

Transmission Expansion Advisory Committee Supplemental Projects

PPL Transmission Zone

Changes to Existing Projects

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 Beach Haven

Need Number: PPL-2026-0003

Process Stage: Solution Meeting 11/03/2026

Previously Presented: Need Meeting 03/10/2026, Solution Meeting 05/05/2026

Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

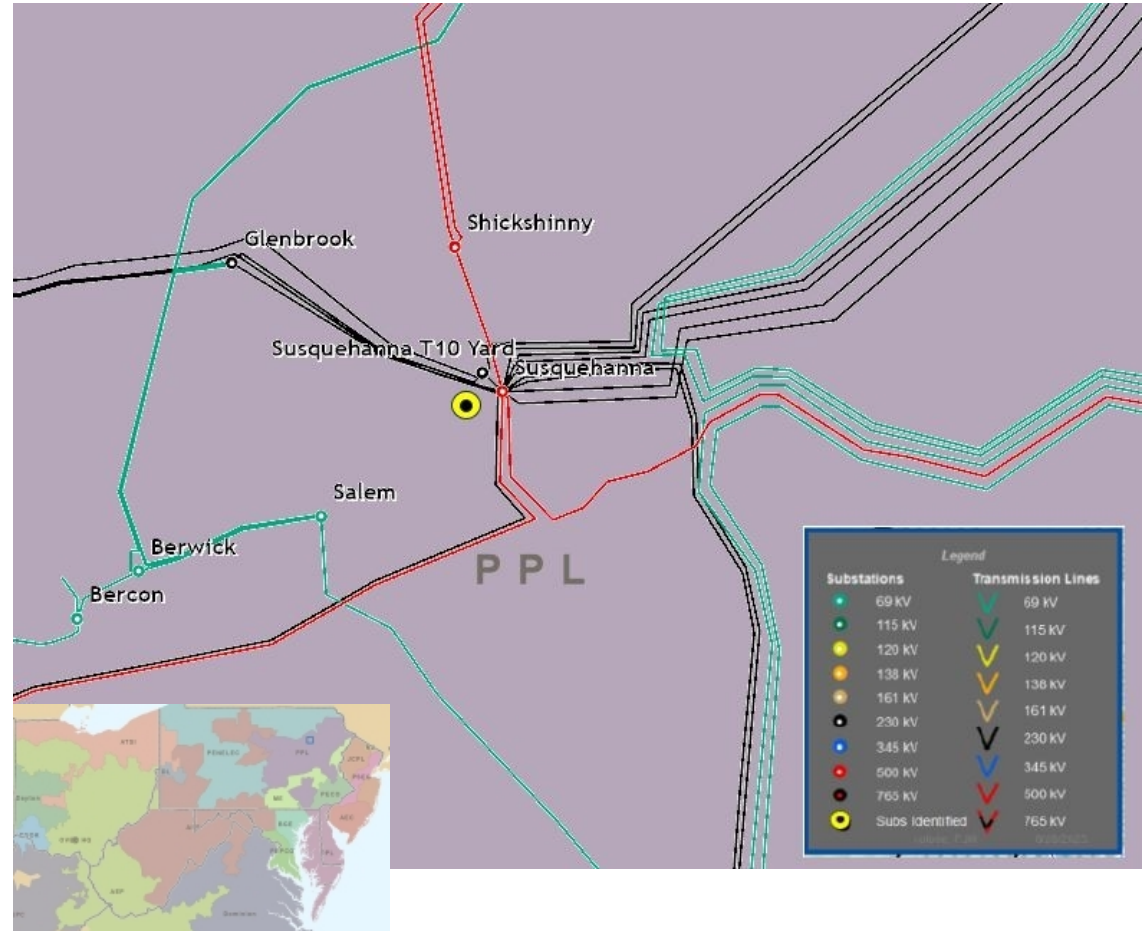
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Berwick, PA. The total facility load is approximately 1,500 MW (2033). The requested in-service date is 5/2028.

Initial In-Service 2028 Load: 75 MW

Projected 2029 Load: 300 MW

Projected 2031 Load: 750 MW





PPL Electric Utilities

Need number(s): PPL-2026-0003

Process Stage: Solution Meeting 11/03/2026

Proposed Solution:

Beach Haven 230kV Yard

- Install nine bays of new BAAH 230kV switchyard with a 144 MVAR Capacitor bank.
- Estimated Cost: \$53 M

Bifurcate Glen Brook – Susquehanna T10 #1 & #2 230kV Lines

- Bifurcate Glen Brook - Susquehanna T10 #1 & #2 230kV line into the new Beach Haven 230kV switchyard (~0.2 miles)
- Estimated Cost: \$4.5 M

