Transmission Expansion Advisory Committee Supplemental Projects

PPL Transmission Zone

Scope Change

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

PPL Transmission Zone: Supplemental

Supplemental #: S0866 (2015 TEAC)

Meeting Date: 2/3/2026

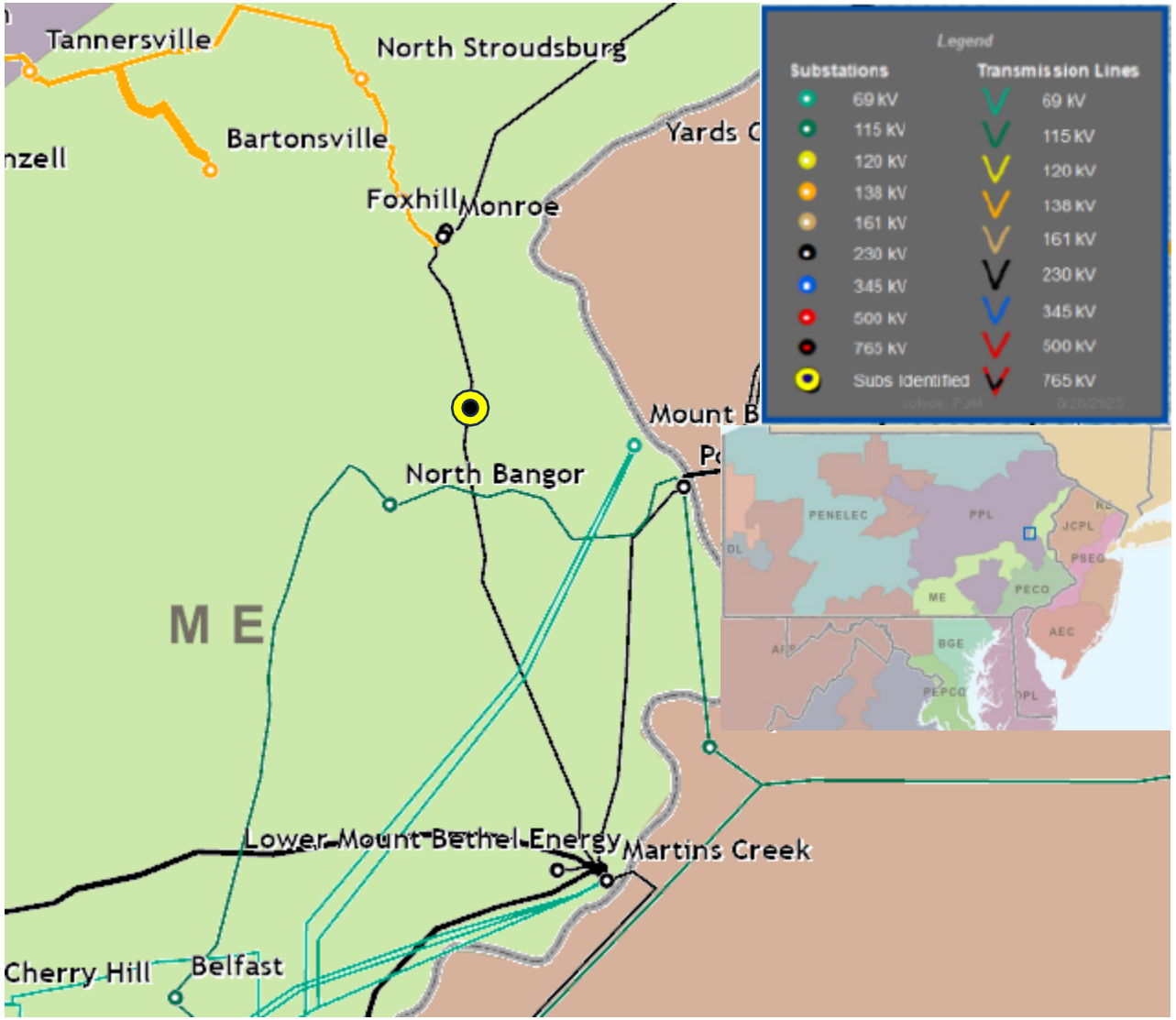
Process Stage: Solution

Solution Presented: 1/7/2015

Supplemental Project Driver: Equipment Material Condition, Performance and Risk, Operational Flexibility and Efficiency

