# Subregional RTEP Committee – Western
# FirstEnergy Supplemental Projects

## ATSI Transmission Zone

September 18, 2026

# Needs

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

# ATSI Transmission Zone M-3 Process
# New Customer Request

**Need Number:** ATSI-2026-059
**Process Stage:** Need Meeting 09/18/2026
**Project Driver:** Customer Service

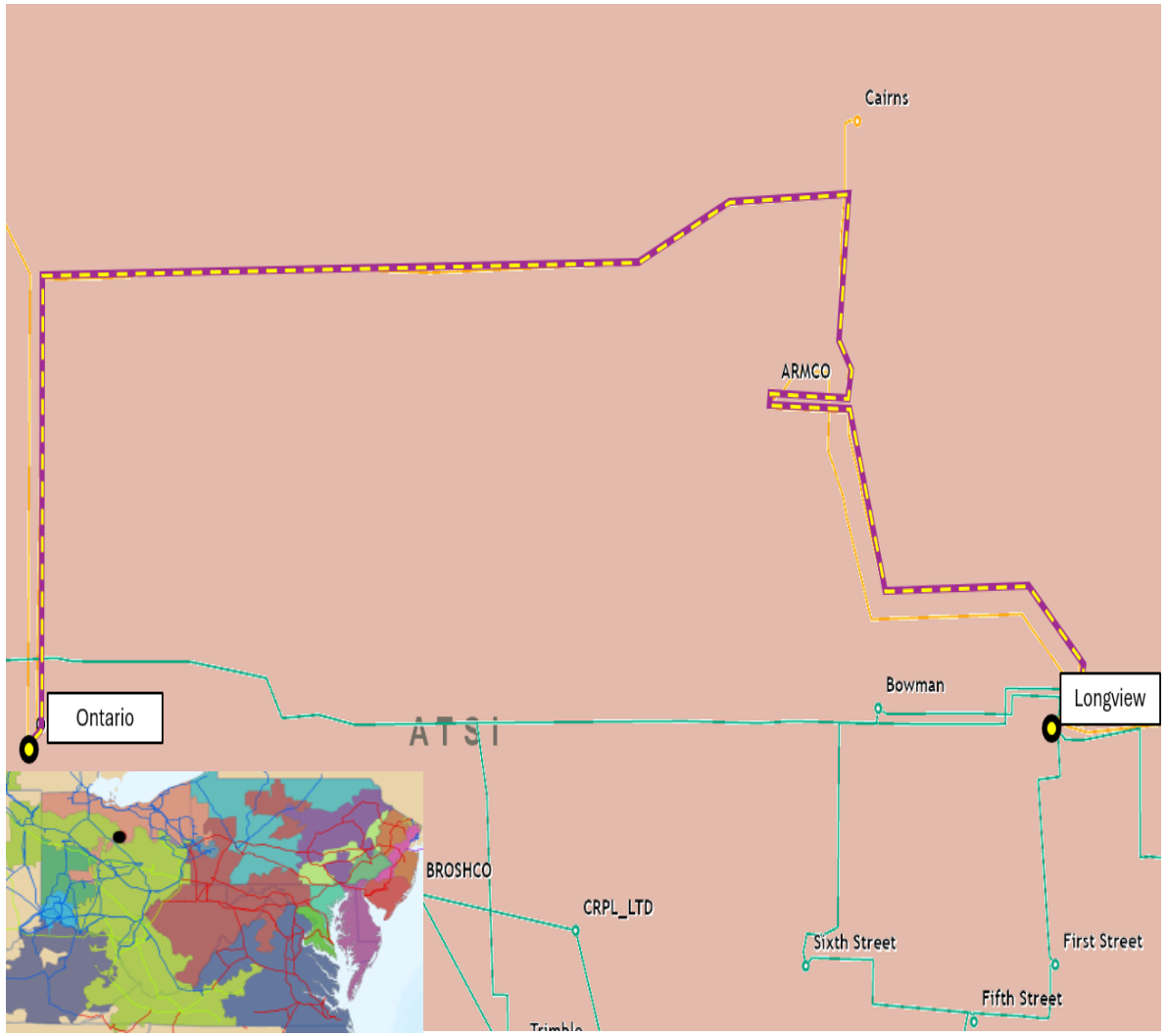
**Specific Assumption References:**

New customer connection requests will be evaluated per FirstEnergy's "Requirements for Transmission Connected Facilities" document and "Transmission Planning Criteria" document.

