

# SRRTEP COMMITTEE: MID-ATLANTIC PSE&G SUPPLEMENTAL PROJECTS

February 16, 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 South Brunswick Area

**Need Number:** PSEG-2023-0002

**Process Stage:** Need Meeting 02/16/2023

**Supplemental Project Driver:**

- Customer Service

**Specific Assumption Reference:**

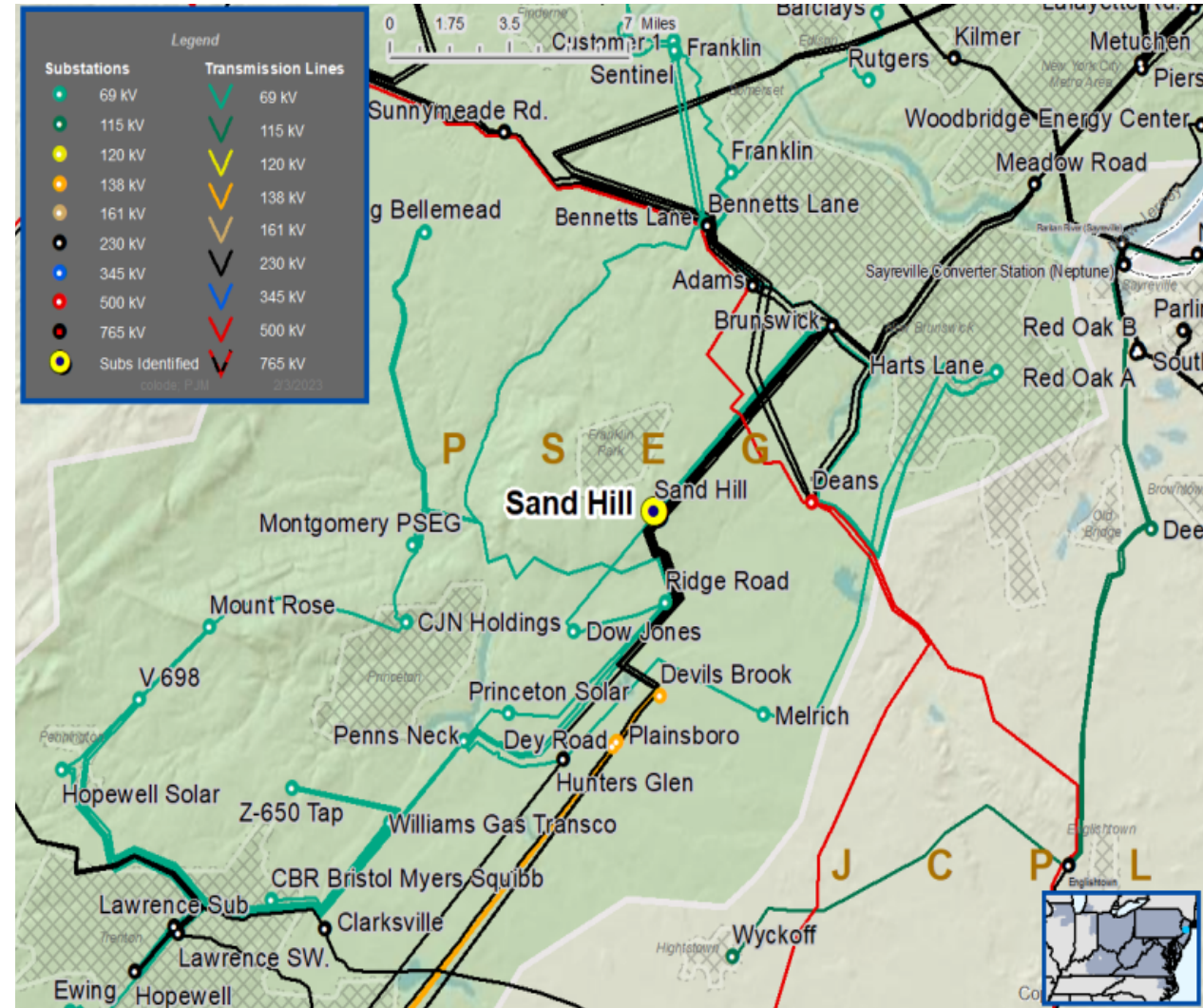
[PSE&G 2023 Annual Assumptions](#)

- Localized Load Growth & Contingency Overloads

**Problem Statement:**

- Sand Hills Substation is a station in the South Brunswick area with no additional station capacity.
  - Sand Hills serves over 20,200 customers with a peak load of over 78.5MVA in 2021 and 2022.
  - The actual station capacity is 61MVA. Contingency overload is 128%.

