



SRRTEP Committee: Mid-Atlantic PSE&G Supplemental Projects

July 20, 2023

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



PSE&G Transmission Zone M-3 Process East Rutherford Area

Need Number: PSEG-2023-0008

Process Stage: Need Meeting 07/20/2023

Supplemental Project Driver:

- Customer Service
- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

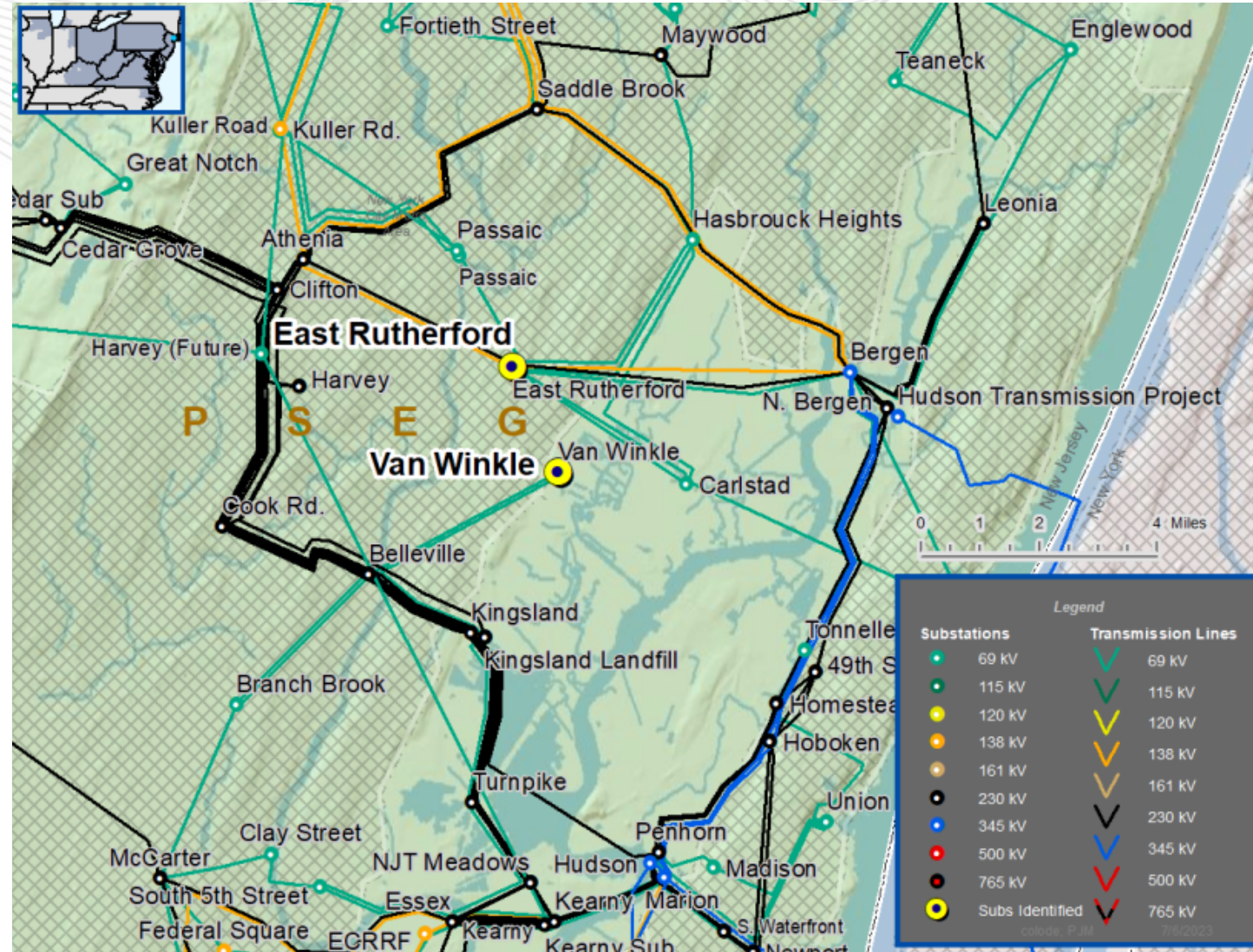
[PSE&G 2023 Annual Assumptions](#)

- Localized Load Growth & Contingency Overloads
- Equipment Reliability and Condition Assessment

Problem Statement:

- East Rutherford is a station in the Bergen county area with no additional station capacity.
 - East Rutherford serves over 17,600 customers with a peak load of over 70.9MVA in 2021.
 - The actual station capacity is 62.5MVA. Contingency overload is 113%.
- The Van Winkle Substation building is over 80 years old, is in poor condition, and is not in compliance with today's NJ UCC requirements.
 - Van Winkle serves over 5,400 customers.