**Problem Statement:**

New Customer Connection - A new customer requested 138 kV service for load of approximately 10 MW near the Longview - Ontario 138 kV Line. The request is approximately 5.5 miles from Ontario Substation.

Requested in-service date is 11/19/2027.



# ATSI Transmission Zone M-3 Process
# New Customer Request

**Need Number:** ATSI-2026-060
**Process Stage:** Need Meeting 09/18/2026
**Project Driver:** Customer Service

**Specific Assumption References:**

New customer connection requests will be evaluated per FirstEnergy's "Requirements for Transmission Connected Facilities" document and "Transmission Planning Criteria" document.

**Problem Statement:**

New Customer Connection - a new customer requested 69 kV service for load of approximately 22 MW near the Chittenden Substation. The request is at the Chittenden Substation.

Requested in-service date is 11/19/2027.

# ATSI Transmission Zone M-3 Process
# New Customer Request

**Need Number:** ATSI-2026-061
**Process Stage:** Need Meeting 09/18/2026
**Project Driver:** Customer Service

**Specific Assumption References:**

New customer connection requests will be evaluated per FirstEnergy's "Requirements for Transmission Connected Facilities" document and "Transmission Planning Criteria" document.

**Problem Statement:**

New Customer Connection - A new customer requested 138 kV service for load of approximately 60 MW near the Fowles - Fox 138 kV Q-12 Line. The request is approximately 1 mile from Ford Brookpark Substation.

Requested in-service date is 1/2/2029.

# 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

# ATSI Transmission Zone M-3 Process
# Highland Station Control Building

**Need Number:** ATSI-2024-067
**Process Stage:** Solution Meeting 09/18/2026
**Previously Presented:** Need Meeting 08/16/2024
**Project Driver:** Equipment Condition/Performance/Risk