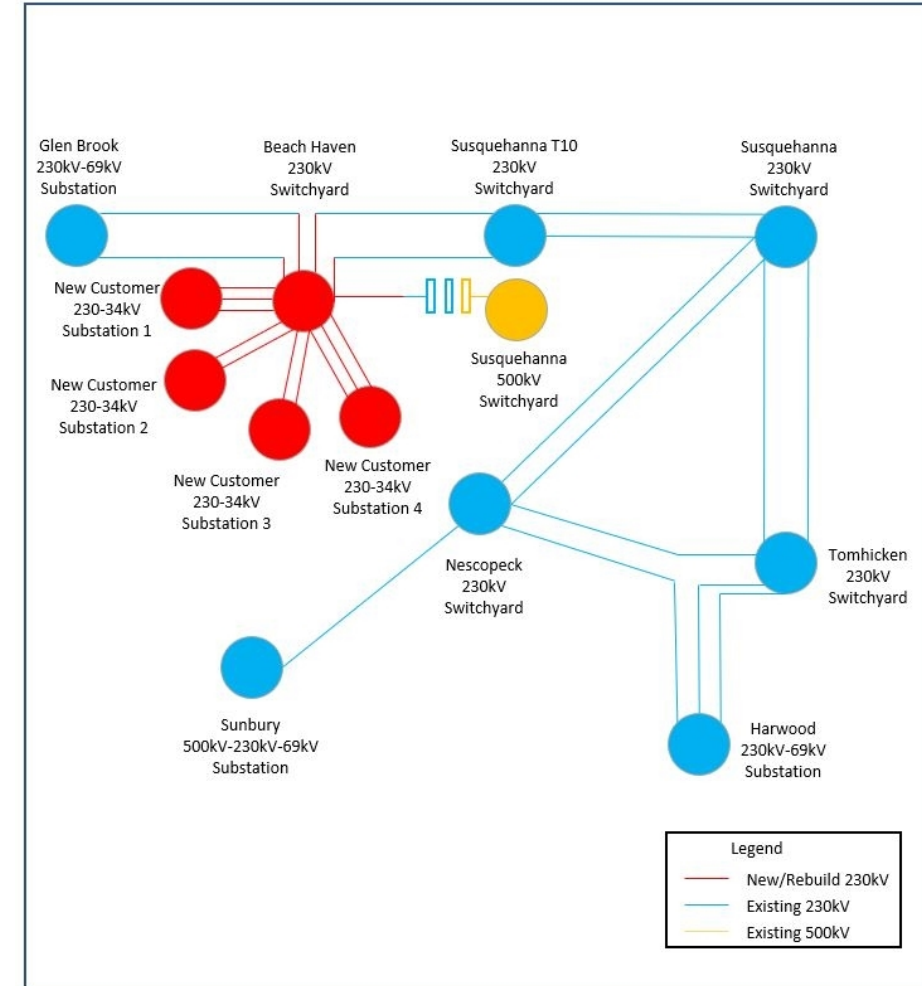
Terminate Susquehanna 500-230kV T22 at Beach Haven

- Terminate the 230kV T22 lead line into the new Beach Haven 230kV switchyard (~0.8 miles) (Originally went to Nescopeck under PPL-2025-0010)
- Estimated Cost: \$5 M

Beach Haven 230kV Customer Lead Lines

- Install two sets of three 230kV lead lines for approximately 0.8 and 1 miles respectively, from Beach Haven 230kV switchyard to the customer substations. Install two sets of double circuit 230kV lead lines for approximately 0.25 and 0.3 miles respectively, from Beach Haven 230kV switchyard to the customer substations.
- Estimated Cost: \$18.7 M

PPL Transmission Zone M-3 Process Beach Haven





PPL Transmission Zone M-3 Process Beach Haven

Need number(s): PPL-2026-0003

Proposed Solution: Continued from previous slide...

Susquehanna T10 Breaker Replacements

- Replace three 50kA breakers with 63kA units at the Susquehanna T10 230kV yard.
- Estimated Cost: \$4.5M

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

Beach Haven 230kV Yard

- Beach Haven all 230kV breakers 230 kV Breaker
 - Prior to Proposed Solution: N/A kA
 - With Proposed Solution: 63 kA

Bifurcate Glen Brook – Susquehanna T10 #1 & #2 230kV Lines

- Before Proposed Solution: 1196/1352/1269/1425
- After Proposed Solution: 1245/1431/1475/1640

