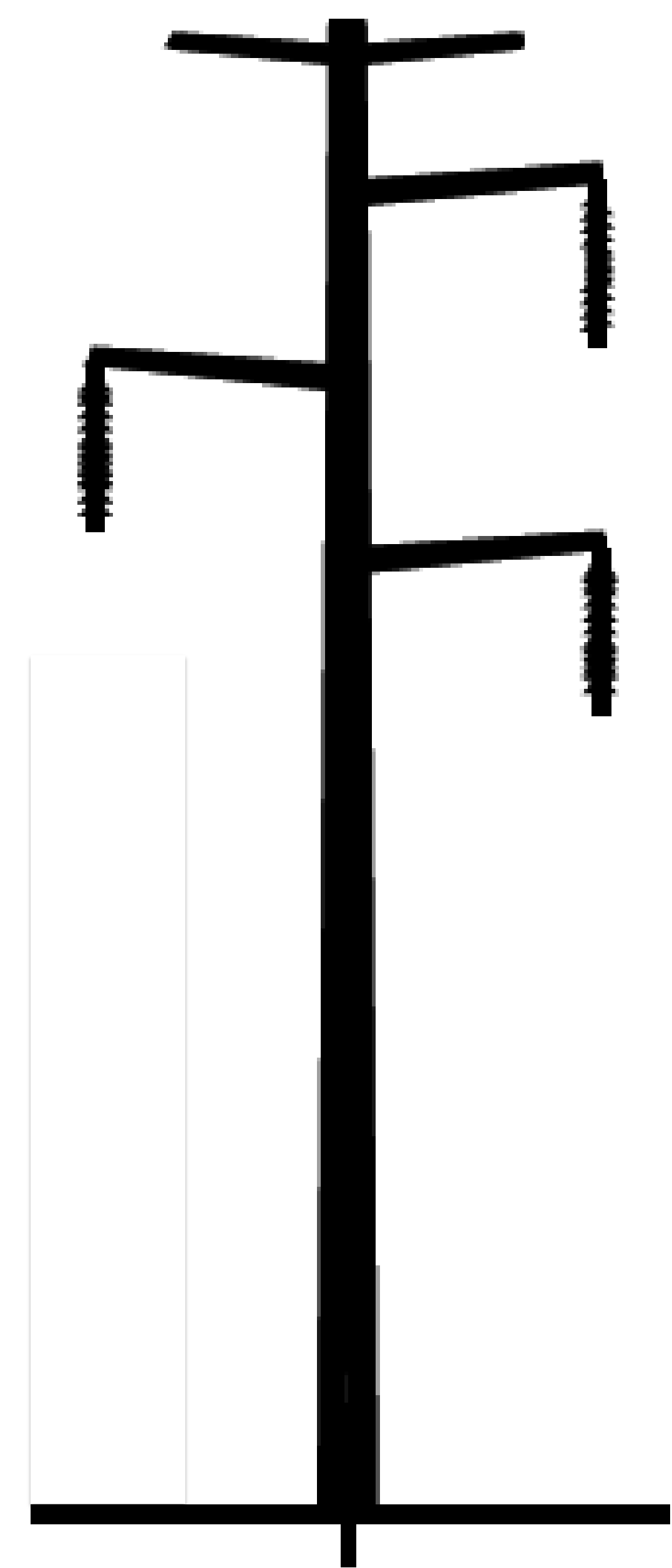


PROJECT NEED

Local Reliability Concerns: Warrenton

The load on the existing Warrenton line is forecasted to exceed 100 megawatts (MW) in 2017 – a violation of reliability criteria.

- The line currently serves Warrenton Substation and distribution delivery points for Rappahannock Electric Cooperative (REC)
- Electric demand has grown by approximately 45% over the last 10 years
- Load on radial transmission lines without alternate supply should be limited to approximately 100 MW*
 - *A key factor in evaluating the load limitation on a radial transmission line is the distribution load that can be switched to circuits served from other sources*



Existing structure type,
Warrenton line

The existing facilities will be about 30 years old at the time of the project.

