Sub-Regional RTEP Committee – Mid-Atlantic
PPL Supplemental Projects

December 11th, 2025

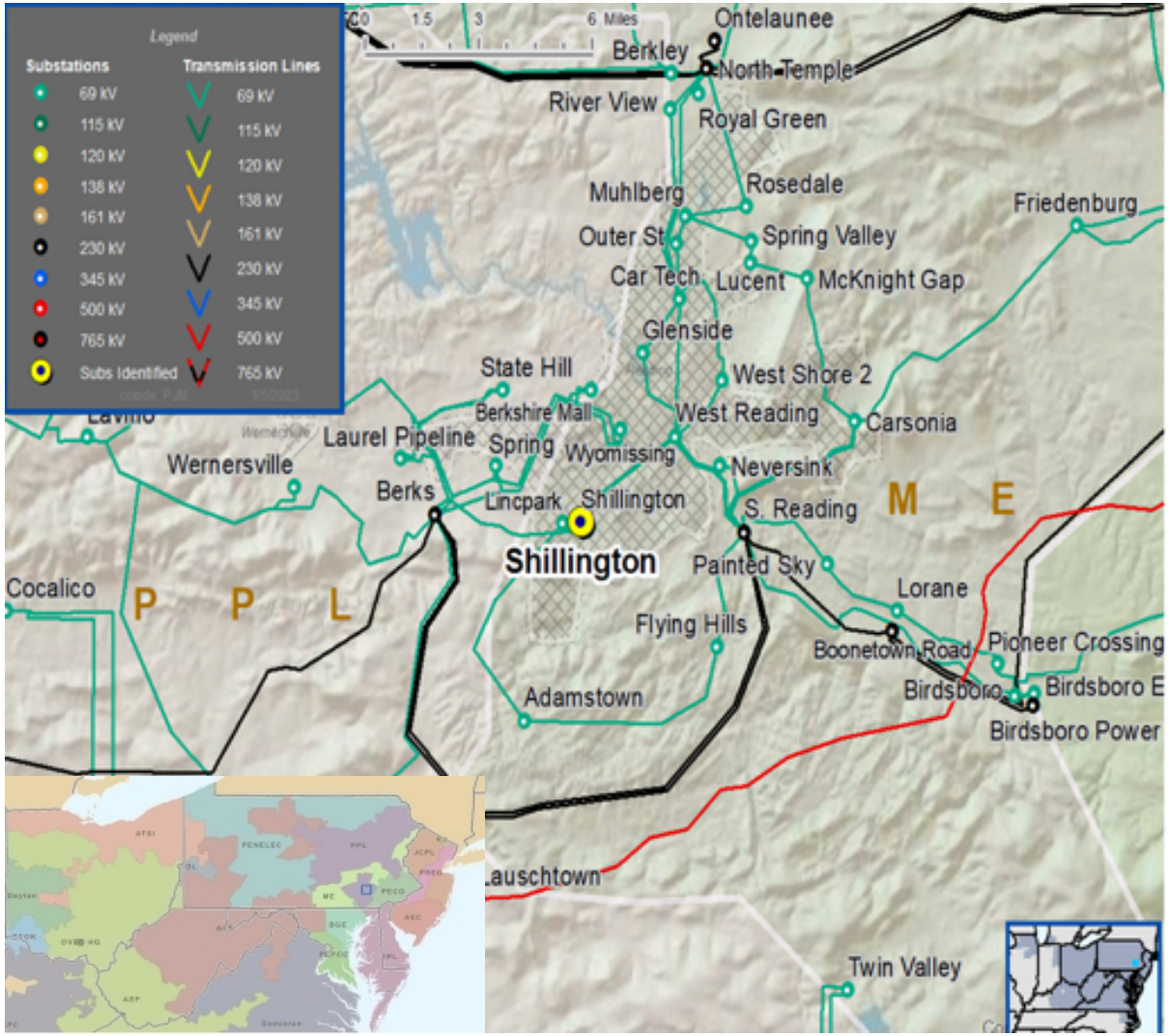
Needs

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: Supplemental Shillington, PA

Need Number: PPL-2023-0001
Process Stage: Need Meeting 12/11/2025, 01/17/2023
Project Driver: Equipment Condition/Performance/Risk, Customer Service
Specific Assumption References:
PPL 2025 Annual Assumptions

Problem Statement:
The Shillington 69kV Tap is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1941 (1.4 miles) and 1973 (0.3 miles). PPL owns 1.7 miles of this line, installed with 2/0 CU (1.4 miles) and 556.5 kcmil ACSR (0.3 miles) conductor. The structures are mostly wood poles with several steel poles and towers interspersed. PPL Distribution is requesting to convert Shillington Substation to a type "AA" configuration with two 69kV sources.



PPL Transmission Zone: Supplemental White Haven, PA

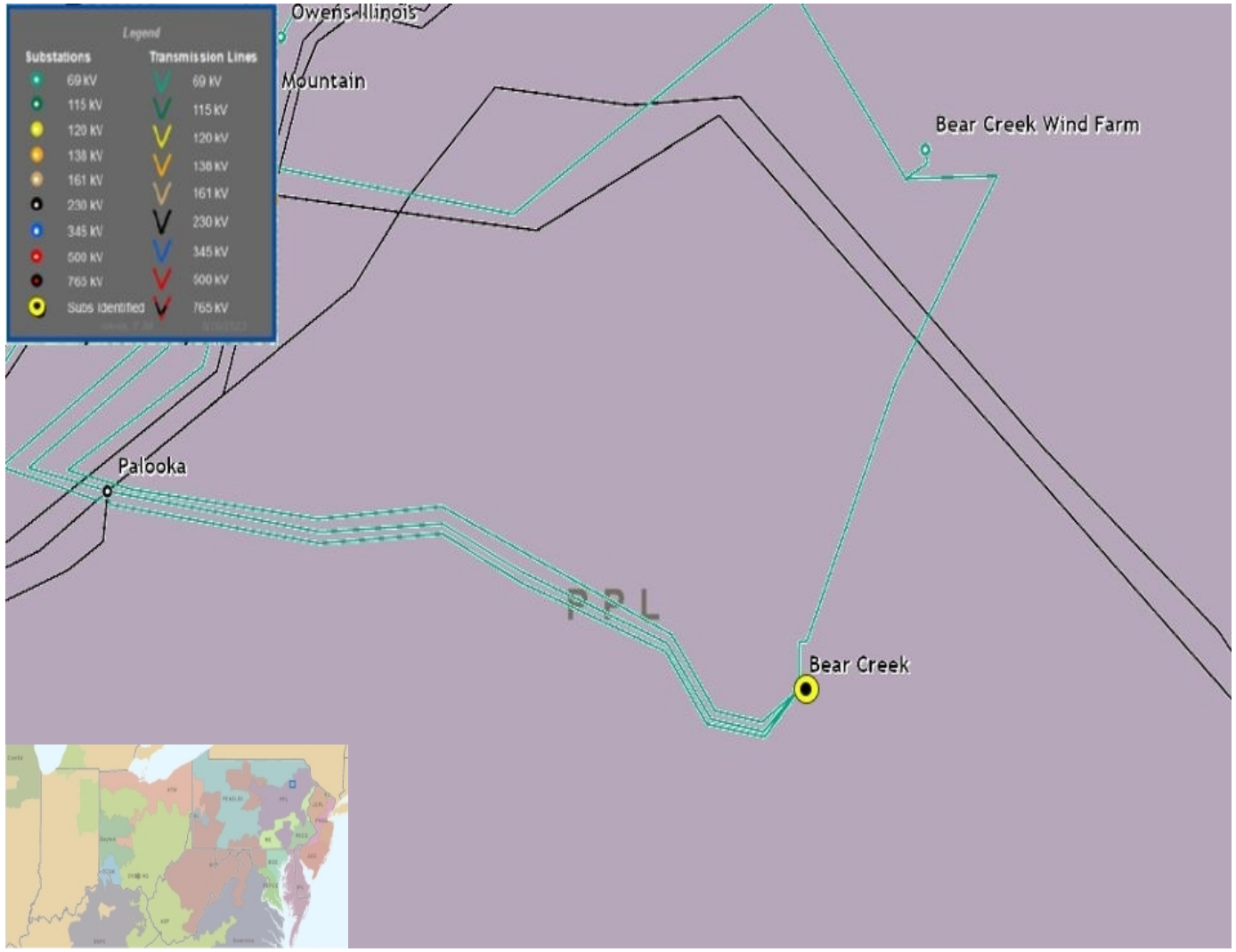
Need Number: PPL-2025-0026
Process Stage: Need Meeting 12/11/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

Problem Statement:
PPL Distribution is requesting to energize the on-site spare transformer at White Haven 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 12/2026.