Terminate Susquehanna 500-230kV T22 at Beach Haven

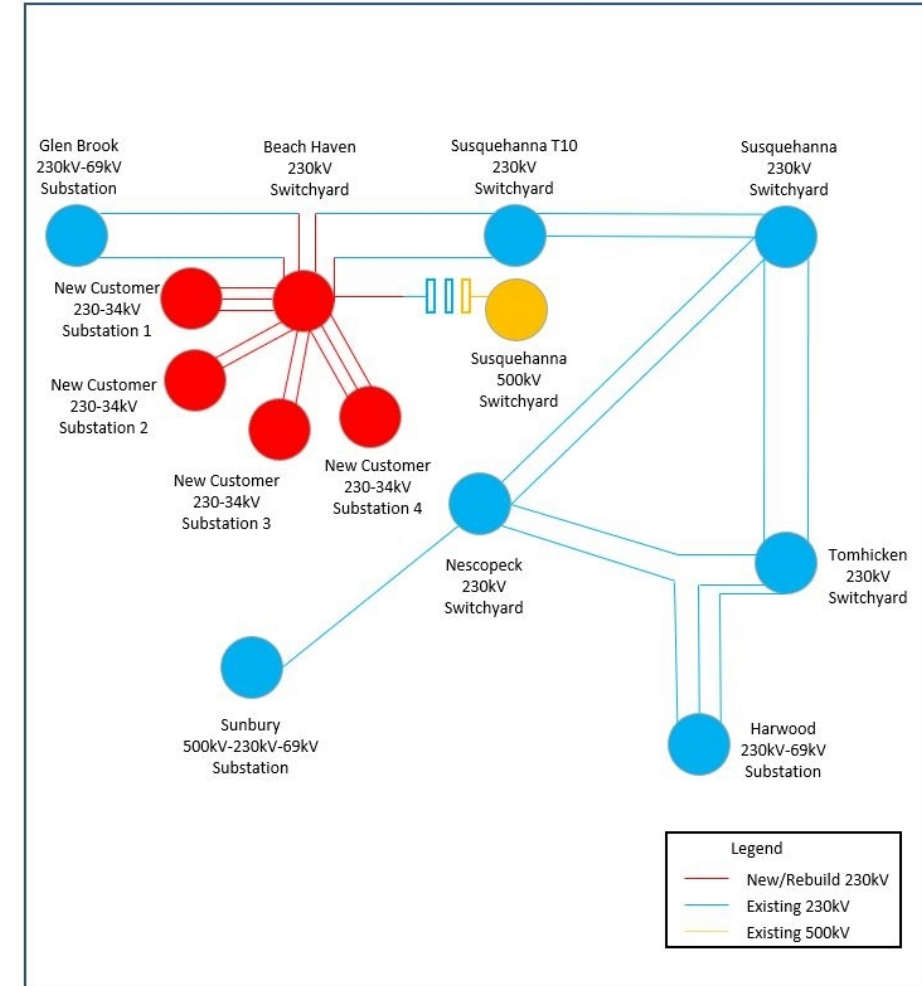
- Before Proposed Solution: N/A
- After Proposed Solution: 1331/1644/1533/1850

Beach Haven 230kV Customer Lead Lines

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

Susquehanna T10 Breaker Replacements

- Before Proposed Solution: 50 kA
- After Proposed Solution: 63 kA





PPL Electric Utilities

Need number(s): PPL-2026-0003

Continued from previous slide...

Alternatives Considered:

1.No feasible alternative as Glen Brook and Susquehanna T10 230kV yards cannot be sufficiently expanded to serve the customer load

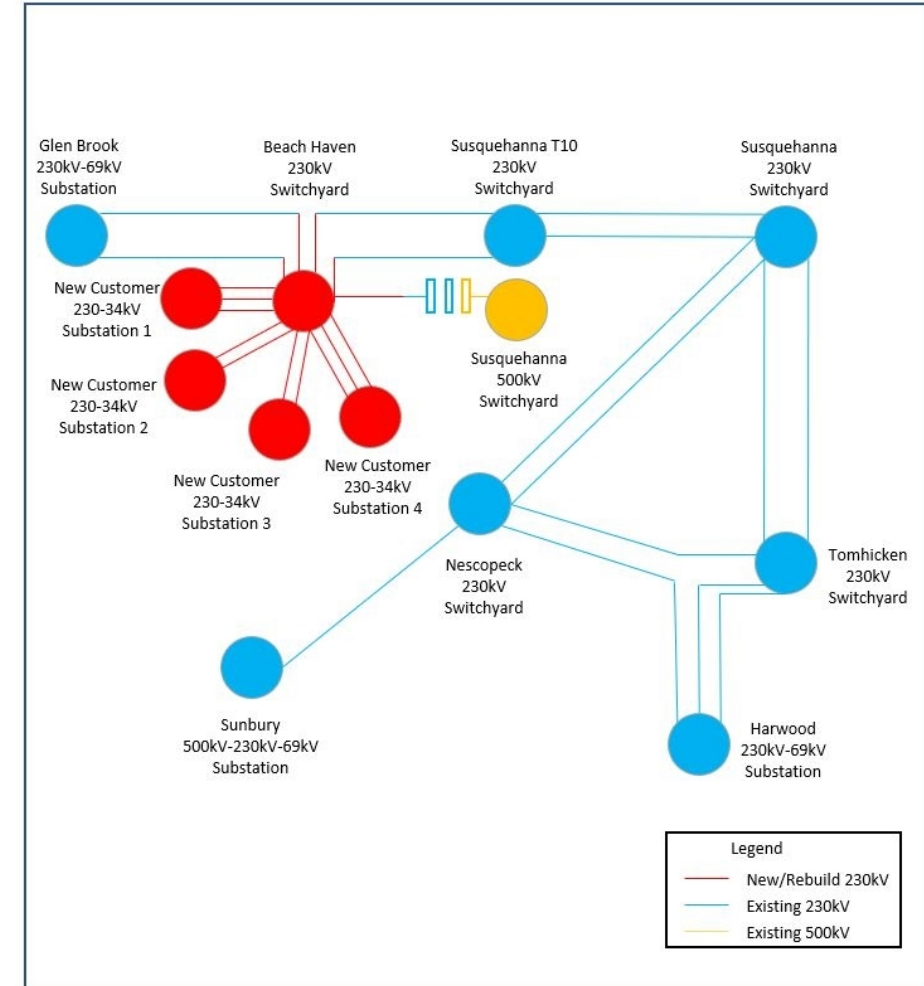
Transmission Cost Estimate: \$~~81.2~~ 85.7M

