

# Sub Region RTEP Mid-Atlantic Committee AEC Supplemental Projects

June 13, 2022

# 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

**Need Number:** ACE-2022-001

**Process Stage:** Solutions Meeting – 6/13/22

**Previously Presented:** Needs Meeting – 2/17/22

**Project Driver:** Customer Service

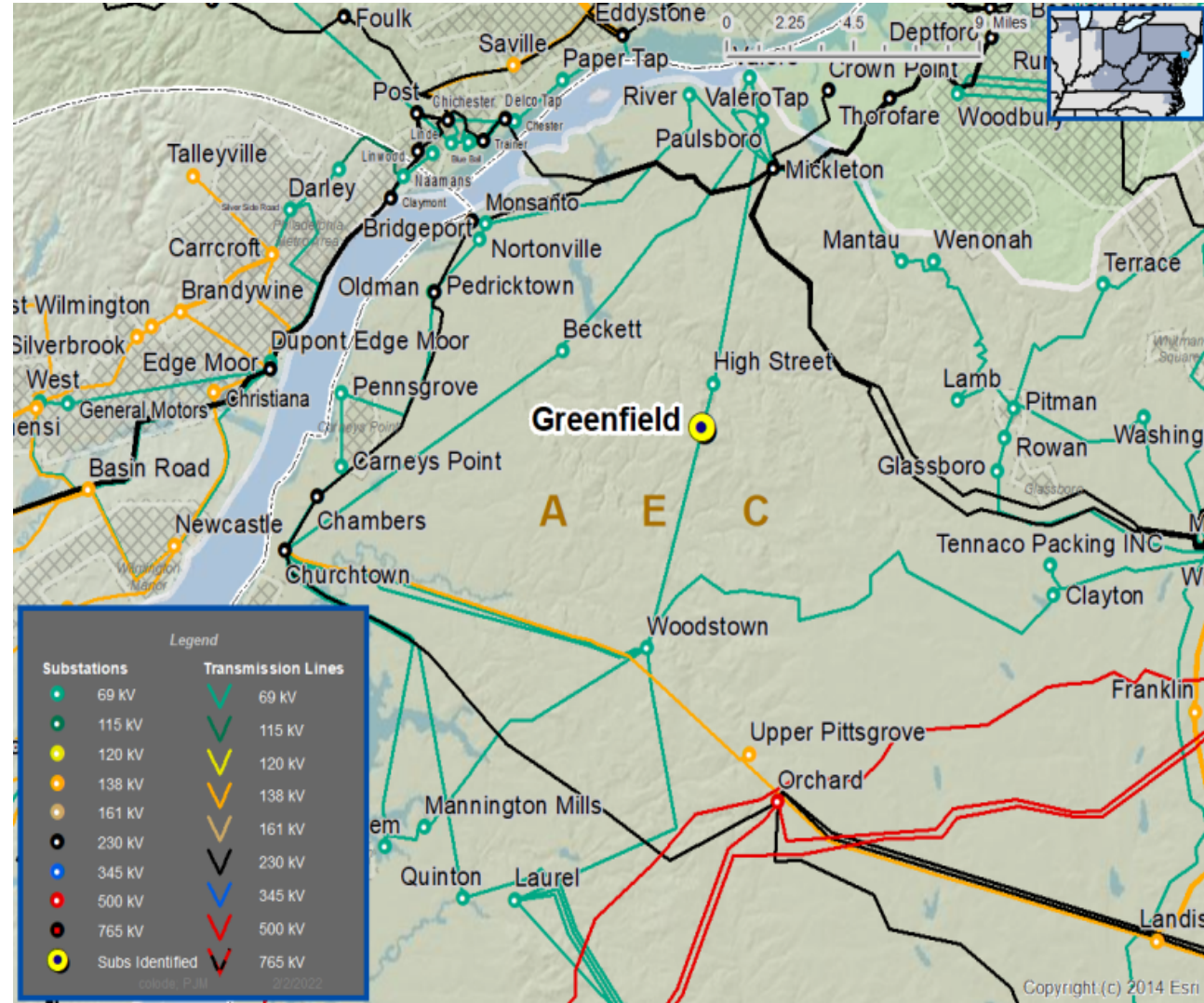
**Specific Assumption Reference:**

New transmission customer interconnections or modification to an existing customer

**Problem Statement:**

Existing customer is installing an additional 9 MW of load in the Gloucester County, NJ area. Distribution infrastructure in the area cannot adequately accommodate this load.

- Existing Load: 9 MW
- Projected Load: 18 MW





# ACE Transmission Zone M-3 Process High Street New Customer Line

**Need Number:** ACE-2022-001

**Process Stage:** Solutions Meeting – 6/13/22

**Proposed Solution:**

- Install new 69 kV terminal position at High Street Substation
- Install new 1.7-mile 69 kV line to service the customer

