

SRRTEP COMMITTEE: MID-ATLANTIC PSE&G SUPPLEMENTAL PROJECTS

April 14, 2021

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: PSEG-2021-0002

Process Stage: Needs Meeting 04/14/2021

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

[PSE&G 2021 Annual Assumptions](#)

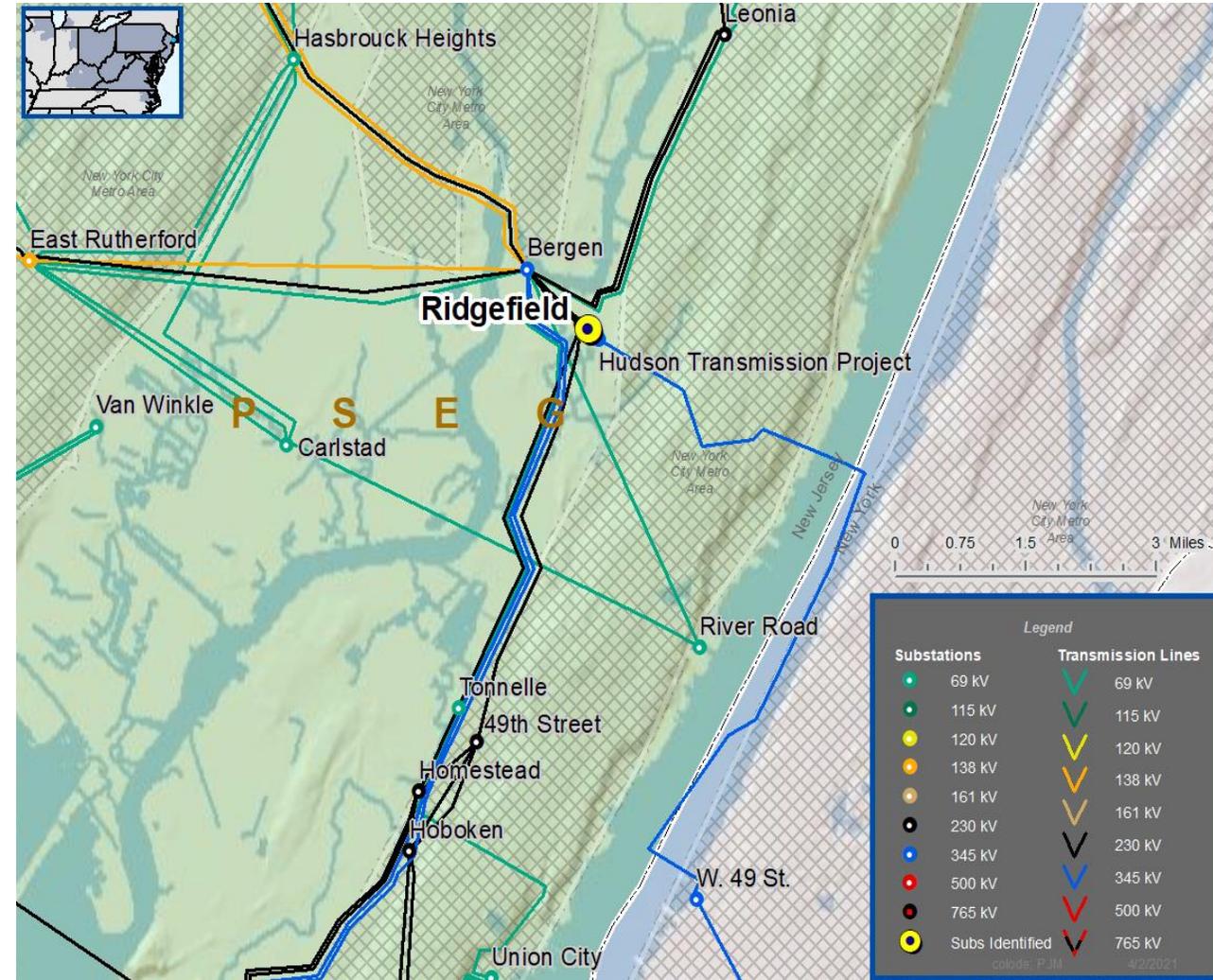
- Localized Load Growth & Contingency Overloads

Problem Statement:

Ridgefield 1H is a station in Bergen County operating above its capacity of 60 MVA.

- Ridgefield Substation 1H serves roughly 23,000 customers with a load of 66 MVA in 2020.