Projected In-Service: 05/30/2028

Project Status: Project Development

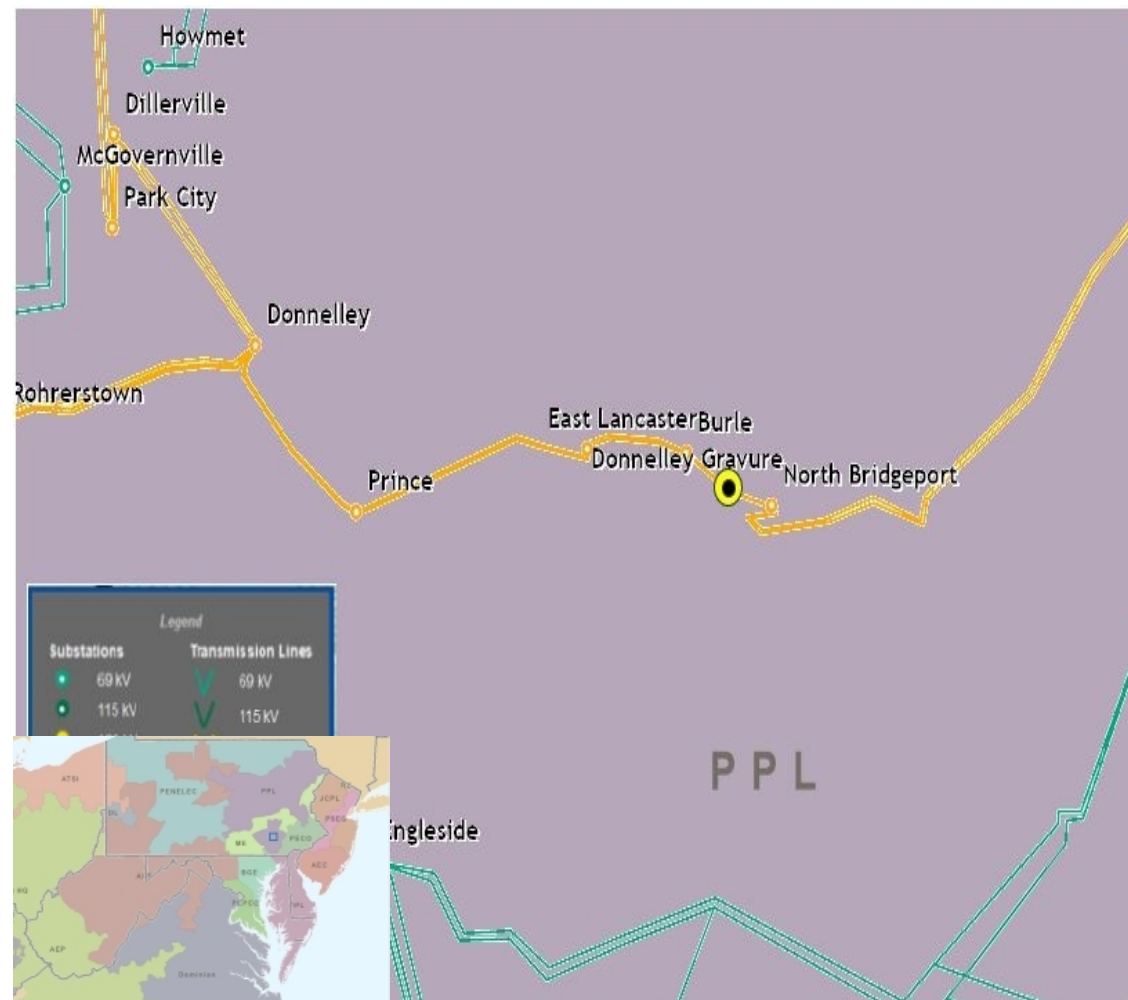
Model: 2030

PPL Transmission Zone M-3 Process Beach Haven





An existing 138kV customer in Lancaster, PA has submitted a request to increase their facility load. The total facility load will be approximately 350 MW (2028).