PPL Transmission Zone: Supplemental Bear Creek, PA

Need Number: PPL-2025-0027
Process Stage: Need Meeting 12/11/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

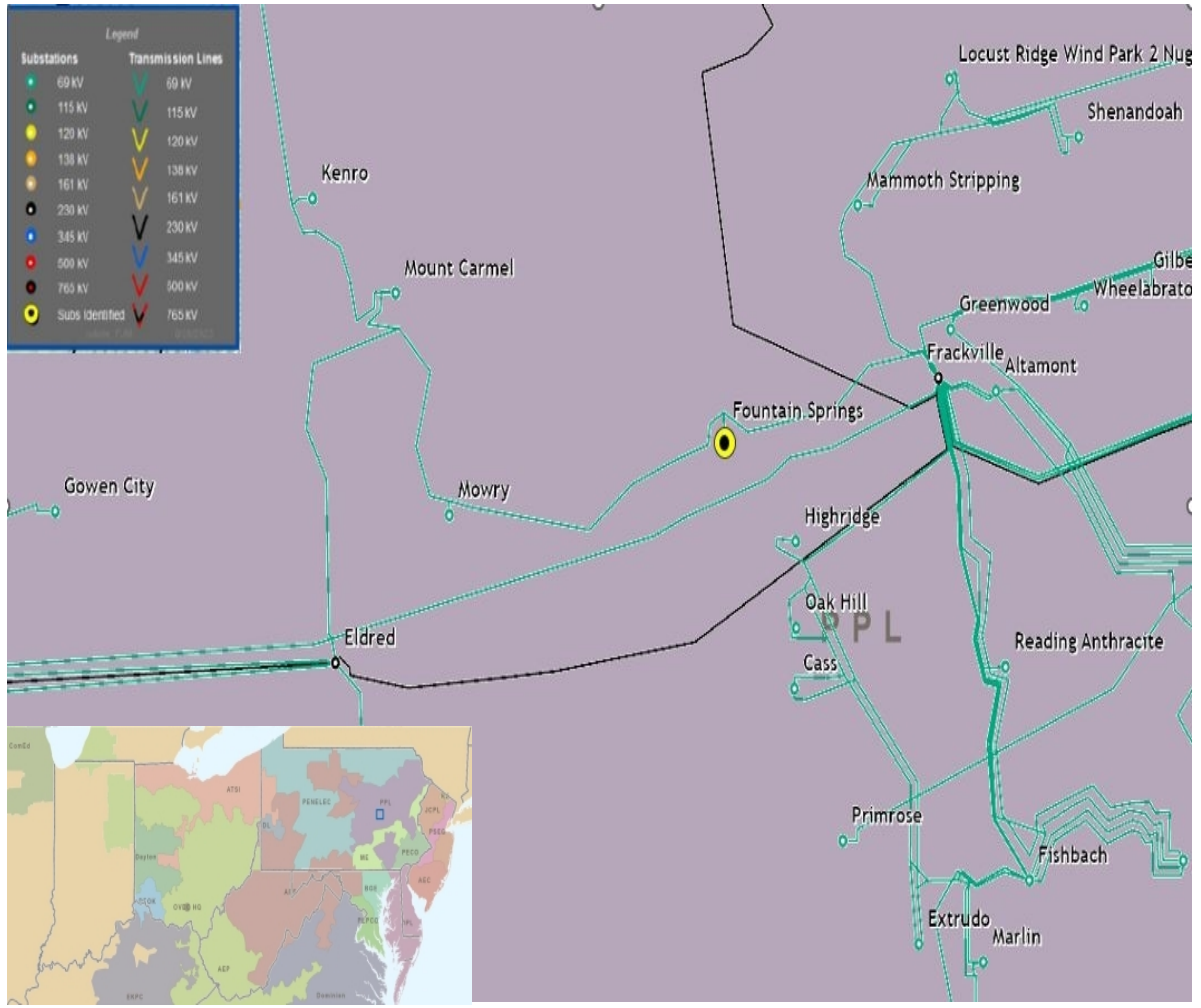
Problem Statement:
PPL Distribution is requesting to energize the on-site spare transformer at Bear Creek 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 11/2028.



PPL Transmission Zone: Supplemental Fountain Springs, PA

Need Number: PPL-2025-0028
Process Stage: Need Meeting 12/11/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

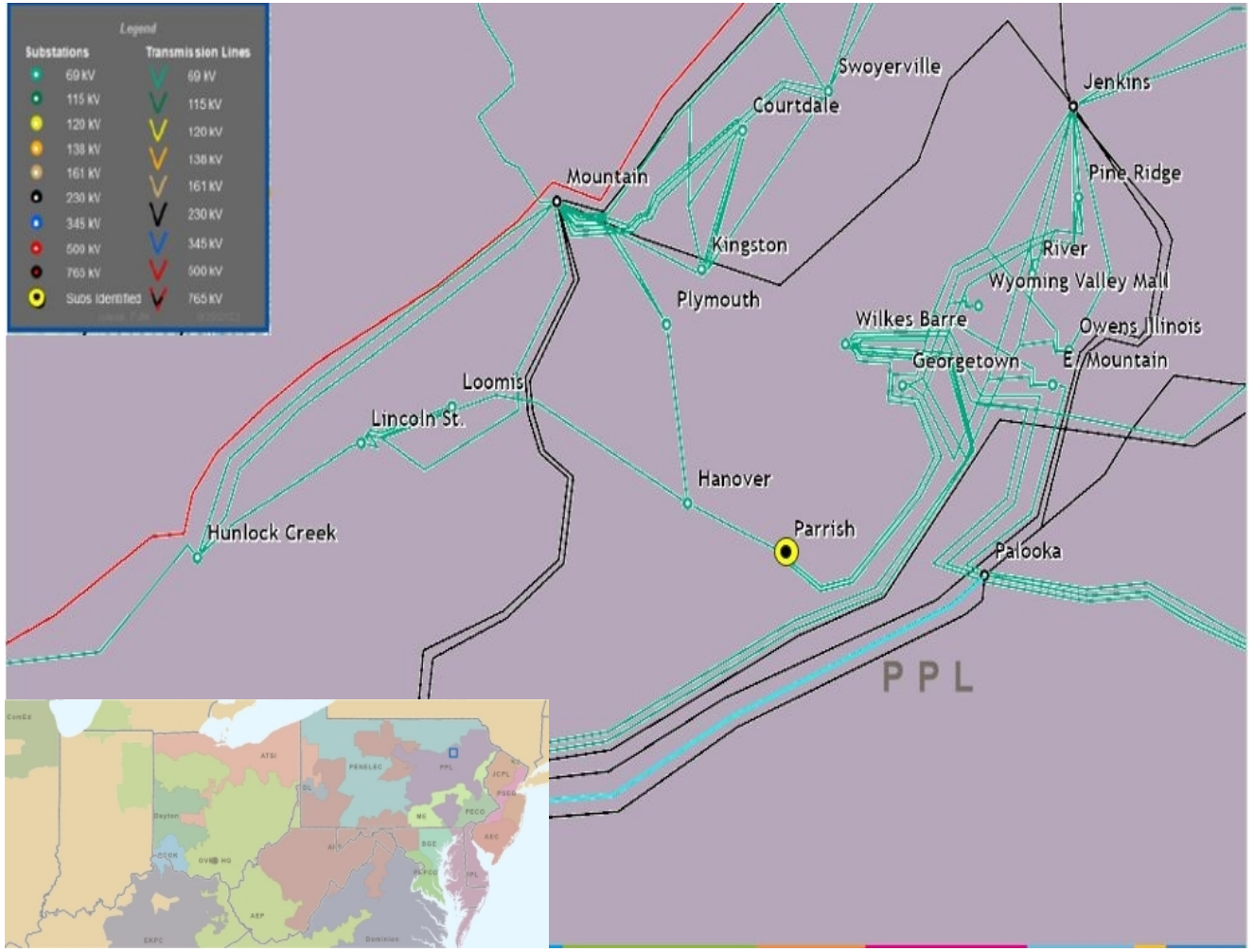
Problem Statement:
PPL Distribution is requesting to energize the on-site spare transformer at Fountain Springs 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 11/2028.