Model: 2020 Series 2025 Summer RTEP 50/50



Need Number: PSEG-2021-0003

Process Stage: Need Meeting 4/14/2021

Supplemental Project Driver:

- Customer Service

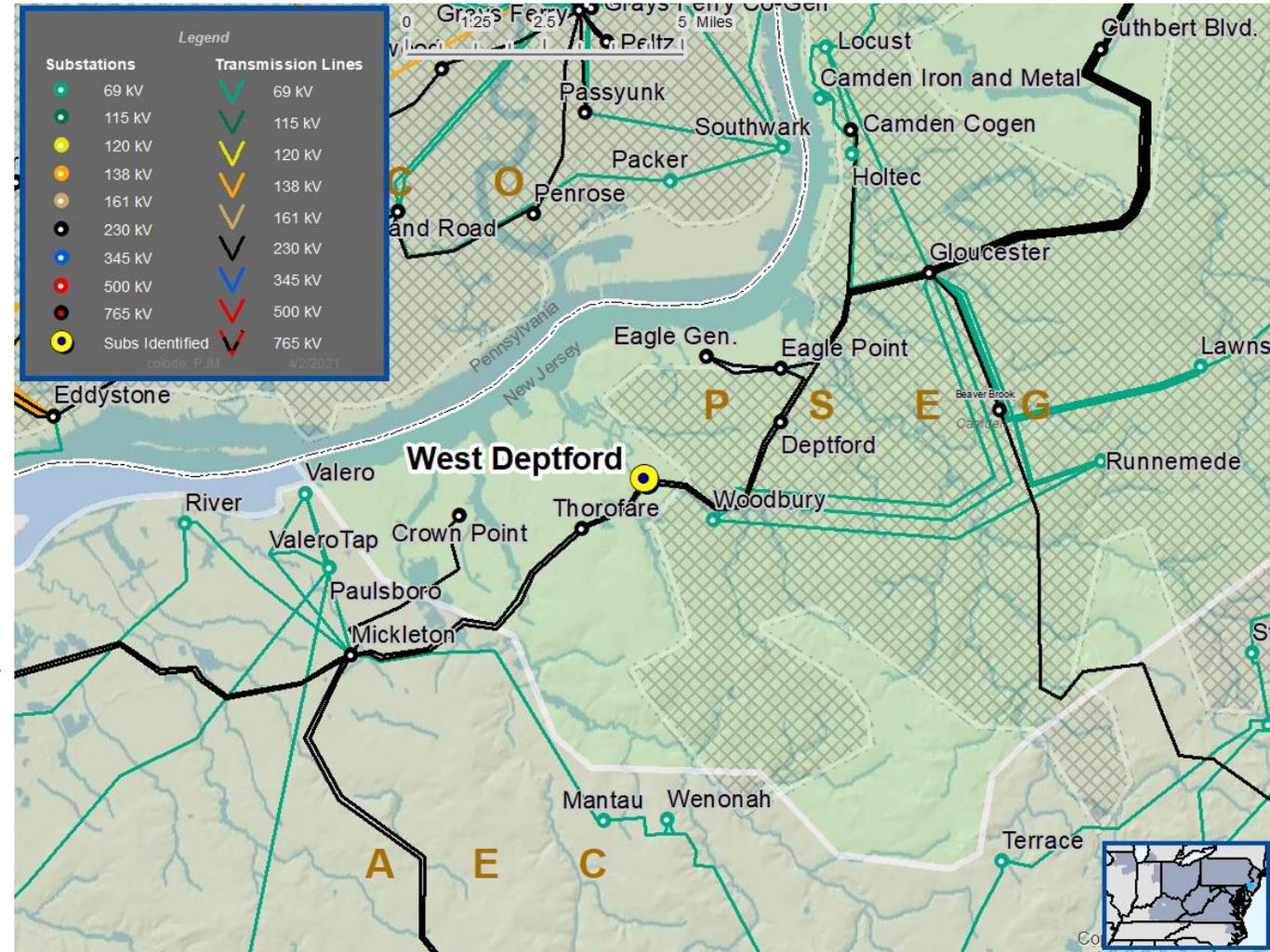
Specific Assumption Reference:
[PSE&G 2021 Annual Assumptions](#)

- 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.