PPL Transmission Zone M-3 Process

Pitney New 138kV Switchyard

Need number(s): PPL-2024-0010

Process Stage: Solution Meeting 11/03/2026

Proposed Solution:

Pitney 138kV Switchyard (s3547.1)

- Construct a new five bay BAAH 138kV switchyard near the customer's facility.
- Estimated Cost: \$34 M

South Akron - Prince #1 & #2 138kV lines (s3547.2)

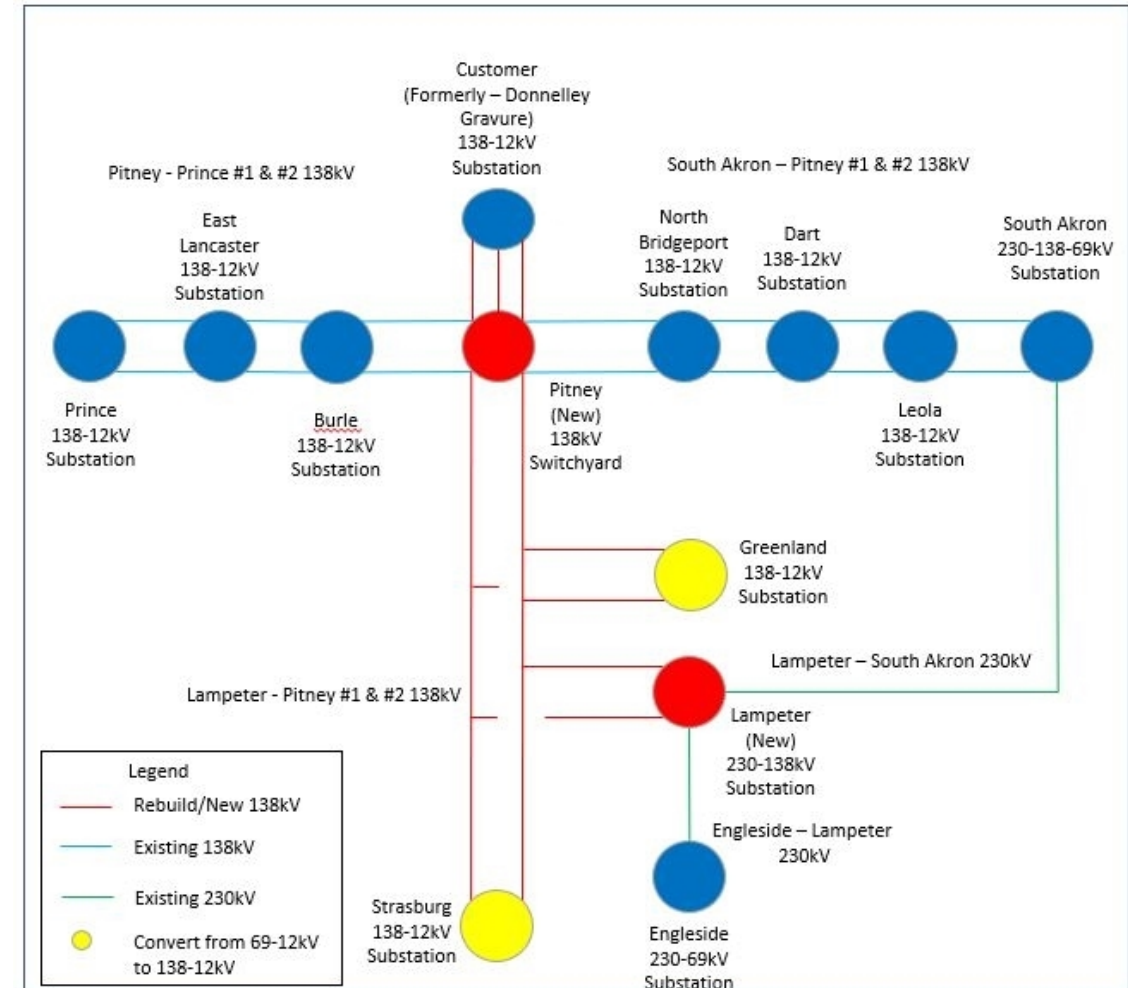
- Bifurcate the South Akron - Prince #1 & #2 138kV and terminate at the new Pitney 138kV switchyard. Extend the 138kV lines approximately 0.2 miles into the new Pitney 138kV switchyard.
- Estimated Cost: \$3 M

138kV Customer Tap Lines (s3547.3)