PPL Transmission Zone: Supplemental Parrish, PA

Need Number: PPL-2025-0029
Process Stage: Need Meeting 12/11/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

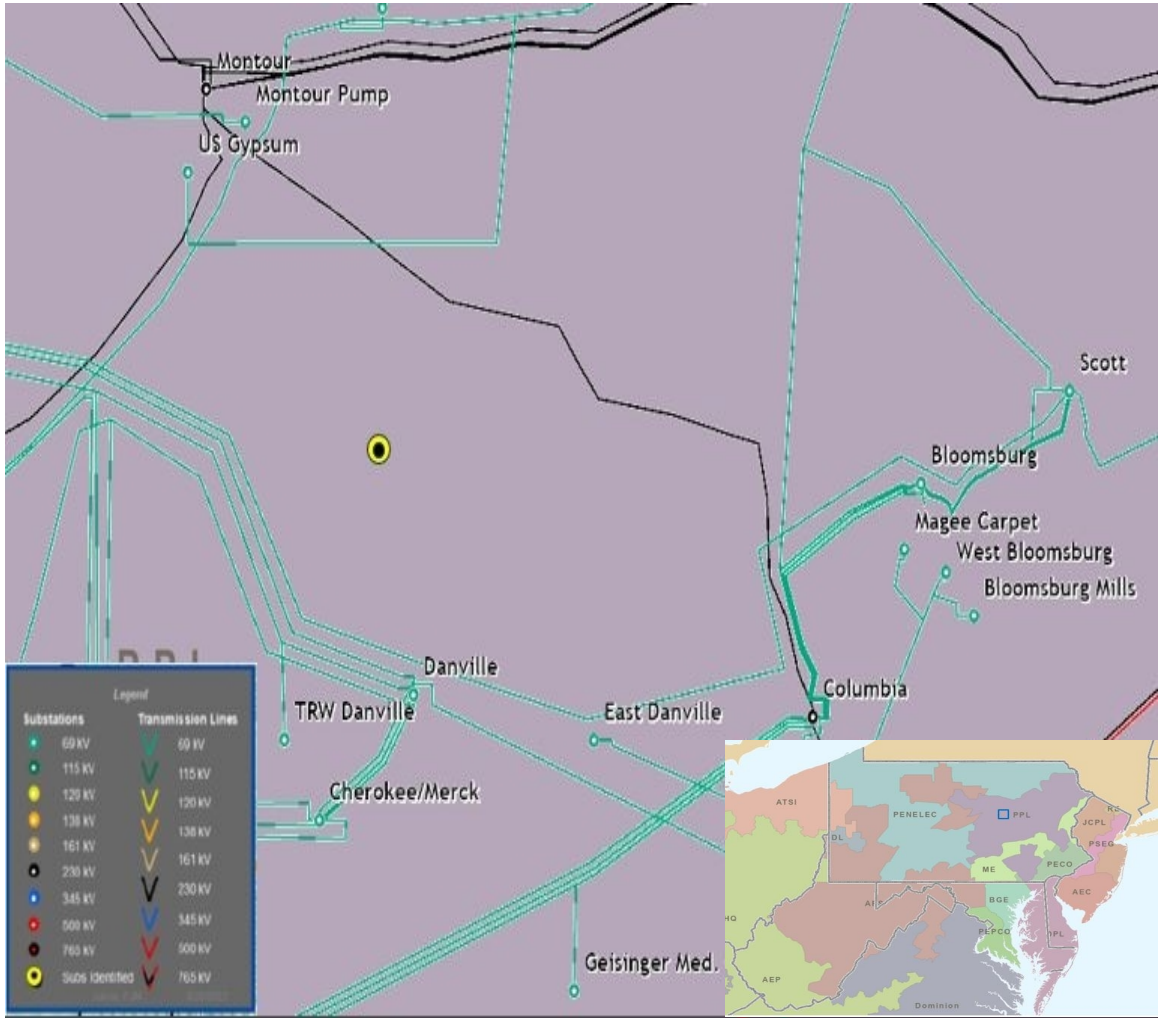
Problem Statement:
PPL Distribution is requesting to energize the on-site spare transformer at Parrish 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 11/2028.



PPL Transmission Zone: Supplemental Mausdale, PA

Need Number: PPL-2025-0030
Process Stage: Need Meeting 12/11/2025
Project Driver: Customer Service
Specific Assumption References:
PPL 2025 Annual Assumptions

Problem Statement:
PPL Distribution is requesting to service to a new 69-12kV Substation (Mausdale) in Danville, Pennsylvania. The substation is to alleviate existing overloaded distribution feeders and provide operational flexibility. Requested in-service 3/2028.



Solution - Represent

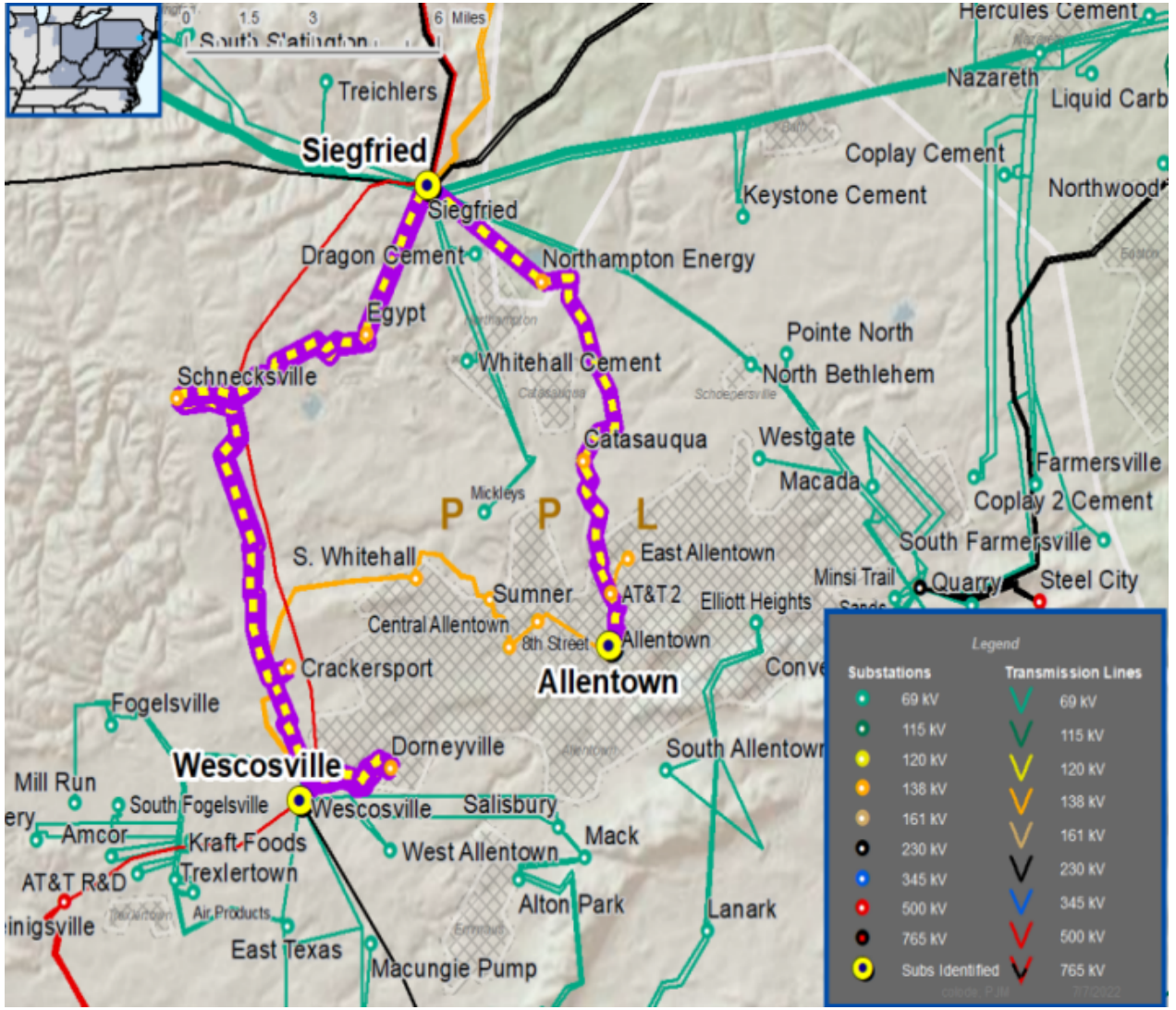
Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

