

Transmission Expansion Advisory Committee Supplemental Projects

PPL Transmission Zone

Needs

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 M-3 Process

Mifflinville 230kV

Need Number: PPL-2026-0050

Process Stage: Need Meeting 10/06/2026

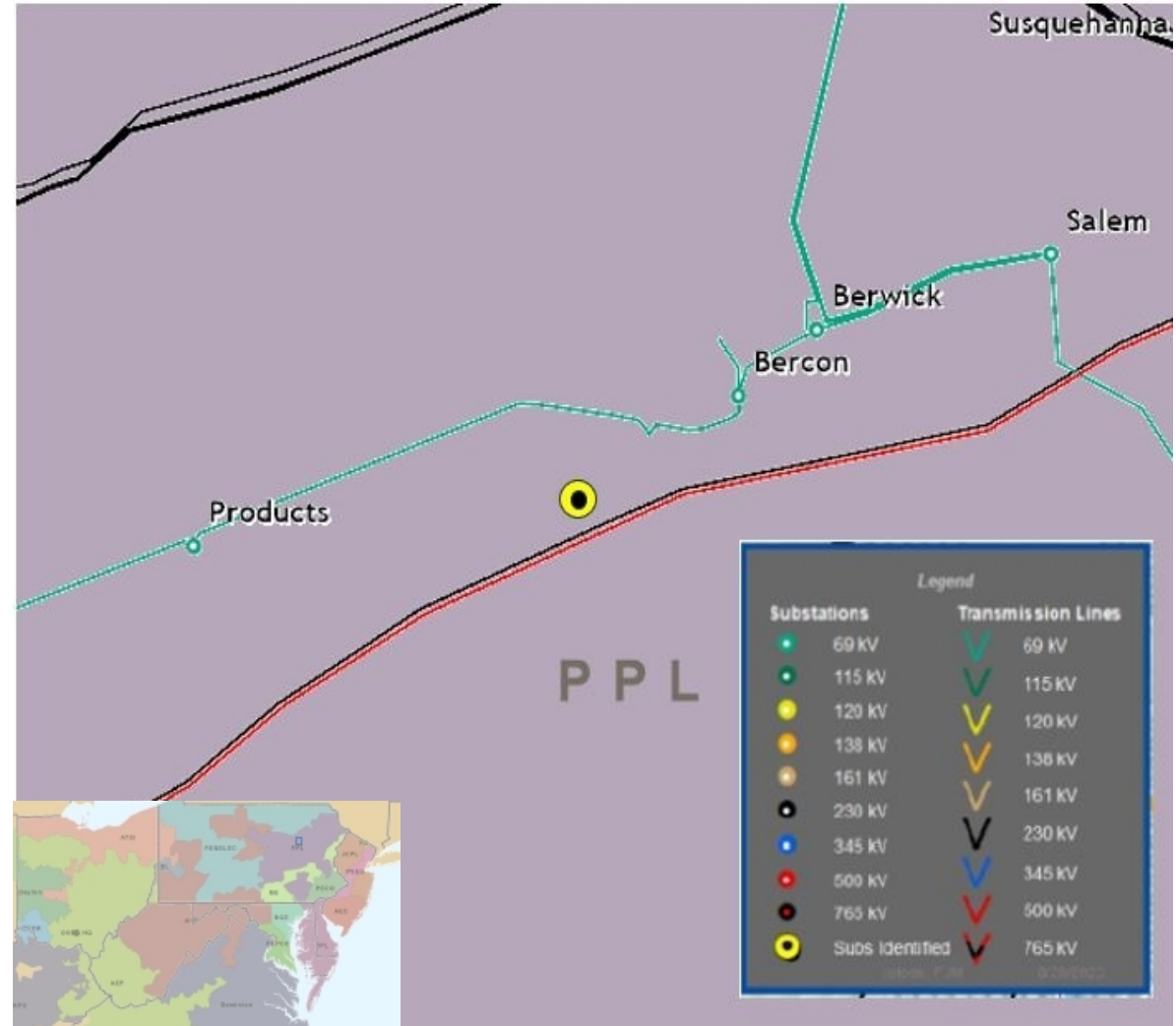
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Mifflinville, PA. The total facility load is approximately 250MW (2030). The requested in-service date is 5/2029.