**Model:** 2021 Series 2026 Summer RTEP 50/50



# **PSE&G Supplemental Project S2491 Scope & Cost Update**



# PSEG Transmission Zone M-3 Process Elizabeth Area

**Need Number:** PSEG-2020-0010

**Process Stage:** Project Update 2/16/2023

**Previously Presented:** Need Meeting 11/18/2020

Solutions Meeting 02/16/2021

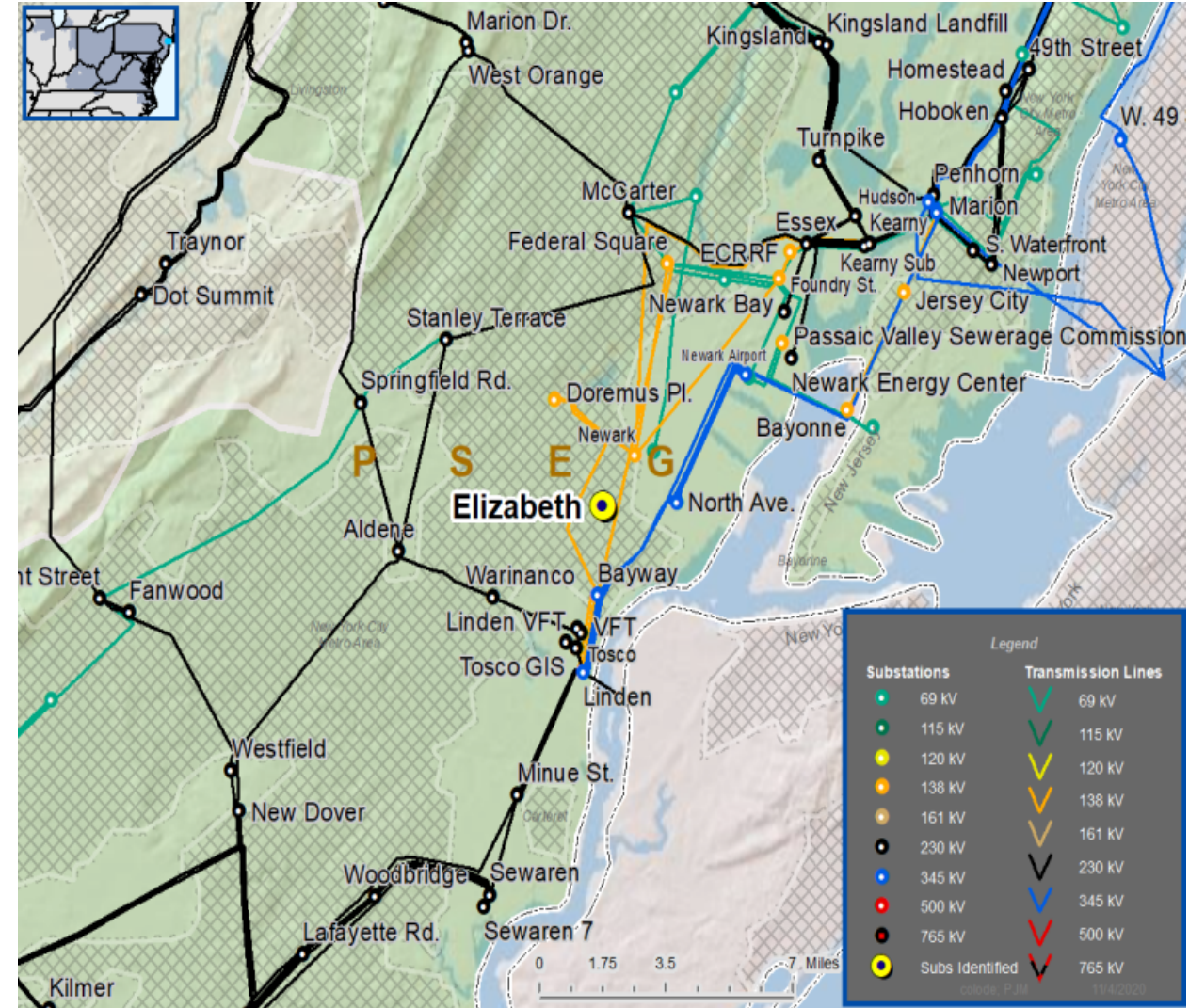
## Problem Statement:

- Elizabeth Substation is supplied by 26kV circuits with increasing performance problems.
  - Over the past decade, the four 26kV supply circuits have seen 11 momentary and 36 extended outages, with total duration of 1147 hours.
  - Station equipment at Elizabeth has been in service since 1914 and needs to be addressed.
  - Historical flooding has compromised some station structures.
  - Elizabeth serves roughly 8,500 customers and 28.8 MVA of load.

