

Subregional RTEP Committee – Mid-Atlantic PPL Supplemental Projects

August 13, 2021

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

Need Number: PPL-2021-0001

Process Stage: Solutions Meeting 8/13/2021

Previously Presented: Need Meeting 05/20/2021

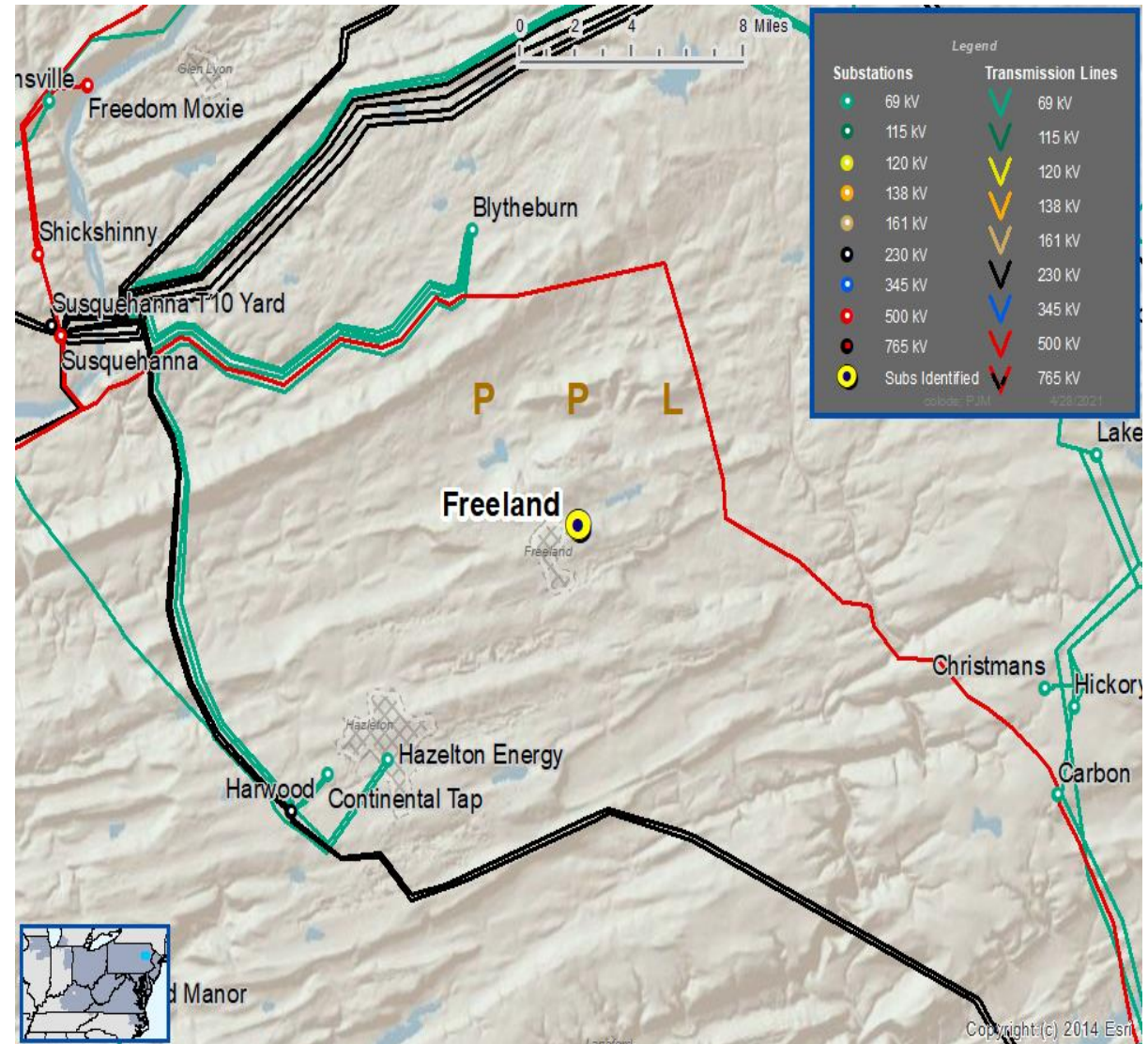
Supplemental Project Driver: Customer Service

Problem Statement:

PPL Distribution has submitted a request for a second 69kV source to the Freeland 69/12kV substation due to load growth in the area.