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 M-3 Process

Elmsport 230kV Lines

Need Number: PPL-2026-0031

Process Stage: Solution Meeting 10/06/2026

Previously Presented: Need Meeting 04/07/2026

Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

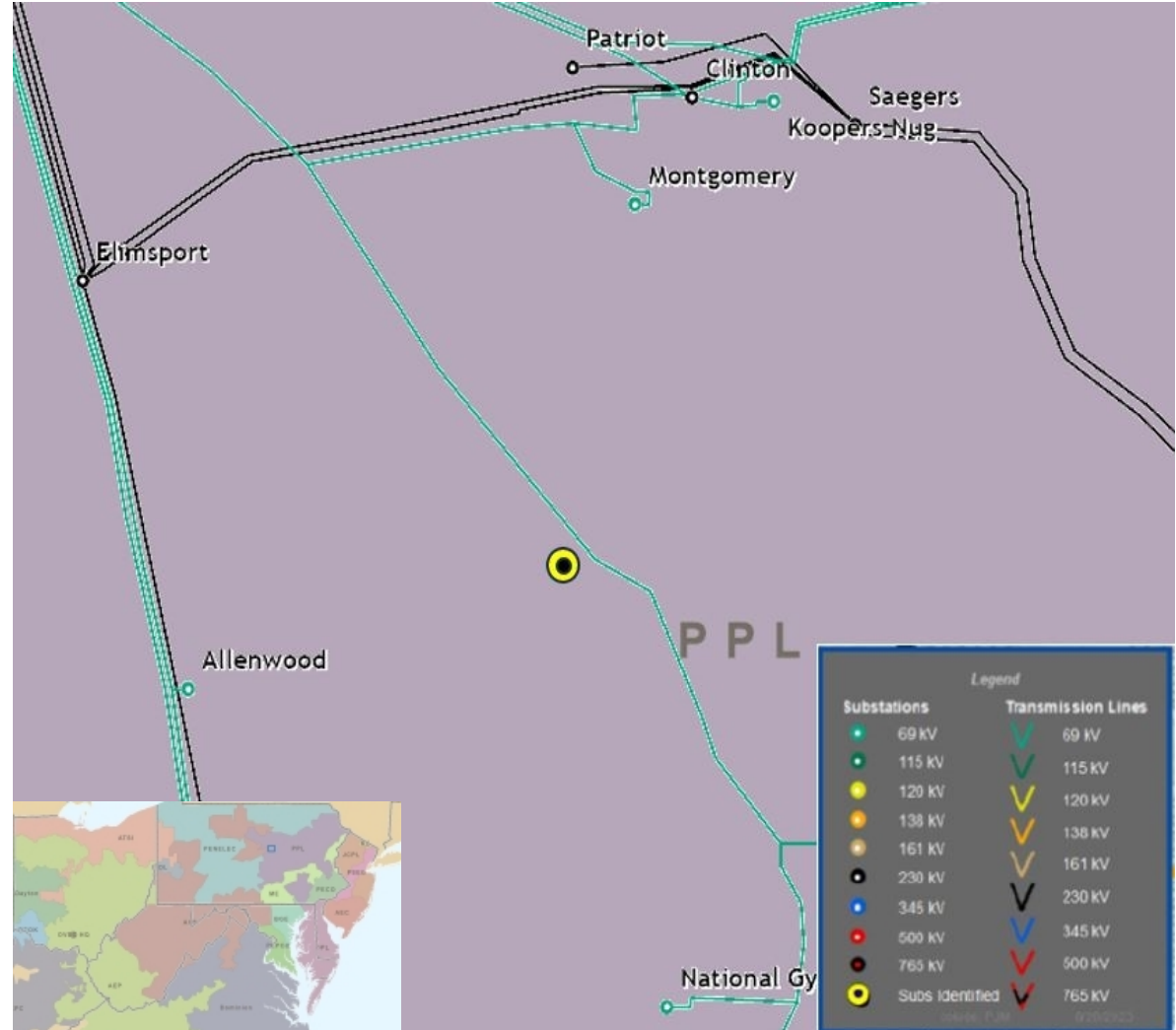
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Allenwood, PA. The total facility load is approximately 300 MW (2030). This request is associated with SR-RTEP need PPL-2026-0016, as the initial 60MW will be served by 69kV and then transitioned to this submittal. The requested in-service date is 06/2028.

