



# Sub Regional RTEP Committee PJM Mid-Atlantic Reliability Update

January 20, 2022

# Second Review

## Baseline Reliability Projects

**Process Stage:** Second Review

**Criteria:** Winter Generator Deliverability

**Assumption Reference:** 2026 RTEP assumption

**Model Used for Analysis:** 2026 RTEP Winter case

**Proposal Window Exclusion:** Substation Equipment and Below 200 kV exclusion

**Problem Statement:** The Preston - Todd 69 kV circuit is overloaded for line fault stuck breaker contingency.

Violations were posted as part of the 2021 Window 1: (FG# GD-W30 )

**Existing Facility Rating:** 82SN/93SE, 96N/105WE MVA

**Proposed Facility Rating:** 95SN/130SE, 125WN/162WE MVA

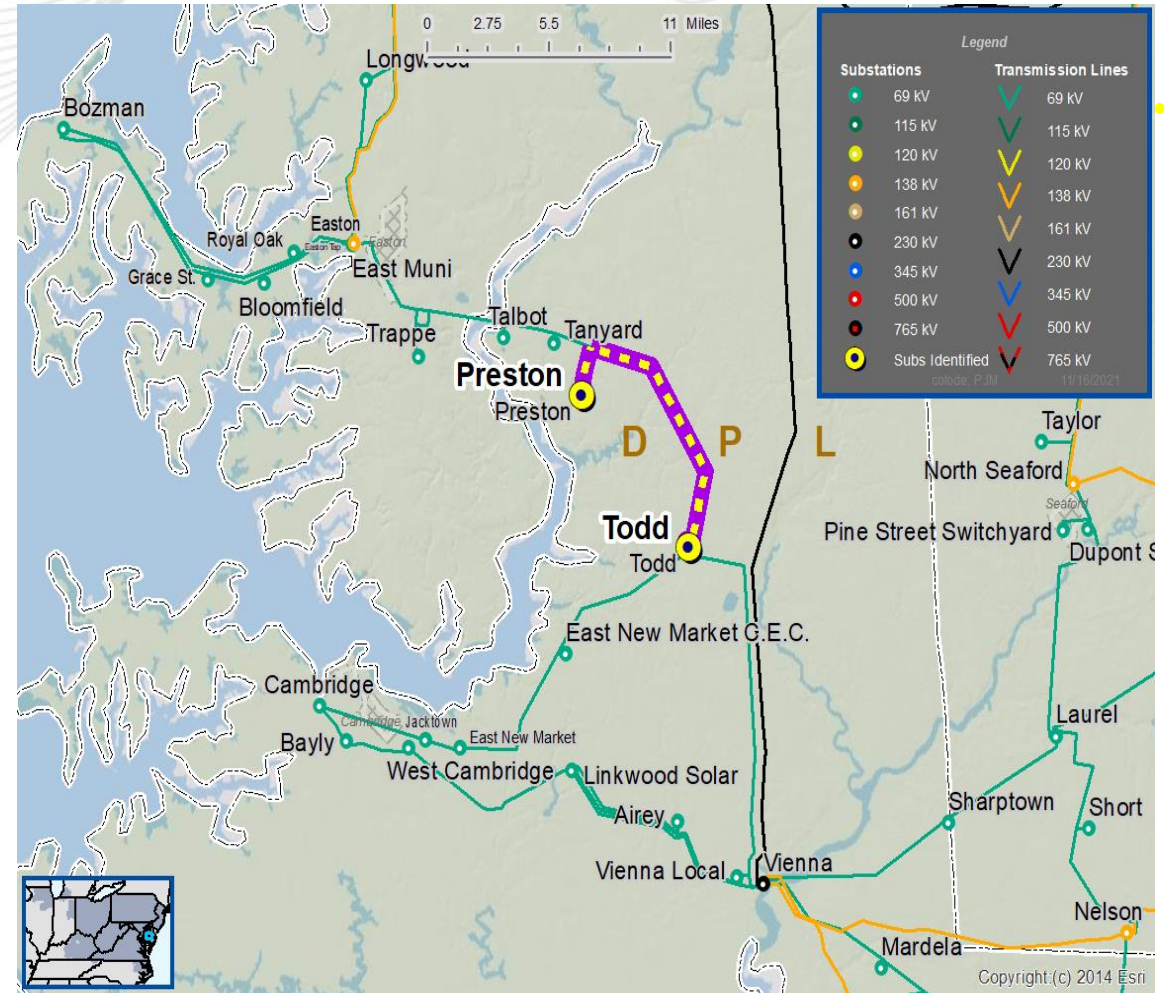
**Recommended Solution:**

Replace the 4/0 SDCU stranded bus with 954 ACSR and a 600 A disconnect switch with a 1200 A disconnect switch on the 6716 line terminal inside Todd substation (on the Preston – Todd 69 kV circuit). (B3688)

**Estimated Cost:** \$0.75 M

**Alternatives** N/A

**Required In-Service:** 6/1/2026



**Process Stage:** Second Review

**Criteria:** PSEG FERC Form 715

**Assumption Reference:** 2026 RTEP assumption

**Model Used for Analysis:** 2026 RTEP Summer case

**Proposal Window Exclusion:** Immediate Need/ Below 200 kV

**Problem Statement:**

A large customer located in the Princeton Area is increasing peak load to 44MW. Per PSE&G's FERC Form 715 criteria, if load exceeds 20 MW and an N-1-1 event would result in a complete loss of electric supply for more than 24 hours, a third source is required.