- Extend ~~three~~ **four** 138kV circuits for approximately 0.1 miles from the Pitney 138kV switchyard to the customer's facility.
- Estimated Cost: \$3.5 M

Lampeter ~~Sprecher~~ 230-138kV Substation (s3547.4)

- Install a new 230-138kV Substation. Install a two bay 230kV BAAH yard, two 230-138kV 330MVA transformers, and a two bay BAAH 138kV yard.
- Estimated Cost: \$47.3 M





PPL Transmission Zone M-3 Process

Pitney New 138kV Switchyard

Need number(s): PPL-2024-0010

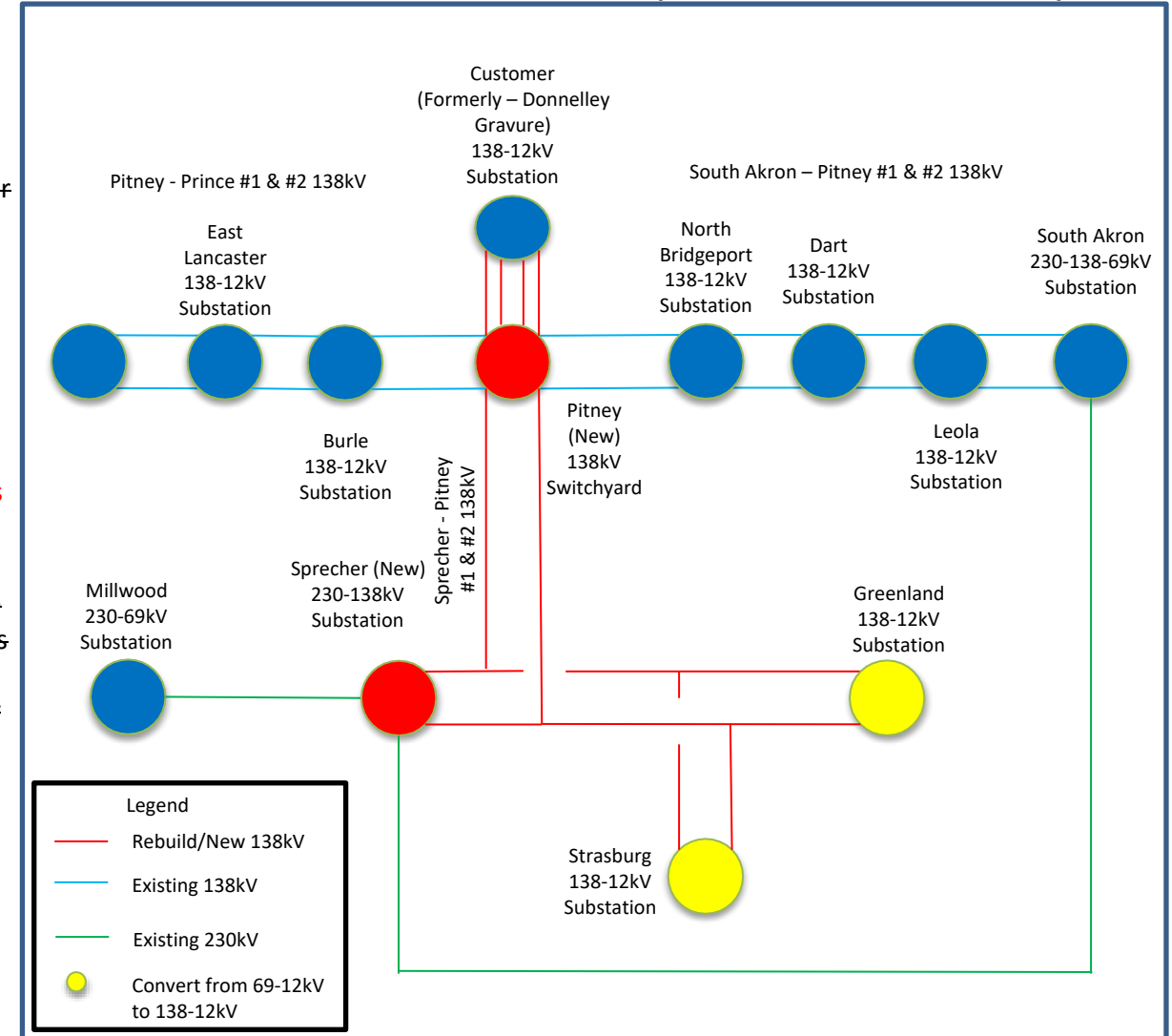
Proposed Solution: Continued from previous slide...