Initial In-Service 2028 Load: 100MW

Projected 2029 Load: 200 MW

Projected 2031 Load: 300 MW



Need number(s): PPL-2026-0031

Process Stage: Solution Meeting 10/06/2026

Proposed Solution:

Elimsport 230kV Switchyard

- Install one new BAAH 230kV bay and add terminal to existing bay.
- Estimated Cost: \$7 M

Customer 230kV Lead Lines

- Install two 230kV lead lines for approximately 7 miles from Elimsport 230kV switchyard to the customer substation.
- Estimated Cost: \$31.5 M

Sunbury 230kV Yard

- Add terminal for a new 230kV line in the Sunbury 230kV GIS.
- Estimated Cost: \$5 M

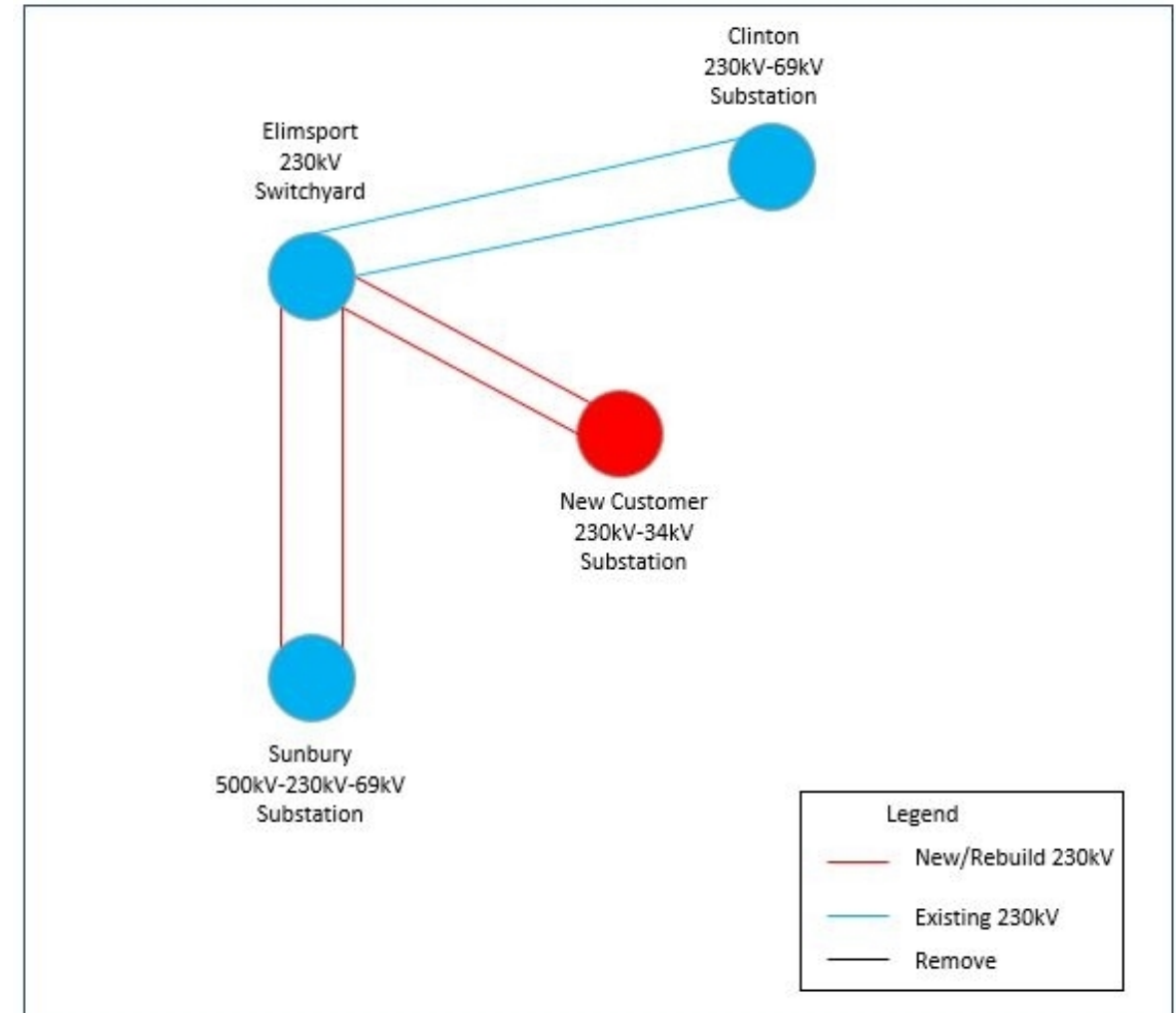
Sunbury – Elimsport 230kV Line

- Rebuild the 25.6-mile-long Sunbury - Elimsport 230kV line to double circuit 230kV.
- Estimated Cost: \$115 M