PPL Transmission Zone: Supplemental Allentown, PA

Need Number: PPL-2022-0006
Meeting Date: 01/17/2023
Process Stage: Solution
Need Slide Presented: 07/21/2022
Supplemental Project Driver:
Operational Flexibility and Efficiency

Problem Statement:
PPL EU has experienced poor performance on the WESC-ALLE #1 & #2 138kV lines. Outage Performance since 2013:

Line Name	Momentary	Permanent
WESC-ALLE 1	4	1
WESC-ALLE 2	8	3



PPL Transmission Zone: Supplemental Allentown, PA

Need Number: PPL-2022-0006

Proposed Solution:

Rebuild the Sumner 138-12kV substation to a breaker and a half configuration to reduce customers affected by outages along the WESC-ALLE #1 & #2 138kV lines and allow for operational flexibility.

Alternatives Considered:

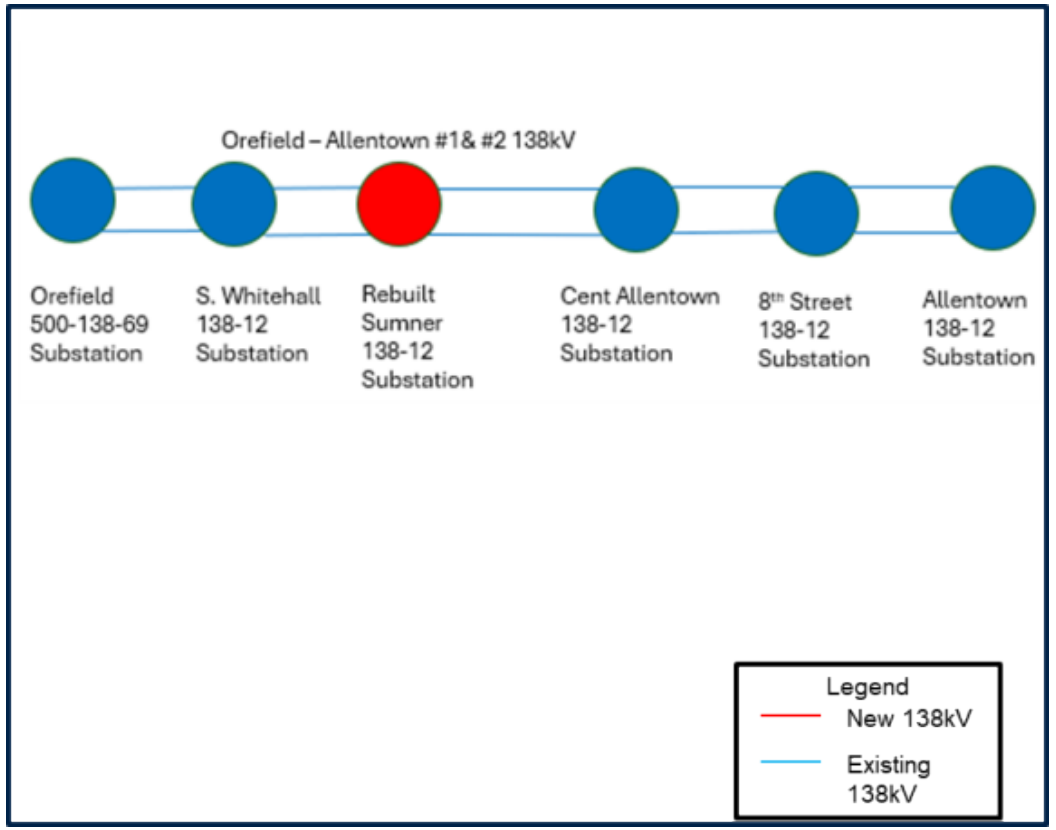
1. No feasible alternatives - Placing the Lehigh 138kV lines in radial configuration was evaluated but determined not be cost effective due to the cost of suppling Allentown with two independent 230kV sources.