Millwood - South Akron 230kV Line (s3547.5)

- Bifurcate the Millwood - South Akron 230kV line and terminate at the new **Lampeter Sprecher** 230-138kV Substation.
- Estimated Cost: \$4 M

~~Lampeter Sprecher~~ - Pitney #1 & #2 138kV Lines (s3547.6)

- Rebuild 6.9 miles of the Engleside – Greenland #1 & #2 69kV line to double circuit 138kV operation from Engleside to the Greenland sub. Extend two 138 kV circuits from the Sprecher 138kV yard for ~4.2 miles and tie into the rebuilt Engleside-Greenland lines. Rebuild the 3.1-mile Strasburg #1 #2 69kV taps to double circuit 138kV operation. Extend a new double circuit 138kV underground line for ~2.5 miles from the Engleside – Greenland #1 & #2 138kV lines to Pitney 138kV switchyard.
- ~~Rebuild 3.1 miles the Strasburg #1 #2 69kV taps to double circuit 138kV operation from outside Lampeter to Strasburg substation. Extend two 138 kV circuits from the Lampeter 138kV yard and tie into the rebuilt Strasburg 138kV lines. Rebuild 3.3 miles of the Engleside – Greenland #1 & #2 69kV line to double circuit 138kV operation from Strasburg Tap to the Greenland sub. Extend a new double circuit 138kV line for ~1.5 miles from the Engleside – Greenland #1 & #2 138kV lines to Pitney 138kV switchyard. Remove a 3.6 mile section of the Engleside – Greenland #1 & #2 69kV line that will no longer be utilized.~~
- Estimated Cost: \$26 **80.1** M





PPL Electric Utilities

Need number(s): PPL-2024-0010

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

Pitney 138kV Switchyard (s3547.1)

South Akron - Prince #1 & #2 138kV lines (s3547.2)

- Before Proposed Solution: 192/251/222/283
- After Proposed Solution: 192/251/222/283

138kV Customer Tap Lines (s3547.3)

- Before Proposed Solution: N/A
- After Proposed Solution: 430/506/460/536

Lampeter Sprecher 230-138kV Substation (s3547.4)

Millwood - South Akron 230kV Line (s3547.5)

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

Lampeter Sprecher - Pitney #1 & #2 138kV Lines (s3547.6)

- Before Proposed Solution: 96/125/111/141
- After Proposed Solution: 430/506/460/536

Alternatives Considered:

No feasible alternatives

Transmission Cost Estimate: \$117.8 **171.9M**

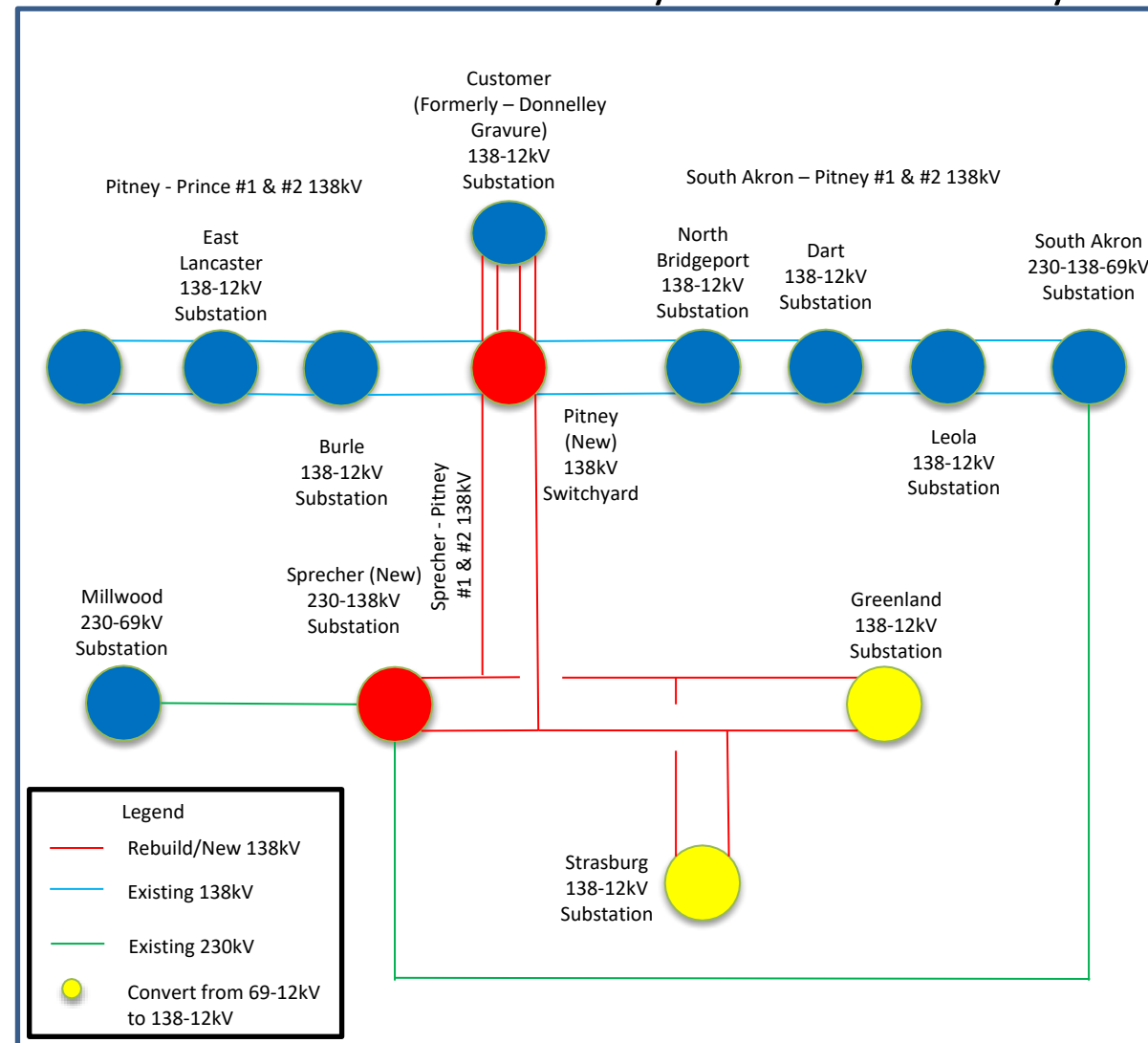
Projected In-Service: 06/01/2028

Project Status: Conceptual **Engineering/Construction**

Model: 2030

TEAC – 11/03/2026 - PPL

PPL Transmission Zone M-3 Process Pitney New 138kV Switchyard



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

Need Number: PPL-2026-0056

Process Stage: Need Meeting TEAC - 11/03/2026

Project Driver:

- *Customer Service*

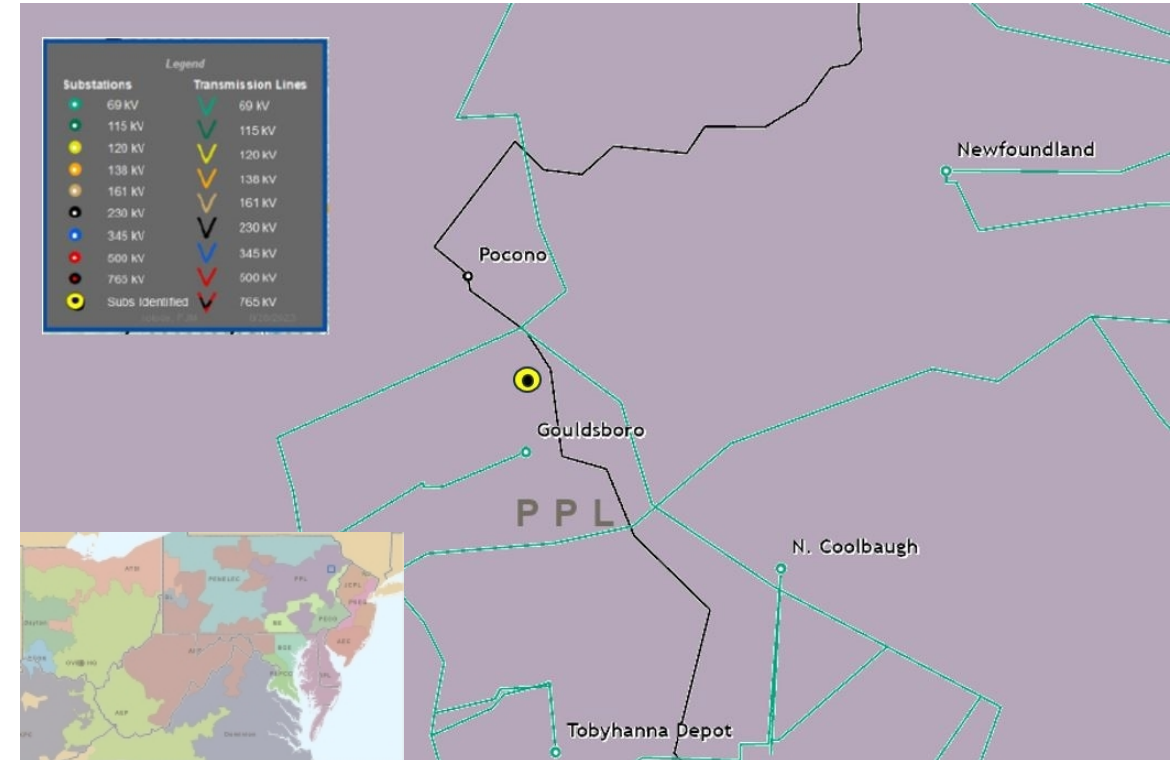
Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The Customer associated with PPL-2025-0012 requested a third 230kV delivery point with an additional 700MW of load. The requested in-service date is 05/2030.

- Initial Load: 250 MW, Expected Date: 05/2030
- Total Load: 700 MW, Expected Date: 05/2032



Revision History

10/23/2026 – V1 – Posted to pjm.com