

SRRTEP COMMITTEE: MID-ATLANTIC PSE&G SUPPLEMENTAL PROJECTS

March 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

Need Number: PSEG-2023-0003

Process Stage: Need Meeting 03/16/2023

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

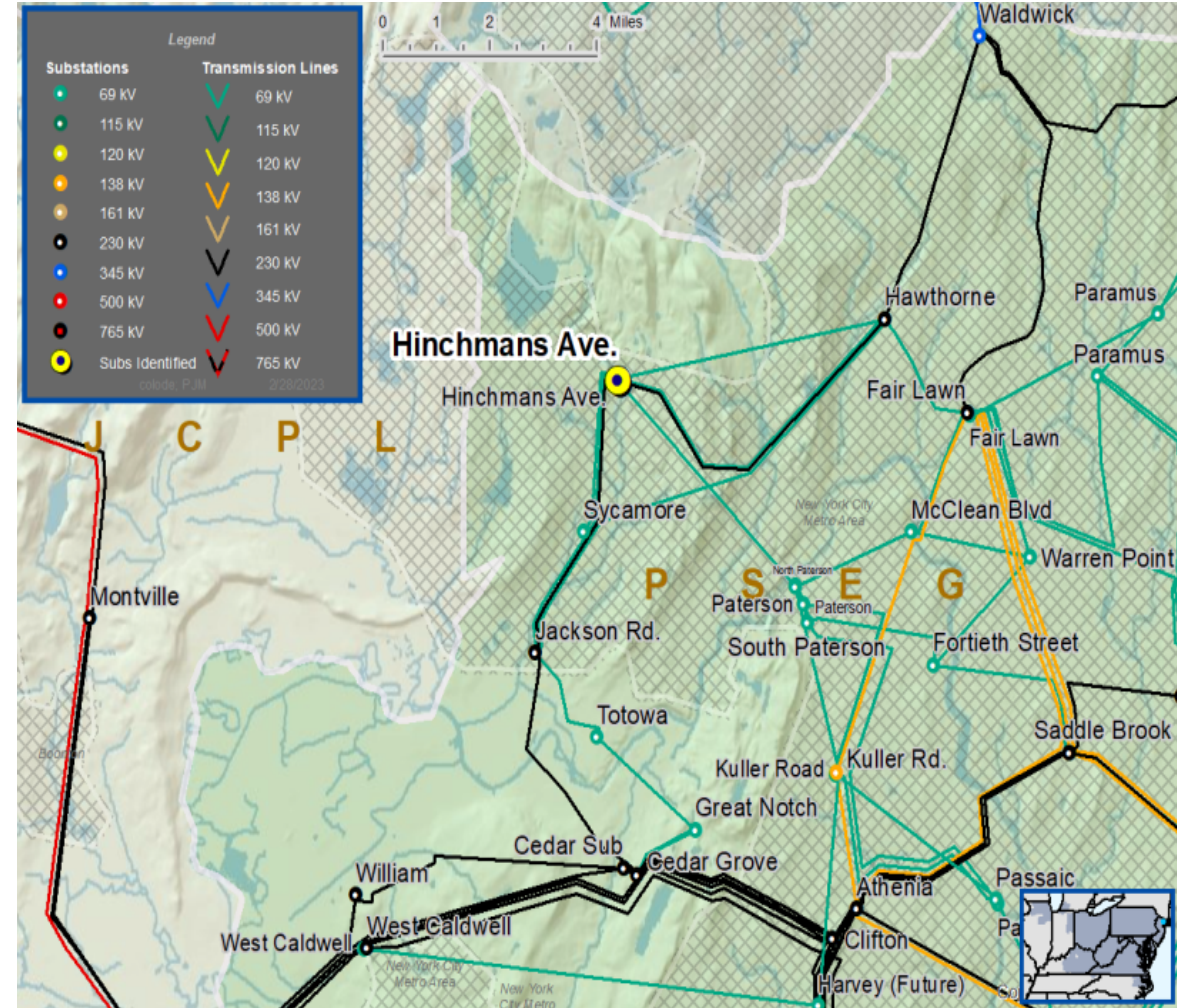
[PSE&G 2023 Annual Assumptions](#)

- Localized Load Growth & Contingency Overloads

Problem Statement:

- Hinchmans Substation is a station feeding the Prospect Park area with no additional station capacity.
 - Hinchmans serves over 14,000 customers with a peak load of over 75.6 MVA in 2021 and 2022.
 - The actual station capacity is 59.6 MVA. Contingency overload is 127%.