Specific Assumption References:

[PPL 2021 Annual Assumptions](#)



Need Number: PPL-2021-0001

Process Stage: Solutions Meeting 8/13/2021

Proposed Solution:

- Extend a second circuit to Freeland substation from the HARW-EHAZ #1 69kV line (0.75 Miles)

Alternatives Considered:

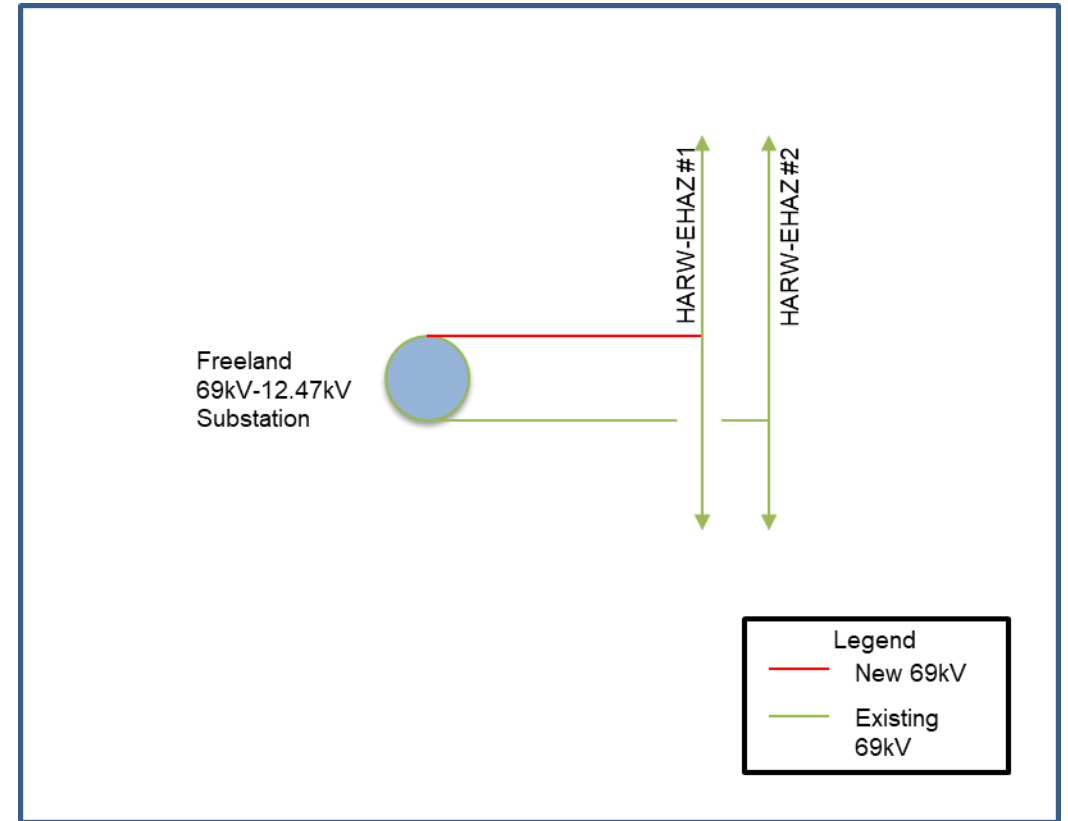
1. No feasible alternatives

Estimated Project Cost: \$0.6M

Projected In-Service: 10/30/2024