**Recommended Solution:**

Construct a third 69kV supply line from Penns Neck substation to the West Windsor substation. (B3703)

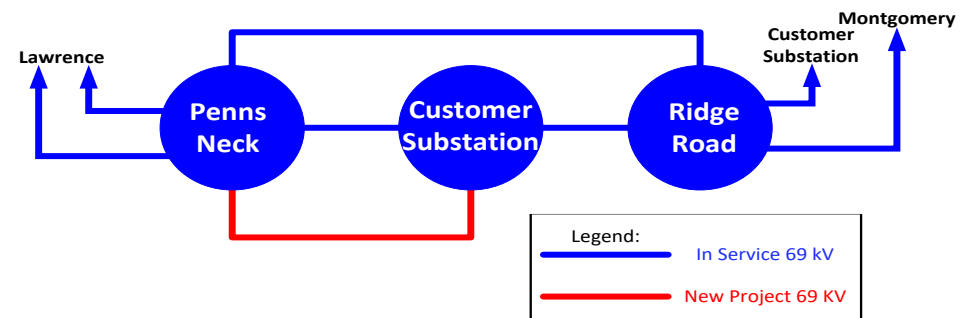
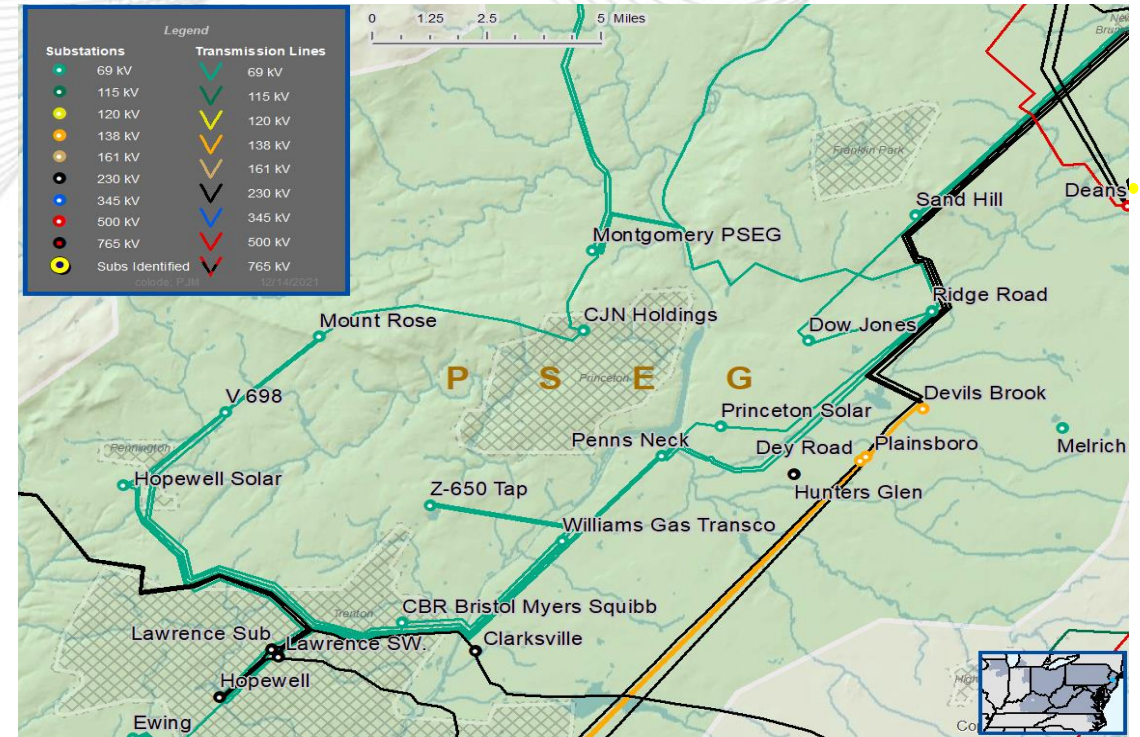
**New Rating:** 95SN/131SE, 126WN/154WE MVA

**Estimated Cost:** \$1.05 M

**Alternatives:**

- A third 69kV supply from Ridge Road would be considerably longer with routing challenges.
- There is no transmission in the area for a potential alternate supply.

**Required In-Service:** 1/1/2023



# Questions?



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2022

- The Next 2022 Mid-Atlantic SRRTEP meetings are as followed
- 2/17
- 3/17
- 4/19
- 5/18
- 6/13



# Revision History

V1 – 1/10/2022 – Original slides posted

V2 – 1/11/2022 – Added slide # 3 (DPL project)