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



PSE&G Transmission Zone M-3 Process South Brunswick Area

Need Number: PSEG-2023-0002

Process Stage: Solutions Meeting 3/16/2022

Previously Presented: Need Meeting 02/16/2023

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

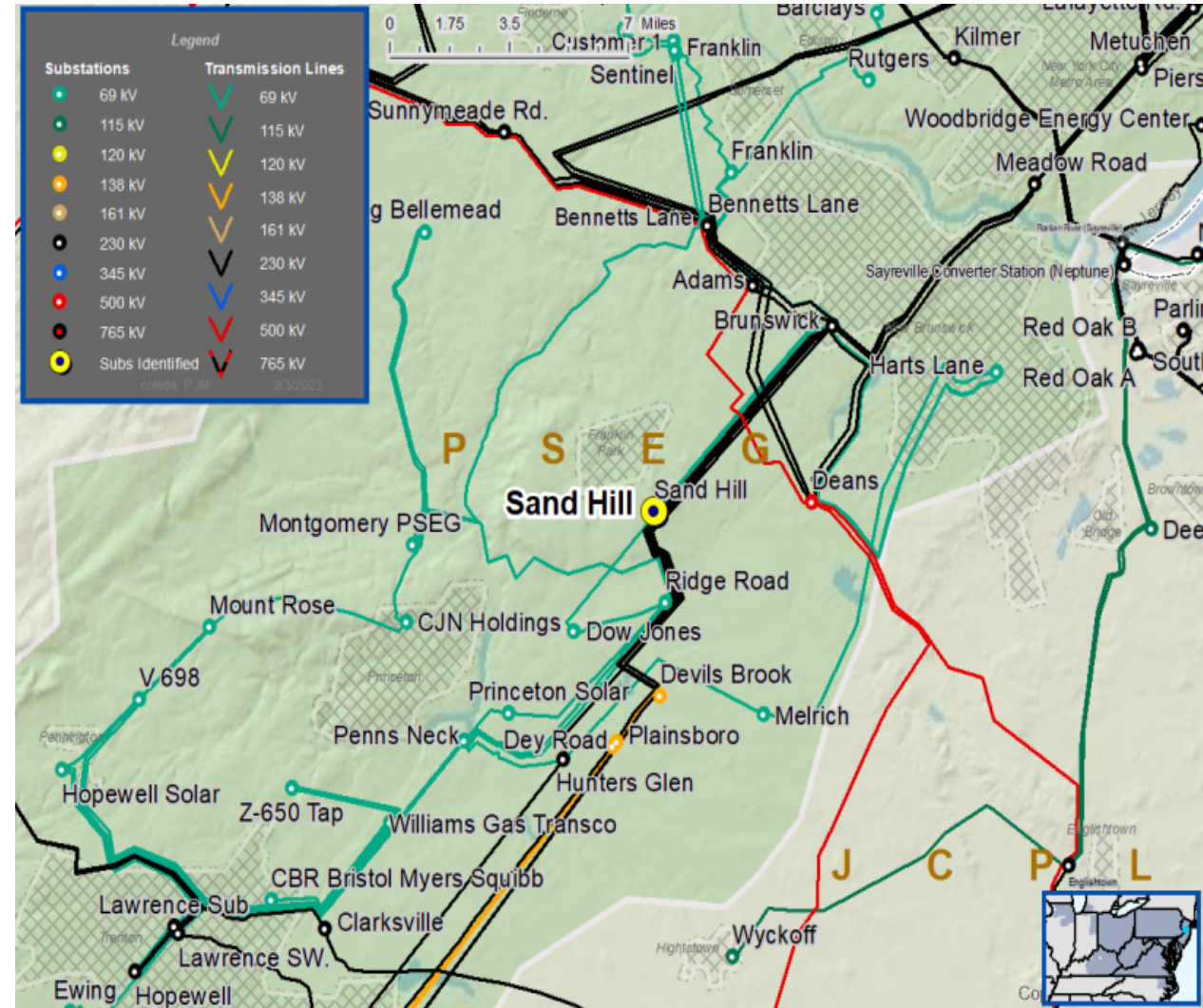
[PSE&G 2023 Annual Assumptions](#)

- 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



Need Number: PSEG-2023-0002

Process Stage: Solutions Meeting 03/16/2023

Proposed Solution:

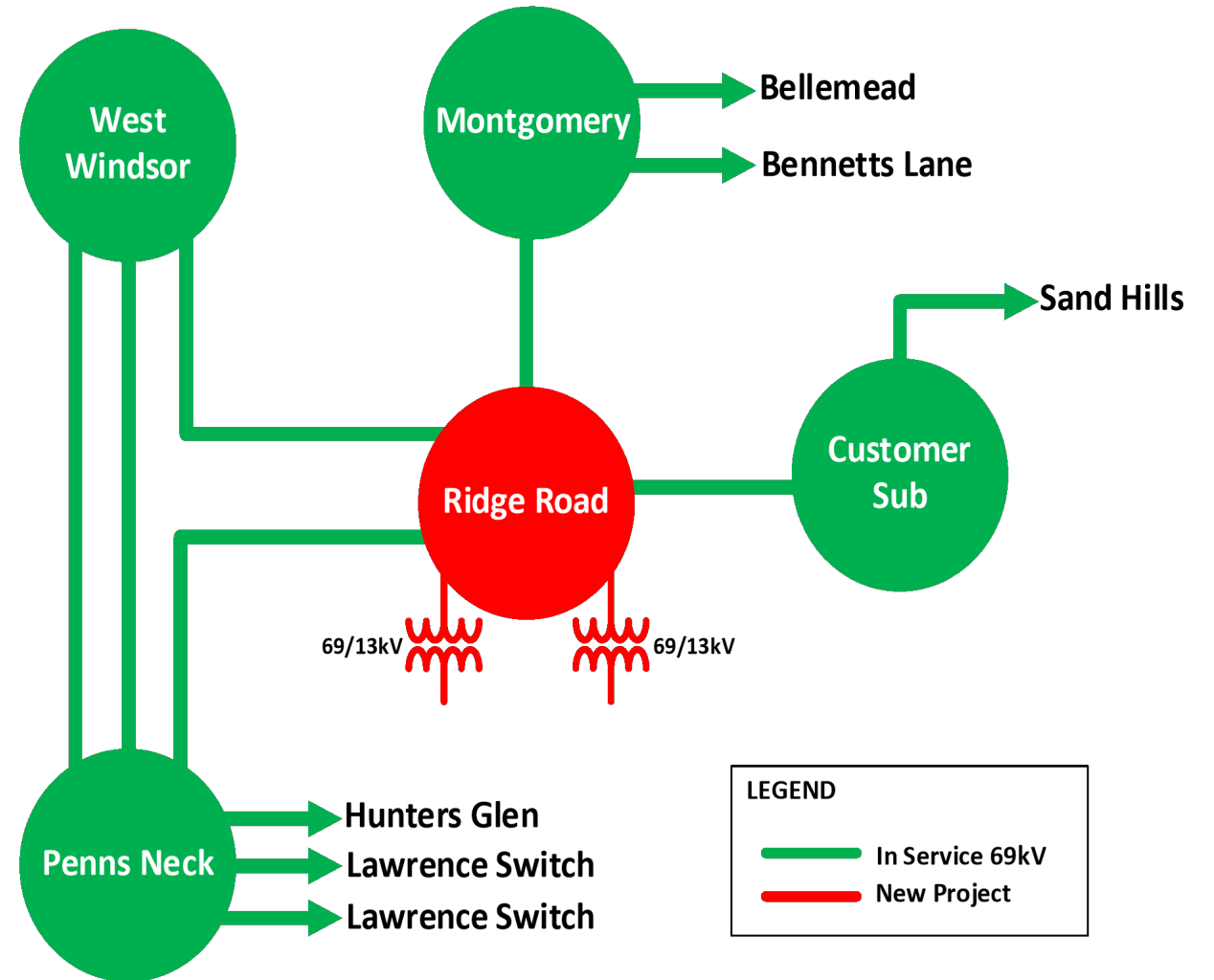
- Expand the existing Ridge Road Substation to a full Class H Substation.
 - Install three (3) 69-kV breakers at Ridge Road.
 - Convert Ridge Road to Class H station, install two (2) 69/13kV transformers and sheltered aisled switchgear.
 - Offload the Sand Hills station to the new Ridge Road Class H substation.
 - **Estimated Cost:** \$22M



Alternative Considered:

- Convert the Montgomery Substation to a six (6) breaker Ring Bus and install a 69/13kV Class H substation.
 - No capacity for future growth.
 - Requires crossing the Delaware and Raritan Canal.
 - Reduces capacity at Montgomery to support load in the Princeton area.
 - **Estimated Cost:** \$36M

Projected In-Service: 05/2027

Project Status: Conceptual



LEGEND	
	In Service 69kV
	New Project

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

3/6/2023 – V1 – Original version posted to pjm.com