

PSEG 2026

Submission of Supplemental Projects for Inclusion in the Local Plan



PSE&G Transmission Zone M-3 Process Newark Area

Need Number: PSEG-2025-0002

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 12/19/2025

Previously Presented:

- Needs Meeting: SRRTEP - MA - 04/01/2025
- Solutions Meeting: SRRTEP - MA - 07/08/2025

Supplemental Project Driver:

- Equipment Condition/Performance/Risk
- Operational Flexibility and Efficiency
- Customer Service

Specific Assumption Reference:

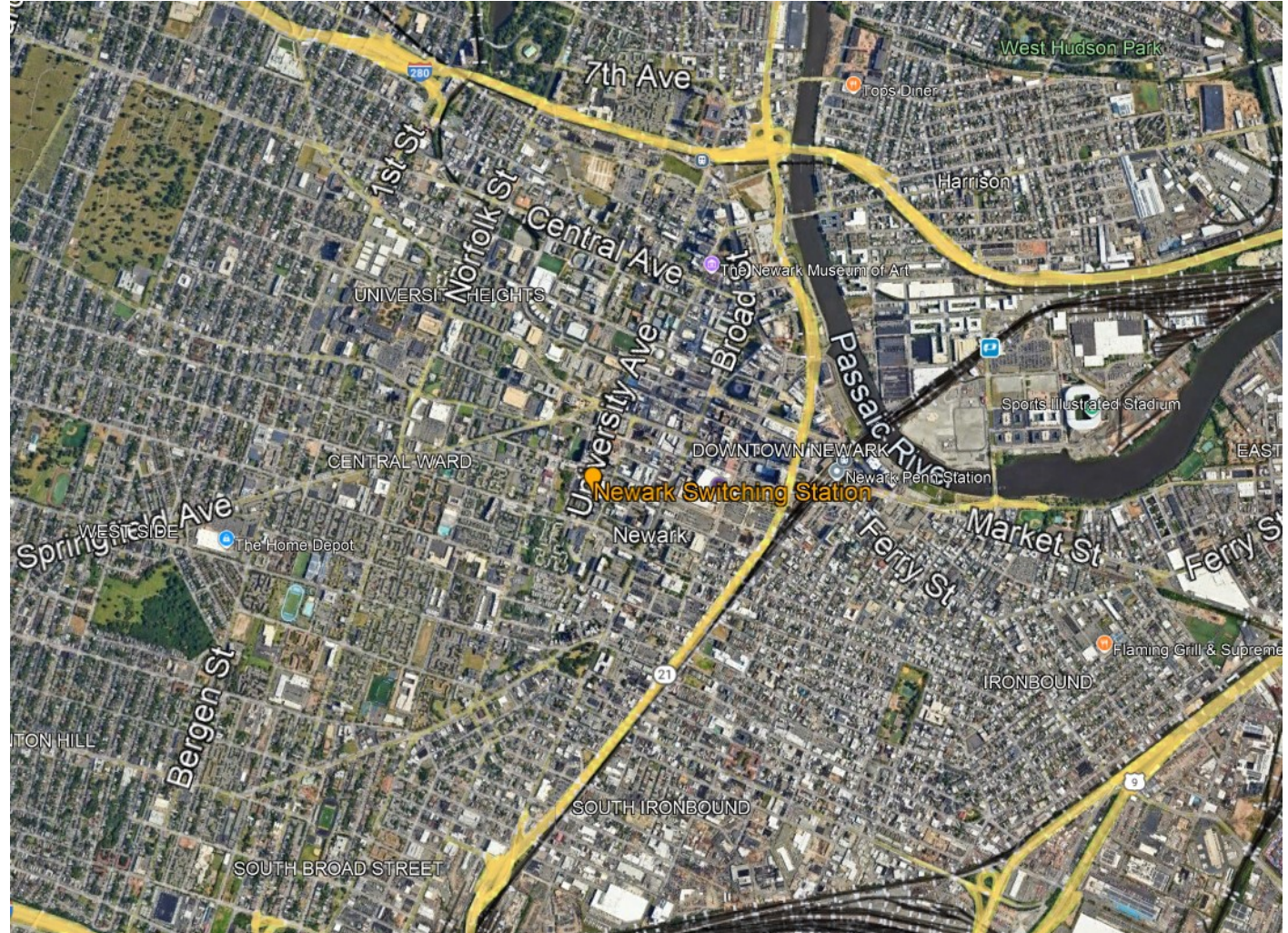
[PSE&G 2025 Annual Assumptions](#)

