



# Subregional RTEP Committee – Mid-Atlantic PECO Supplemental Projects

April 19, 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: PE-2022-003**

**Process Stage:** Solution Meeting 4/19/22

**Previously Presented:** Need Meeting 3/17/2022

**Project Driver:**

- Customer Service

**Specific Assumption Reference:**

- System configuration changes due to new or expansion of existing distribution substations

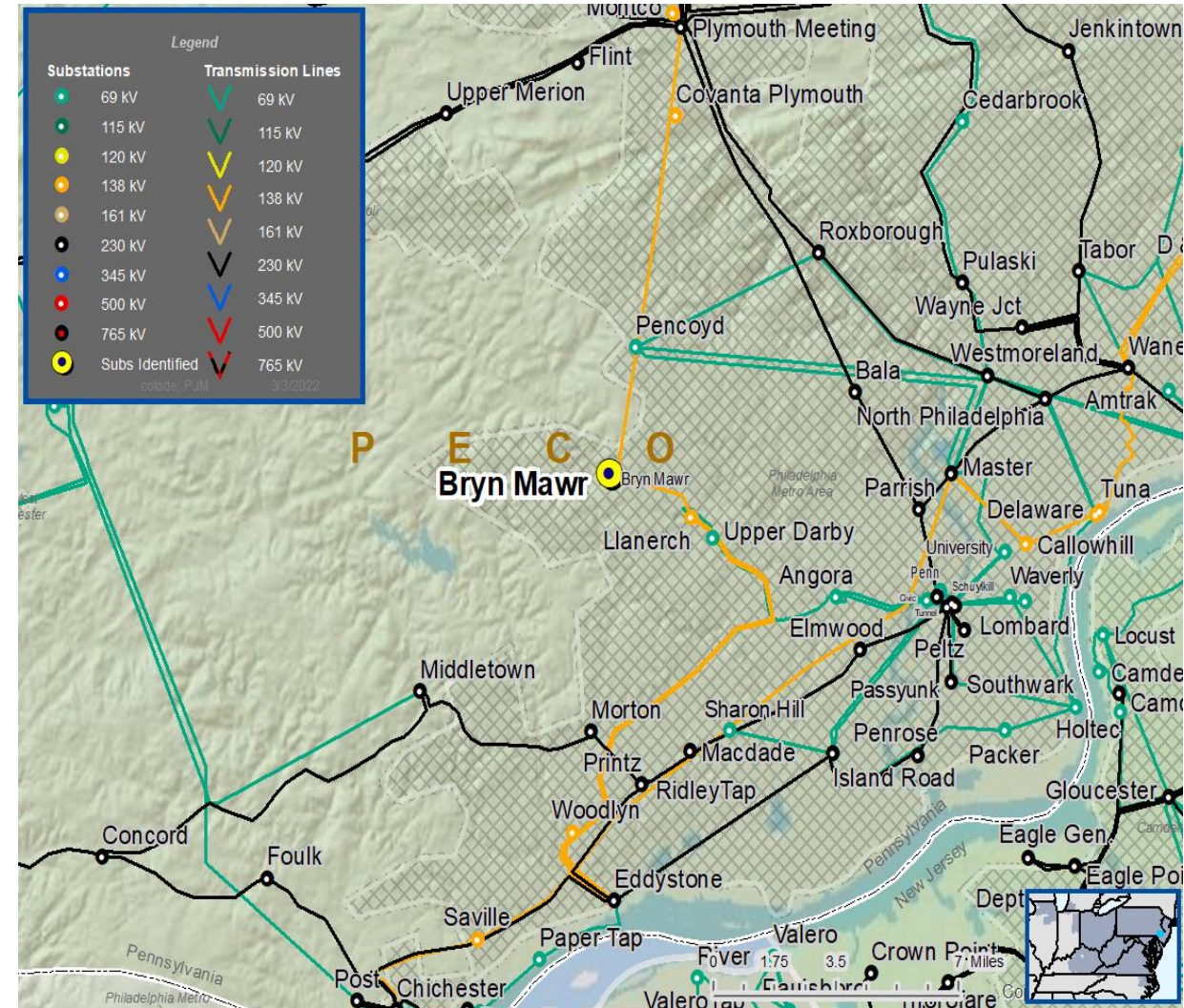
**Problem Statement:**

- Distribution Capacity Planning needs to increase transformer capacity at Bryn Mawr Substation in order to relieve nearby 13 kV substations and allow for the retirement of 34/4 kV units in the surrounding area. A total of approximately 22 MVA will be added to substation consisting of load transfers from other substations and some 34/4 kV unit retirements.

