



# Subregional RTEP Committee – Mid-Atlantic PECO Supplemental Projects

March 16, 2023

# 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



# M-3 Process PECO Transmission Zone

## Marcus Hook 69 kV Circuit Breaker Replacement

**Need Number:** PE-2023-006

**Process Stage:** Solutions Meeting 3/16/23

**Previously Presented:** Need Meeting 2/16/23

**Project Driver:**

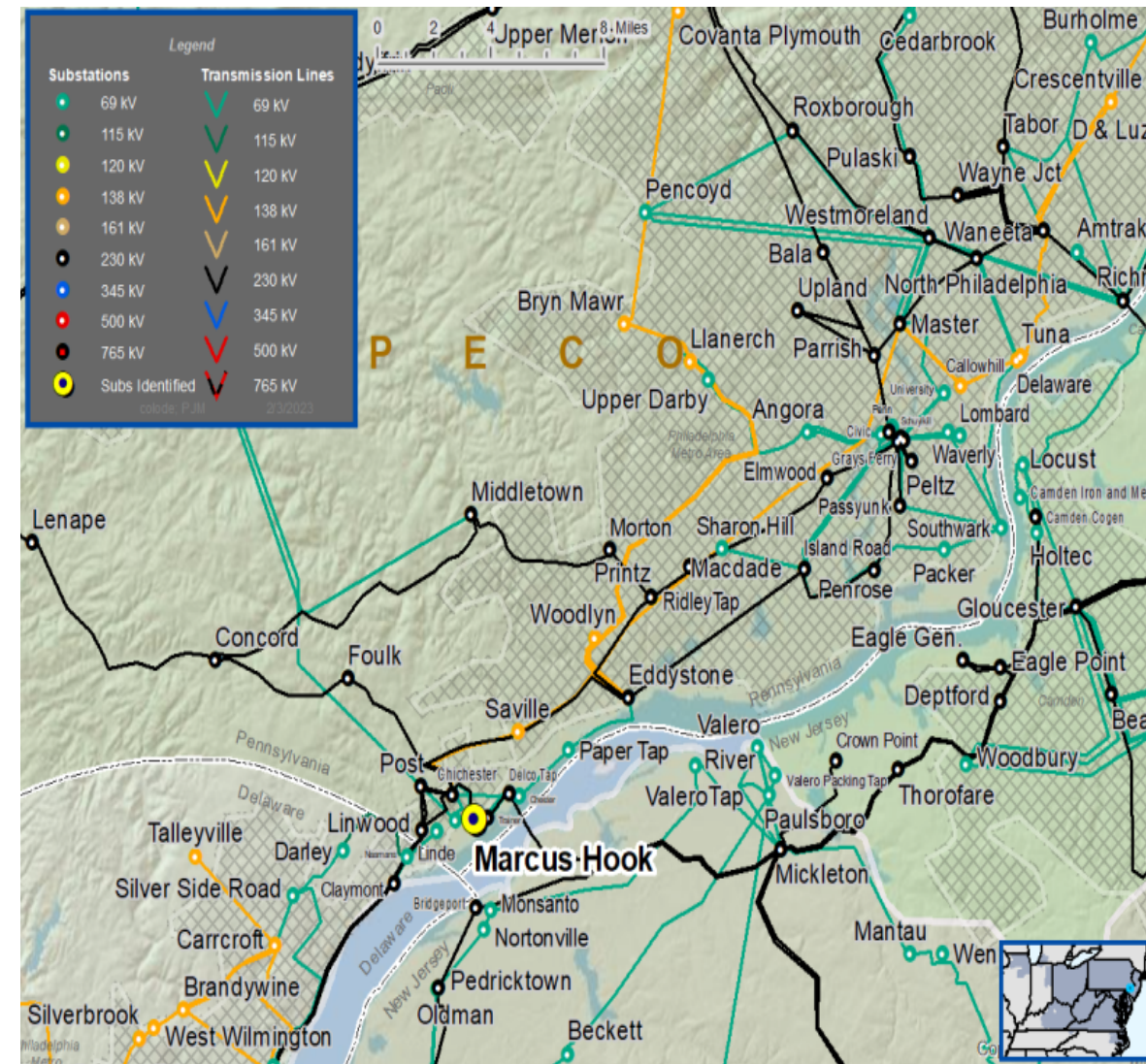
Equipment Material Condition, Performance, and Risk

