

SRRTEP COMMITTEE: MID-ATLANTIC PSE&G SUPPLEMENTAL PROJECTS

September 14, 2021

Solution

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



PSE&G Transmission Zone M-3 Process Somerville Area

Need Number: PSEG-2021-0005

Process Stage: Solutions Meeting 9/14/2021

Previously Presented: Need Meeting 8/13/2021

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

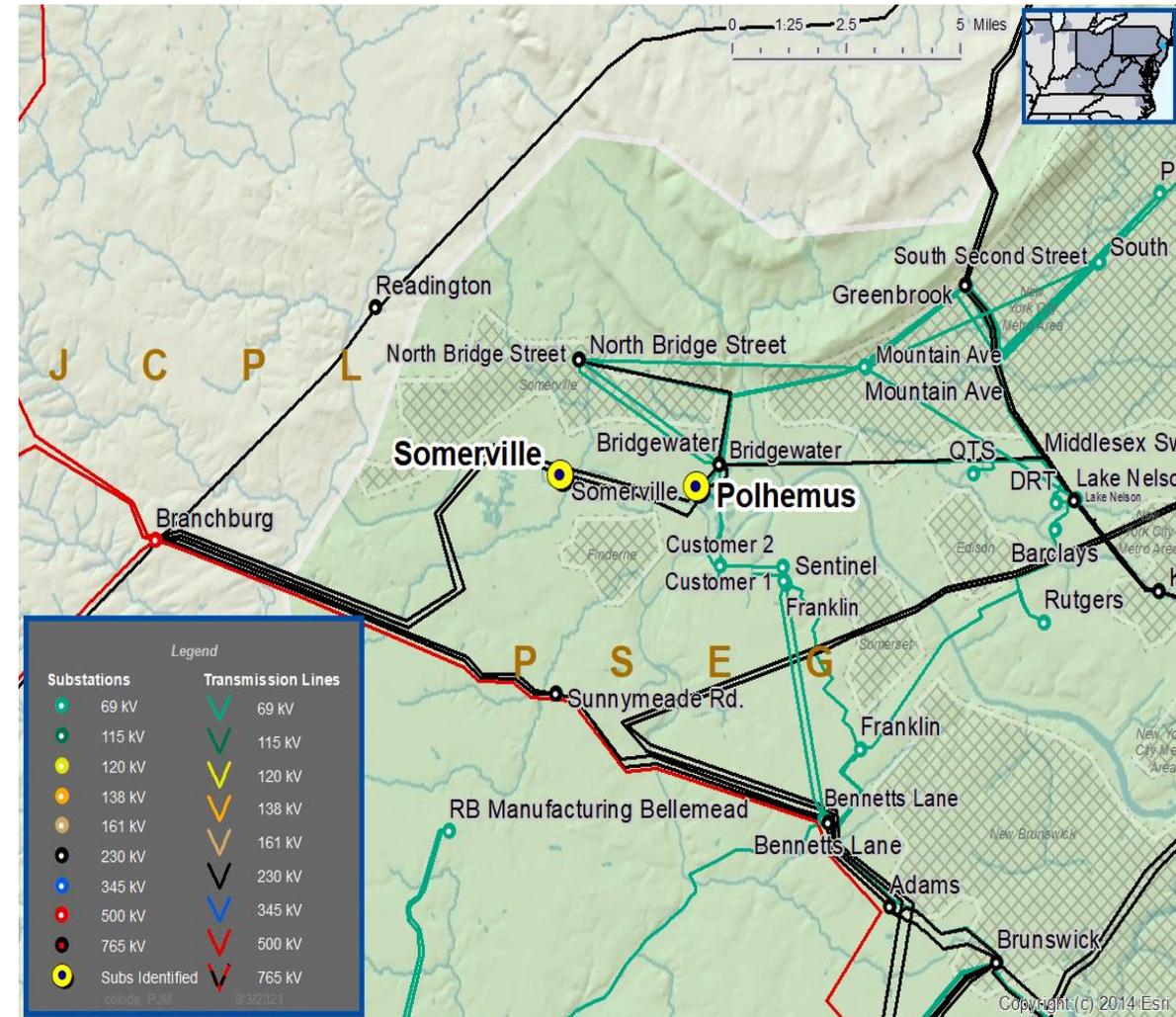
- [PSE&G 2021 Annual Assumptions](#)
- Localized Load Growth & Contingency Overloads

Problem Statement:

Somerville and Polhemus are stations in the Somerville area at capacity of 60MVA.

