Transmission Expansion Advisory Committee
FirstEnergy Supplemental Projects

MetEd Transmission Zone

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

MetEd Transmission Zone M-3 Process
Foxhill 230 kV Ring Bus, PA

Need Number: ME-2024-007

Process Stage: Solution Meeting – TEAC – 07/07/2026

Previously Presented: Need Meeting – TEAC – 04/30/2024

Project Driver:

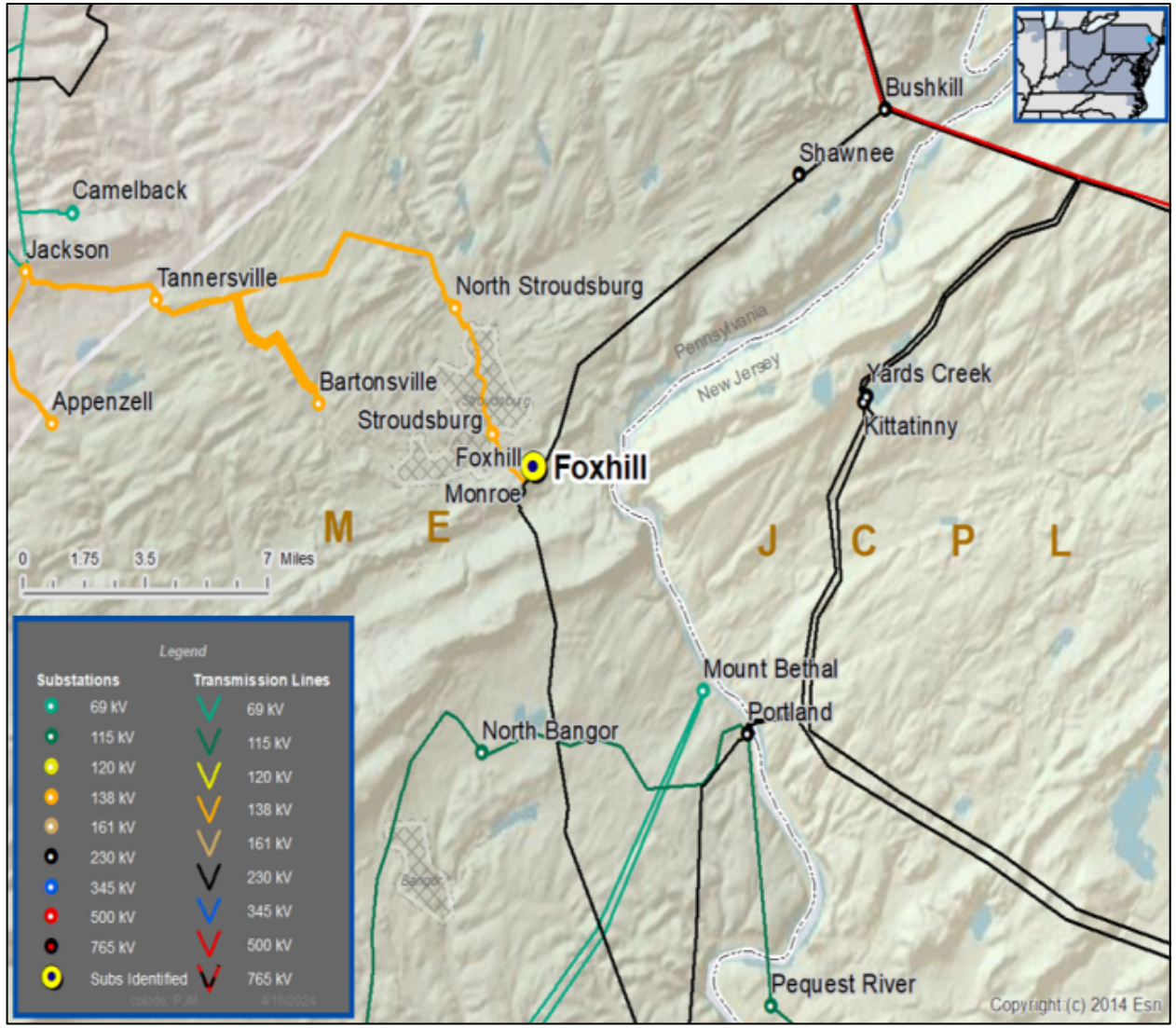
Operational Flexibility and Efficiency

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:

Foxhill Substation has a 230 kV straight bus configuration with terminals to two 230 kV transmission lines and two 230-34.5 kV transformers. A faulted breaker would result in an outage to the entire station. Foxhill Substation serves approximately 50 MW of load and 5,100 customers.



MetEd Transmission Zone M-3 Process
Foxhill 230 kV Ring Bus, PA

Need number: ME-2024-007

Process Stage: Solution Meeting – TEAC – 07/07/2026

Proposed Solution:

Convert Foxhill Substation into a four-breaker 230 kV ring bus.

At Shawnee Substation: Revise relay settings.

At Monroe Substation: Revise relay settings.

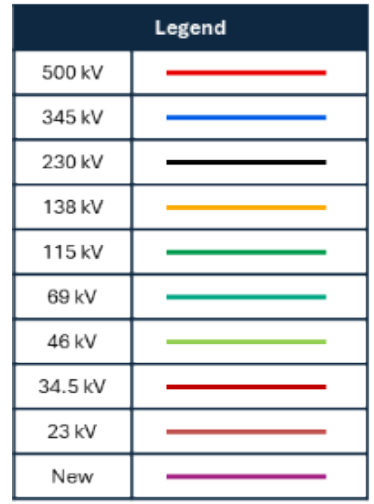
Ratings:

- Foxhill - Shawnee 230 kV Line:
  - Before Proposed Solution: 494 / 630 / 545 / 685 MVA (SN/SE/WN/WE)
  - After Proposed Solution: 494 / 630 / 545 / 685 MVA (SN/SE/WN/WE)
- Foxhill - Monroe 230 kV Line:
  - Before Proposed Solution: 634 / 796 / 734 / 906 MVA (SN/SE/WN/WE)
  - After Proposed Solution: 634 / 796 / 734 / 906 MVA (SN/SE/WN/WE)

Alternatives Considered:

Maintain the existing configuration with risk of customer interruptions under contingency scenarios.

Estimated Project Cost:	$11.80M
Projected In-Service:	12/21/2029
Project Status:	Conceptual
Model:	2024 RTEP model for 2029 Summer (50/50)



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

06/26/2026 – V1 – Original version posted to pjm.com
07/21/2026 – V2 – Corrected transformer voltage on Slide 3