- Equipment Critically, Consequence of Failure
- Optimizing System Configuration, Minimize Outages
- System Standardization

Problem Statement:

- Networks fed from Newark switching station serve an area of high urban density, as a result the number of network protectors per circuit are exceeding the standardized network design limit resulting in decreased reliability and safety concerns.
- Network circuits fed from Newark Switch exceed the PSE&G network system design limit increasing the likelihood for mis-operation and customer outages.
- Newark Switching station existing spare circuits are not sufficient to resolve the excess to the network design limit.

Model: 2024 Series RTEP 20329 SUM_Final N-1 & N-1-1 cases



Need Number: PSEG-2025-0002

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 12/19/2025

Selected Solution:

Construct a new 230-13kV substation at McCarter Switching station.

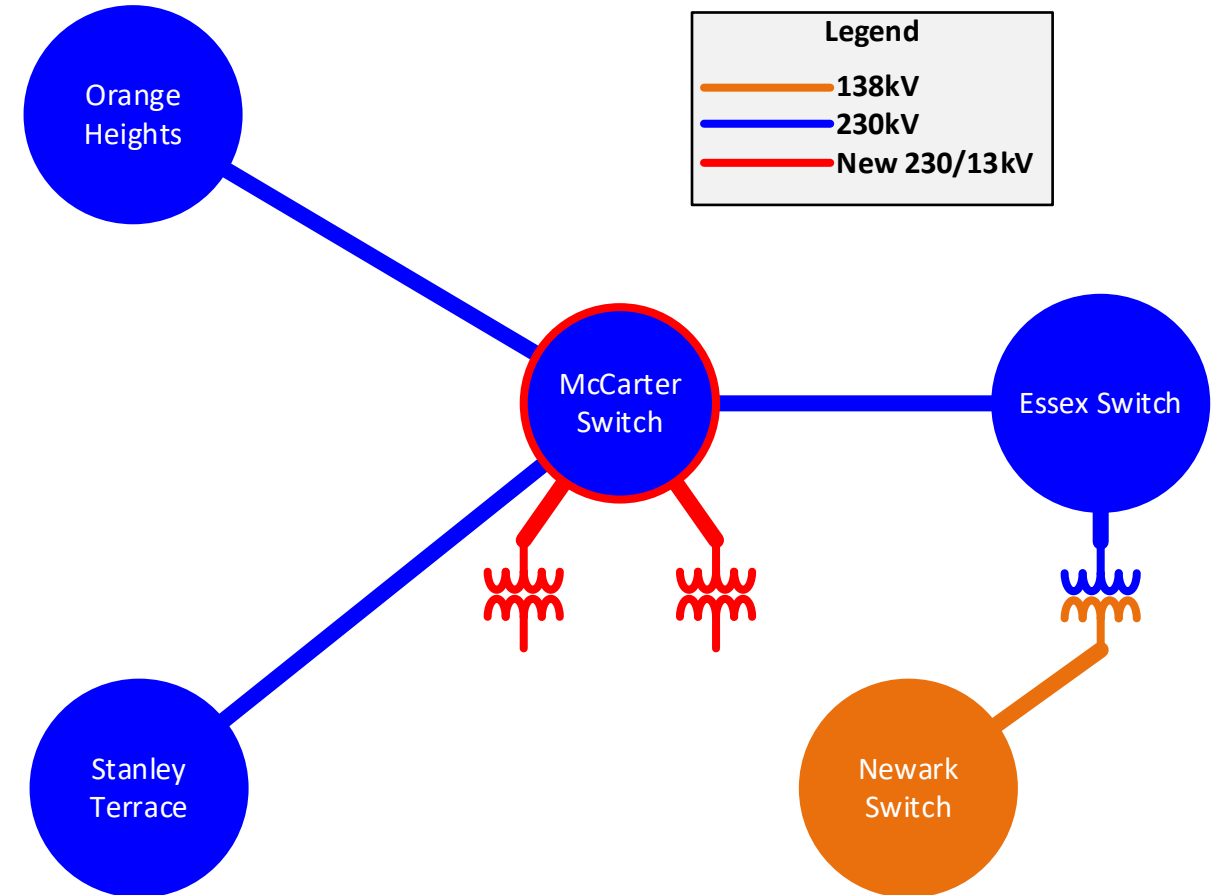
- Install two (2) 230-13kV transformers.
- Transfer several network circuits from Newark Switch to this new switchgear and reduce exceeding amount of network protectors to meet standardized design.

