

ACE 2023  
Submission of Supplemental Projects for  
Inclusion in the Local Plan

**Need Number: ACE-2022-006**

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 1/18/2023

**Previously Presented:**

Needs Meeting 3/17/2022

Solutions Meeting 8/18/2022

**Project Driver:**

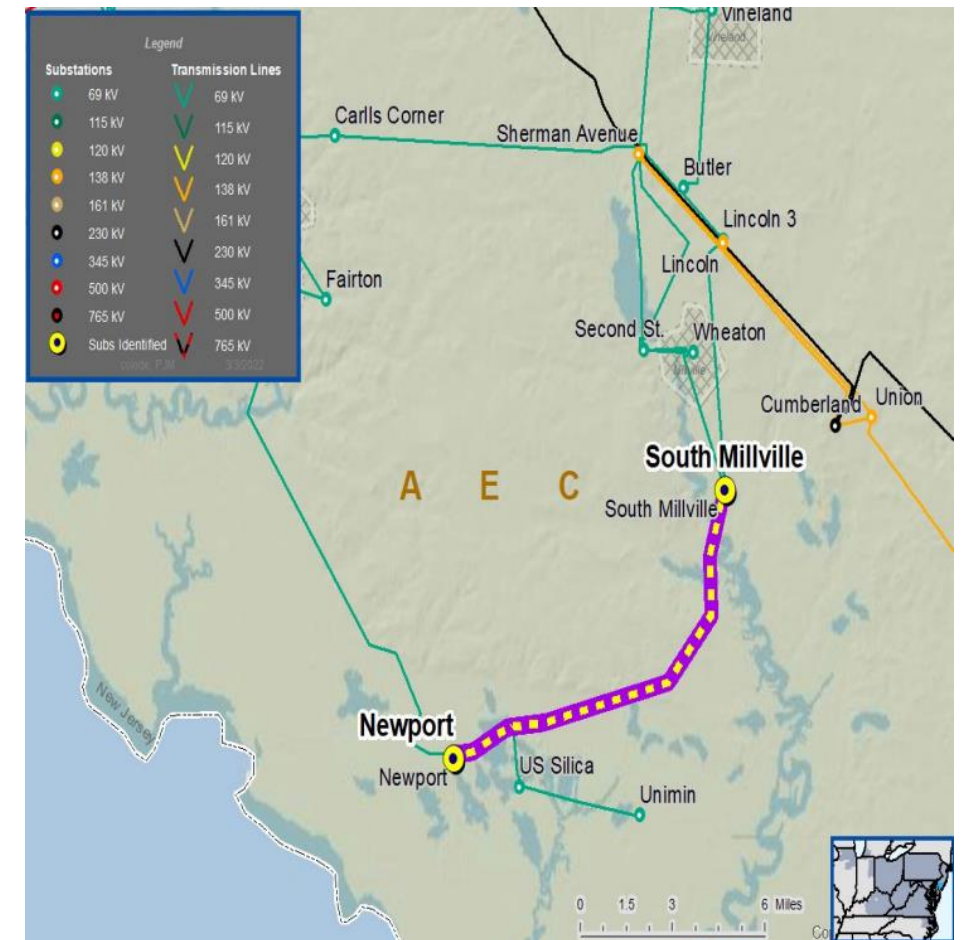
Equipment Material Condition, Performance and Risk, Operational Flexibility and Efficiency

**Specific Assumption Reference:**

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.
- Internal and/or regulatory recommended design guidelines or standards
- Enhancing system functionality, flexibility, visibility, or operability

**Problem Statement:**

Existing 69kV circuit 0762 between Newport and South Millville substations is 70 years old and is in deteriorating condition. This line experienced 11 interruptions (including momentary) since 2018.



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**Selected Solution:**

- Rebuild a 9.8-mile section of 69 kV line 0762 between Newport and South Millville
- The conductor will be upgraded to 795 ACSR and the existing shield wire will be replaced with new OPGW