- Somerville serves roughly 14,500 customers with a peak load of 62.1 MVA in 2020.
- Polhemus serves roughly 11,000 customers with a peak load of 69.1 MVA in 2020.

Model: 2020 Series 2025 Summer RTEP 50/50



Need Number: PSEG-2021-0005

Process Stage: Solutions Meeting 09/14/2021

Proposed Solution:

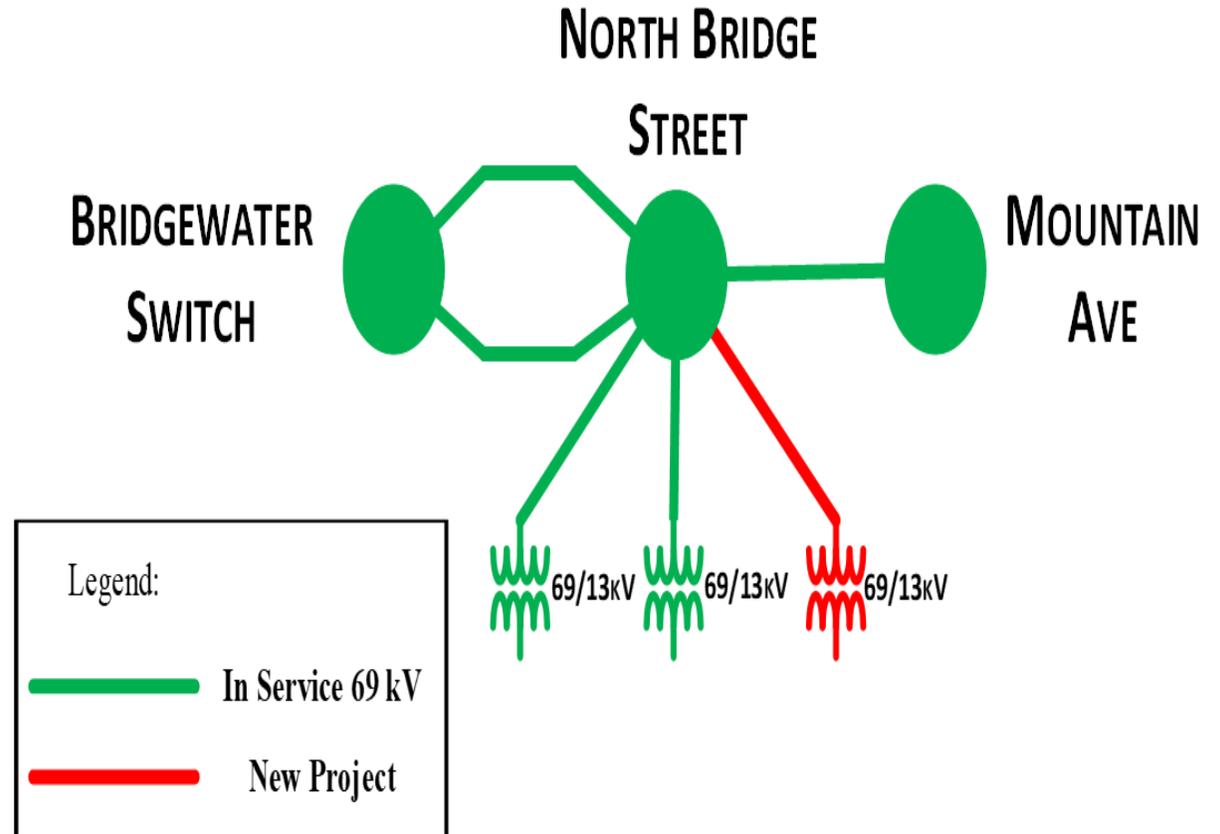
- Install 3rd 69-13kV transformer and associated equipment to increase capacity at North Bridge Street.
- Transfer load from heavily loaded Somerville and Polhemus stations.
- **Estimated Cost: \$8.0M**

Alternatives Considered:

1. Construct new 69-13kV substation at existing Raritan Valley substation property.
 - Construct a 69kV network in the Somerville area by cutting and looping two existing lines into the new station.
 - Transfer load from heavily loaded Somerville and Polhemus stations.
 - **Estimated Cost: \$69.3M**
2. Expand existing Somerville 230-13kV substation.
 - Construct second half (2H) of the Somerville 230-13kV station.
 - Cut and loop existing 230kV line.
 - Transfer load from heavily loaded Somerville and Polhemus stations.
 - **Estimated Cost: \$35.1M**