Existing load = 65 MVA

Added load = 22 MVA [Expected 6/1/25]

Total load = 87 MVA





# M-3 Process PECO Transmission Zone Bryn Mawr 3<sup>rd</sup> 138/13 kV Transformer

**Need Number: PE-2022-002**

**Process Stage:** Solution Meeting 4/19/22

**Proposed Solution:**

- Install 3<sup>rd</sup> Bryn Mawr 138/13 kV 62 MVA transformer with high side breaker
- Install two 3000A 63kA 138 kV breakers on the Bryn Mawr straight bus to create two double breaker bus ties
- Install two 3000A 63kA 138 kV line breakers on 130-35 & 130-36 lines at Bryn Mawr end
- Issue ratings for 130-42 Eddystone – Llanerch 138 kV line as a 2-section line

| <u>Existing ratings (MVA):</u>                | <u>SN/SE</u> | <u>WN/WE</u> |
|---|--------------|--------------|
| 130-42 Eddystone - Llanerch                   | 225/279      | 239/288      |
| <u>New ratings as a 2-segment line (MVA):</u> | <u>SN/SE</u> | <u>WN/WE</u> |
| 130-42 Eddystone – Eddystone 50 Tap           | 310/388      | 406/468      |
| 130-42 Eddystone 50 Tap - Llanerch            | 225/279      | 239/288      |

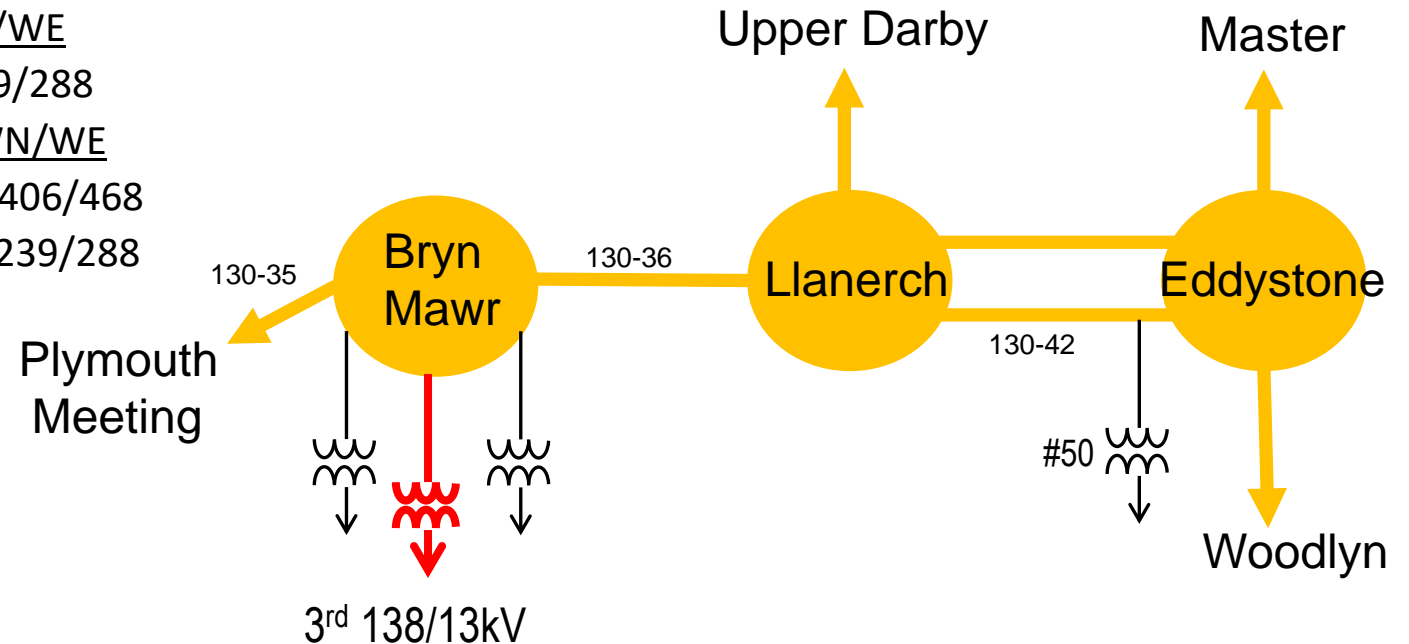
**Estimated cost:** Transmission portion is \$3M

**Alternatives Considered:** None

**Projected In-Service:** 6/1/25

**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

4/8/2022 - V1 – Original version posted to pjm.com