Model: 2020 Series 2025 Summer RTEP 50/50



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: PSEG-2020-0011

Process Stage: Solutions Meeting 04/14/2021

Previously Presented: Need Meeting 11/18/2020

Supplemental Project Driver:

- Storm Hardening
- Equipment Material Condition, Performance and Risk

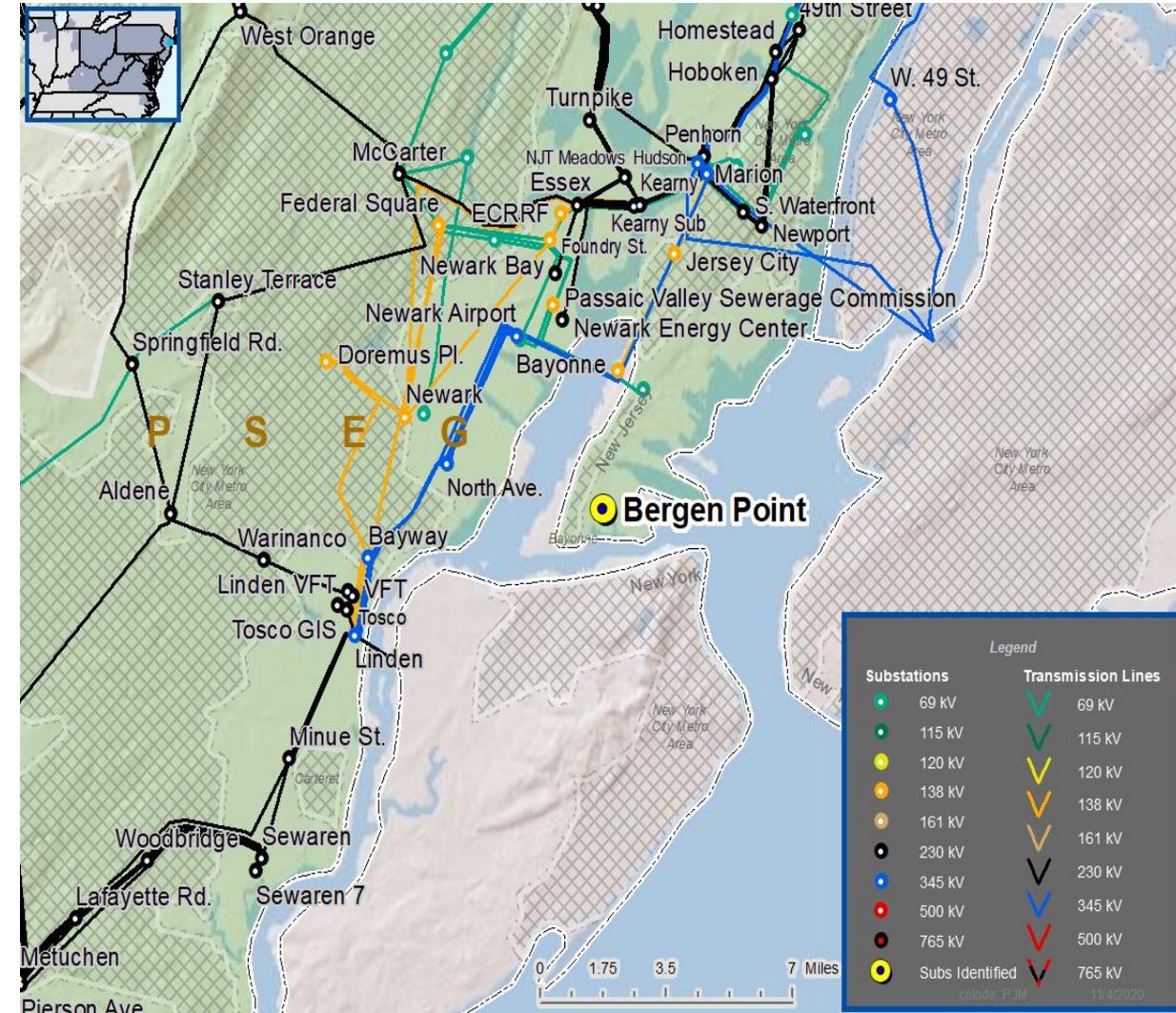
Specific Assumption Reference:

- [PSE&G 2019 Annual Assumptions](#)
- [August 2017 26kV to 69kV PSE&G Presentation](#)
- Equipment Reliability and Condition Assessment
- Asset Risk Model

Problem Statement:

- Constable Hook 26kV Station is at risk of flood in a major storm event. Equipment at Constable Hook station is currently below FEMA 100 year flood elevations.
- Bergen Point Substation is supplied by 26kV circuits with increasing performance problems.
 - Over the past decade, the 26kV supply circuits have seen 13 momentary and 26 extended outages, with total duration of 315 hours.
 - Station equipment at Bergen Point has been in service since 1929 and needs to be addressed.
 - Physical condition of the building has deteriorated.
 - Elizabeth serves roughly 11,3015 customers and 24.3 MVA of load.