**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.

**Problem Statement:**

Marcus Hook 69 kV oil circuit breaker #200, installed in 1956, is in deteriorating condition, has lack of replacement parts, and elevated maintenance cost.





# M-3 Process PECO Transmission Zone Eddystone 138 kV Circuit Breaker Replacement

**Need Number: PE-2023-007**

**Process Stage:** Solution Meeting 3/16/2023

**Previously Presented:** Need Meeting 2/16/23

**Project Driver:**

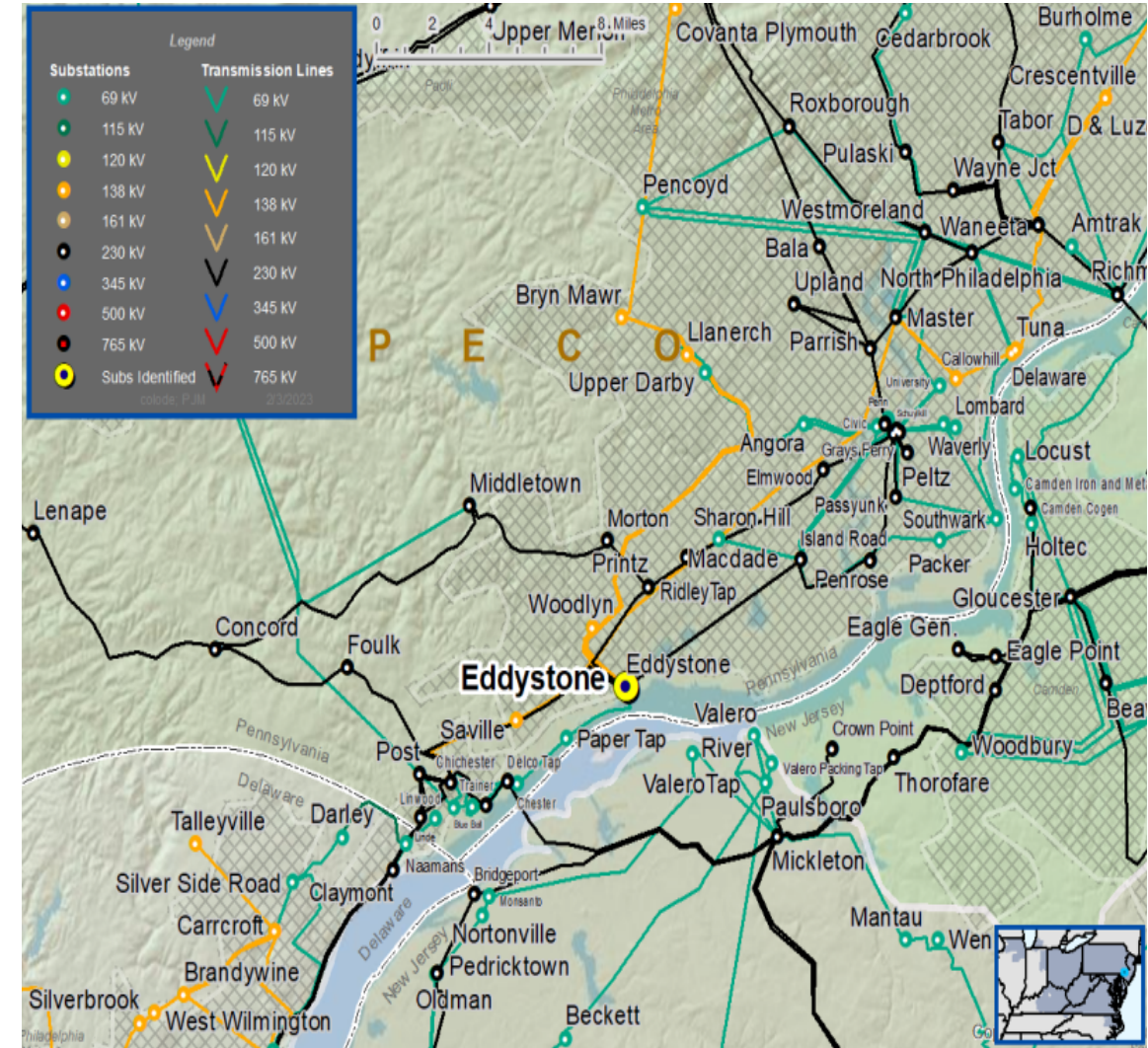
Equipment Material Condition, Performance, and Risk