Problem Statement:

- A 15.75-mile tower section of the 30.75-mile-long Martins Creek – Monroe 230kV is a reliability risk due to poor asset health. In this section, most of the structures and the 795 ACSR conductor were originally installed in 1926.



PPL Transmission Zone: Supplemental
Martins Creek, PA

Supplemental #: S0866 (2015 TEAC)

Proposed Solution:

Original Scope: Build a new 230 kV circuit from Martins Creek to Monroe using existing Martins Creek-Stroudsburg 69 kV decommissioned line and reconfigure Martins Creek and Monroe substations.

Revised Scope: Rebuild the 15.75-mile-long 1926 tower section of the existing Martins Creek – Monroe 230kV line.

Alternatives Considered:

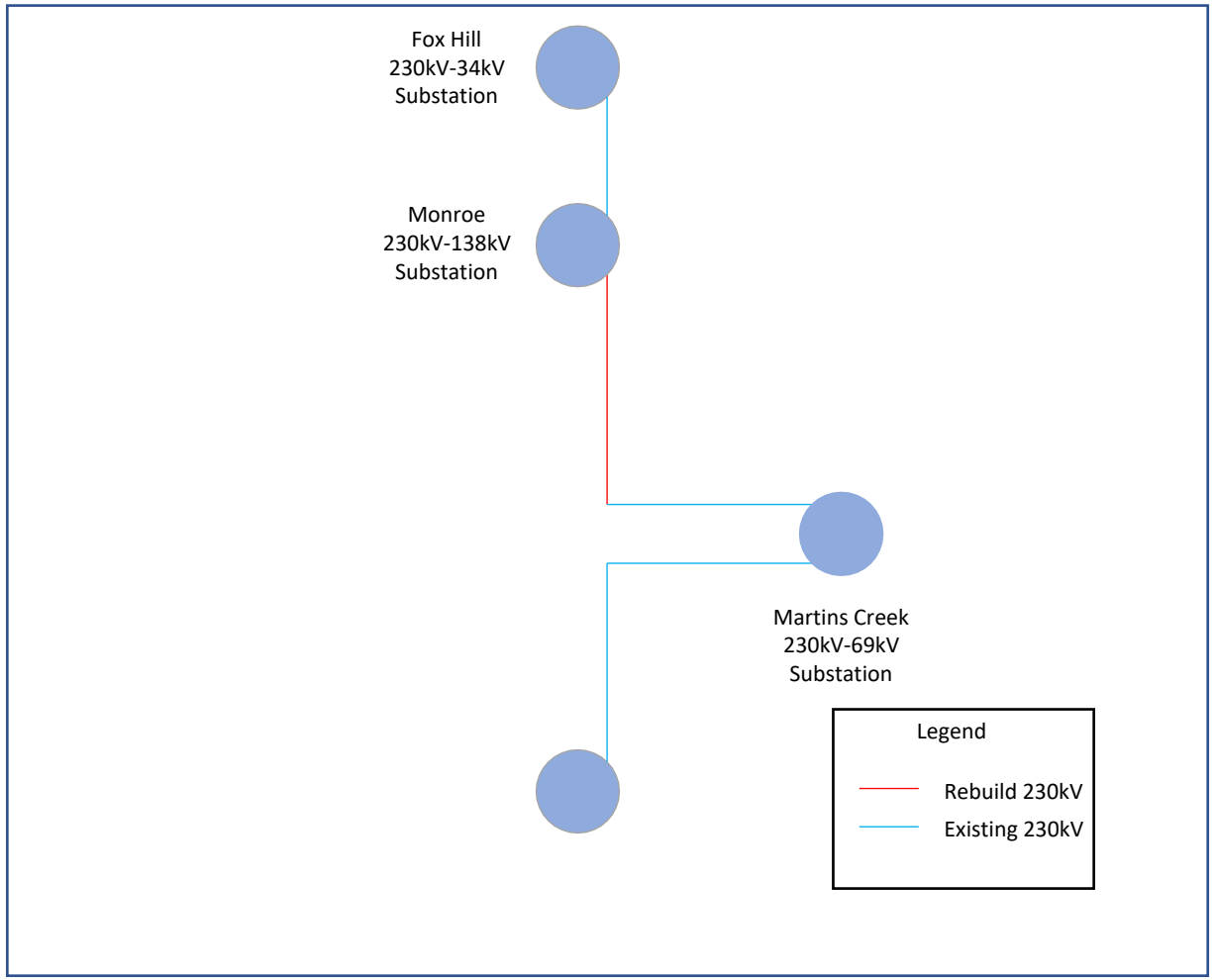
1. Retirement of the line infeasible due to the resulting radial 230kV configuration of the Monroe, Fox Hill, and Shawnee Substations.