Estimated Cost: \$27.2M

Projected In-Service: 12/31/2029

Supplemental Project ID: s3735

Project Status: Engineering and Planning



Need Number: PSEG-2024-0004

Process Stage: Submission of Supplemental Project for Inclusion in the Local Plan 03/2/2026

Previously Presented :

- Need Meeting 09/13/2024
- Solution Meeting 09/09/2025

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

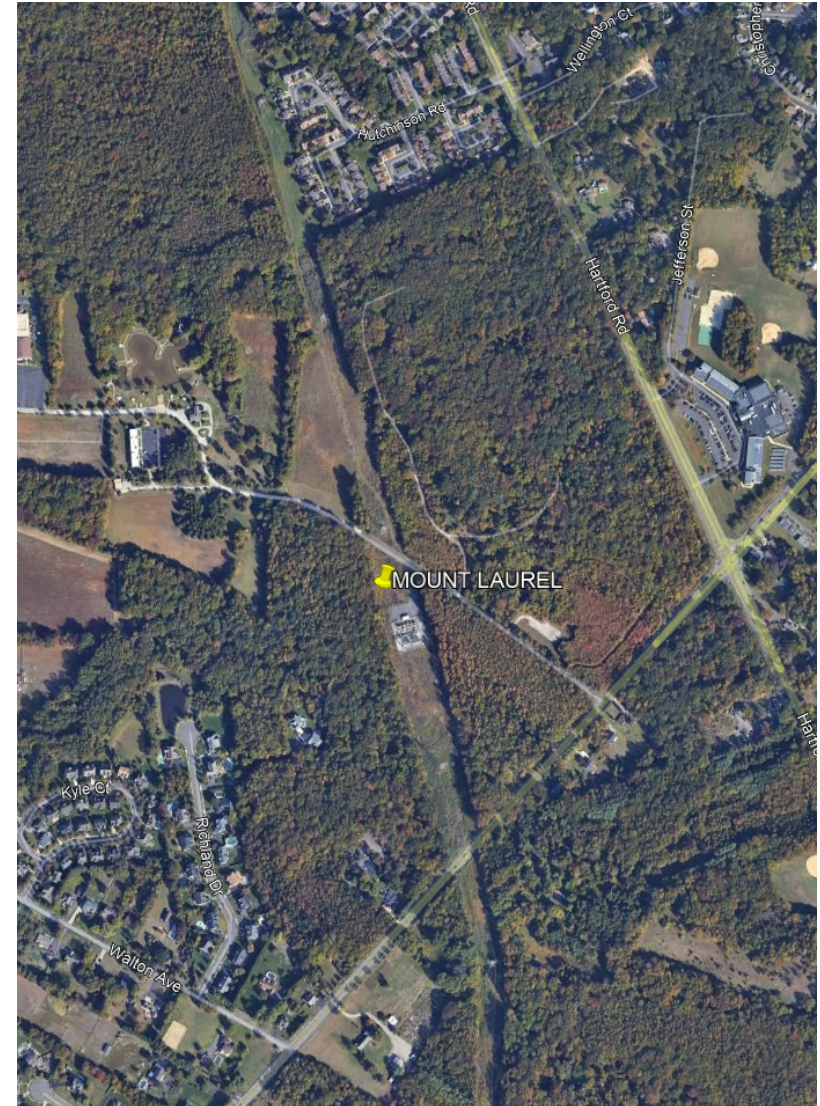
[PSE&G 2024 Annual Assumptions](#)

- Localized Load Growth & Contingency Overloads

Problem Statement:

- Mount Laurel Substation in Mount Laurel area is a station with no additional station capacity.
 - Mount Laurel serves about 14,300 customers with a station load of 69.90MVA in 2022. The actual station capacity is 60.60MVA. Projected contingency overload is 115.3%.