**Projected In-Service:** 5/31/2025

**Supplemental Project ID:** s2491

**Project Status:** In Construction





# PSEG Transmission Zone M-3 Process Elizabeth Area

**Need Number:** PSEG-2020-0010

**Process Stage:** Project Update 2/16/2023

**Previously Presented:** Need Meeting 11/18/2020  
Solutions Meeting 02/16/2021

**Update:** Siting Challenges have resulted in solution refinements as follows:

**Selected Solution:**

- Convert existing Elizabeth 26/4kV substation to a 69/4kV substation
  - Purchase property to accommodate new construction.
  - Install 69kV substation with three (3) 69/4kV transformers.
  - Cut and loop Linden-Roselle -Vauxhall 69kV circuit into new location.
  - Construct a circuit to ~~Nye Ave 69kV~~ Ironbound 69kV
  - Eliminate s0934.4 (69kV line between Ironbound and Port Street)
  - **Estimated Cost:** ~~\$85.8M~~-\$97.8M

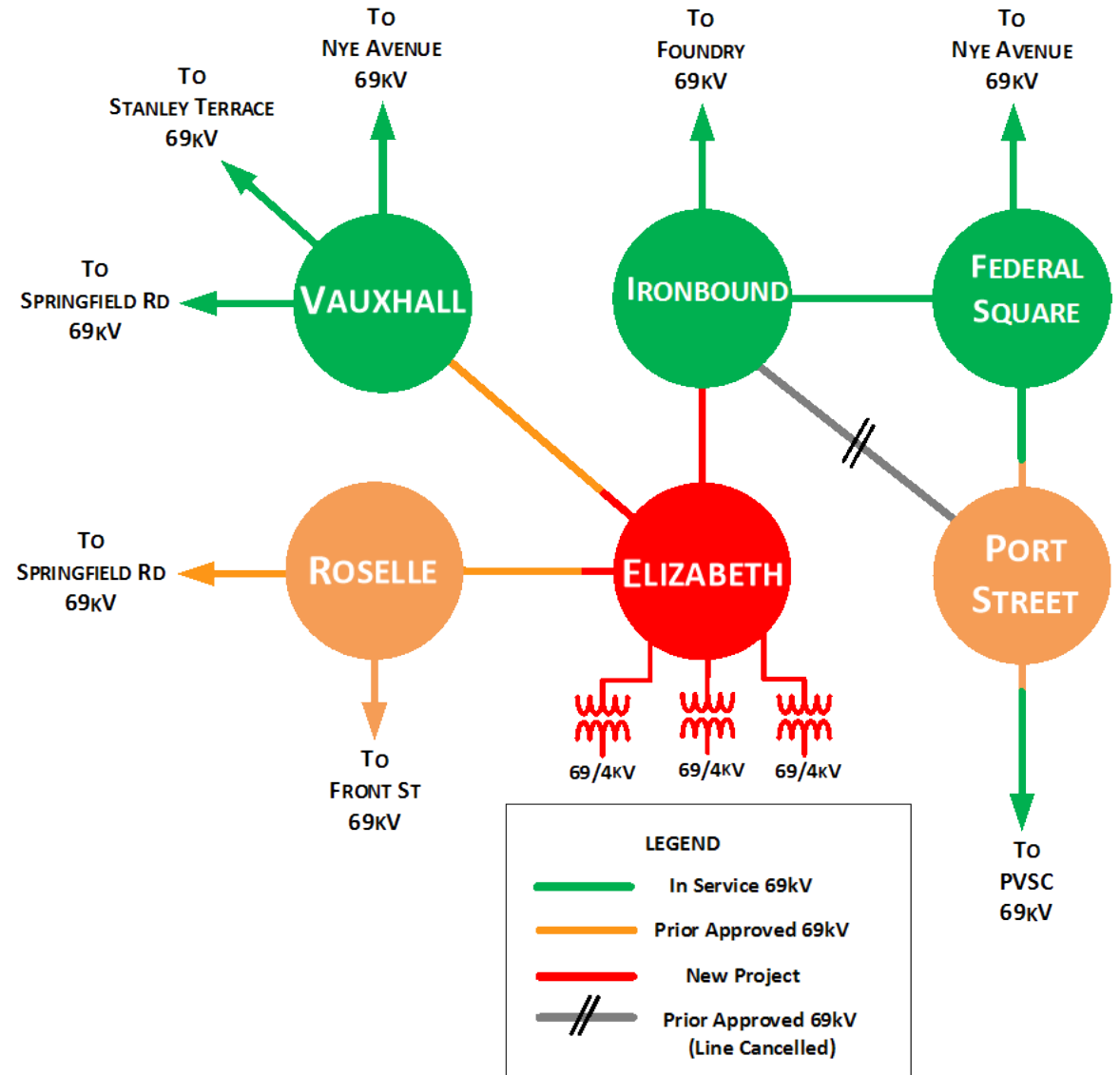
**Benefits of Updating Project:**

- Resolves siting challenges for Port Street project.
- Resolves significant challenges to the Port Street project due to other infrastructure work by third parties in the area.
- Avoids the need to acquire additional land and undertake environmental cleanup that would significantly increase the cost to the Port Street project.

**Projected In-Service:** 5/31/2025

**Supplemental Project ID:** s2491

**Project Status:** Under Construction



# 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

2/6/2023 – V1 – Original version posted to pjm.com