Estimated Project Cost: ~~$44.86~~M $66.9M

Projected In-Service: 5/30/2028

Project Status: Engineering

Model: 2028



Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

PPL Transmission Zone: Supplemental
Archbald Mountain, PA

Need Number: PPL-2025-0014

Process Stage: Solution Meeting TEAC - 02/03/2026

Previously Presented: Need Meeting 09/09/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

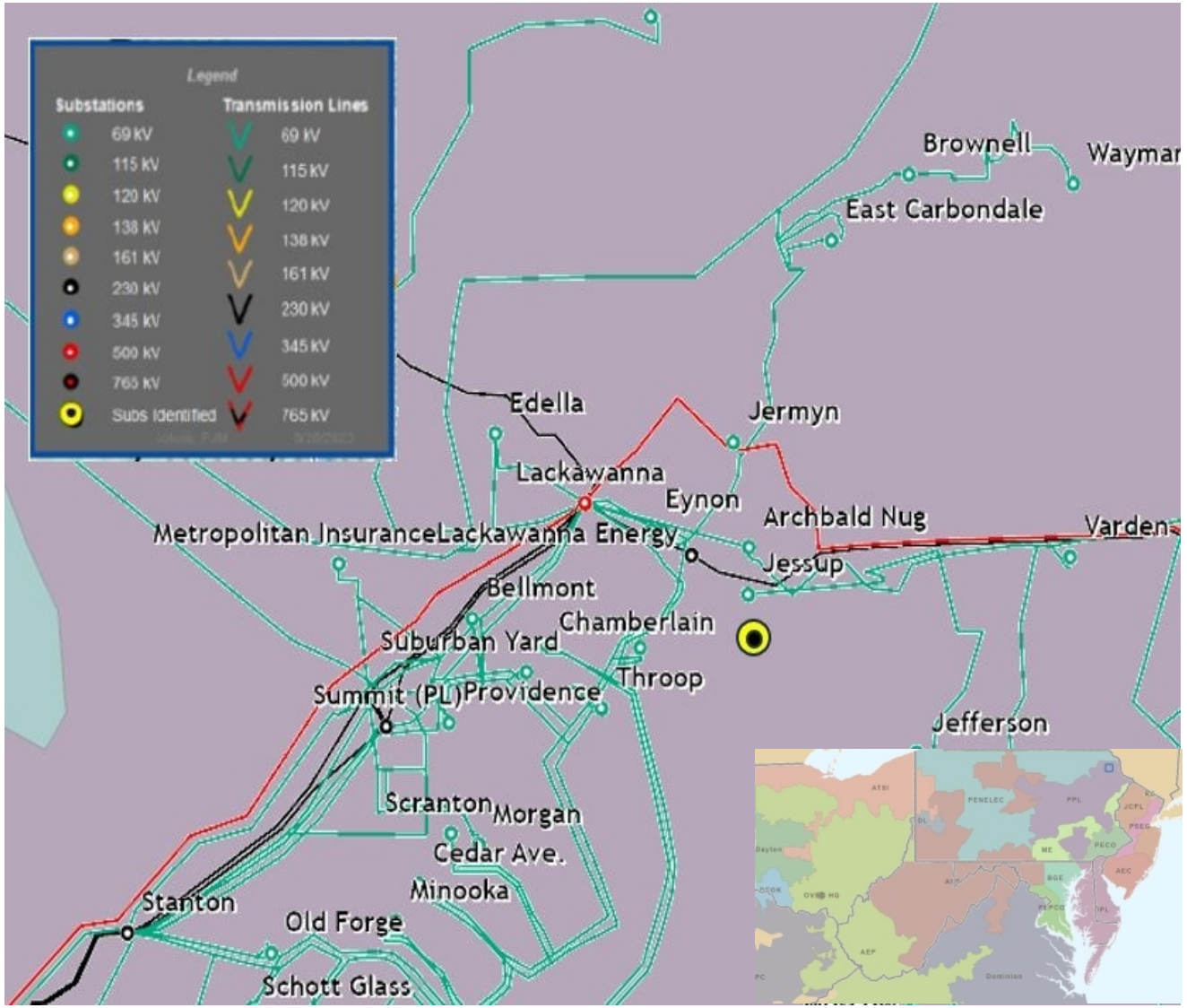
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Archbald, PA. The total facility load is approximately 1,000 MW (2031). The requested in service date is 05/2027.