**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.

**Problem Statement:**

Eddystone 138 kV oil circuit breaker #55, installed in 1958, is in deteriorating condition, has lack of replacement parts, and elevated maintenance cost.





# M-3 Process PECO Transmission Zone Eddystone 138 kV Circuit Breaker Replacement

**Need Number: PE-2023-007**

**Process Stage:** Solution Meeting 3/16/23

**Proposed Solution:**

Replace Eddystone 138 kV circuit breaker #55

Existing rating 1600A, 42kA

New rating 3,000A and 63kA

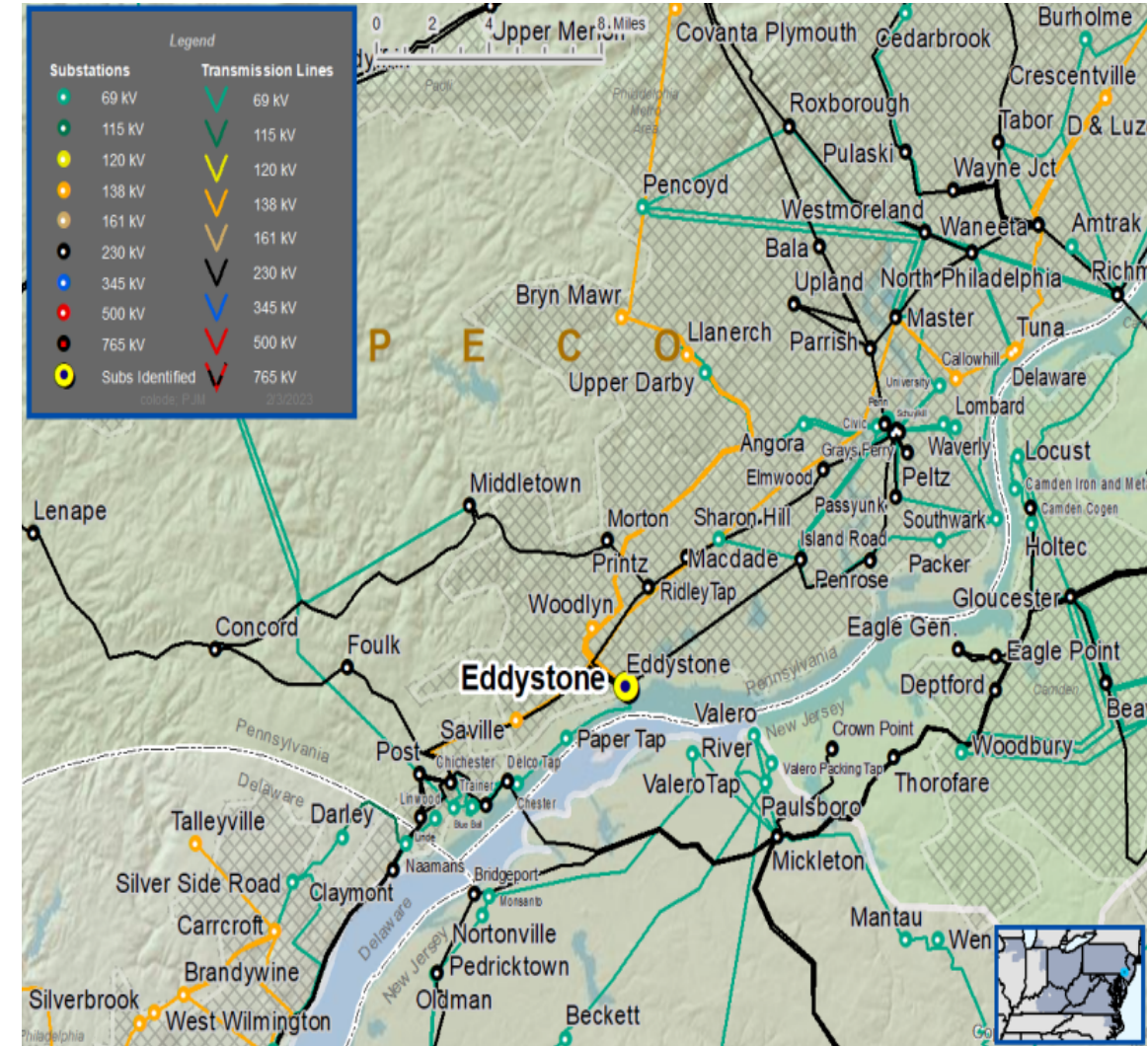
**Estimated cost:** \$0.85M

**Alternatives Considered:** No feasible alternatives

**Projected In-Service:** 12/1/2023

**Project