

## SUMMARY

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This Application is submitted by PPL Electric Utilities Corporation (PPL Electric) pursuant to the Pennsylvania Public Utility Commission's (PUC or Commission) regulations at 52 Pa. Code, Chapter 57, Subchapter G. In this Application, PPL Electric seeks the Commission's approval for the siting and construction of the Pennsylvania portion of the Susquehanna-Roseland 500 kV Transmission Line.

The Susquehanna-Roseland 500 kV Transmission Line will originate at PPL Electric's Susquehanna Substation in Salem Township, Luzerne County, proceed north and then east to the Delaware River, where it will cross into New Jersey using an existing right-of-way, and then proceed to Public Service Electric and Gas Company's (PSE&G) Roseland Substation. The total line length is approximately 146 miles. The total estimated cost for the entire line is approximately \$1.2 billion.

The Pennsylvania portion of the line consists of seven discrete segments of single and double circuit facilities that will be located in portions of Luzerne, Lackawanna, Wayne, Pike, and Monroe Counties. The Pennsylvania portion of the line is approximately 101 miles long and will be located, for the most part, in existing rights-of-way and along the path of existing transmission lines. The cost of the Pennsylvania portion of the line is estimated to be \$510 million.

The Susquehanna-Roseland 500 kV Transmission Line is required to resolve numerous violations of mandatory reliability standards established by the North American Electric Reliability Corporation (NERC) and to ensure reliable long-term electric service to customers within the PJM Interconnection, LLC (PJM), including the approximately 1.4 million customers served by PPL Electric. The project also will provide several additional benefits to customers served by PJM and PPL Electric, including replacement of antiquated facilities, reduced congestion costs, improved voltage levels, and elimination of existing stability limits on certain generation output. PJM, as part of its Regional Transmission Expansion Plan (RTEP), has approved this project and has directed PPL Electric and PSE&G to construct this project with a required in-service date of June 1, 2012.

The proposed route for the project was selected after extensive public input and a detailed siting analysis, which included a comprehensive environmental inventory, identification and analysis of alternative routes, and selection of the preferred route. Factors considered in the siting analysis included functional requirements, environmental impacts, social impacts, public input, cost, and other factors identified in the Commission's siting regulations.

This document, which describes the need for the project and provides the siting and engineering analysis for the project, consists of the following exhibits and appendices:

- Exhibit A: Necessity Statement
- Exhibit B: Study Area and Route Development
- Exhibit C: Siting Analysis
- Exhibit D: Engineering Description
- Exhibit E: Appendices E-1 through E-10.