Initial In-Service 2027 Load: 166 MW

Projected 2028 Load: 500 MW

Projected 2030 Load: 900 MW



PPL Transmission Zone: Supplemental
Archbald Mountain, PA

Need number(s): PPL-2025-0014

Process Stage: Solution Meeting TEAC - 02/03/2026

Proposed Solution:

Archbald Mountain 500kV Yard: Install three bays of a new 500kV yard with two 750 MVA 500-230kV Transformers. Estimated Cost: $78 M

Archbald Mountain 230kV Yard: Install seven bays of new BAAH 230kV switchyard with a 125MVAR Capacitor bank. Estimated Cost: $50 M

Bifurcate Callender Gap - Paupack 230kV Line: Bifurcate Callender Gap - Paupack 230kV line into the new Archbald Mountain 230kV switchyard (~0.25 miles). Estimated Cost: $6 M

Bifurcate Lackawanna – Hopatcong 500kV Line: Bifurcate Lackawanna - Hopatcong 500kV line into the new Archbald Mountain 500kV switchyard (~0.25 miles). Estimated Cost: $10 M

Callender Gap 230kV Yard: Install 230kV terminals for three 230kV lines. Estimated Cost: $5 M

Sturges 230kV Yard: Install 230kV terminals for two 230kV lines. Estimated Cost: $3.5 M

Sturges – Callender Gap #2 230kV Line: Install 2.7-miles of second circuit on the Sturges - Callender Gap #1 pole line (From PPL-2025-013). Estimated Cost: $3.5 M

Lackawanna – Sturges 230kV Line: Install a new 1-mile single circuit 230kV line from Lackawanna to Sturgis 230kV yard (From PPL-2025-005). Estimated Cost: $6 M

Callender Gap – Archbald Mountain #2 & #3 230kV Lines: Install a ~4.6-mile double circuit 230kV line from Callender Gap to Archbald Mountain. Estimated Cost: $22 M

Archbald Mountain 230kV Customer Lead Lines: Install four 230kV lead lines for approximately 4.0 miles from Archbald Mountain 230kV switchyard to the customer substation. Estimated Cost: $36 M