Estimated Project Cost: $24.6M

Projected In-Service: 12/1/2028

Project Status: Conceptual

Model: 2028



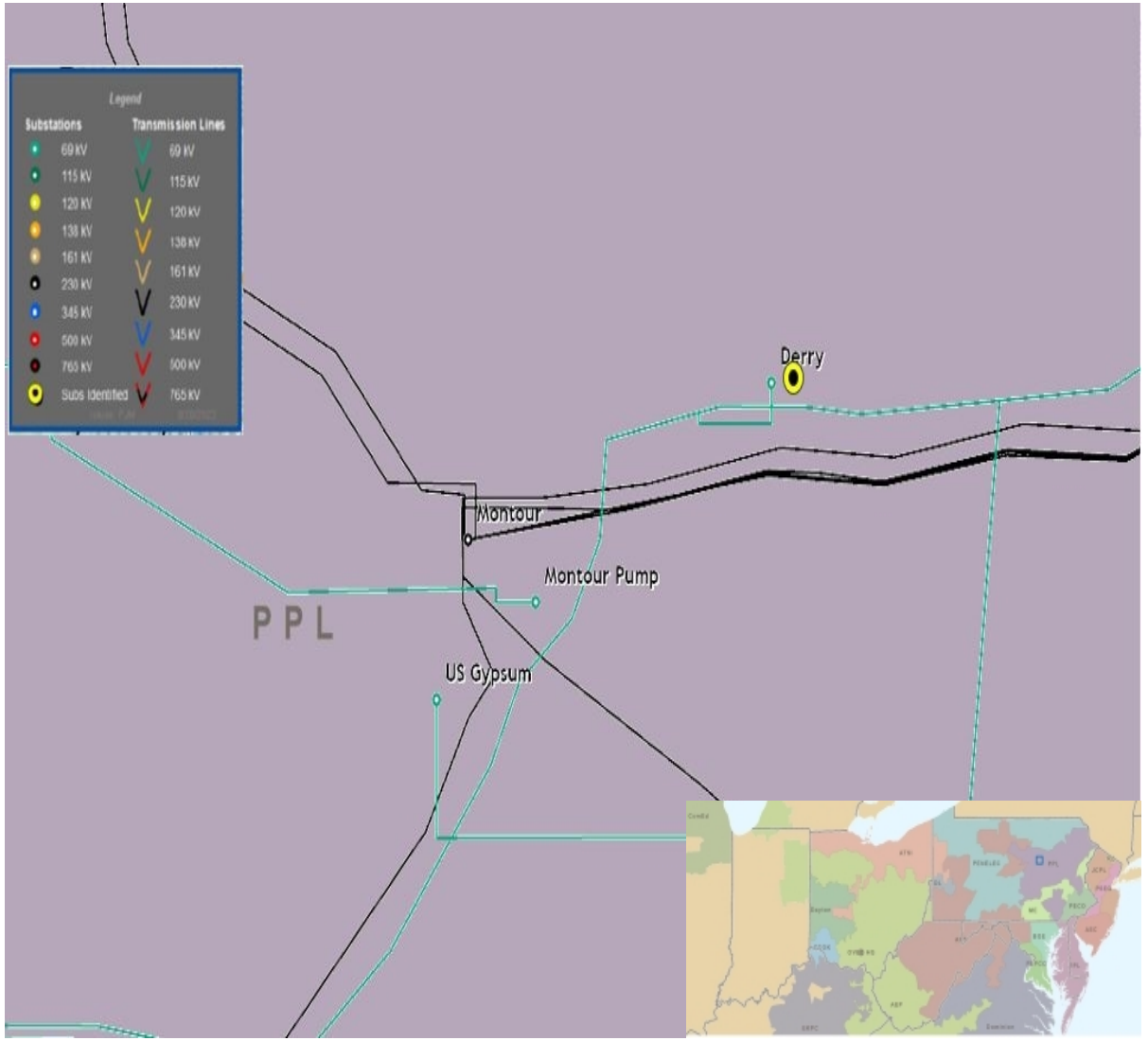
Solutions

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 Derry, PA

Need Number: PPL-2025-0020
Process Stage: Solution Meeting SRRTEP-MA - 12/11/2025
Previously Presented: Need Meeting 09/18/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

Problem Statement:
PPL Distribution has submitted a request to relocate an existing 69-12kV substation from Derry Township, PA to Bloomsburg, PA. The existing station is currently in a high-risk flood plain.

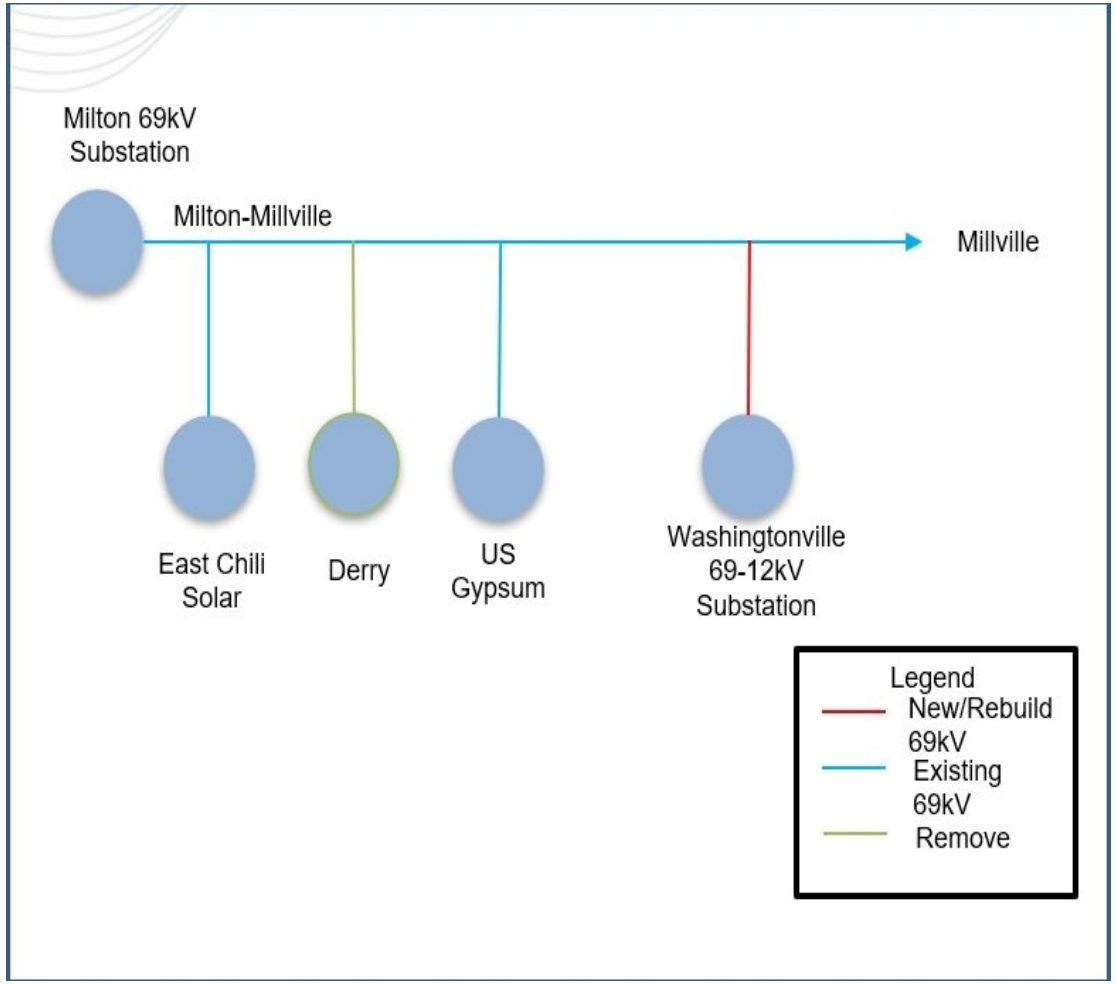


PPL Transmission Zone: Supplemental Derry, PA

Need number(s): PPL-2025-0020
Process Stage: Solution Meeting SRRTEP-MA - 12/11/2025
Proposed Solution:
Washingtonville 69kV Tap: Extend a new circuit 69kV tap from the existing Milton-Muncy 69kV line to interconnect the new Washingtonville 69-12kV. Build 0.1 miles of new 69kV single circuit line using 556 ACSR conductor. . Estimated Cost: $1.25 M