Status:** Engineering

**Model:** 2027 RTEP



**Need Number: PE-2023-008**

**Process Stage:** Solution Meeting 3/16/2023

**Previously Presented:** Need Meeting 2/16/23

**Project Driver:**

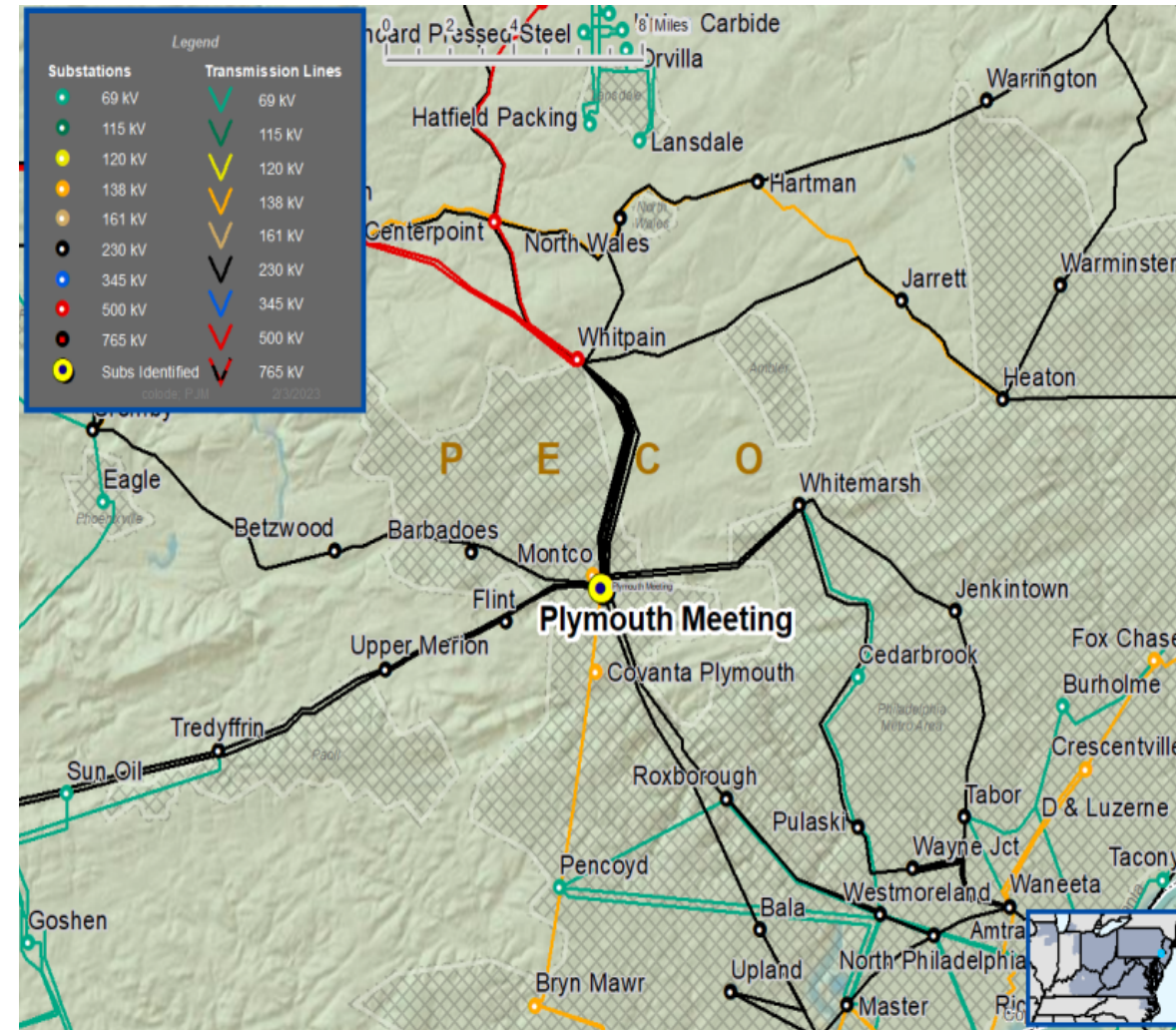
Equipment Material Condition, Performance, and Risk

**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.

**Problem Statement:**

- Plymouth Meeting 138 kV oil circuit breaker #375, installed in 1965 is in deteriorating condition, has lack of replacement parts, and elevated maintenance cost.
- 138kV line 130-37 (Plymouth Meeting – Cleveland Cliffs) has obsolete relays. They are being phased out of the system.