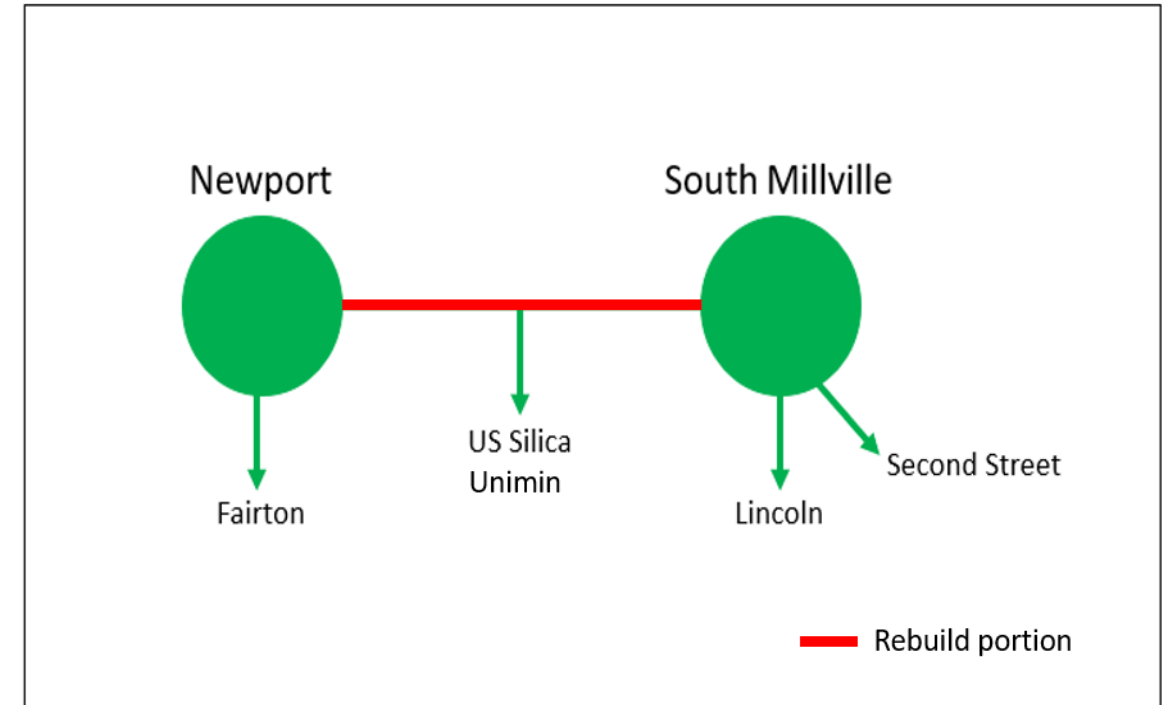
**Estimated Cost:** \$40 M

**Projected In-Service:** 12/31/25

**Supplemental Project ID:** s2823

**Project Status:** Engineering

**Model:** 2027 RTEP



**Need Number: ACE-2022-010**

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 10/2/2023

**Previously Presented:**

Need Meeting 11/17/2022

Solution Meeting 12/14/22

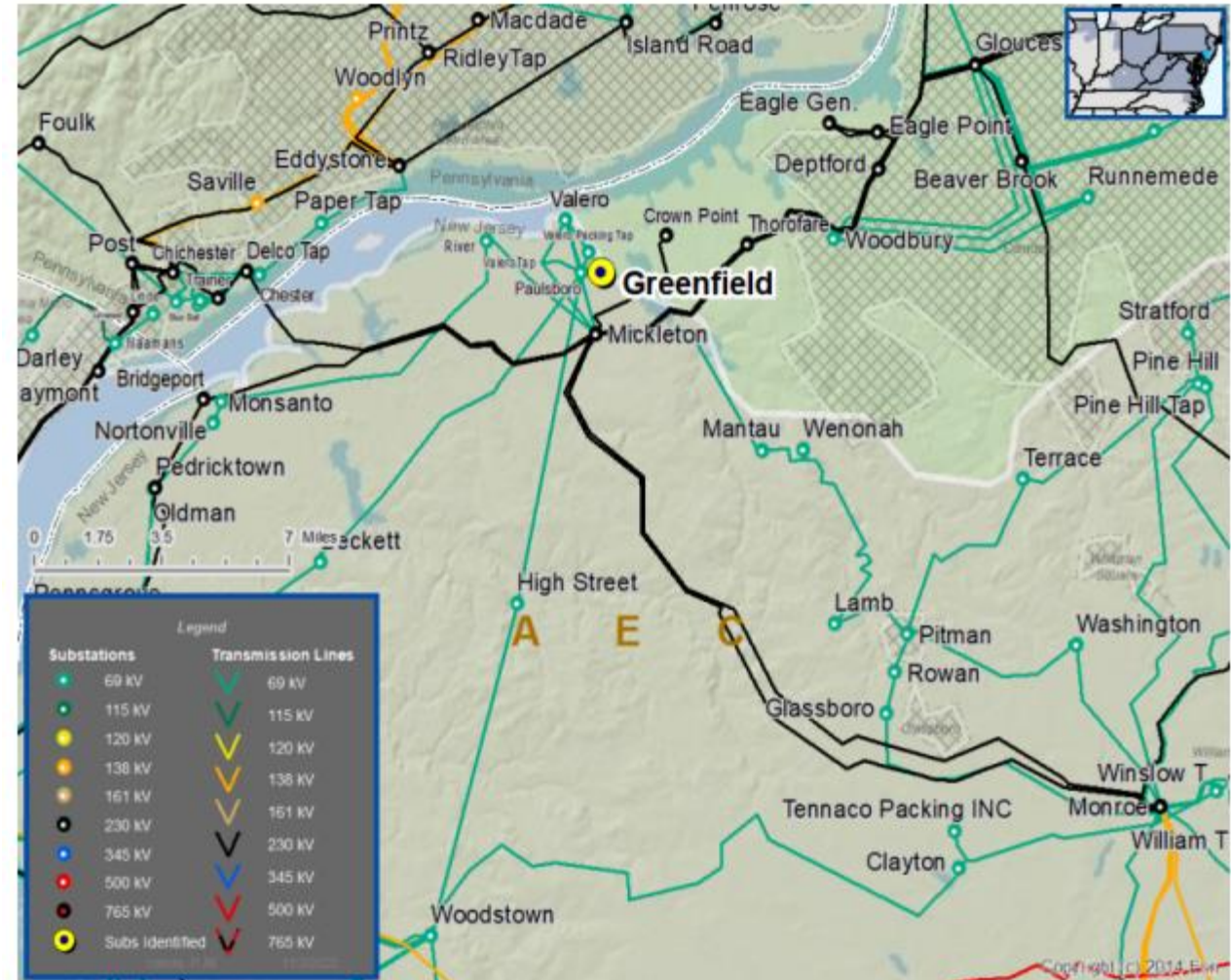
**Project Driver:** Customer Service

**Specific Assumption Reference:**

- New Transmission customer interconnections or modifications to an existing customer

**Problem Statement:**

- Existing customer at Paulsboro Marine Terminal is installing an additional 9.5 MW in the Gloucester County, NJ area. Distribution infrastructure in the area cannot adequately accommodate this load.
  - Existing Load: 4 MW