Project Status: Conceptual

Model: 2024



Need Number: PPL-2021-0002

Process Stage: Solutions Meeting 8/13/2021

Previously Presented: Need Meeting 05/20/2021

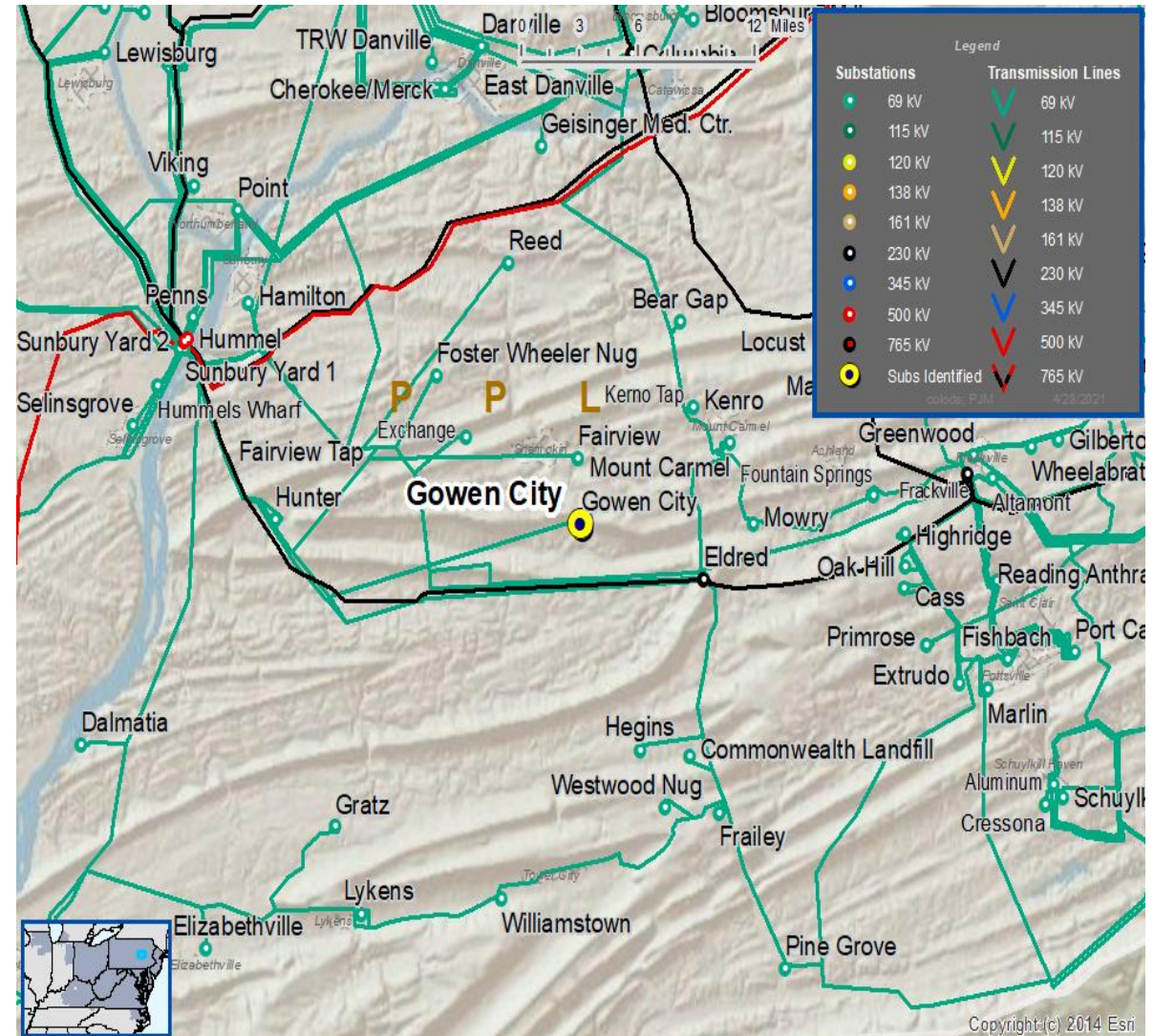
Supplemental Project Driver: Customer Service

Problem Statement:

PPL Distribution has submitted a request for a second 69kV source to the Gowen City 69/12kV substation due to load growth in the area.