Projected In-Service: 05/2024

Project Status: Conceptual



Cancelation of Need

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: PSEG-2021-0003

Process Stage: Need Withdrawal 09/14/2021

Previously Presented: Need Meeting 04/14/2021

Supplemental Project Driver:

- Customer Service

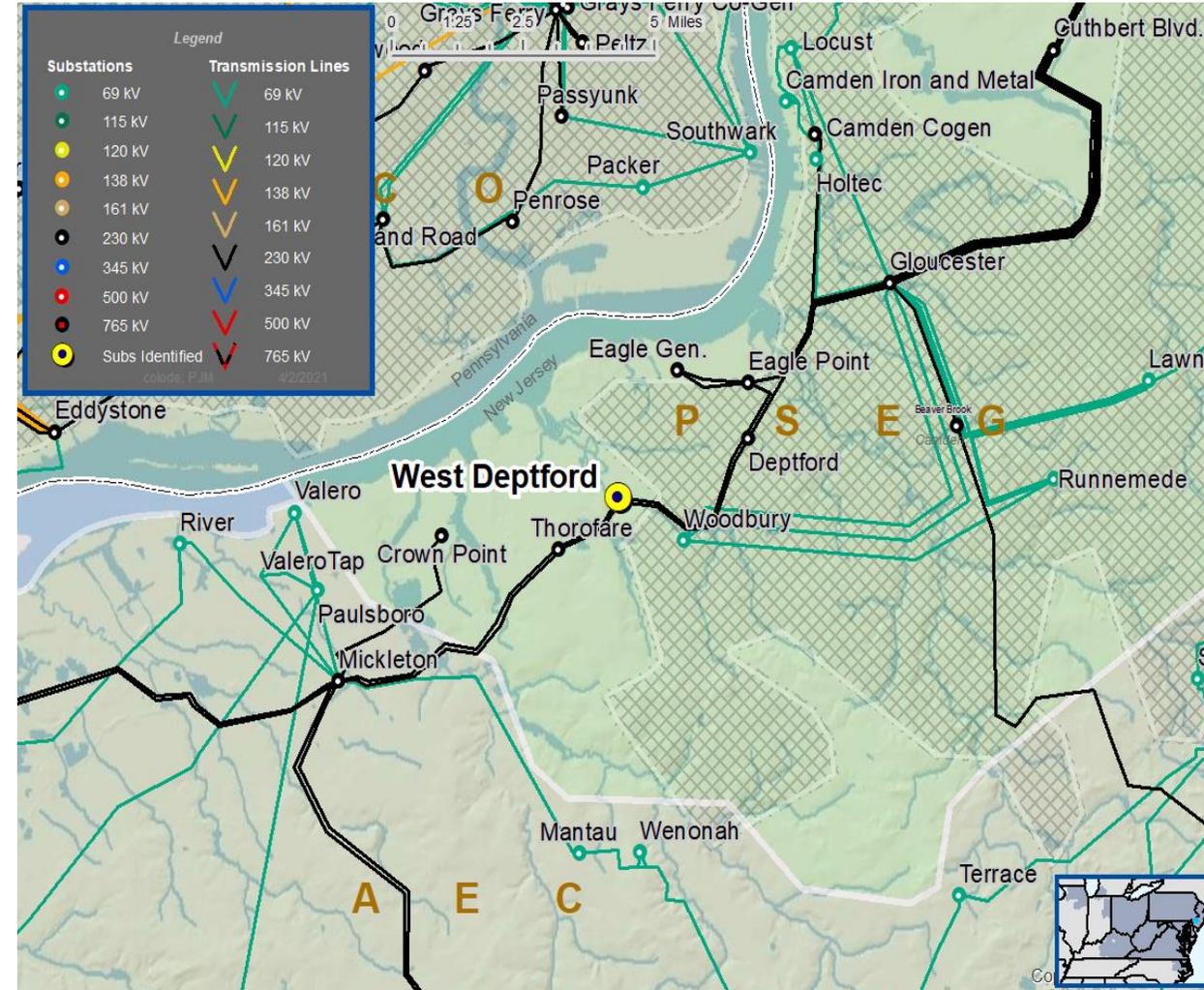
Specific Assumption Reference:

- [PSE&G 2021 Annual Assumptions](#)
- Localized Load Growth & Contingency Overloads

Problem Statement:

- ~~A large customer has requested service for nearly 13MW of load to be in service by July of 2023.~~
- Customer has decreased load request, and a transmission solution is no longer needed.

Model: 2020 Series 2025 Summer RTEP 50/50



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

9/2/2021 – V1 – Original version posted to pjm.com