Model: 2022 Series 2027 Summer RTEP 50/50





PSE&G Transmission Zone M-3 Process Mount Laurel Area

Need Number: PSEG-2024-0004

Process Stage: Submission of Supplemental Project for
Inclusion in the Local Plan 03/2/2026

Selected Solution:

At Creek Rd:

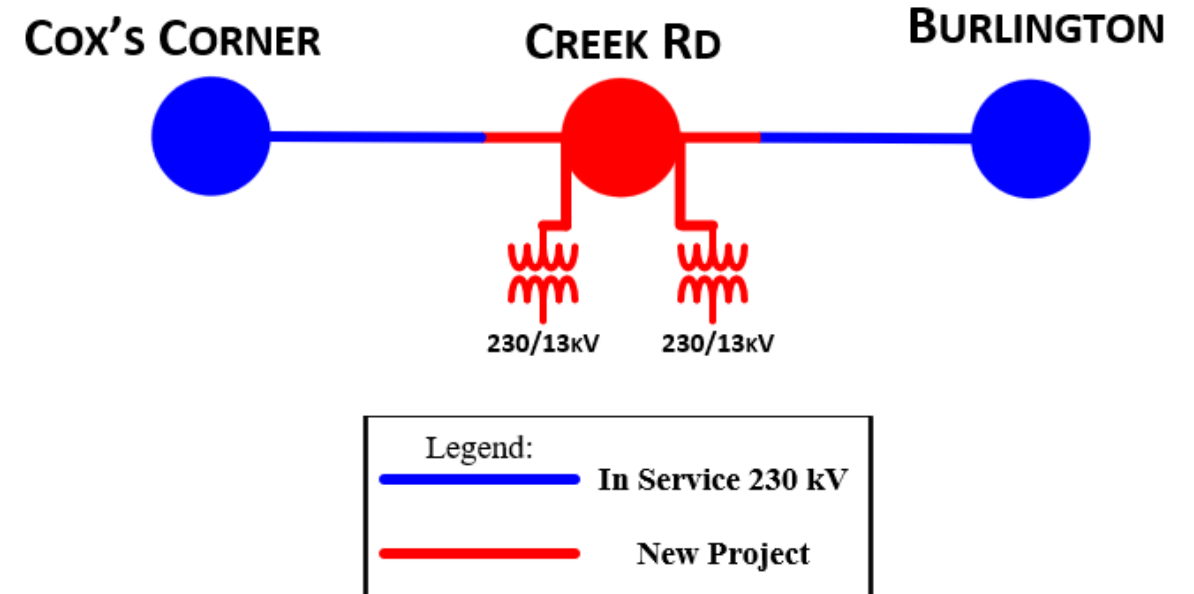
- Construct a 230-13kV Substation at PSEG owned property in the Mount Laurel Area.
 - Construct a 230kV substation.
 - Cut and loop Cox's Corner - Burlington 230kV circuit into new substation.
 - Install two (2) 230-13kV transformers.

Estimated Cost: \$85.0M

Projected In-Service: May 2031

Supplemental Project ID: s3754.1

Project Status: Engineering and Planning





PSE&G Transmission Zone M-3 Process PSE&G Central Territory

Need Number: PSEG-2025-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/2/2026

Previously Presented:

- Needs Meeting: SRRTEP - MA - 11/13/2025
- Solutions Meeting: SRRTEP - MA - 12/11/2025

Supplemental Project Driver:

- Equipment Condition/Performance/Risk

Specific Assumption Reference:

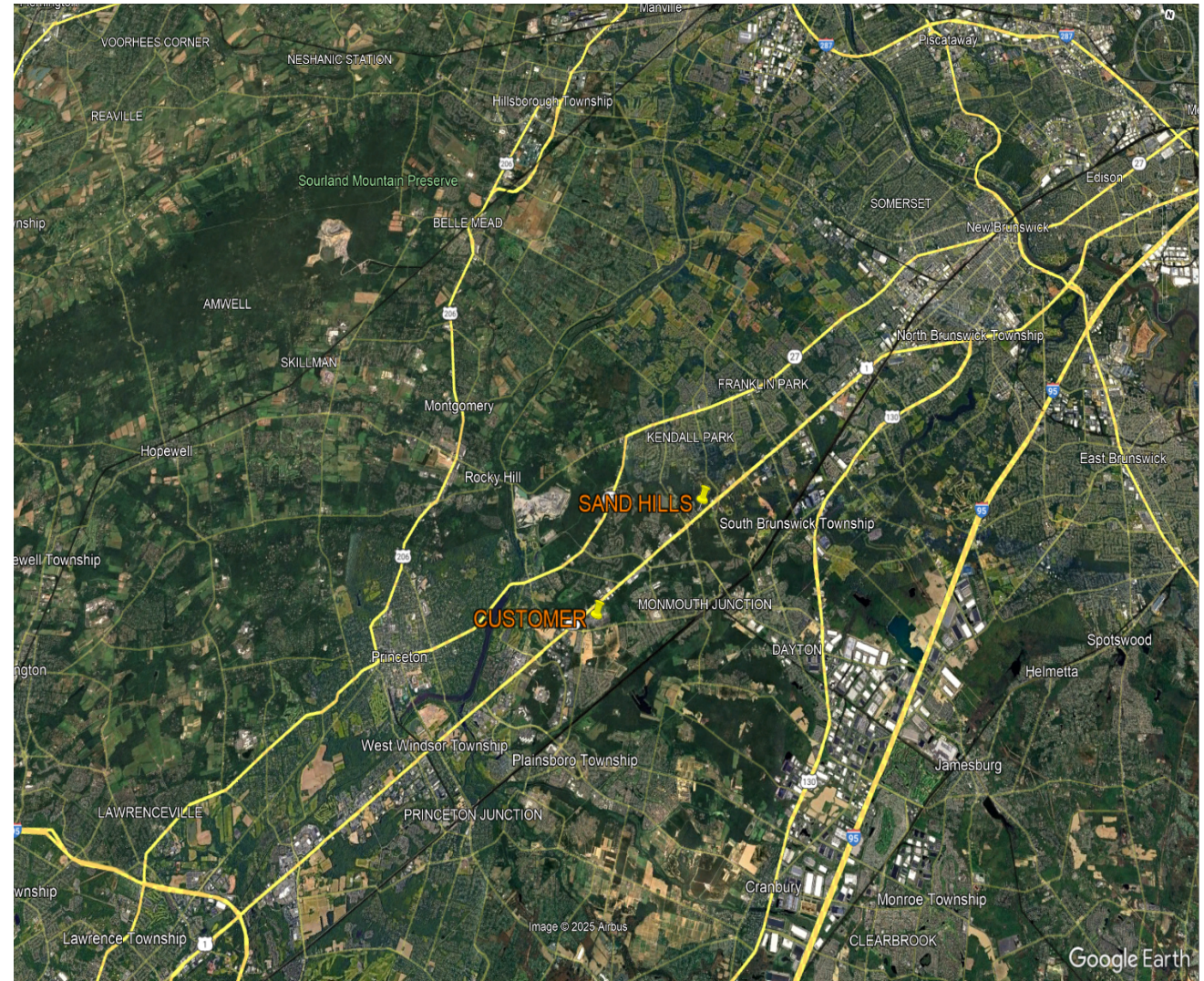
[PSE&G 2025 Annual Assumptions](#)

- Equipment Reliability and Condition Assessment

Problem Statement:

- PSE&G 69kV sub-transmission system contains multiple circuits that were built prior to 2006 using standards that are currently outdated resulting in less reliable circuits compared to the circuits built after 2006.
- The following 69kV circuit needs to be addressed to improve reliability and resilience:
 - Sand Hills to Customer – year built 1987

Model: 2025 Series RTEP 2030 SUM





PSEG Transmission Zone M-3 Process PSEG Central Territory

Need Number: PSEG-2025-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/2/2026

Selected Solution:

- Demolish existing circuit and rebuild to modern standards following same route
 - Install composite poles
 - Install 1,195 kcmil conductors in overhead sections
 - Install 3,000 kcmil cable in underground sections

Added Benefits:

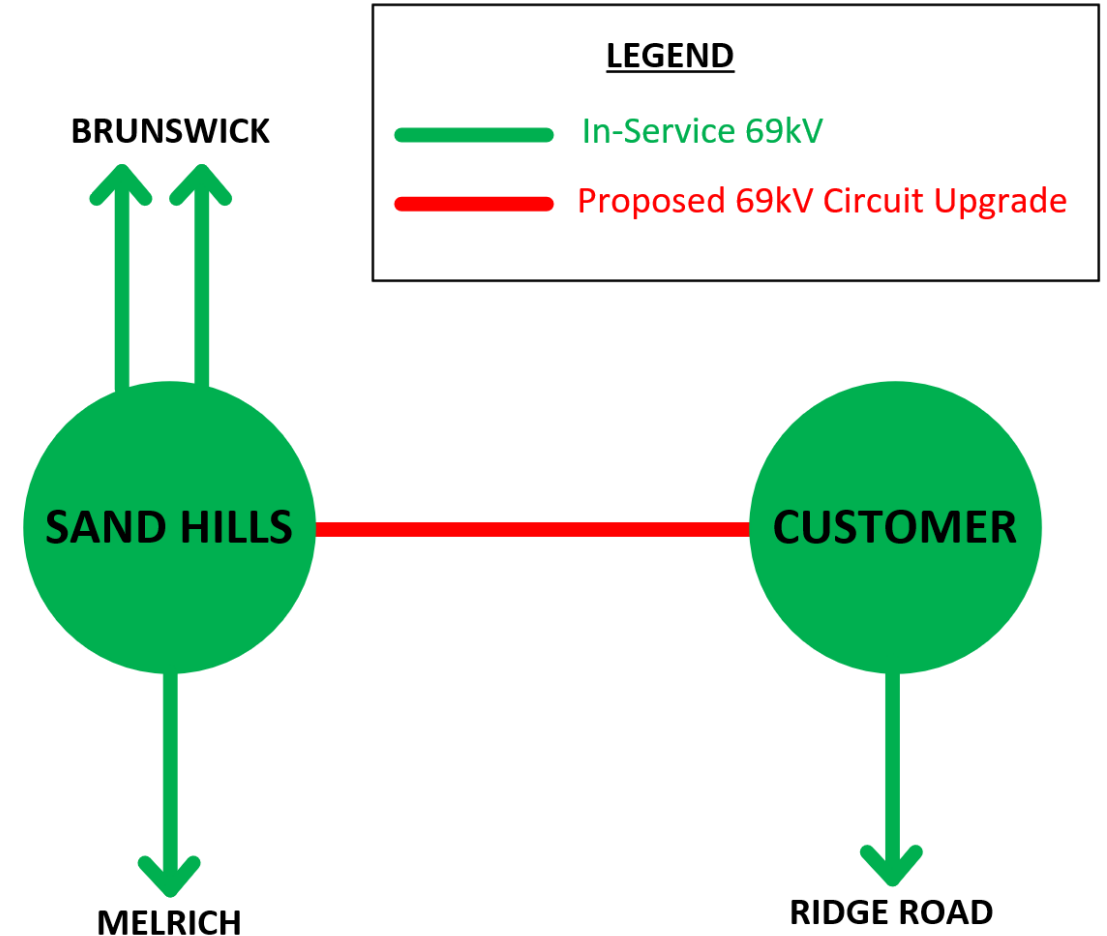
- The new circuit has a higher expected capacity of 135 MVA summer normal and 170 MVA summer emergency

Estimated Cost: \$25.1M

Projected In-Service: 12/31/2027

Supplemental Project ID: s3808

Project Status: Engineering and Planning



Need Number: PSEG-2025-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/2/2026

Previously Presented:

- Needs Meeting: SRRTEP - MA - 11/13/2025
- Solutions Meeting: SRRTEP - MA - 12/11/2025

Supplemental Project Driver:

- Equipment Condition/Performance/Risk

Specific Assumption Reference:

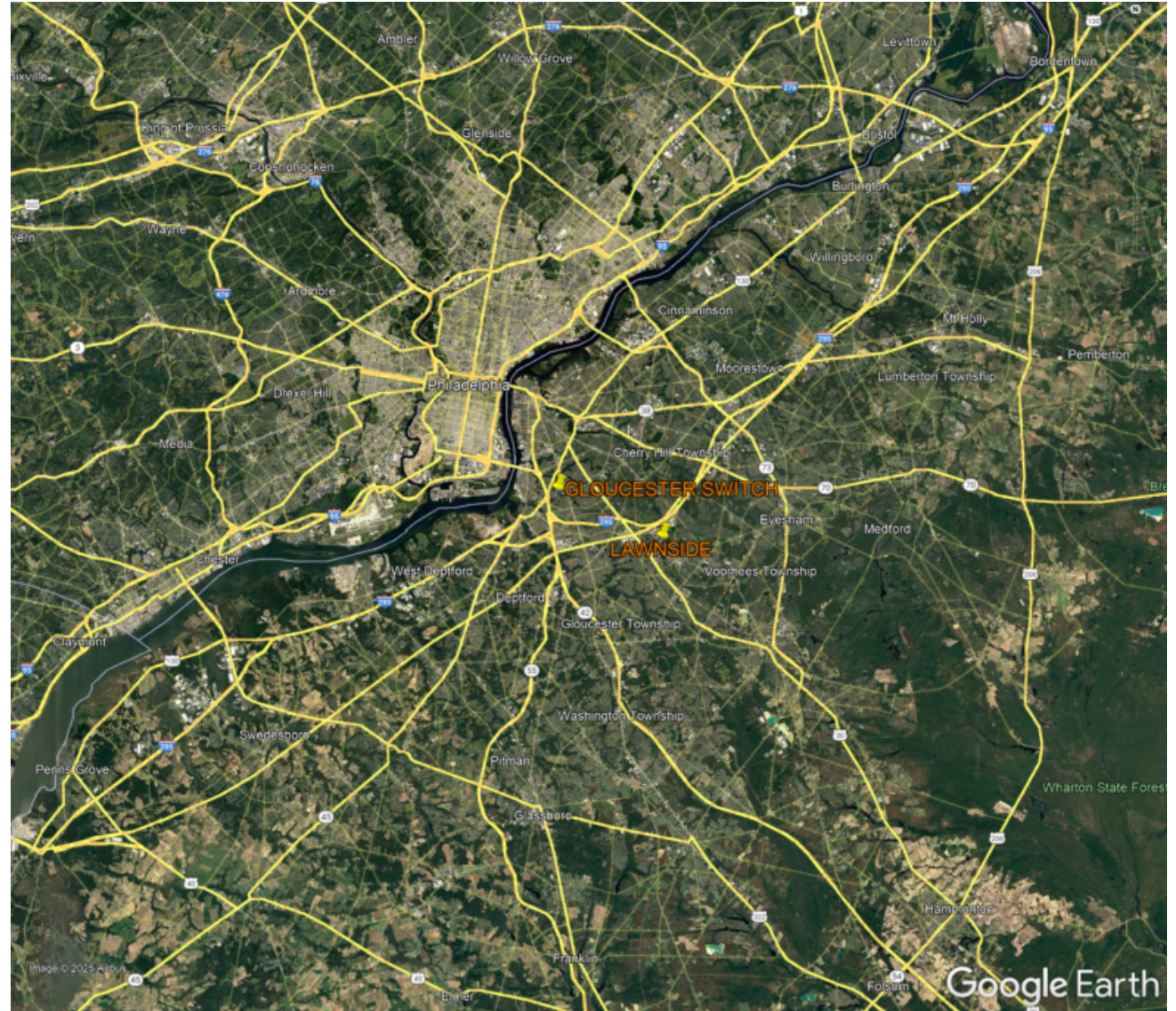
[PSE&G 2025 Annual Assumptions](#)

- Equipment Reliability and Condition Assessment

Problem Statement:

- PSE&G 69kV sub-transmission system contains multiple circuits that were built prior to 2006 using standards that are currently outdated resulting in less reliable circuits compared to the circuits built after 2006.
- The following 69kV circuit needs to be addressed to improve reliability and resilience:
 - Gloucester to Lawnside – year built 1987

Model: 2025 Series RTEP 2030 SUM





Need Number: PSEG-2025-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/2/2026

Selected Solution:

- Demolish existing circuit and rebuild to modern standards following same route
 - Install composite poles
 - Install 1,195 kcmil conductors in overhead sections
 - Install 3,000 kcmil cable in underground sections

Added Benefits:

- The new circuit has a higher expected capacity of 135 MVA summer normal and 170 MVA summer emergency