Specific Assumption References:

[PPL 2021 Annual Assumptions](#)



Need Number: PPL-2021-0002

Process Stage: Solutions Meeting 8/13/2021

Proposed Solution:

- Extend a second circuit to Gowen City substation from the SUNB-ELDR #2 69kV line (0.05 Miles)

Alternatives Considered:

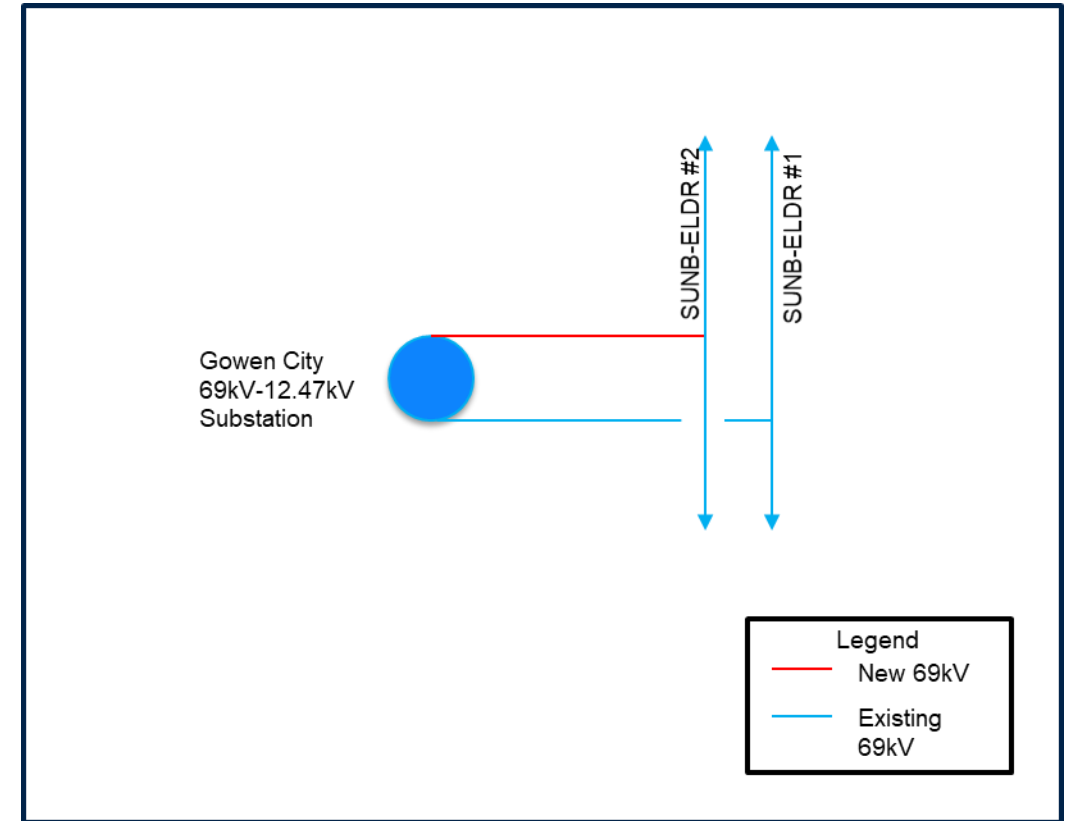
1. No feasible alternatives

Estimated Project Cost: \$0.5M

Projected In-Service: 10/30/2024

Project Status: Conceptual