Transmission Cost Estimate: $1.25 M
Alternatives Considered:
N/A

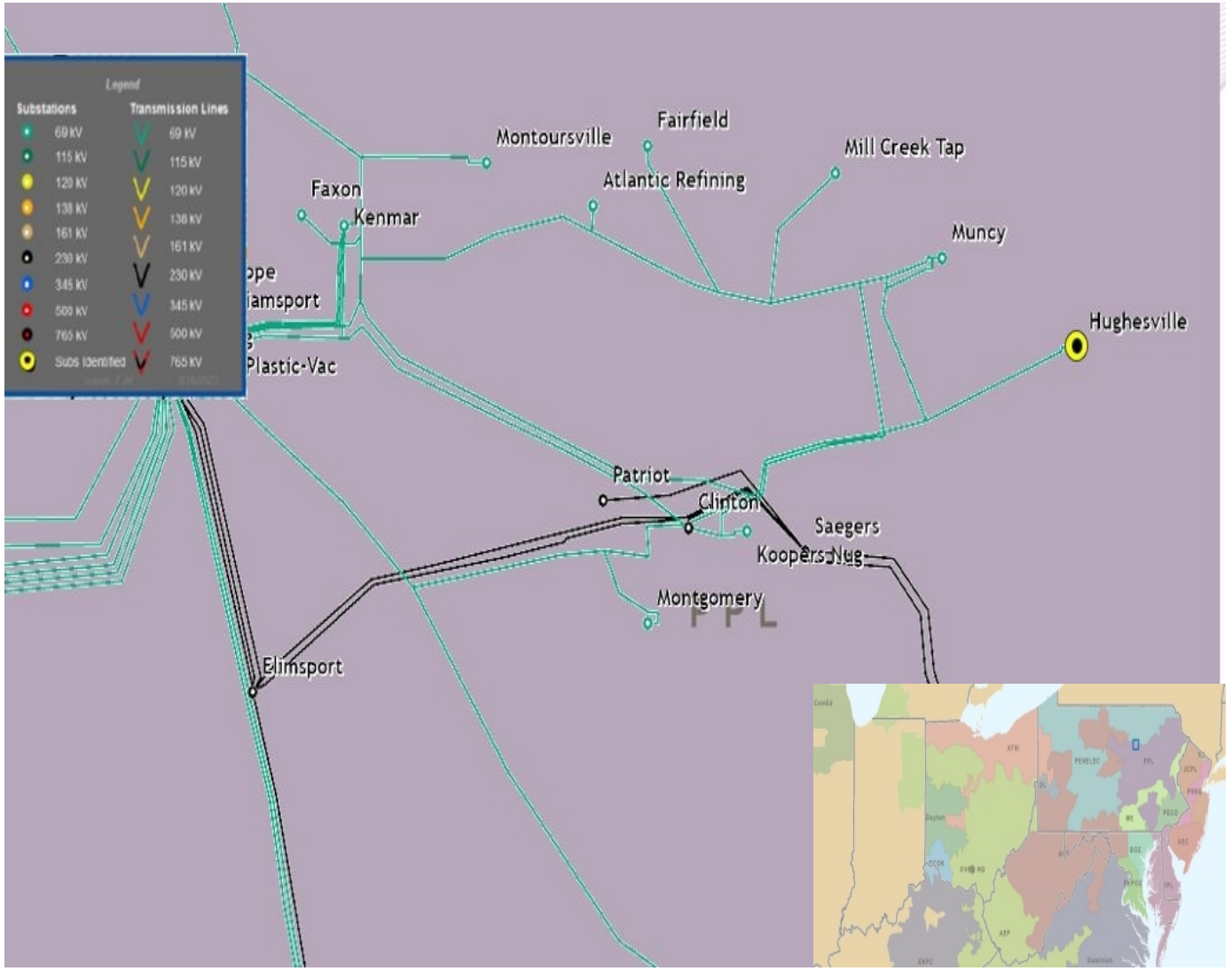
Projected In-Service: 05/30/2028
Project Status: Conceptual



PPL Transmission Zone: Supplemental Hughesville, PA

Need Number: PPL-2025-0021
Process Stage: Solution Meeting SRRTEP-MA - 12/11/2025
Previously Presented: Need Meeting 09/18/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

Problem Statement:
PPL Distribution has submitted a request for a second 69kV feed at Hughesville Substation to increase reliability.

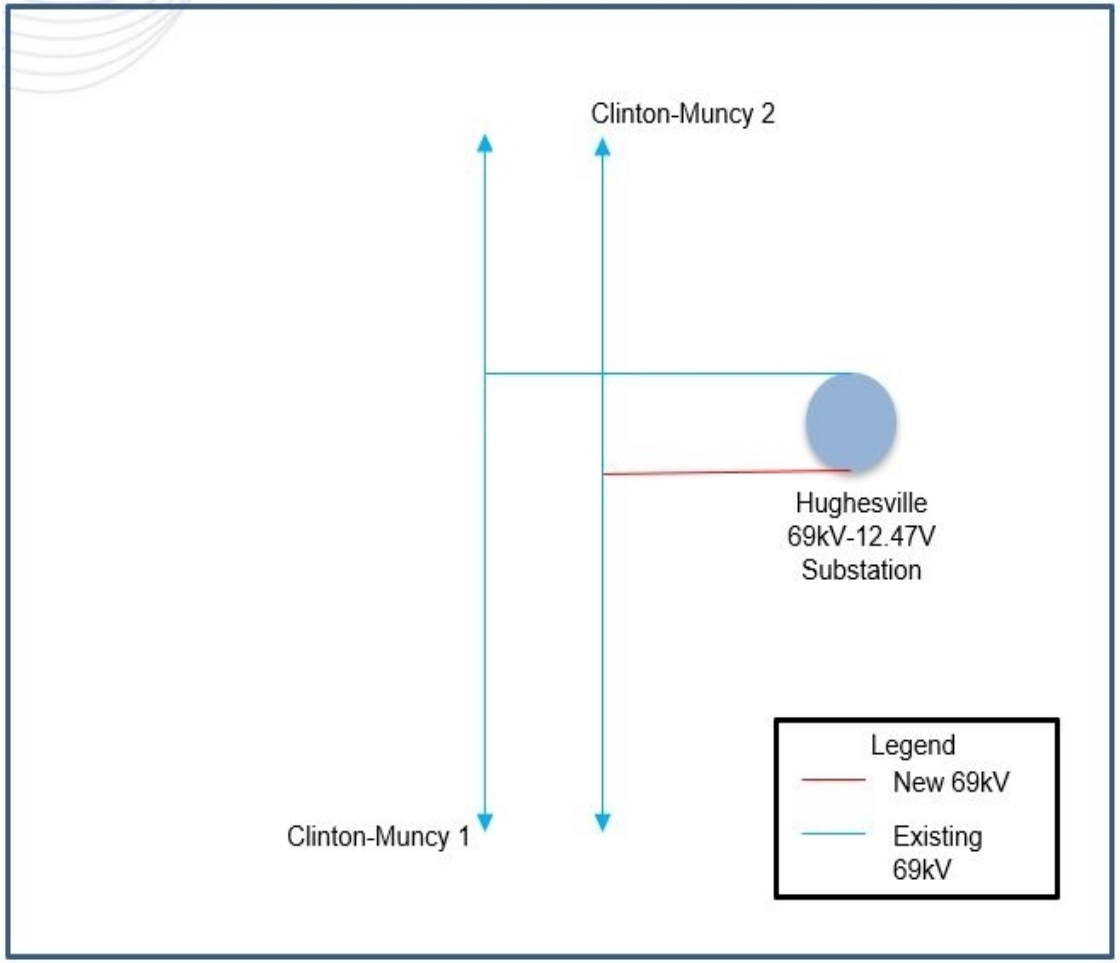


PPL Transmission Zone: Supplemental Hughesville, PA

Need number(s): PPL-2025-0021
Process Stage: Solution Meeting SRRTEP-MA - 12/11/2025
Proposed Solution:
Hughesville 69kV Tap: Extend a new circuit 69kV tap from the existing Clinton-Muncy 2 69kV line to independently interconnect the Hughesville Transformer 2. Customer substation. Build 3.1 miles of new 69kV single circuit line using 556 ACSR conductor..
Estimated Cost:

