SRRTEP Committee – Mid-Atlantic PSE&G Supplemental Projects

December 11th, 2025

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
PSE&G Central Territory

Need Number: PSEG-2025-0008

Process Stage: Need Meeting 12/11/2025

Supplemental Project Driver:

- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

PSE&G 2025 Annual Assumptions

- Equipment Reliability and Condition Assessment

Problem Statement:

- PSE&G 69kV system contains multiple circuits that were built prior to 2006 using standards that are currently outdated resulting in less reliable circuits compared to the circuits built after 2006.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:
    - Brunswick to Harts Lane – year built 1973

Model: 2025 Series RTEP 2030 SUM

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

Need Number: PSEG-2025-0009

Process Stage: Need Meeting 12/11/2025

Supplemental Project Driver:

- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

PSE&G 2025 Annual Assumptions

- Equipment Reliability and Condition Assessment

Problem Statement:

- PSE&G 69kV system contains multiple circuits that were built prior to 2006 using standards that are currently outdated resulting in less reliable circuits compared to the circuits built after 2006.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:
    - Lawrence to Customer – year built 1989

Model: 2025 Series RTEP 2030 SUM

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

Need Number: PSEG-2025-0010

Process Stage: Need Meeting 12/11/2025

Supplemental Project Driver:

- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

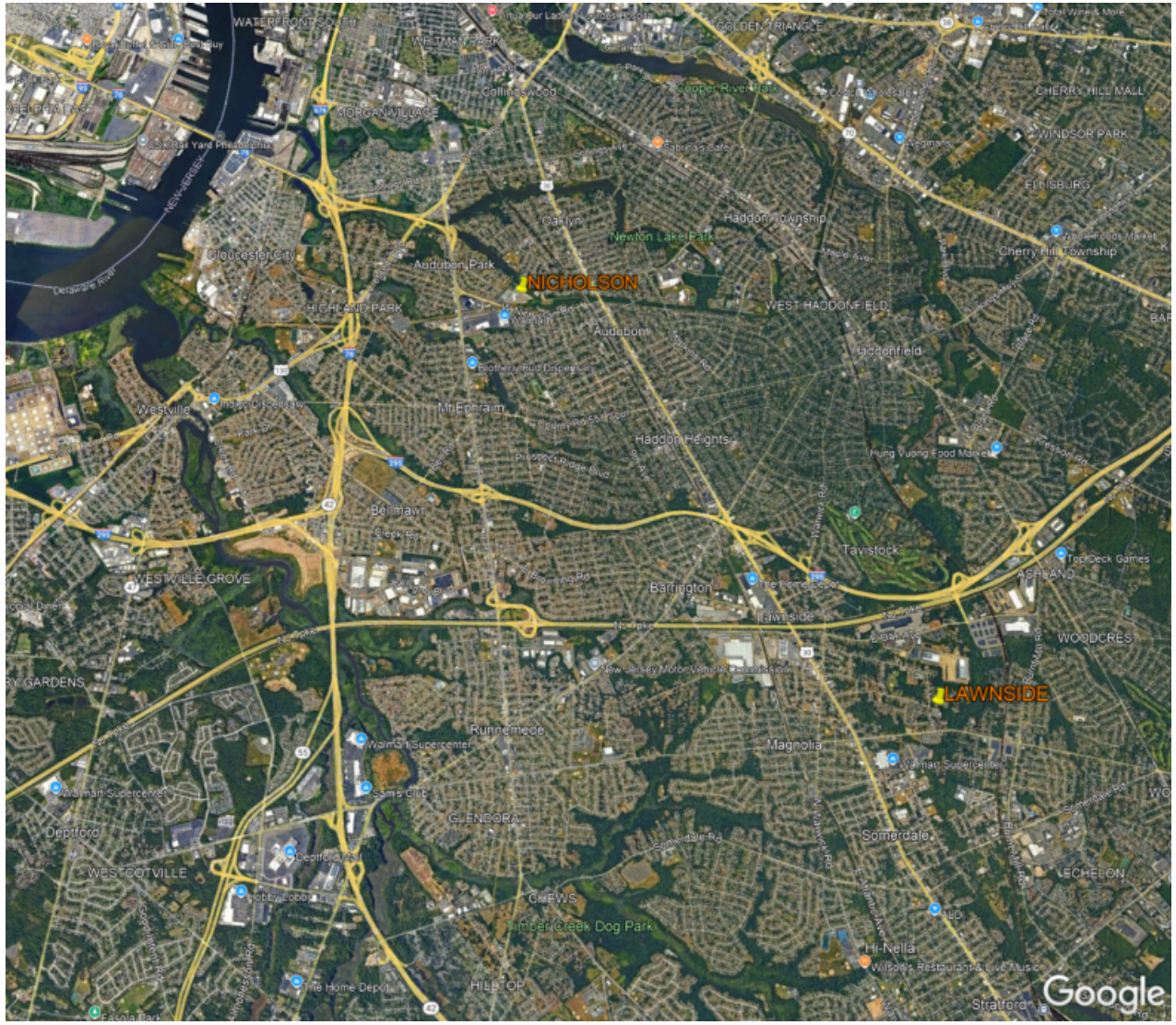
PSE&G 2025 Annual Assumptions

- Equipment Reliability and Condition Assessment

Problem Statement:

- PSE&G 69kV system contains multiple circuits that were built prior to 2006 using standards that are currently outdated resulting in less reliable circuits compared to the circuits built after 2006.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:
    - Lawnside to Nicholson – year built 1973

Model: 2025 Series RTEP 2030 SUM



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
PSE&G Central Territory

Need Number: PSEG-2025-0006

Process Stage: Solutions Meeting 12/11/2025

Previously Presented: Need Meeting 11/13/2025

Supplemental Project Driver:

- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

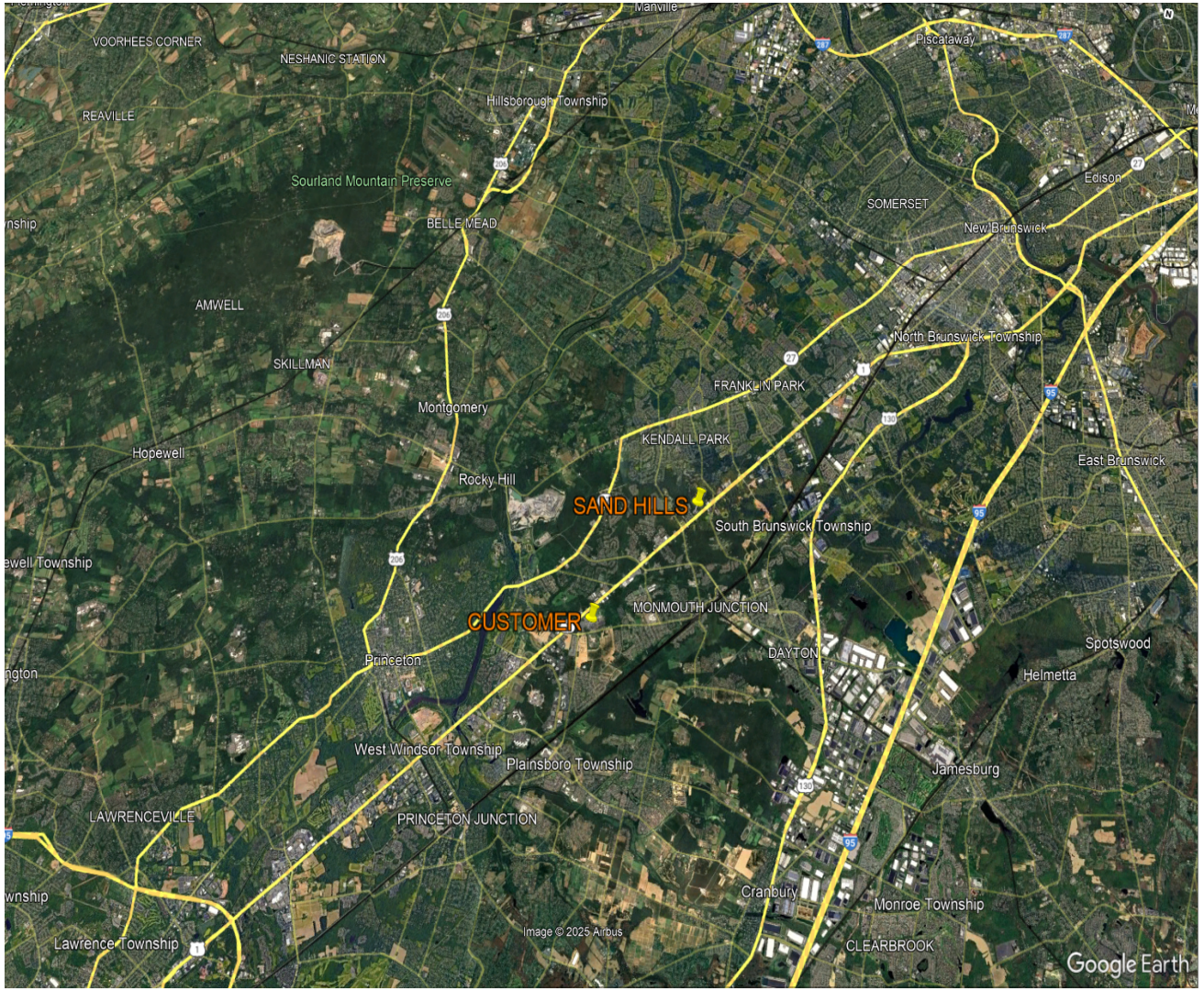
PSE&G 2025 Annual Assumptions

- 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



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

Need Number: PSEG-2025-0006

Process Stage: Solutions Meeting 12/11/2025

Proposed 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