Model: 2024



Need Number: PPL-2021-0004

Process Stage: Solutions Meeting 8/13/2021

Previously Presented: Need Meeting 6/15/2021

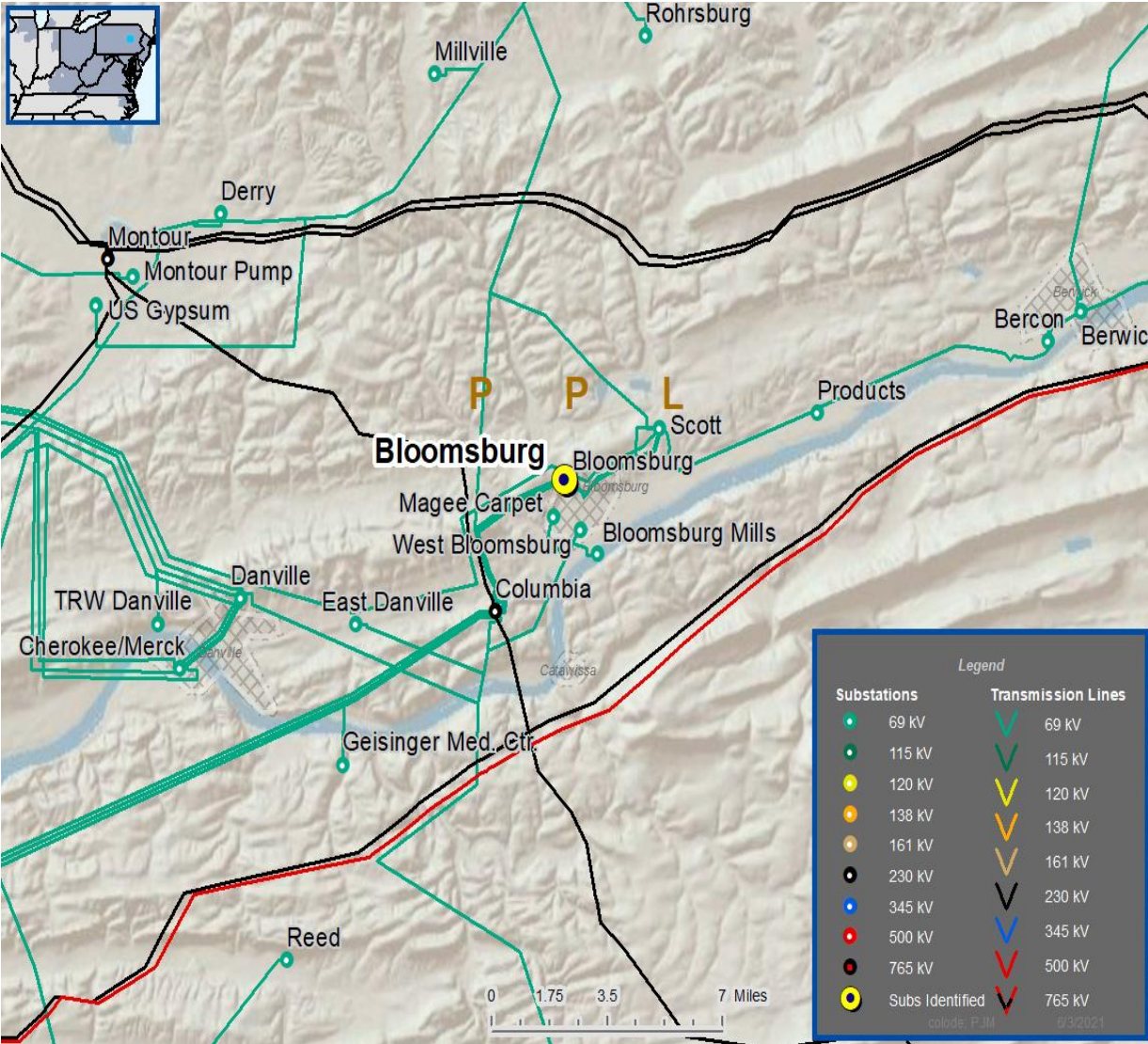
Supplemental Project Driver: Equipment Material Condition, Performance and Risk

Problem Statement:

PPL EU plans to retire the Bloomsburg 69/12kV Substation since the substation is prone to flooding. The Columbia-Scott 69kV CAP Bank is located at the Bloomsburg 69/12kV substation.