* From Dominion's Facility Interconnection Requirements. NERC Reliability Standards, which are mandatory and subject to audit, provide the framework for Dominion's planning criteria.

PROJECT NEED

Local Reliability Concerns: Wheeler

The load on NOVEC's existing Wheeler line *already exceeds 100 MW.*



- The line currently serves approximately 16,000 customers in Fauquier and Prince William
- Electric demand has grown by 60% over the last 10 years in this area.
- The past two summers have exceeded 100MW:

Summer 2011 => 104.8 MW

Summer 2012 => 106.6 MW

NOVEC is not subject to the same Federal criteria, but faces the same operational issues with a radial line.

Wheeler - Summer Peak Demand Growth (MW)



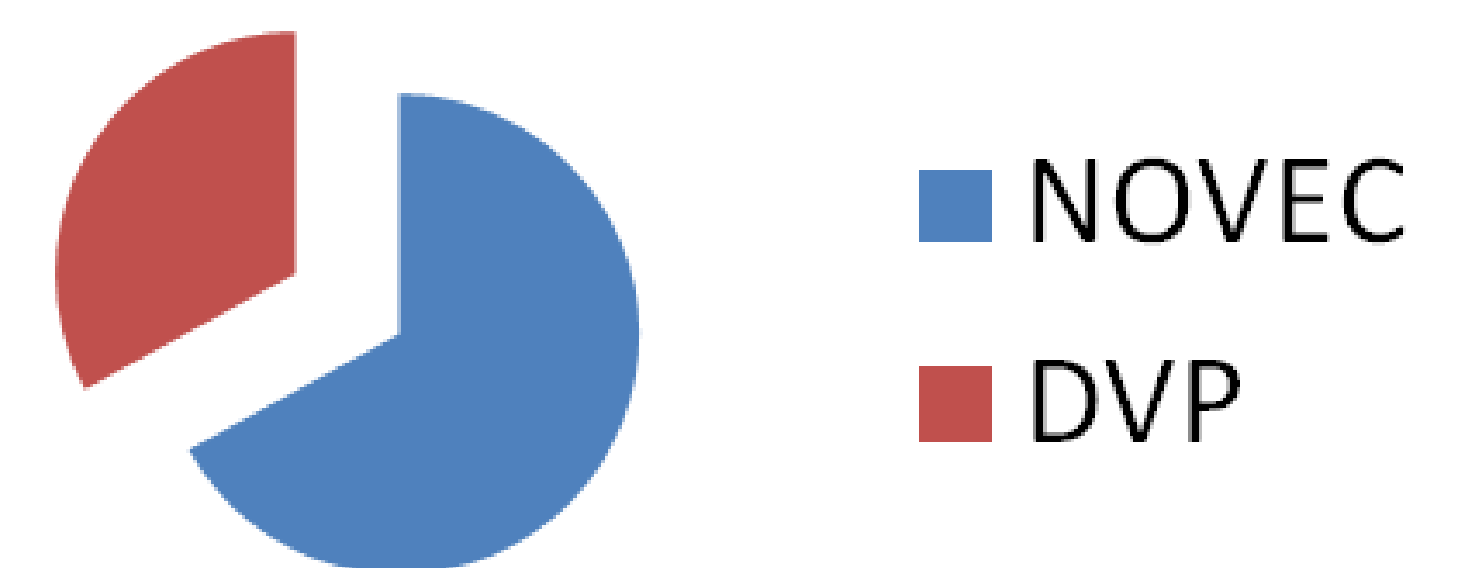
PROJECT NEED

Local Reliability Concerns: Gainesville

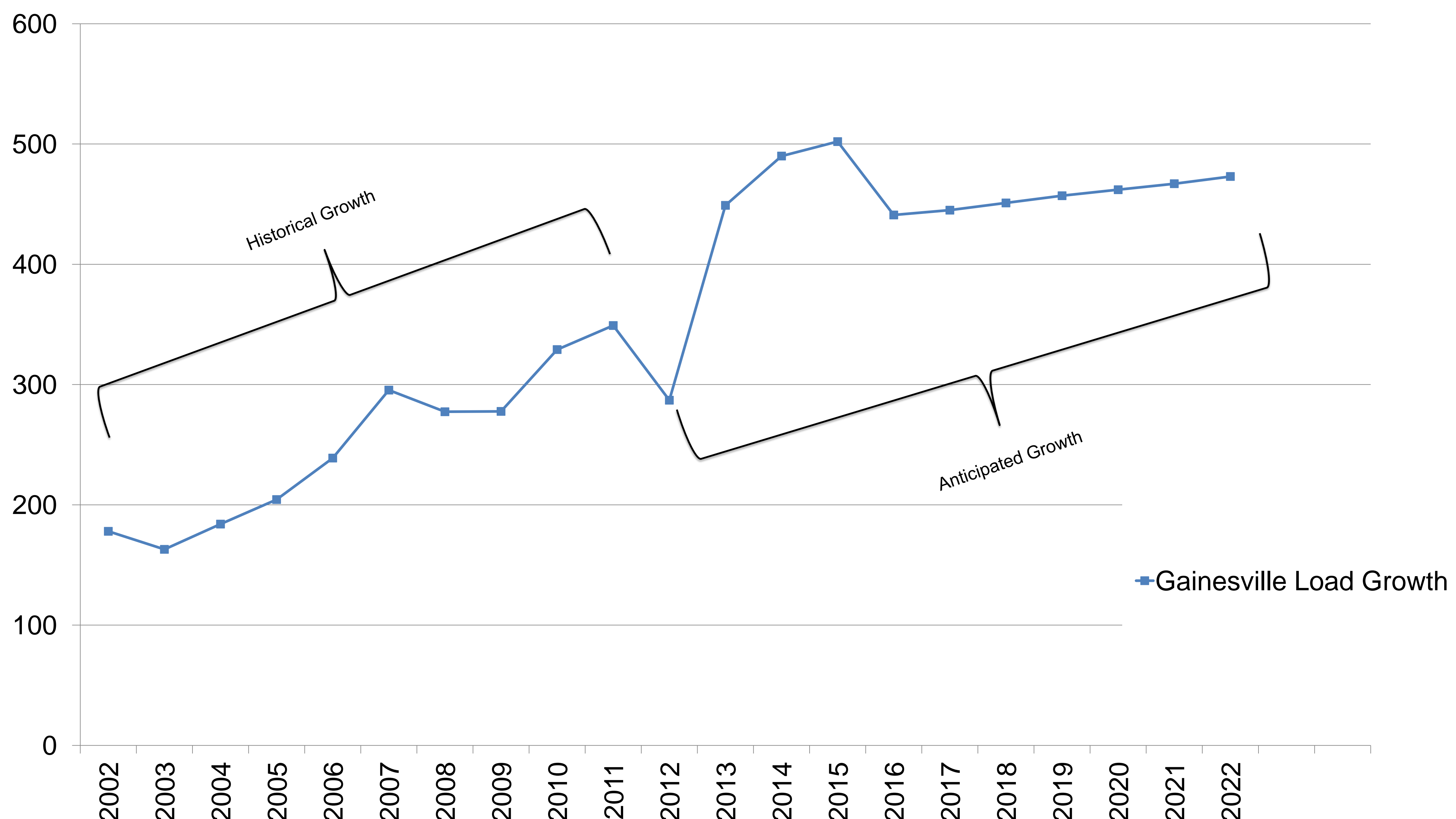
An outage of Gainesville Substation will result in the loss of more than 300 MW (equivalent to roughly 75,000 homes)

- Exposure risk: a single event resulting in the loss of more than 300 MW is a violation of Dominion, PJM and NERC standards.

Percent of Total Customer Demand



Growth at Gainesville Substation (MW)



*PJM is a regional transmission organization that coordinates the movement of wholesale electricity in all or parts of 13 states and DC. <http://www.pjm.com/>