- Estimated Cost: $25.1M

Added Benefits:

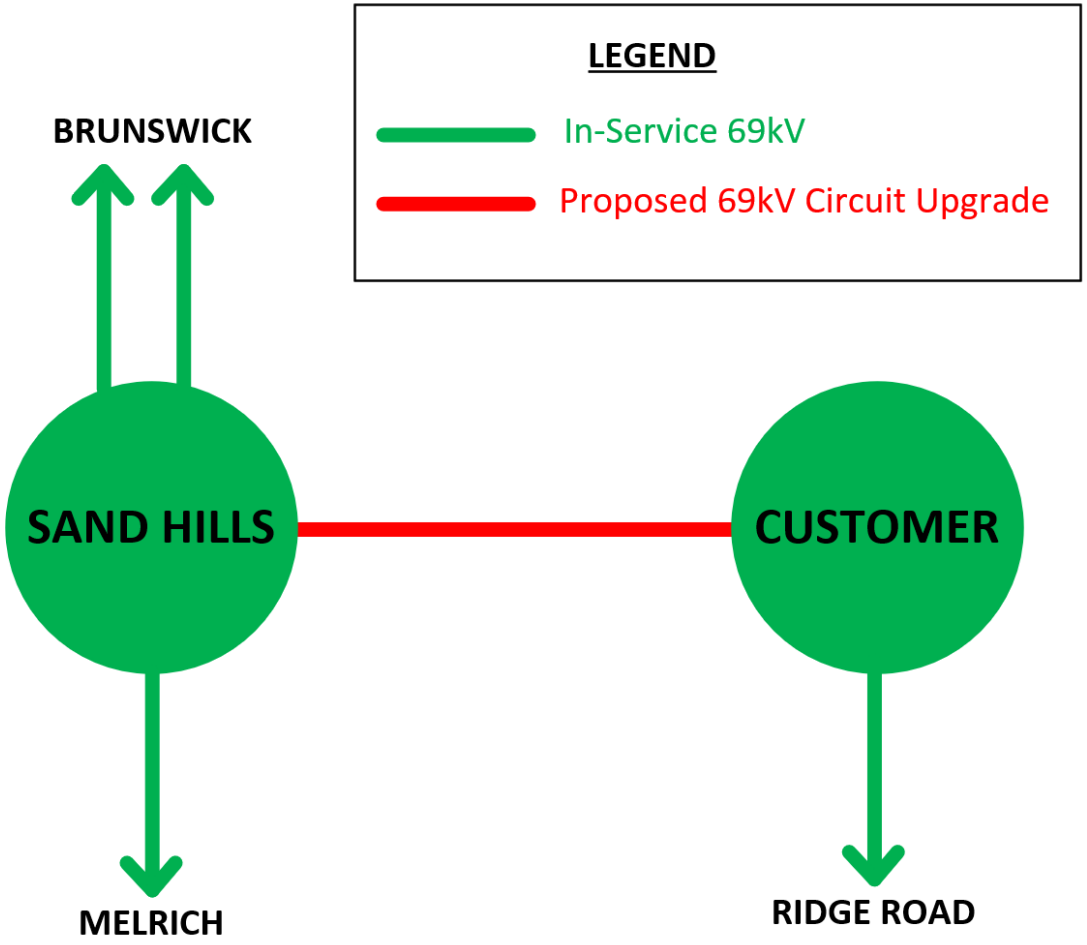
- The new circuit has a higher expected capacity of 135 MVA summer normal and 170 MVA summer emergency

Alternative Considered:

- Replace equipment upon failure – this option is not considered a reliable option and can lead to long outages to customers and does not improve the long-term circuit performance.