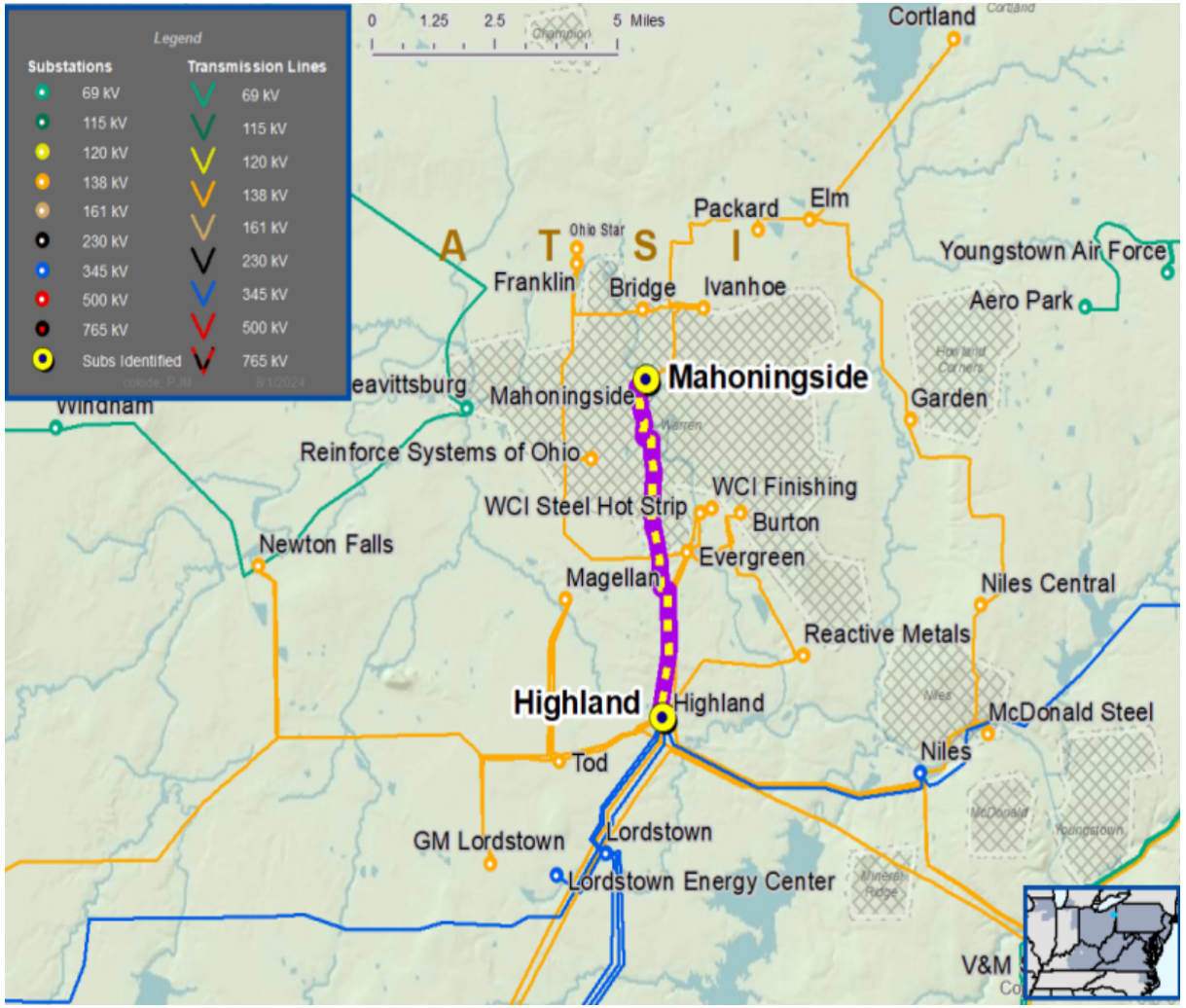
**System Performance Projects Global Factors**
- System reliability and performance
- Substation/line equipment limits

System Condition Projects
- Substation Condition Rebuild/Replacement

Upgrade Relay Schemes
- Obsolete and difficult to repair communication equipment (DTT, Blocking, etc.)
- Communication technology upgrades

**Problem Statement:**
- FirstEnergy has identified protection schemes using a certain vintage of relays and communication equipment that have a history of misoperation.
- Proper operation of the protection scheme requires all the separate components perform adequately during a fault.
- In many cases the protection equipment cannot be repaired due to a lack of replacement parts and available expertise in the outdated technology.
- The existing control building at Highland Substation is congested. There is not sufficient space for additional panel upgrades.
- Transmission line ratings are limited by terminal equipment.

Transmission Line / Substation Locations: Highland – Mahoningside 138 kV Line
Existing Line Rating MVA (SN / SE / WN / WE): 200 / 236 / 226 / 236
Existing Conductor Rating MVA (SN / SE / WN / WE): 200 / 242 / 226 / 286