Specific Assumption References:

[PPL 2021 Annual Assumptions](#)



Need Number: PPL-2021-0004

Process Stage: Solutions Meeting 8/13/2021

Proposed Solution:

- Install one (1) 19.8 MVAR switched cap bank on the Columbia-Scott 69 kV line near the Scott 69/12kV substation

Alternatives Considered:

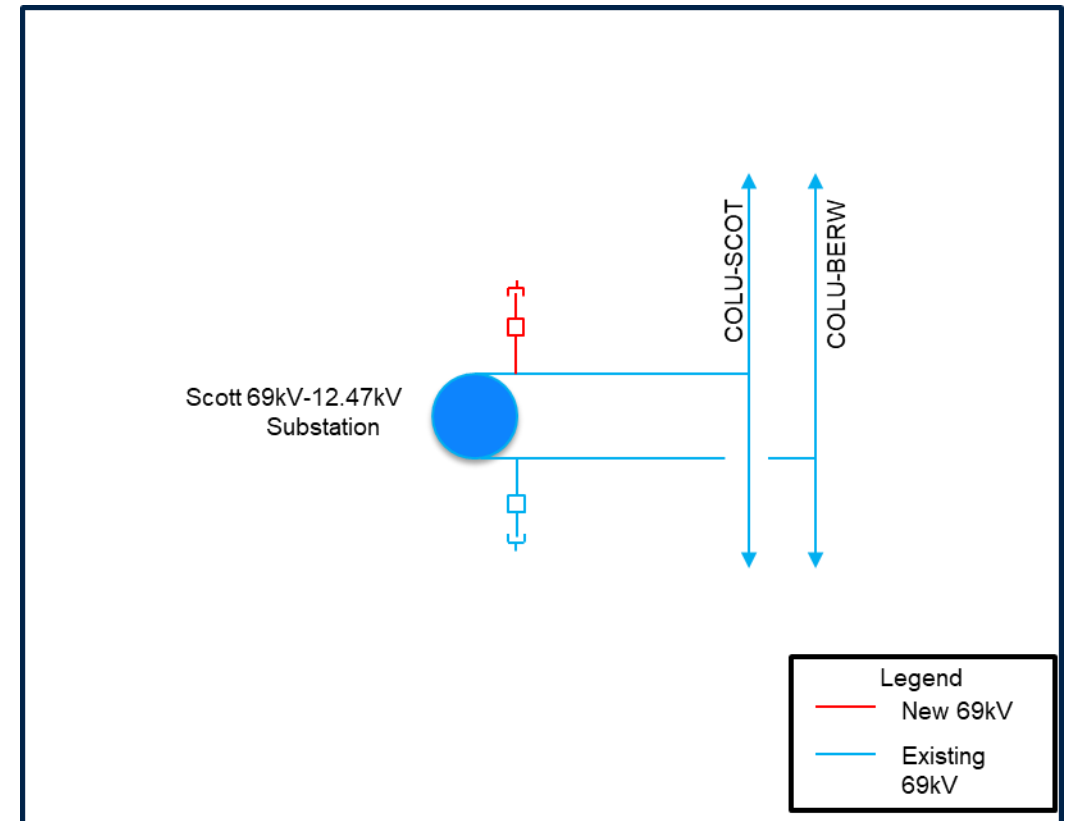
1. Retire existing cap bank and do not replace.
The cap bank is required for voltage support in restoration for a double circuit failure of the COLU-BERW and COLU-SCOT 69kV lines.
Voltage of less than 0.893 per unit may result.