**Estimated cost:** \$0

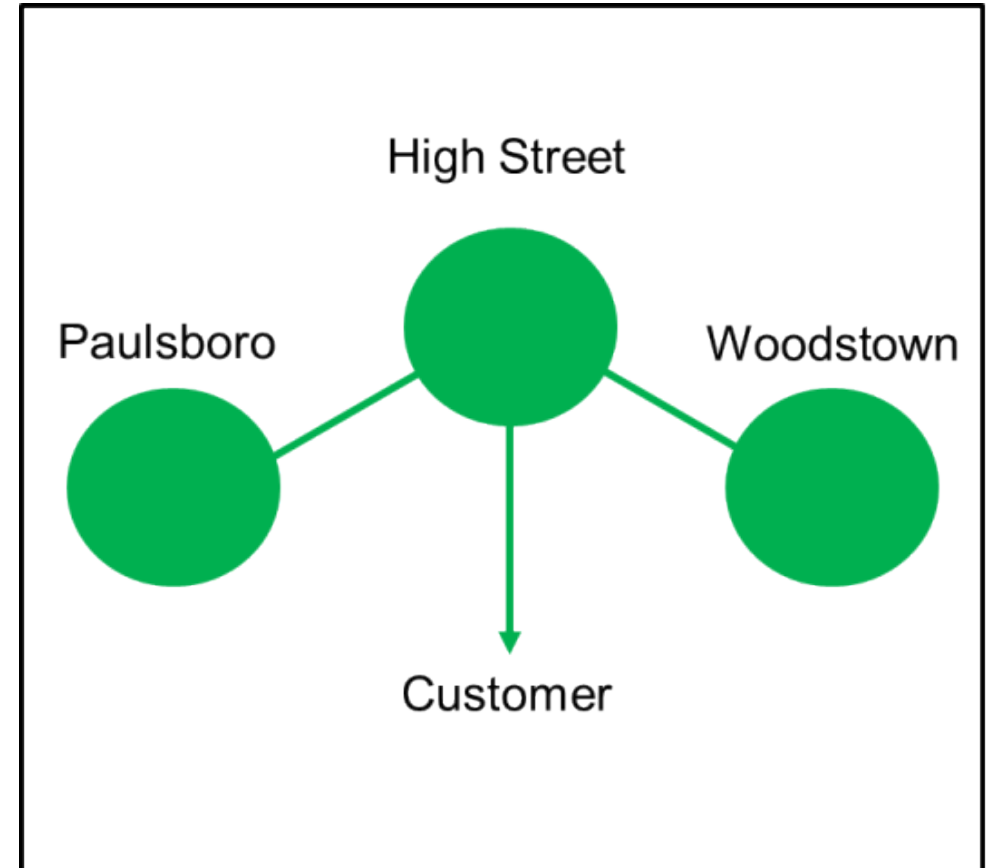
**Alternatives Considered:**

- Build new 2.1-mile 69 kV line from High Street to customer site (\$9M)
  - Higher cost due to longer distance, distribution scope, and permitting/mitigation

**Projected In-Service:** 1/31/23

**Project Status:** Engineering

**Model:** 2026 RTEP



**Need Number:** ACE-2022-008

**Process Stage:** Solution Meeting 6/13/22

**Previously Presented:** Need Meeting 5/16/22

- **Project Driver:** Operational Flexibility and Efficiency. Equipment Material Condition, Performance and Risk

**Specific Assumption Reference:**

- Enhancing system functionality, flexibility, visibility, or operability
- Provide Operations more options to deal with non-standard operating conditions
- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

**Problem Statement:**

- The Newport substation was originally built in 1939 and is in deteriorating condition. A fault anywhere on the 69kv bus would result in the loss of both 69kv sources: Newport–Fairton (0727 Line) & Newport–South Millville (0762 Line), as well as the loss of all 12kV Load.



**Need Number:** ACE-2022-008

**Process Stage:** Solution Meeting 6/13/22

**Proposed Solution:** Reconfigure 69 kV section of Newport substation to accommodate 3 new breakers, a new 69/12 kV 28 MVA transformer, and a Mobile Unit Transformer tie-in to operate as a four-breaker ring bus.

**Estimated cost:** \$ 14 M

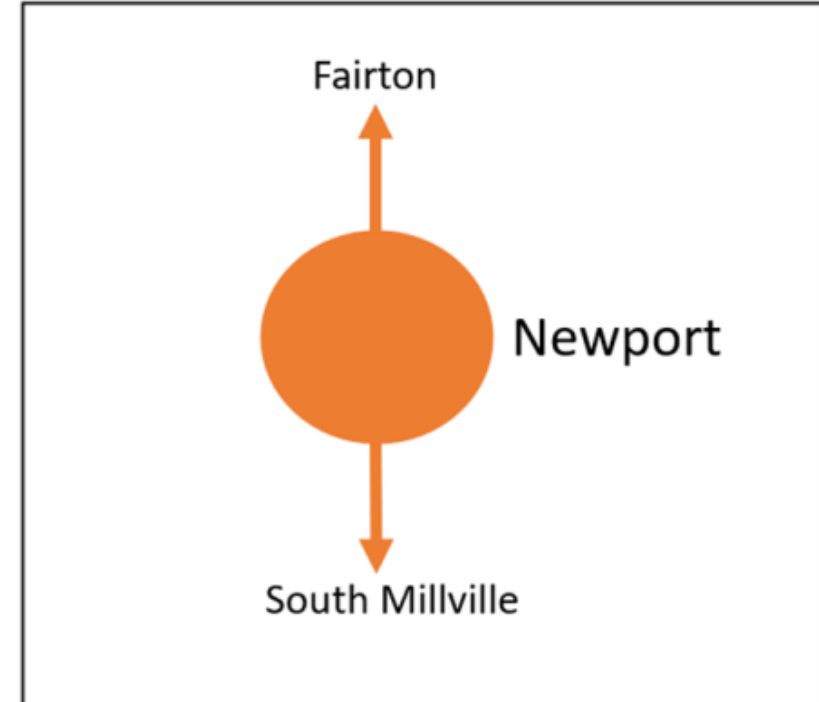
**Alternatives Considered:**

- Install one new 69/12kV, 28 MVA transformer, and tie into existing structures.
  - Existing structures and footings not supportive of new additional equipment.
  - Mobile Unit (MU) would not be able to roll into site.
  - No reliability improvement for 69 kV bus.
- Do Nothing
  - Decreased reliability at Newport substation.
  - Risk for unscheduled service outages.

**Projected In-Service:** 05/31/23

**Project Status:** Engineering

**Model:** 2026 RTEP



# 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

6/3/2022 – V1 – Original version posted to pjm.com