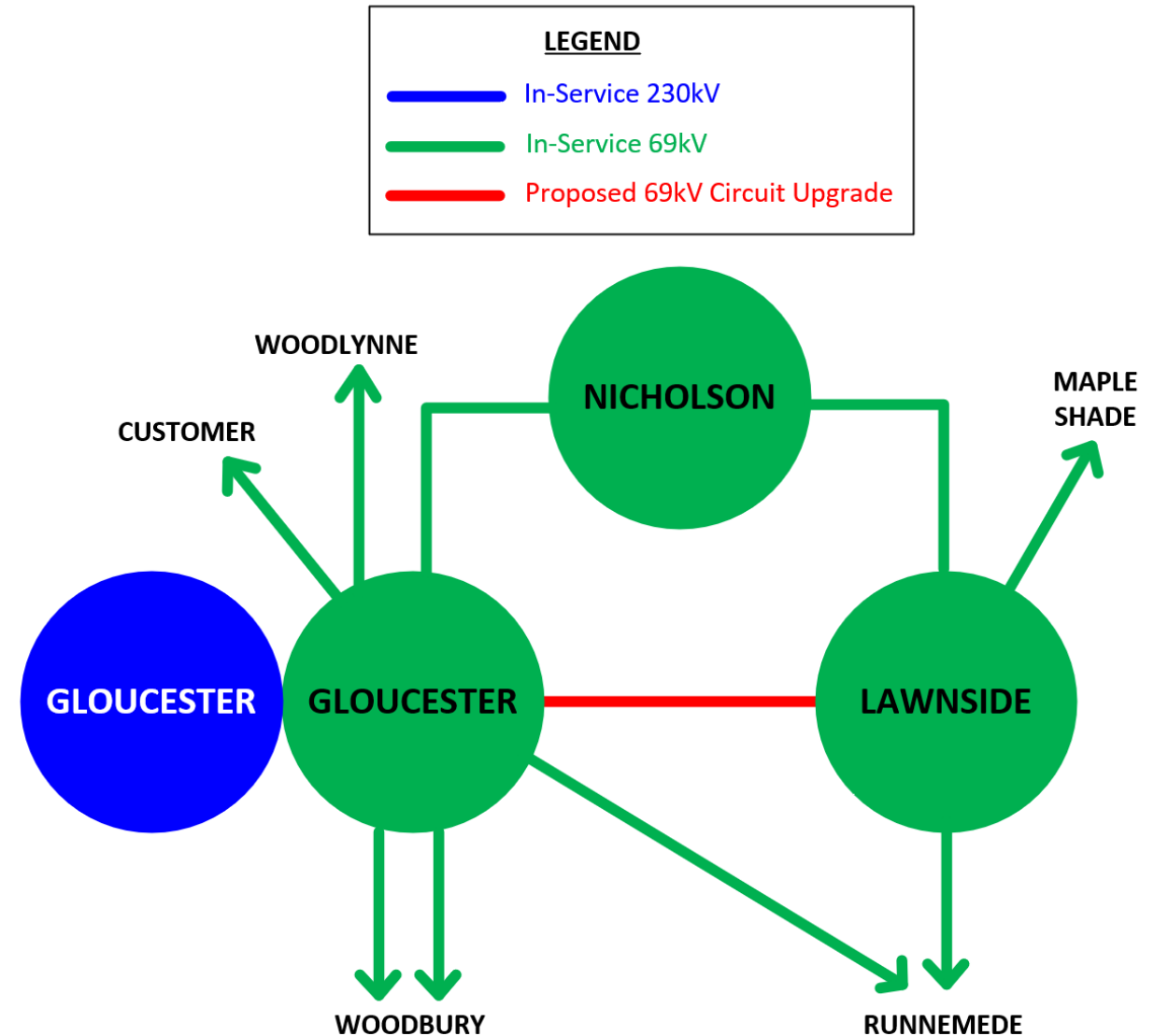
Estimated Cost: \$42.8M

Projected In-Service: 12/31/2028

Supplemental Project ID: s3809

Project Status: Engineering and Planning

PSEG Transmission Zone M-3 Process PSEG Southern Territory



Version History

- 12/19/2025 – V1 Posted (s3735)
- 3/2/2026 – V2 – s3754 added
- 4/2/2026 – V3 – s3808 & s3809