  - Projected Load: 13.5 MW





## ACE Transmission Zone M-3 Process Paulsboro New Customer Line

**Need Number:** ACE-2022-010

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 10/2/2023

**Proposed Solution:**

- Install a new 69 kV terminal position at Paulsboro substation
- Install new 2.5-mile 69 kV line to service the customer

**Estimated cost:** \$3.2M

**Alternatives Considered:**

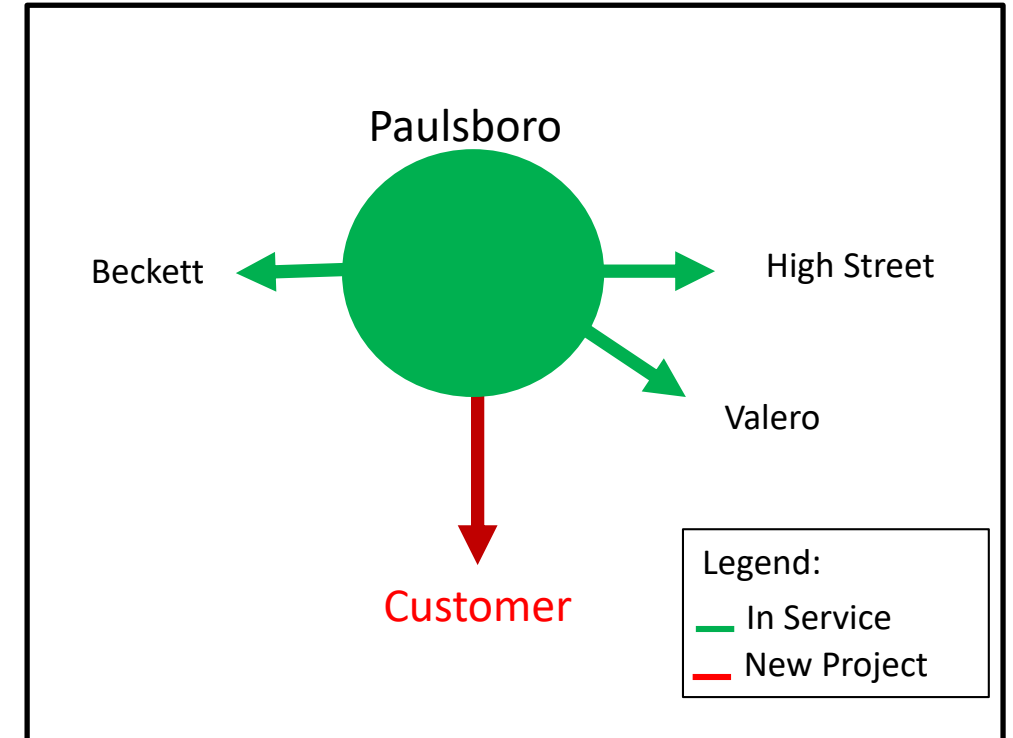
- Feed Customer from 12 kV Distribution System
  - Customers total load cannot be supported by distribution system
    - Do Nothing
    - Unable to serve new customer

**Projected In-Service:** 6/31/2025

**Supplemental Project ID:** s2889

**Project Status:** Conceptual

**Model:** 2027 RTEP



# Revision History

1/18/2023 – V1 – Posted Local plan for s2823

10/2/2023 – V2 – s2889 added to Local Plan