Model: 2021 Series 2026 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-2023-0005

Process Stage: Solutions Meeting 07/20/2023

Previously Presented: Need Meeting 05/18/2023

Supplemental Project Driver:

- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

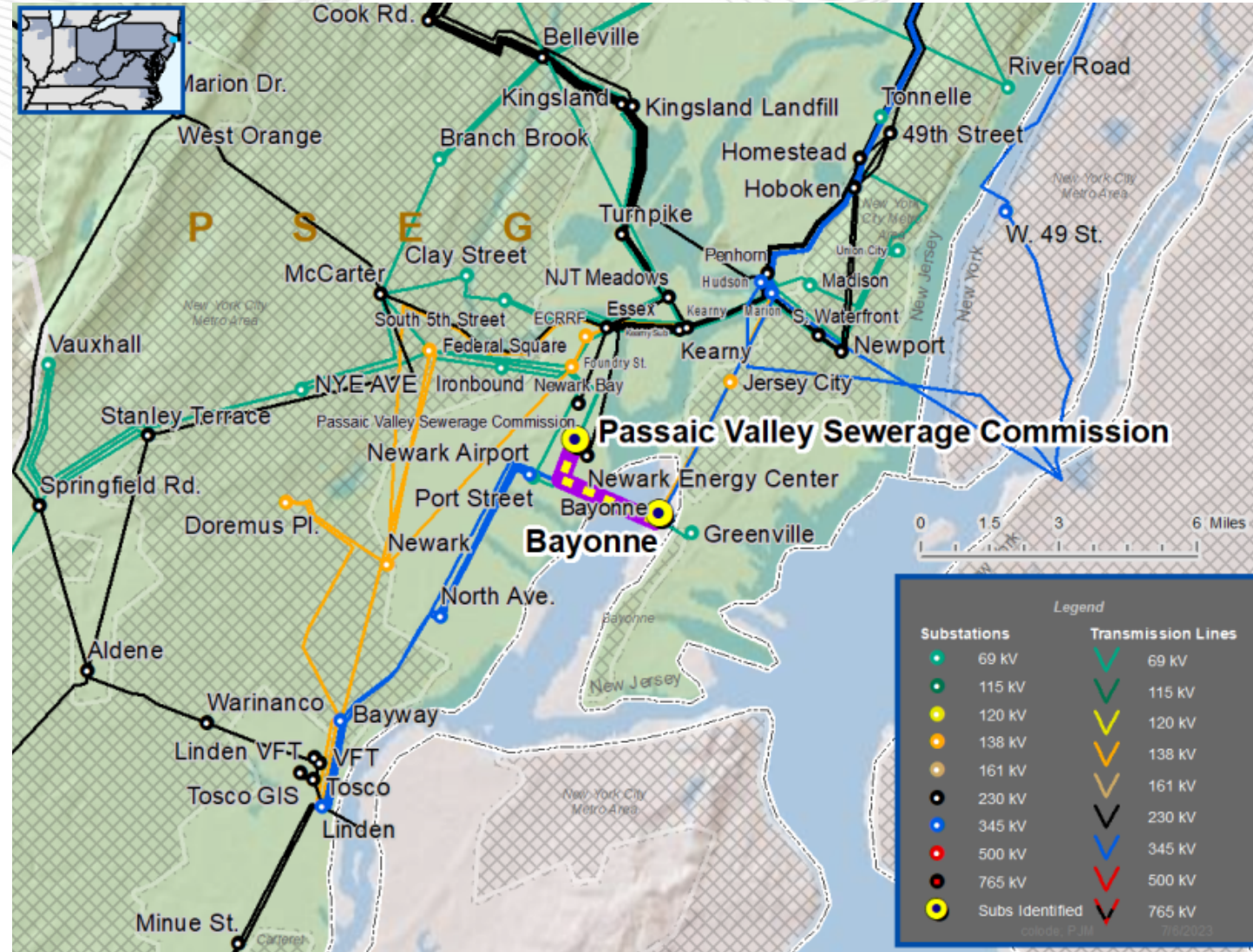
[PSE&G 2023 Annual Assumptions](#)

- Equipment Criticality, Consequence of Failure

Problem Statement:

- The cable connecting Newark and Bayonne 69kV networks is a high pressure fluid-filled circuit and is an environmental risk. The high pressure fluid-filled line was constructed in 1963. The line length totals to 2.3 miles with approximately 4800 feet underwater in the Newark Bay.
- The circuit contains over 23,000 gallons of dielectric fluid. There is a potential risk of an un-controlled leak of up to 56% of that fluid into Newark Bay.