Projected In-Service: 12/31/2027

Project Status: Conceptual



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

Need Number: PSEG-2025-0007

Process Stage: Solutions Meeting 12/11/2025

Previously Presented: Need Meeting 11/13/2025

Supplemental Project Driver:

- Equipment Material Condition, Performance and 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 1973

Model: 2025 Series RTEP 2030 SUM

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

Need Number: PSEG-2025-0007

Process Stage: Solutions Meeting 12/11/2025

Proposed Solution:

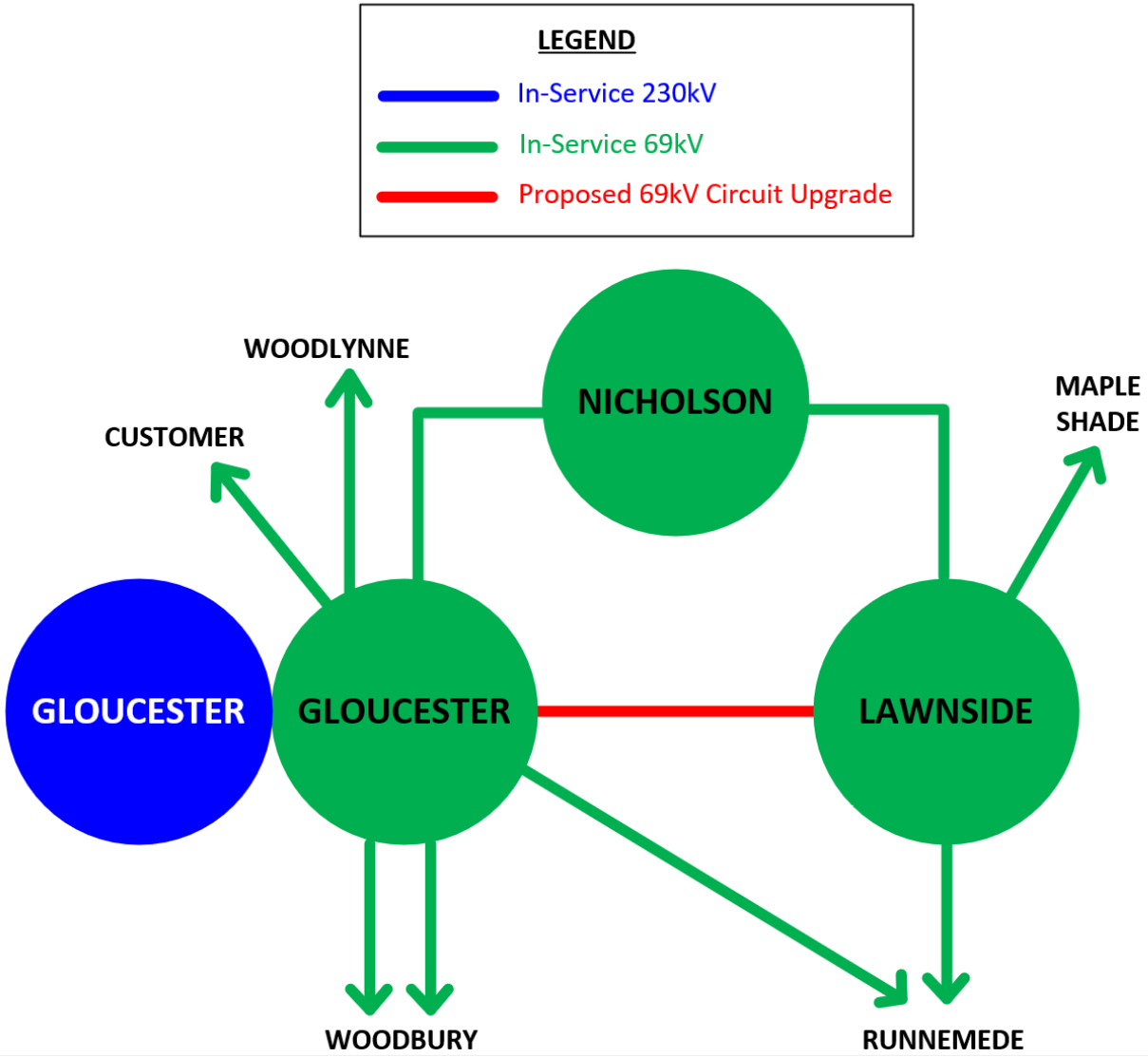
- Demolish existing circuit and rebuild to modern standards following same route
    - Install composite poles
    - Install 1,195 kcmil conductors in overhead sections
    - Install 3,000 kcmil cable in underground sections
- Estimated Cost: $42.8M

Added Benefits:

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

Alternative Considered:

- Replace equipment upon failure – this option is not considered a reliable option and can lead to long outages to customers and does not improve the long-term circuit performance.

Projected In-Service: 12/31/2028

Project Status: Conceptual