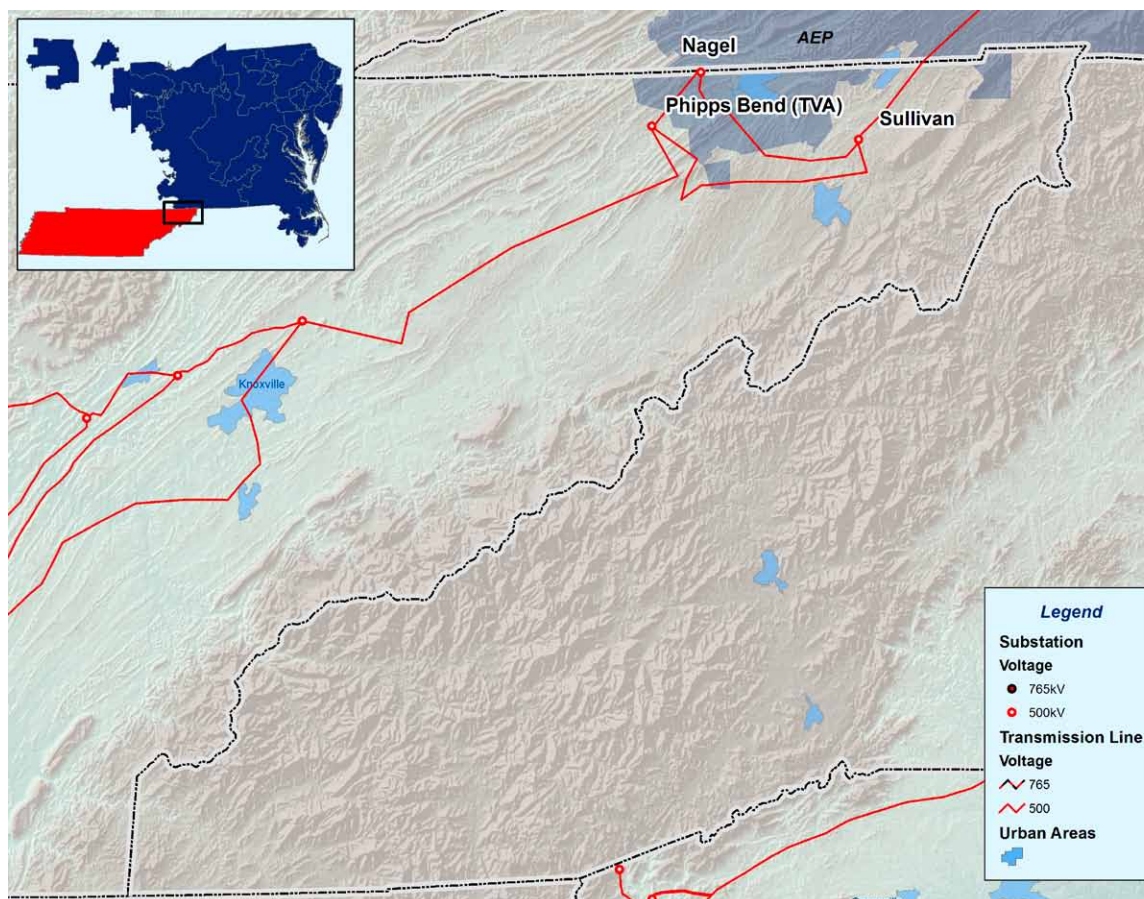
PJM's annual Regional Transmission Expansion Plan (RTEP) process assesses transmission facilities in northeastern Tennessee for compliance with NERC reliability criteria violations. In order to solve identified violations, PJM determines necessary baseline enhancements as well as network upgrades to accommodate the interconnection of new generating resources within the AEP Transmission Owner (TO) zone. **Section 16** provides a topical index of RTEP results, issues and challenges discussed in this report.

14.11.1 – Load Growth and Existing Generation

Internal Load Growth

Load Growth for summer and winter periods is shown in **Section 14.0.2**. The peak summer load growth rate for the AEP TO zone within PJM is expected to be 1.4 percent on average over ten years through 2020. The peak winter load growth rate for AEP is expected to be 0.9 percent on average over ten years through 2019/20.

Map 14.58: PJM Service Area in Northeastern Tennessee



Forecasted summer peak loads are modeled in power flow studies used in PJM's 2010 RTEP studies. PJM's RTEP includes baseline transmission upgrades in northeastern Tennessee to meet expected near-term 2015 peak load conditions. PJM's RTEP process also assesses anticipated needs for additional transmission expansion plans to meet long-term load growth out through 2025 as well.

Existing Generating Capability

No existing generating resources are located in the portion of northeastern Tennessee served by PJM through AEP.

14.11.2 – Generator Interconnection Requests

PJM's interconnection request queue contains no requests for new generating resources in northeastern Tennessee as of the close of Queue W4, January 31, 2011.

14.11.3 – Generation Deactivations

PJM has not received notice of any anticipated generator deactivations in northeastern Tennessee, through December 31, 2010. A full list of all generation deactivation information is accessible on PJM's website at URL: <http://pjm.com/planning/generation-retirements/gr-summaries.aspx>.

14.11.4 – Merchant Transmission Interconnection Requests

PJM's interconnection queues contained no requests for merchant transmission in northeastern Tennessee through the close of Queue W4 on January 31, 2011.

14.11.5 – Transmission Expansion Plans in Northeastern Tennessee

No new RTEP planned transmission upgrades greater in northeastern Tennessee than \$5 million were approved by the PJM Board during 2010 for northeastern Tennessee. A complete listing and status of all PJM Board-approved BES reinforcements – baseline enhancements as well as network upgrades to accommodate interconnection requests – can be found on PJM's website via the following URL: <http://www.pjm.com/planning/rtep-upgrades-status.aspx>.

14.11.6 – Interconnection Requests for Generation Powered by Renewable Fuel Sources

PJM has no queued interconnection requests – active or under construction – for new generating resources in northeastern Tennessee through the close of Queue W4 on January 31, 2011.