Estimated Project Cost: \$1.3M

Projected In-Service: 11/30/2022

Project Status: Conceptual

Model: 2023



Need Number: PPL-2021-0005

Process Stage: Solutions Meeting 8/13/2021

Previously Presented: Need Meeting 7/12/2021

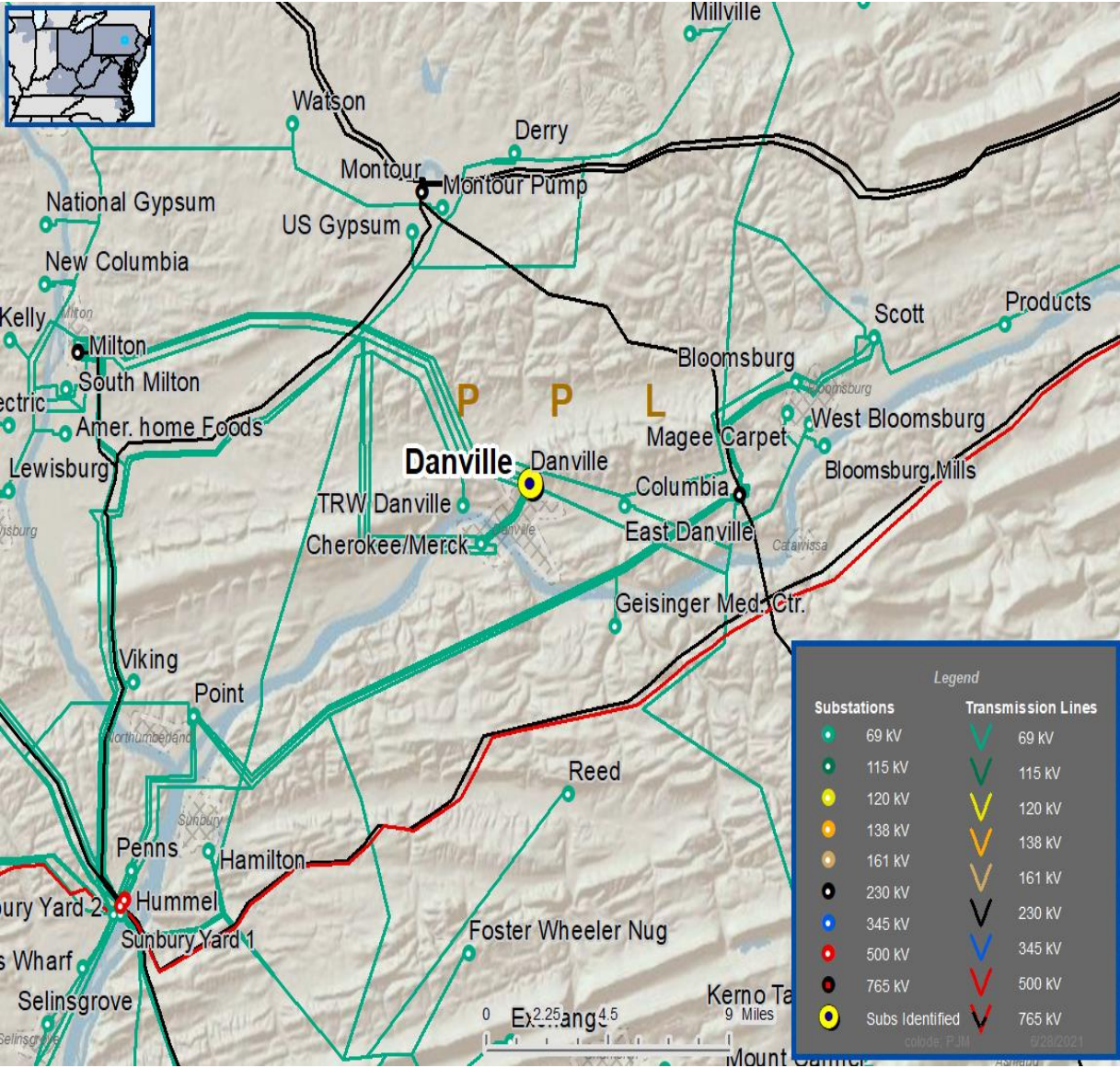
Supplemental Project Driver: Customer Service

Problem Statement:

- A new customer has submitted a request to have their facility served from a 69kV transmission line in Danville, PA. The load is approximately 9 MVA.

Specific Assumption References:

[PPL 2021 Annual Assumptions](#)



Need Number: PPL-2021-0005

Process Stage: Solutions Meeting 8/13/2021

Proposed Solution:

- Extend a new double circuit 69kV tap from the existing Danville – Milton and Columbia – Danville #1 69kV lines to interconnect a new customer 69-12.47kV substation. Build 0.2 miles of new 69kV double circuit line using 556 ACSR conductor.