Transmission Cost Estimate:
Alternatives Considered:
N/A

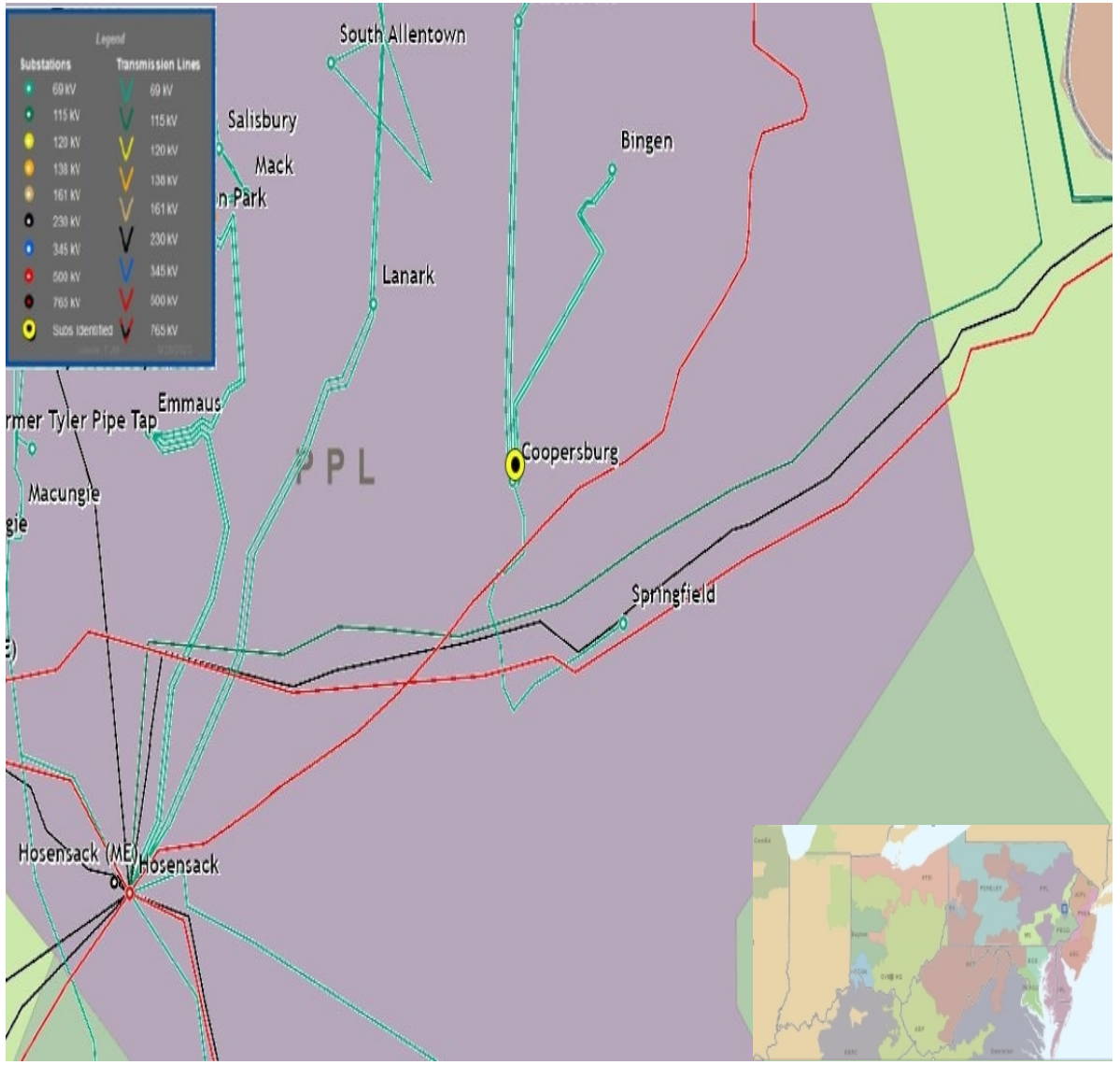
Projected In-Service: 01/30/2028
Project Status: Conceptual



PPL Transmission Zone: Supplemental Coopersburg, PA

Need Number: PPL-2025-0022
Process Stage: Solution Meeting SRRTEP-MA - 12/11/2025
Previously Presented: Need Meeting 09/18/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

Problem Statement:
PPL Distribution has submitted a request to relocate an existing 69-12kV substation from Coopersburg, PA to Center Valley, PA. The existing station is currently in a high-risk flood plain.

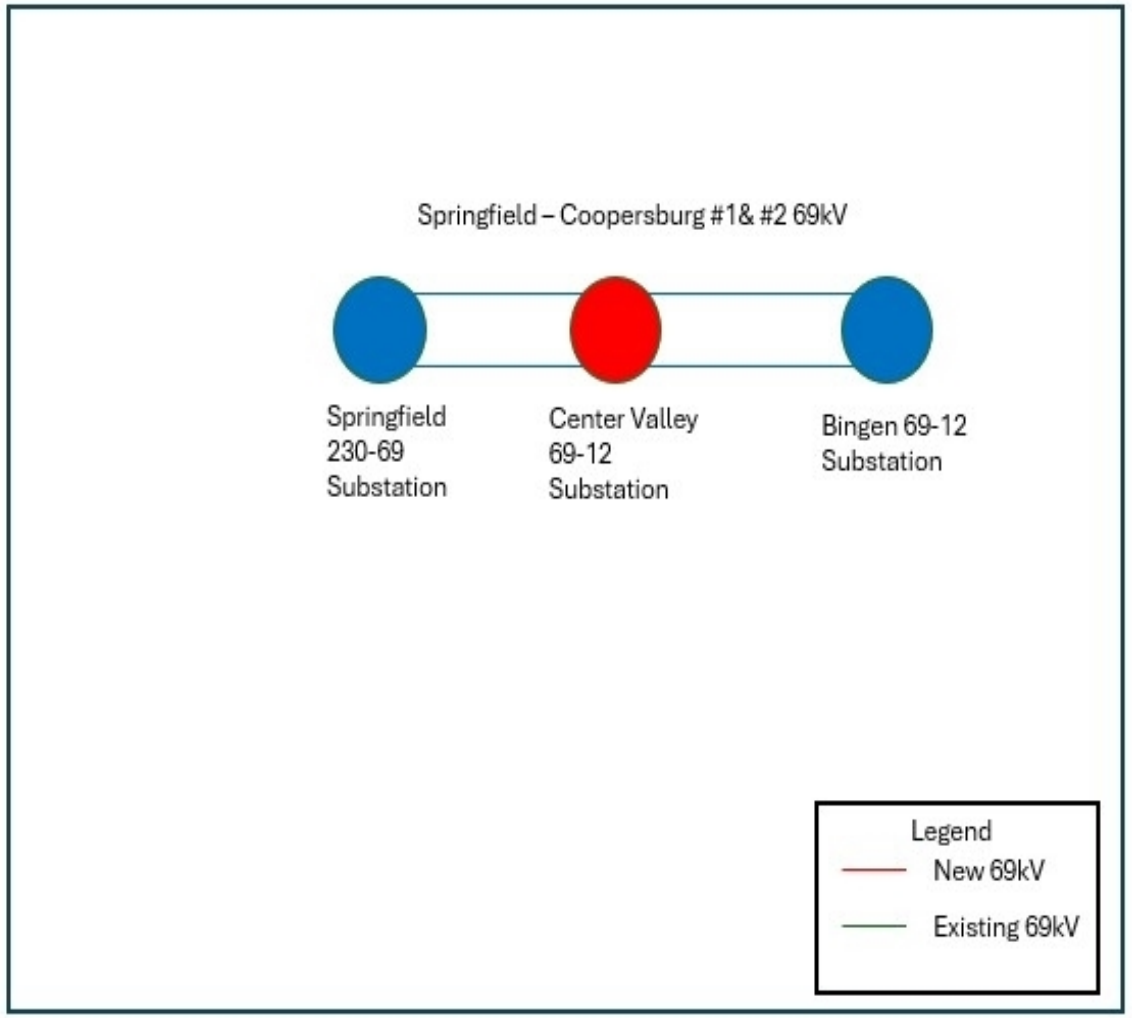


PPL Transmission Zone: Supplemental Coopersburg, PA

Need number(s): PPL-2025-0022
Process Stage: Solution Meeting
SRRTEP-MA - 12/11/2025
Proposed Solution:
Center Valley Tap 69kV: Tap existing 69kV line to feed new 69-12kV Substation. Estimated Cost: $1.85 M