Ratings MVA (SN/SE/WN/WE):

Elimsport 230kV Switchyard

- New 230 kV Breaker
 - Before Proposed Solution: N/A kA





PPL Transmission Zone M-3 Process

Elimsport 230kV Lines

Need number(s): PPL-2026-0031

Ratings MVA (SN/SE/WN/WE): Continued from previous slide...

- After Proposed Solution: 63 kA

Customer 230kV Lead Lines

- Before Proposed Solution: N/A
- After Proposed Solution: 933/1079/998/1143

Sunbury 230kV Yard

- CB-2T 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63 kA

Sunbury – Elimsport 230kV Line

- Before Proposed Solution: 421/537/486/605
- After Proposed Solution: 1195/1431/1195/1640

Alternatives Considered:

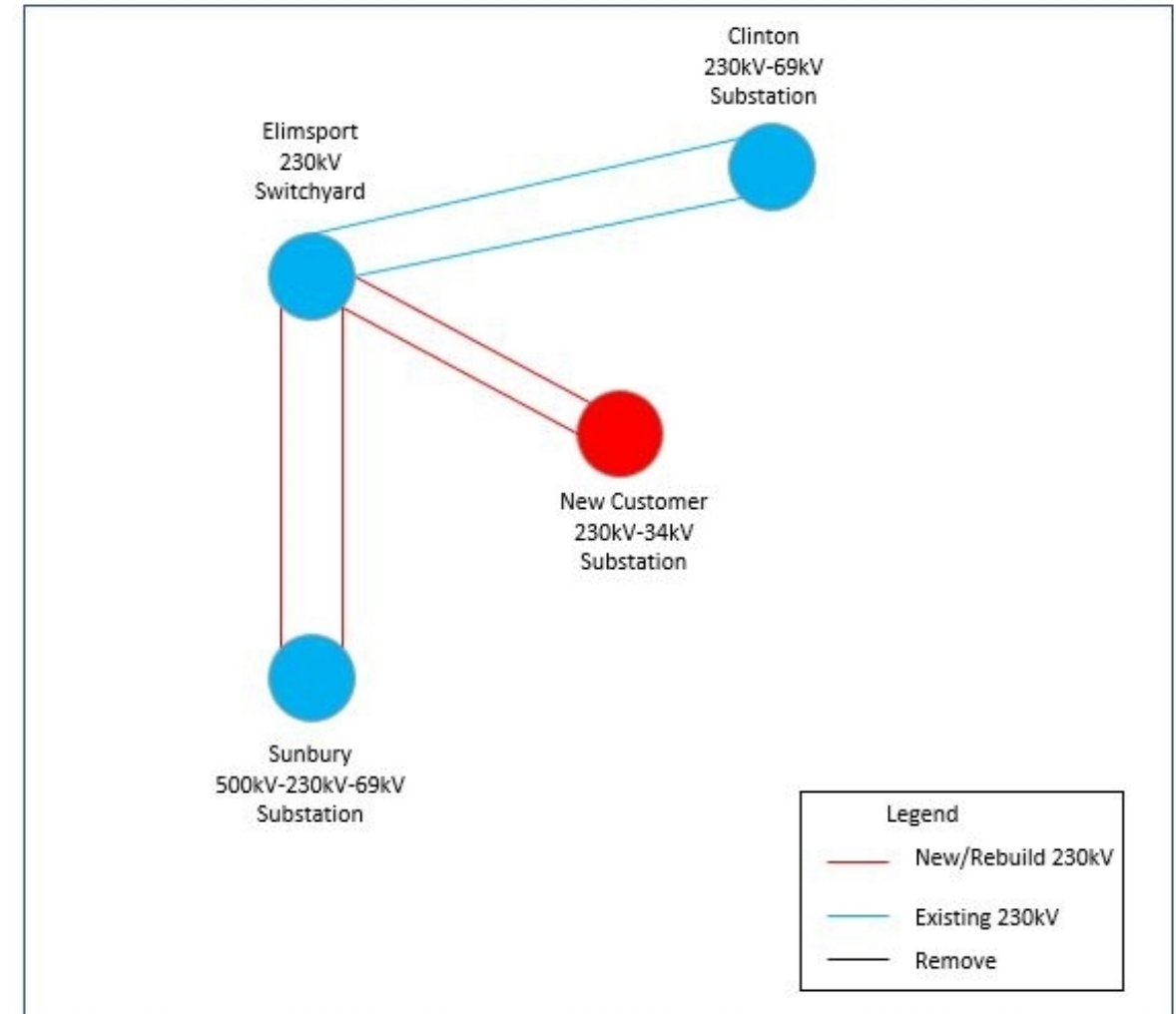
No functional alternatives as the customer site is nearest to the Elimsport 230kV Substation.