# M-3 Process PECO Transmission Zone

## Plymouth Meeting 138 kV Circuit Breaker/Line 130-37 Relay Replacement

**Need Number:** PE-2023-008

**Process Stage:** Solution Meeting 3/16/23

**Proposed Solution:**

Upgrade line relays, and communication on 138kV line 130-37 (Plymouth Meeting – Cleveland Cliffs), and replace #375 Circuit Breaker at Plymouth Meeting

Circuit Breaker #375 Ratings:

Existing rating 1600A, 42kA

New rating 3000A and 63kA

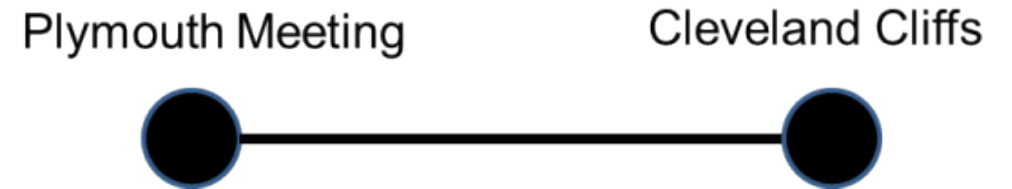
**Estimated cost:** \$0.65

**Alternatives Considered:** No feasible alternatives

**Projected In-Service:** 11/5/2023

**Project Status:** Engineering

**Model:** 2027 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

3/6/2023 - V1 – Original version posted to pjm.com