Transmission Cost Estimate: $1.85 M
Alternatives Considered:
N/A

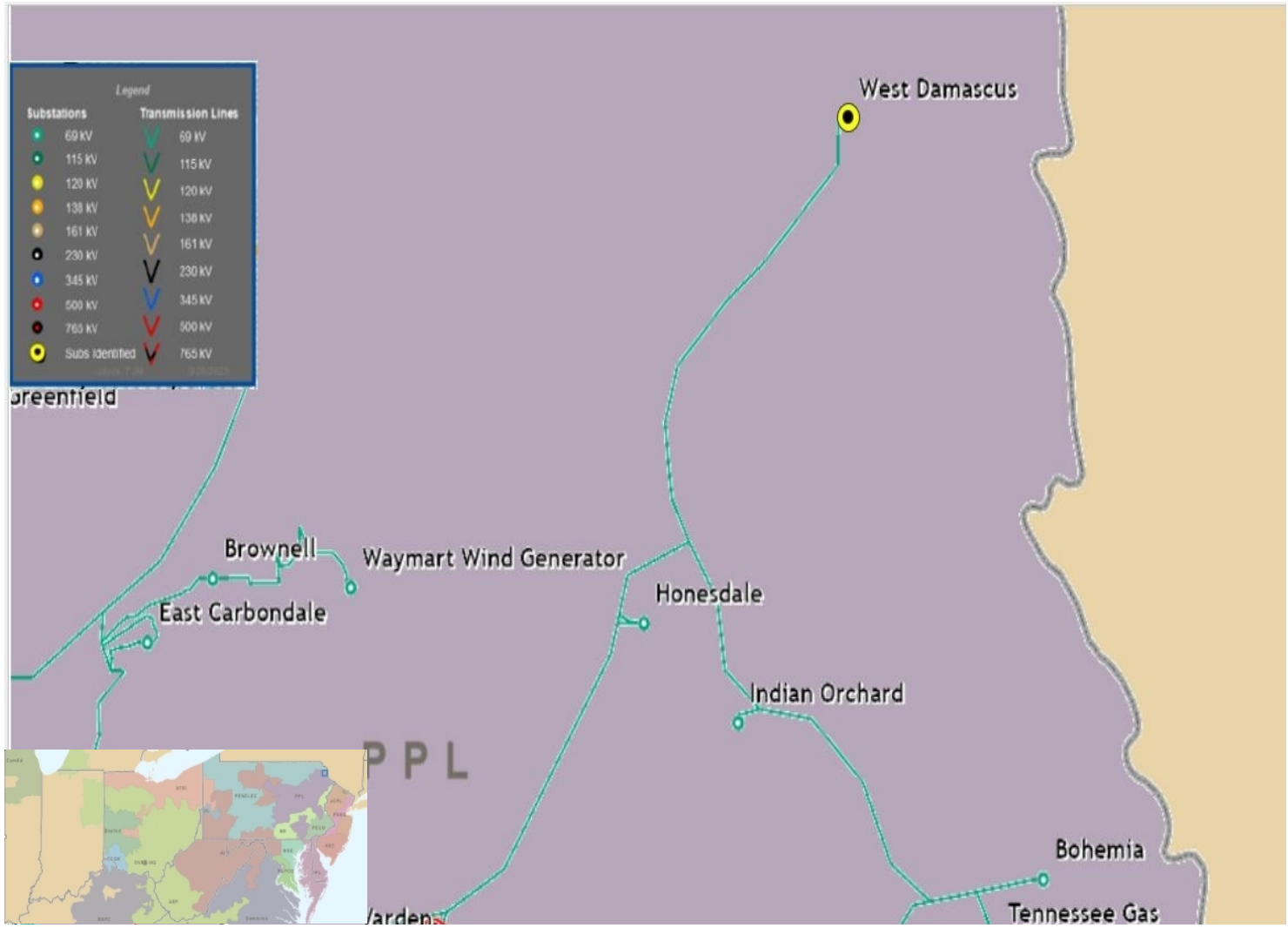
Projected In-Service: 11/30/2027
Project Status: Conceptual



PPL Transmission Zone: Supplemental
West Damascus, PA

Need Number: PPL-2025-0025
Process Stage: Need Meeting 10/16/2025
Project Driver: Customer Service
Specific Assumption References: PPL 2025 Annual Assumptions

Problem Statement:
PPL Distribution has submitted a request to connect an on-site spare transformer with existing transmission line at the West Damascus Station located in Damascus Township, PA.

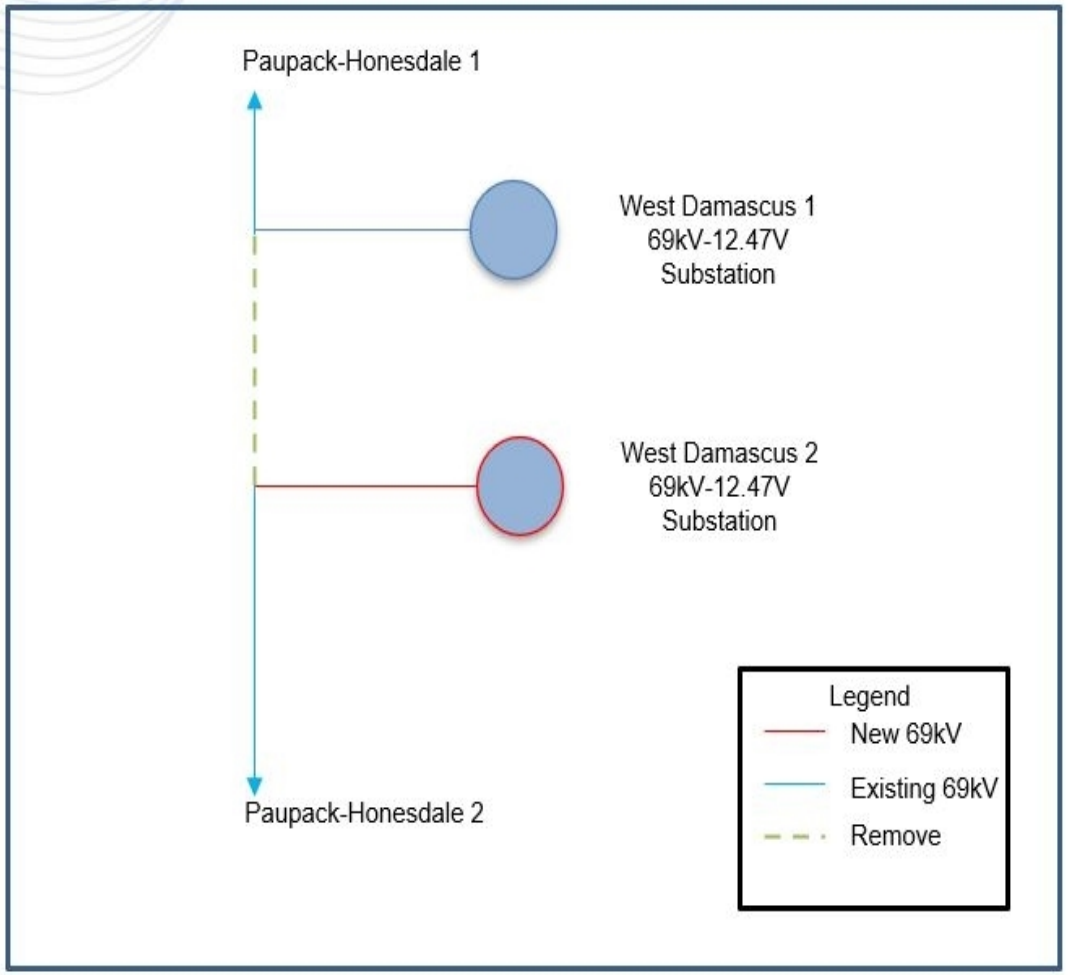


PPL Transmission Zone: Supplemental
West Damascus, PA

Need number(s): PPL-2025-0025
Process Stage: Solution Meeting
SRRTEP-MA - 12/11/2025
Proposed Solution:
West Damascus Tap 2: Extend new circuit from Tap Pole into West Damascus Substation transformer 2..
Estimated Cost: $0.5 M

Transmission Cost Estimate: $0.5 M
Alternatives Considered:
N/A

Projected In-Service: 05/26/2027
Project Status: Engineering



Appendix

High level M-3 Meeting Schedule

Assumptions

Activity	Timing
Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stakeholder comments	10 days after Assumptions Meeting

Needs

Activity	Timing
TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
Stakeholder comments	10 days after Needs Meeting

Solutions

Activity	Timing
TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
Stakeholder comments	10 days after Solutions Meeting

Submission of Supplemental Projects & Local Plan

Activity	Timing
Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
Post selected solution(s)	Following completion of DNH analysis
Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

12/xx/2025 – V1 – Original version posted to pjm.com