Transmission Cost Estimate: \$158.5 M

Projected In-Service: 05/30/2029

Project Status: Conceptual

Model: 2030





Need Number: PPL-2026-0040

Process Stage: Solution Meeting 10/06/2026

Previously Presented: Need Meeting 08/04/2026

Project Driver: Customer Service

Specific Assumption References:

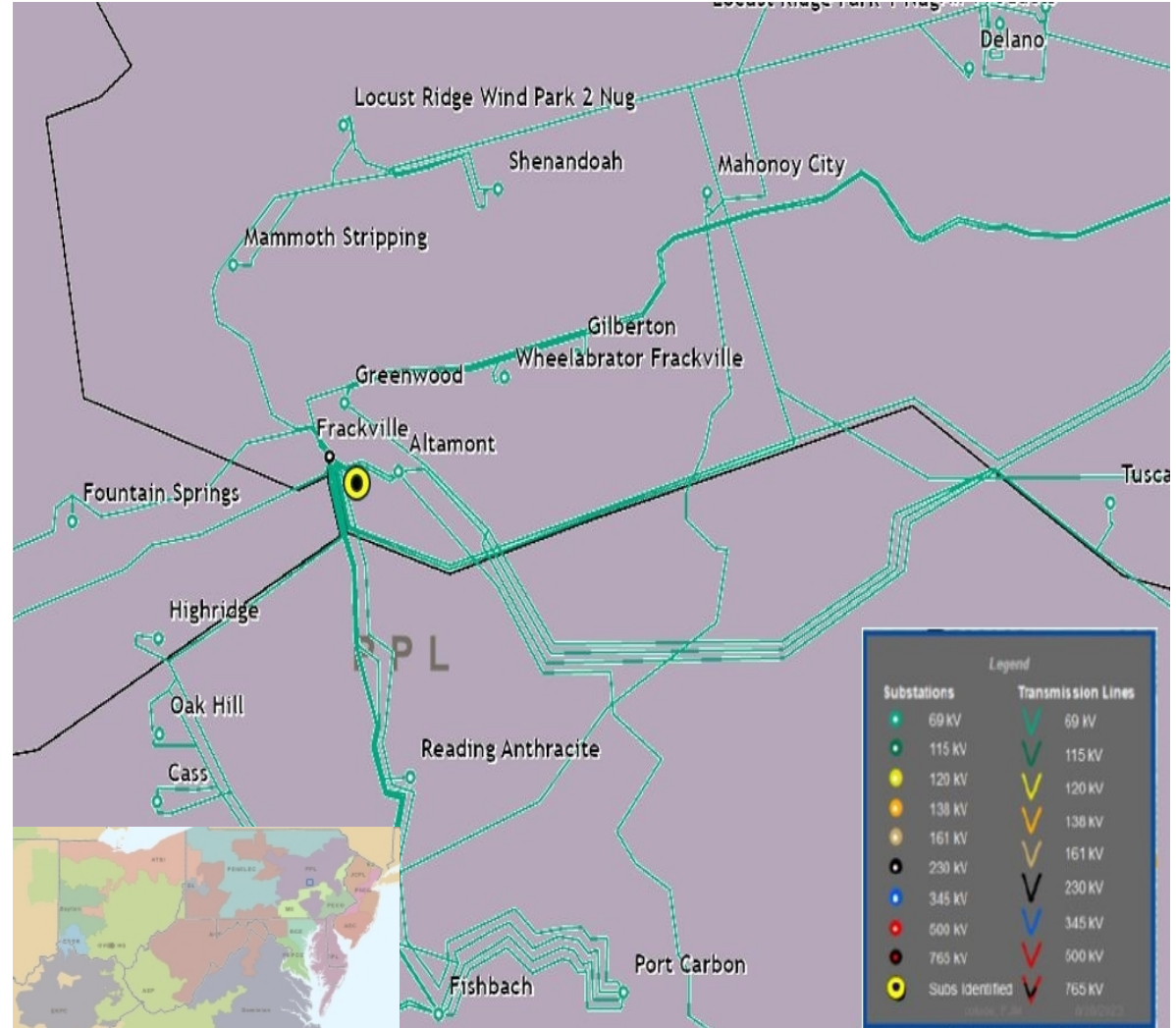
PPL 2026 Annual Assumptions

Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source near Frackville, PA. The total facility load is approximately 750 MW (2031). The requested in-service date is 05/2029.

PPL Transmission Zone M-3 Process

Frackville 230kV yard





PPL Transmission Zone M-3 Process

Frackville 230kV yard

Need number(s): PPL-2026-0040

Process Stage: Solution Meeting 10/06/2026

Proposed Solution:

Frackville 230kV Yard

- Install three BAAH 230kV bays with an 80MVAR Capacitor bank.
- Estimated Cost: \$30 M

Customer 230kV Lead Lines

- Install three 230kV lead lines for approximately 0.5 miles from Frackville 230kV switchyard to the customer substation.
- Estimated Cost: \$5.3 M

