

# Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

January 16, 2025

# 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:** ME-2024-014

**Process Stage:** Solution Meeting 1/16/2025

**Previously Presented:** Needs Meeting 5/16/2024

**Project Driver:**

*Operational Flexibility and Efficiency*

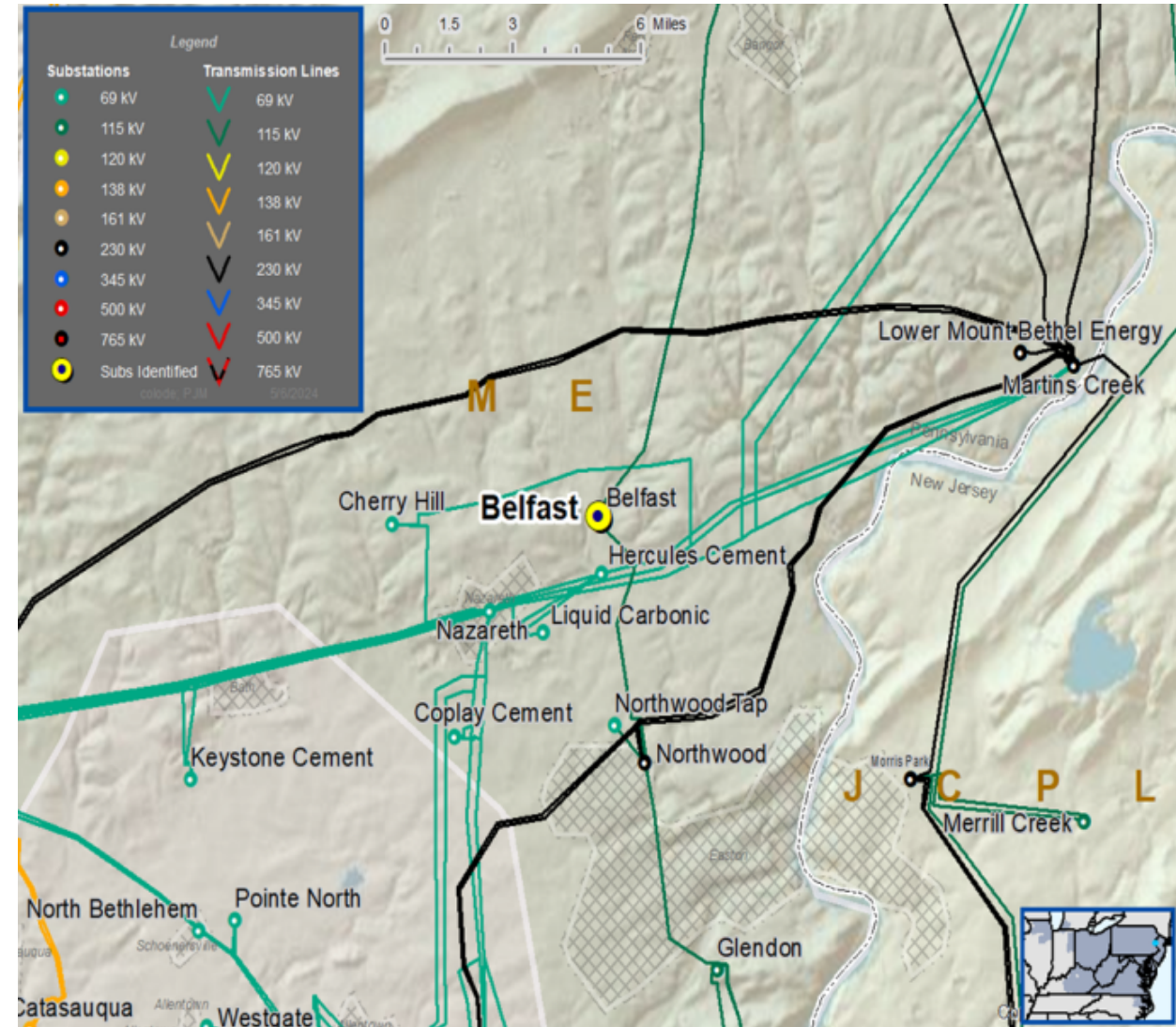
**Specific Assumption Reference:**

System Performance Projects

- Add/Expand Bus Configuration
- Load at risk in planning and operational scenarios
- Reduce the amount of exposed potential local load loss during contingency conditions
- Eliminate simultaneous outages to multiple networked elements

**Problem Statement:**

Belfast Substation serves approximately 78 MW of load and 12,100 customers. A transformer fault, bus fault, or stuck breaker would result in a complete outage of the substation.



**Need Number:** ME-2024-014

**Process Stage:** Solutions Meeting 1/16/2025

**Proposed Solution:**

- Construct a four breaker 115 kV ring bus at Belfast Substation:
  - Install four 115 kV circuit breakers, disconnect switches, line traps, and relaying.
  - Update relaying at North Bangor and Glendon substations.
  - Re-terminate the North Bangor and Northwood 115 kV terminals at Belfast Substation.

**Alternatives Considered:**

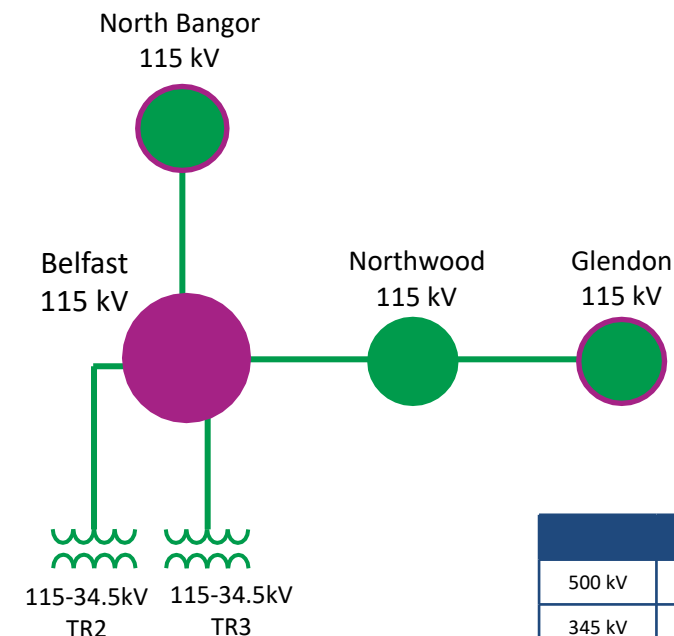
- Maintain existing configuration with elevated risk of load loss under contingency scenarios.











**Estimated Project Cost:** \$14.3M

**Projected In-Service:** 6/1/2028

**Project Status:** Conceptual

**Model:** 2024 RTEP model for 2029 Summer (50/50)



Legend	
500 kV	
345 kV	
230 kV	
138 kV	
115 kV	
69 kV	
46 kV	
34.5 kV	
23 kV	
New	

# 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

1/6/2025 – V1 – Original version posted to pjm.com