Alternatives Considered:

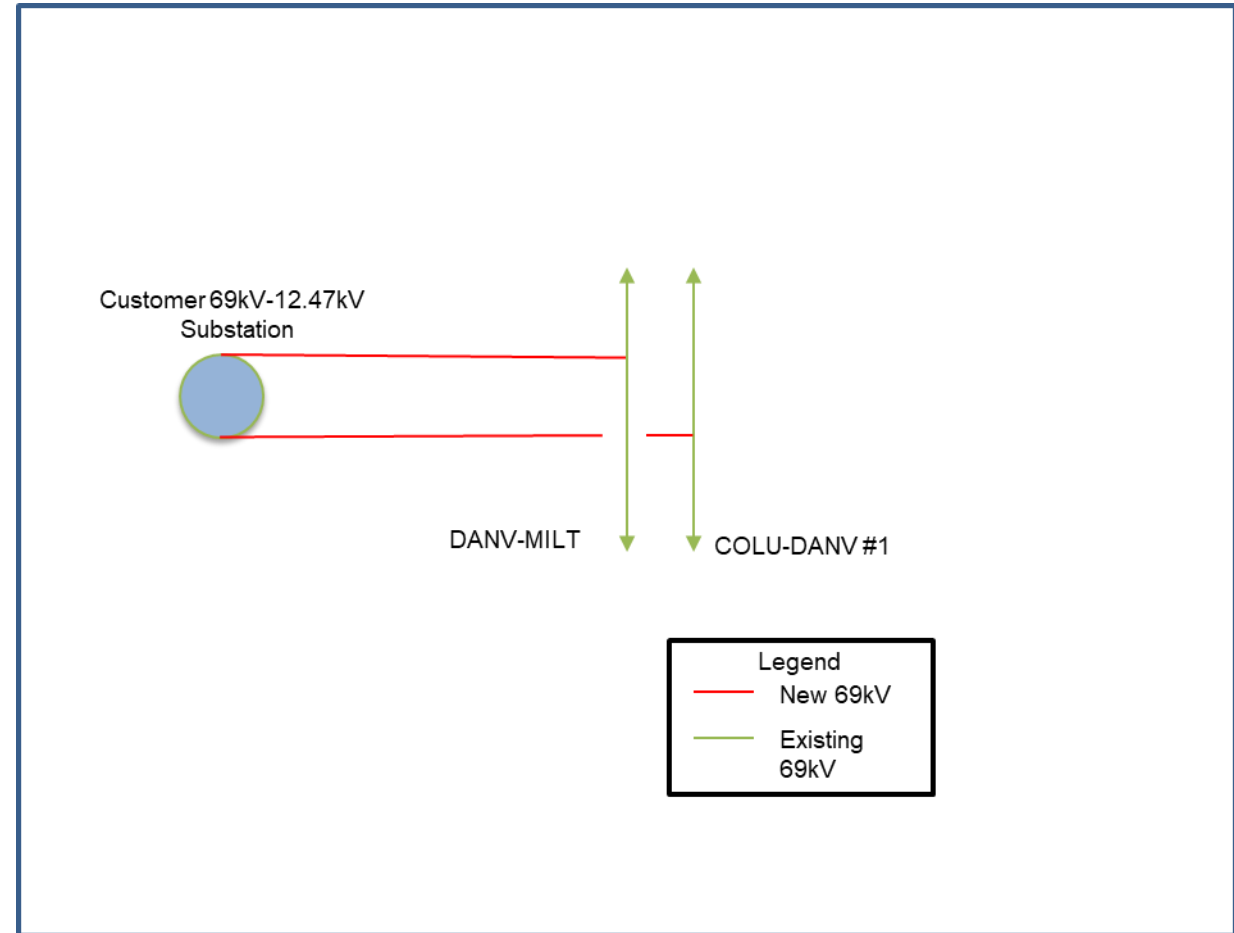
1. No feasible alternatives

Estimated Project Cost: \$1.3M

Projected In-Service: 9/1/2021

Project Status: Conceptual

Model: 2021



Questions?



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

8/3/2020 – V1 – Original version posted to pjm.com