# ATSI Transmission Zone M-3 Process
# Highland Station Control Building

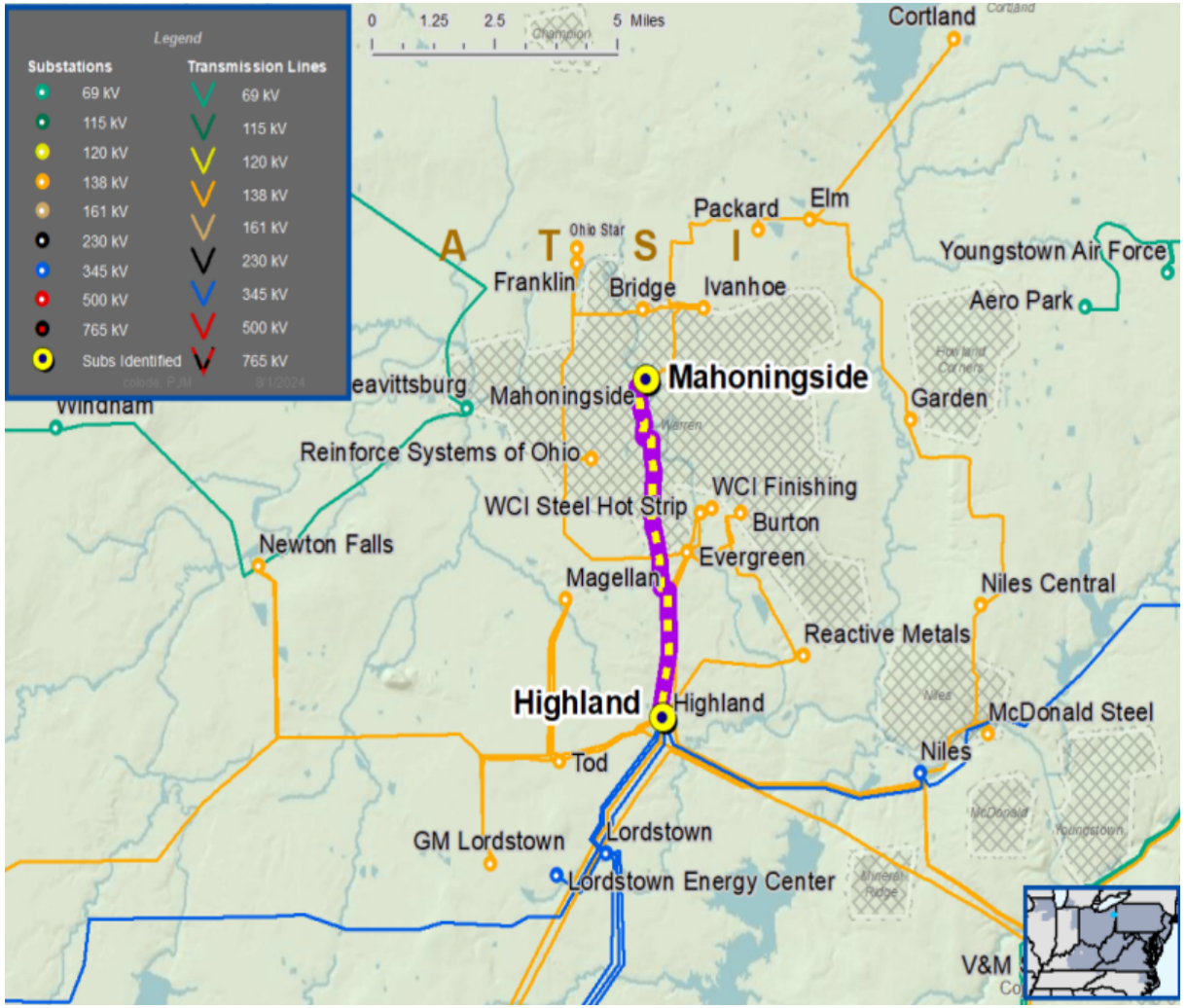
**Need Number:** ATSI-2024-067
**Process Stage:** Solution Meeting 09/18/2026

**Proposed Solution:**
Replace the existing control building at Highland Station with a new large package control enclosure (PCE)

**Alternatives Considered:**

Maintain Station in existing condition.

**Transmission Cost Estimate:** $34.05 M
**Projected In-Service:** 04/23/2029
**Project Status:** Conceptual
**Model:** 2025 RTEP model for 2030 Summer & Winter (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

09/08/2026– V1 – Original version posted to pjm.com.

09/16/2026– V2 – Updating posting date for revision history V1.