Model: 2020 Series 2025 Summer RTEP 50/50



Need Number: PSEG-2020-0011

Process Stage: Solutions Meeting 04/14/2021

Proposed Solution:

- Construct a new Constable Hook 69/13kV substation in the Bergen Neck Area to feed Bergen Point load and provide for future load growth.
 - Eliminate 26kV and 4kV equipment at Bergen Point.
 - Construct 69KV ring bus Class H on new property with two (2) 69/13kV transformers and three 69kV lines.
 - Construct a primarily underground 69kV network between Greenville, Bayonne, Fairmount, and Constable Hook.
 - **Estimated Cost:** \$116M

Ancillary Benefits:

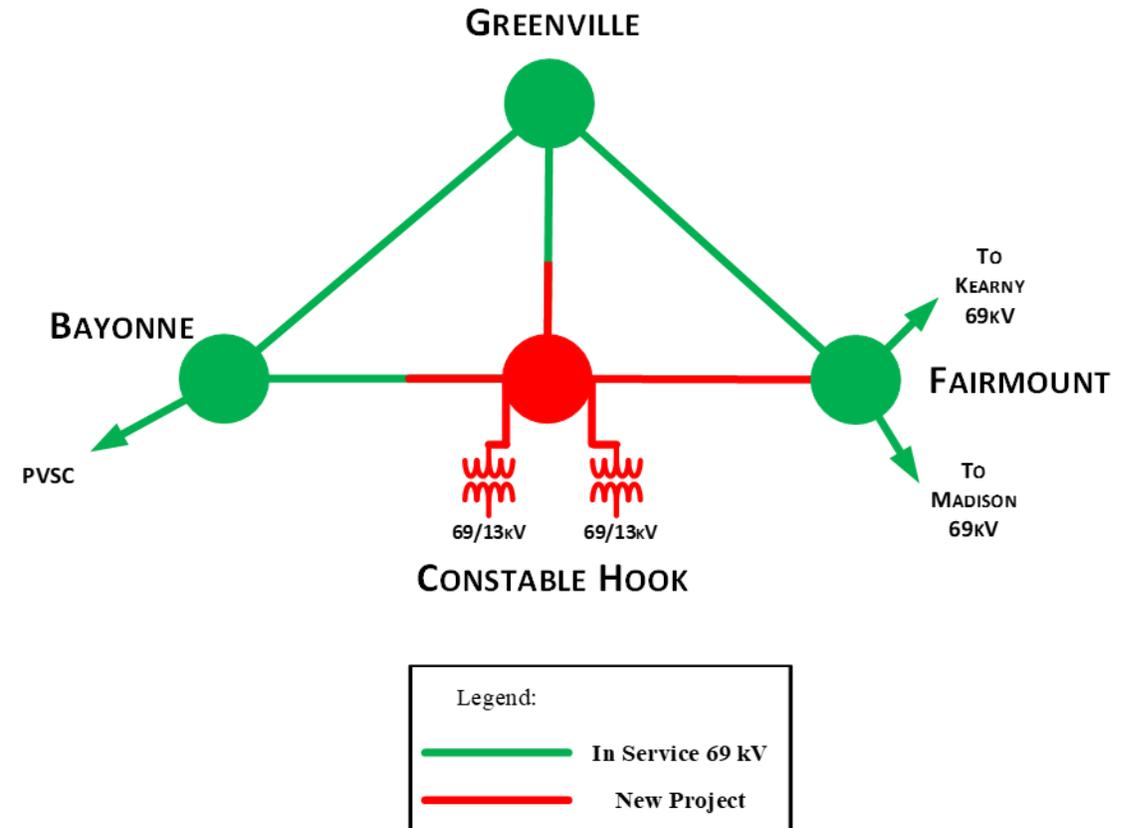
- Provides capacity increase for expected load growth in former industrial area and the MOT.

Alternatives Considered:

- No other viable properties were found to address identified stations and meet the future loads expected in the Bergen Neck area.
- Raise and rebuilding of existing 26kV infrastructure does not address the future loads expected in the Bergen Neck area.

Projected In-Service: 05/2026

Project Status: Conceptual



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

4/2/2021 – V1 – Original version posted to pjm.com

4/7/2021 – V2 – Slide #6 corrected the Need # and solution meeting date