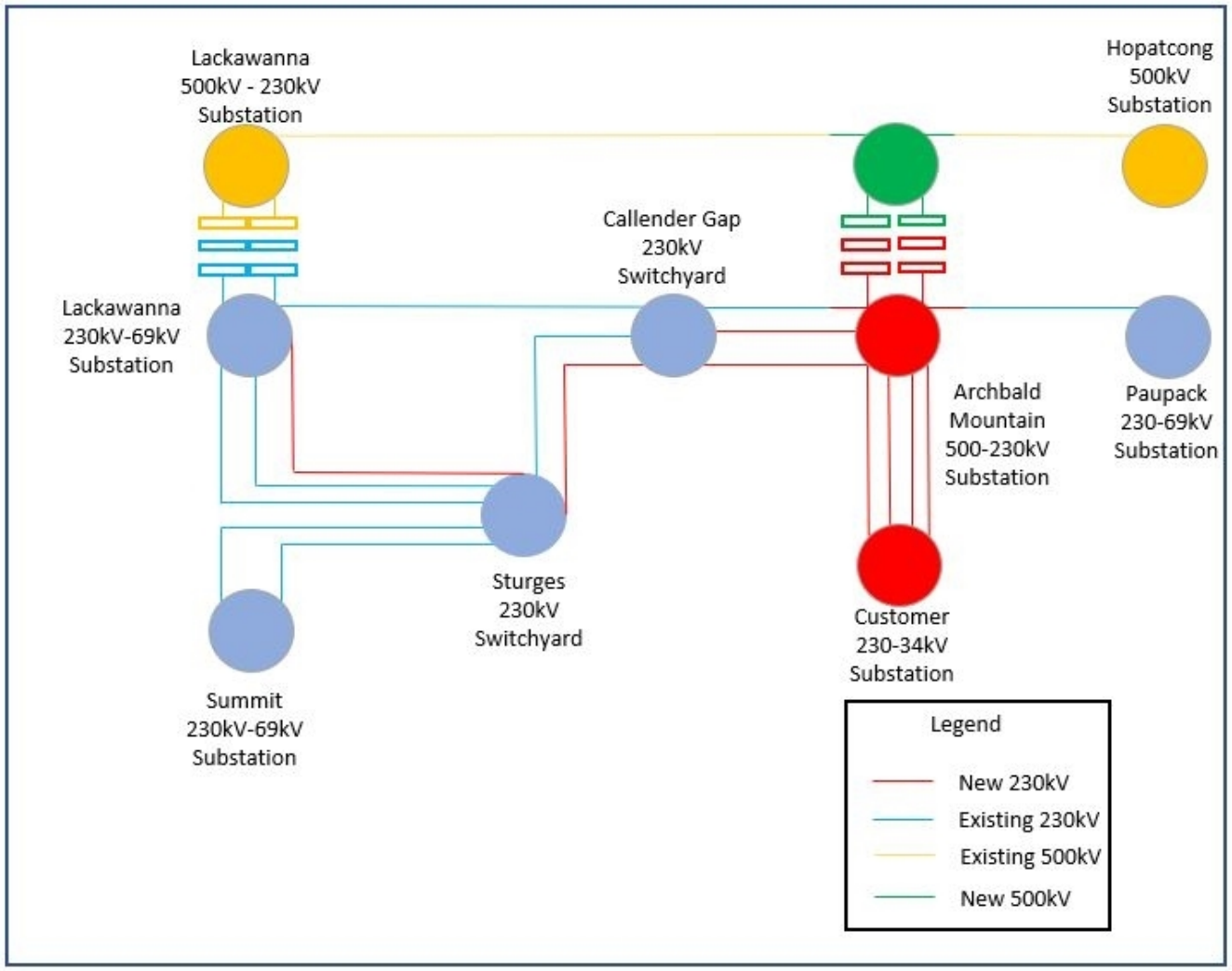
Transmission Cost Estimate: $220 M

Alternatives Considered:

No feasible alternatives as customer site is closest to the HOPA-LACK 500kV and CAGA-PAUP 230kV Line.

Projected In-Service: 05/30/2028

Project Status: Project Development



Revision History

1/23/2026 – V1 – Posted to pjm.com