SRRTEP COMMITTEE: MID-ATLANTIC PSE&G SUPPLEMENTAL PROJECTS

July 21, 2022

PSE&G Supplemental Project S2537 Cost Update

PSE&G Transmission Zone M-3 Process
Bergen Neck Area

Project Update 07/21/2022

Supplemental Project ID: s2537 (received in 2021)

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.
  - Bergen Point serves roughly 11,900 customers and 24.3 MVA of load.

Model: 2020 Series 2025 Summer RTEP 50/50

PSE&G Transmission Zone M-3 Process
Bergen Neck Area

Project Update 07/21/2022

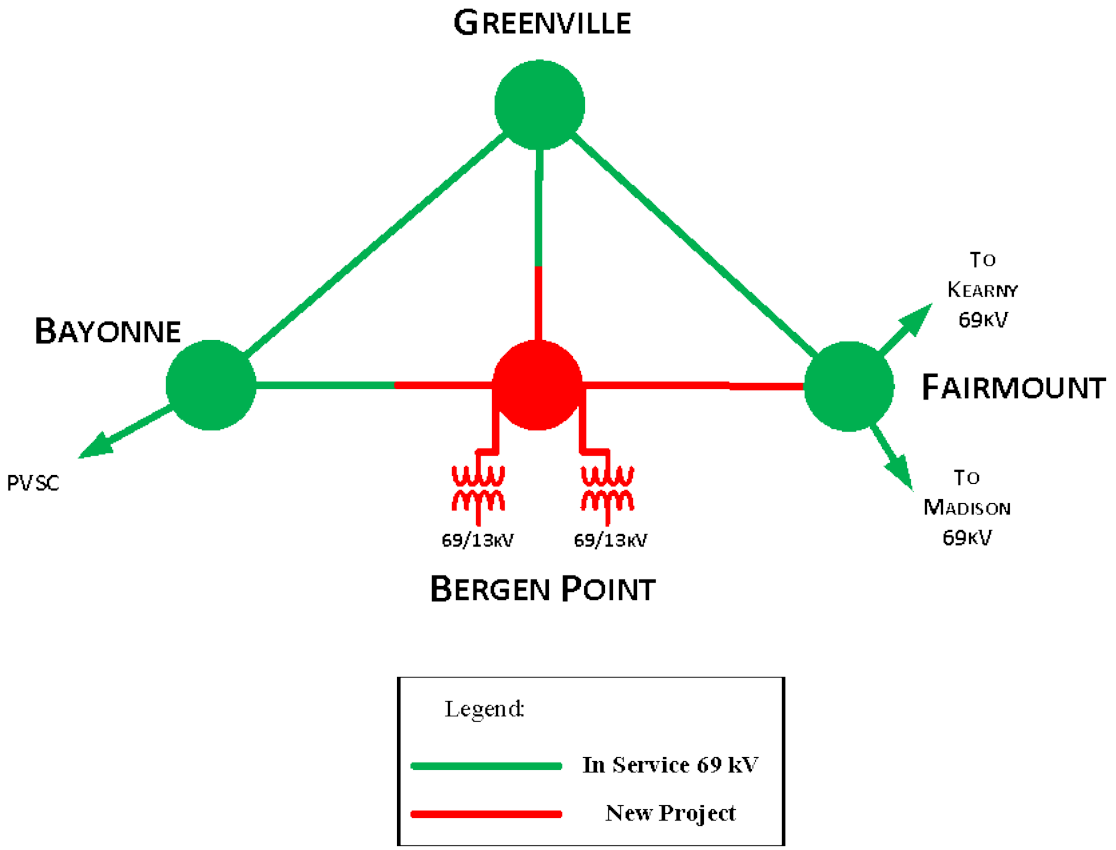
Supplemental Project ID: s2537 (received in 2021)

Selected Solution Update:

- Still on track to construct a new 69/13kV substation in the Bergen Neck Area to feed Bergen Point load and provide for future load growth.
- Environmental challenges have necessitated changing the proposed location of the 69/13kV substation from the initial new property to the existing space-constrained Bergen Point substation, which will require acquisition of additional adjacent properties.
- Configuration of solution remains the same. Modifications to solution include:
  - Construct 69KV ring bus Class H at Bergen Point site and adjacent properties with two (2) 69/13kV transformers and three 69kV lines.
  - Constructing at existing substation and adjacent properties requires building GIS as opposed to AIS.
  - Construct a primarily underground 69kV network between Greenville, Bayonne, Fairmount, and the existing Bergen Point site (adds approximately 4 miles of underground construction).
  - Equipment and construction costs have substantially increased since the project was brought forward in 2020.
  - **Estimated Cost:** ~~$116M~~ $161M

Projected In-Service: 05/2026

Project Status: Engineering and Planning



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

7/11/2022 – V1 – Original version posted to pjm.com