Frackville - Siegfried 230kV Line

- Re-terminate the Frackville - Siegfried 230kV Line into a bay in the expanded 230kV yard at Frackville.
- Estimated Cost: \$1 M

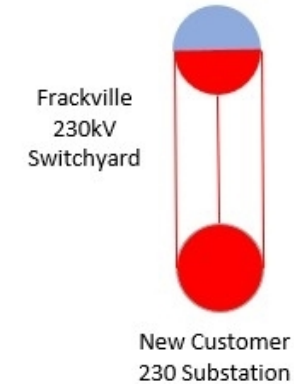
Ratings MVA (SN/SE/WN/WE):

Frackville 230kV Yard

- New 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63 kA

Customer 230kV Lead Lines

- Before Proposed Solution: N/A





PPL Transmission Zone M-3 Process

Frackville 230kV yard

Need number(s): PPL-2026-0040

Ratings MVA (SN/SE/WN/WE): Continued from previous slide...

- After Proposed Solution: 933/1079/998/1143

Frackville - Siegfried 230kV Line

- Before Proposed Solution: 513/628/564/682
- After Proposed Solution: 513/628/564/682

Alternatives Considered:

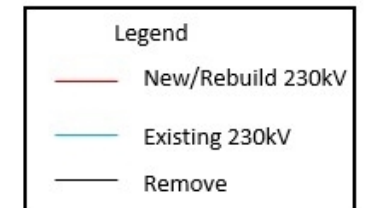
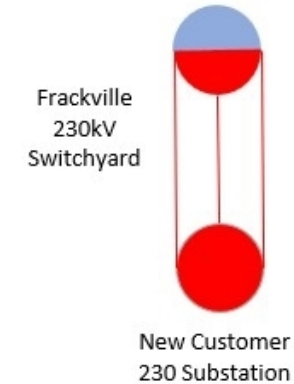
No functional alternatives as the customer site is adjacent to the Frackville 230kV Substation.

Transmission Cost Estimate: \$36.3 M

Projected In-Service: 05/30/2029

Project Status: Conceptual

Model: 2030



Revision History

09/25/2026 – V1 – Posted to pjm.com