Model: 2022 Series 2027 Summer RTEP 50/50



Need Number: PSEG-2023-0005

Process Stage: Solutions Meeting 07/20/2023

Proposed Solution:

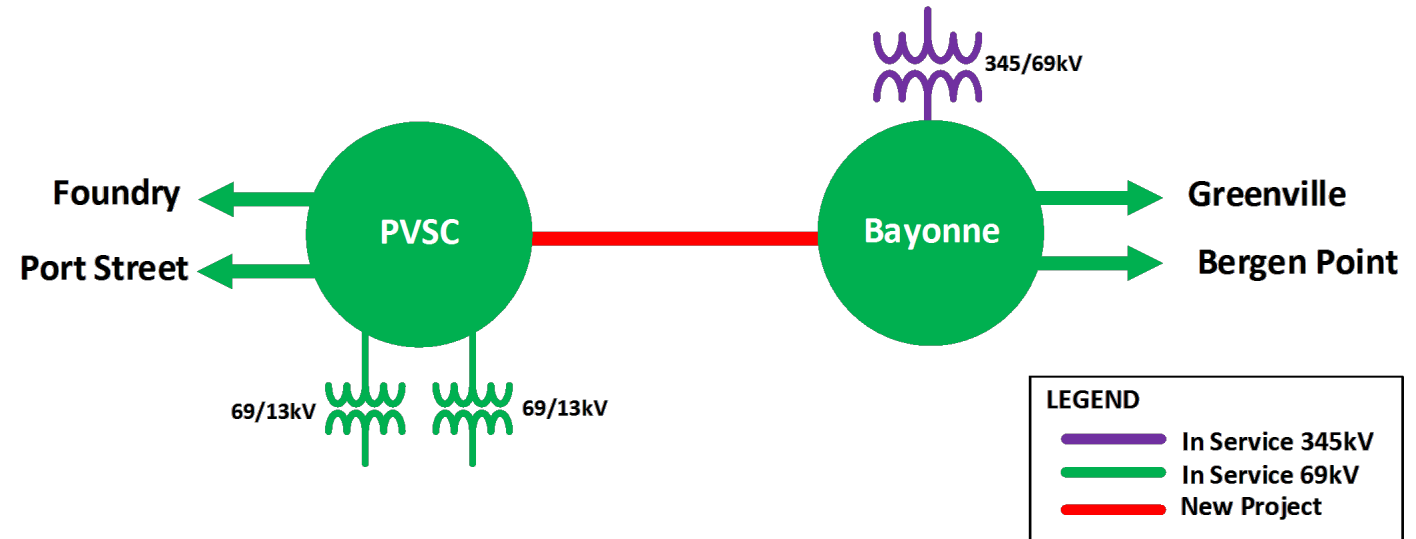
- Replace the High Pressure Fluid Filled (HPFF) cable with Extruded Pipe (EP) cable.
 - Replace 2.3 miles of HPFF cable with EP cable.
 - Re-use the existing G-709 pipe and route for the cable replacement.
 - Modify terminal equipment at PVSC and Bayonne stations to accommodate the EP cables.
 - At Bayonne station, de-commission and remove the oil pumping equipment including pumping plant, tank, controls, and piping associated with the cable.
 - **Estimated Cost:** \$25.6M

Alternative Considered:

- Maintain the existing HPFF cable
 - Requires additional routine monitoring/inspections.
 - Potential dielectric fluid leak from circuit poses substantial environmental risk.
 - Installations of stop joint would not eliminate leaks.

Projected In-Service: 12/2025

Project Status: Conceptual



A central graphic consisting of an orange rounded rectangle. Inside the rectangle, the word "Planning" is written in white, bold, sans-serif font, and "Community" is written below it in a smaller, white, sans-serif font. To the left of the text is a grey speech bubble icon with three dots. To the right is a pink square icon with a white question mark.



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/xx/2023 – V1 – Original version posted to pjm.com

