

Transmission Expansion Advisory Committee DEOK Supplemental Projects

August 4, 2026

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



DEOK Transmission Zone M-3 Process Customer Load Request

Need Number: DEOK-2026-004

Process Stage: Solutions Meeting 08/04/2026

Previously Presented: Needs Meeting 07/07/2026

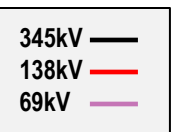
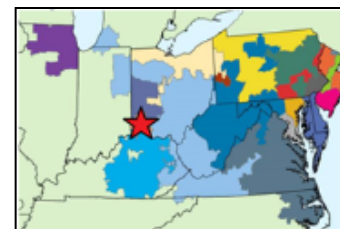
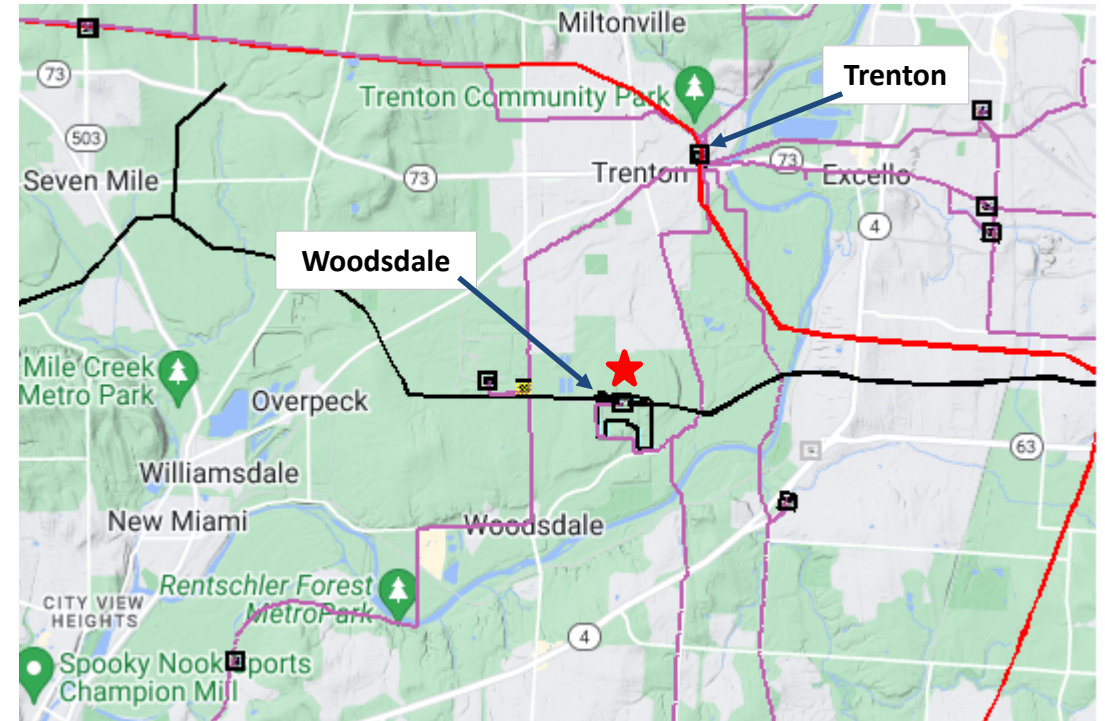
Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 6

Problem Statement:

The customer for Need DEOK-2024-006 (s3601.1) had proposed 500 MW load near Trenton in Butler County, OH. This customer plans to further add 300 MW load in 2028 at the same location.





DEOK Transmission Zone M-3 Process Customer Load Request

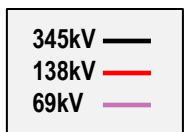
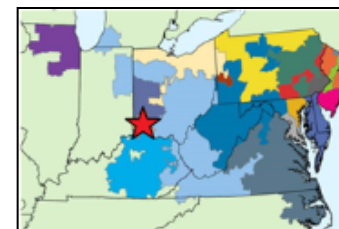
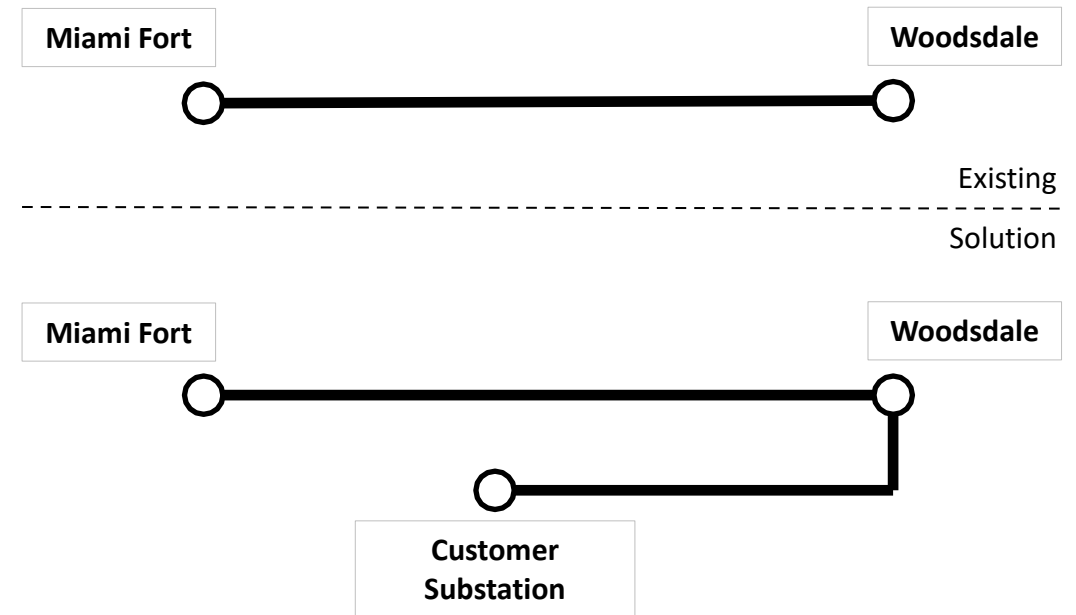
Need Number: DEOK-2026-004

Process Stage: Solutions Meeting 08/04/2026

Proposed Solution:

Woodsdale Substation: Install two new 345 kV, 4000 A, 50 kA interrupt circuit breakers in Woodsdale substation to connect a new circuit, approximately 1.0 mile of bundled 954 ACSR, from Woodsdale to the customer site. The new line will be rated 1509/1509 MVA Summer, 1894/1894 MVA Winter.

Estimated Transmission Cost: \$14.1M





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Process Stage: Solutions Meeting 08/04/2026

Proposed Solution (cont.):

Pierce Substation: Install one new 345 kV, 3000 A, 50 kA interrupt circuit breaker in the 345 kV Pierce Substation to connect a new 400 MVA 345/138 kV transformer.

Estimated Transmission Cost: \$15M

Beckjord Substation: Install two 138 kV, 3000 A, 63 kA interrupt circuit breakers in Beckjord 138 kV substation to connect approximately 0.3 miles of new 954 ACSR 45x7 bundled conductor. This conductor will be used to connect the low side of the new Pierce 345/138 kV transformer to the 138 kV Beckjord substation. This line will be rated 618/618 MVA summer and 757/757 MVA winter.

Estimated Transmission Cost: \$3.7M

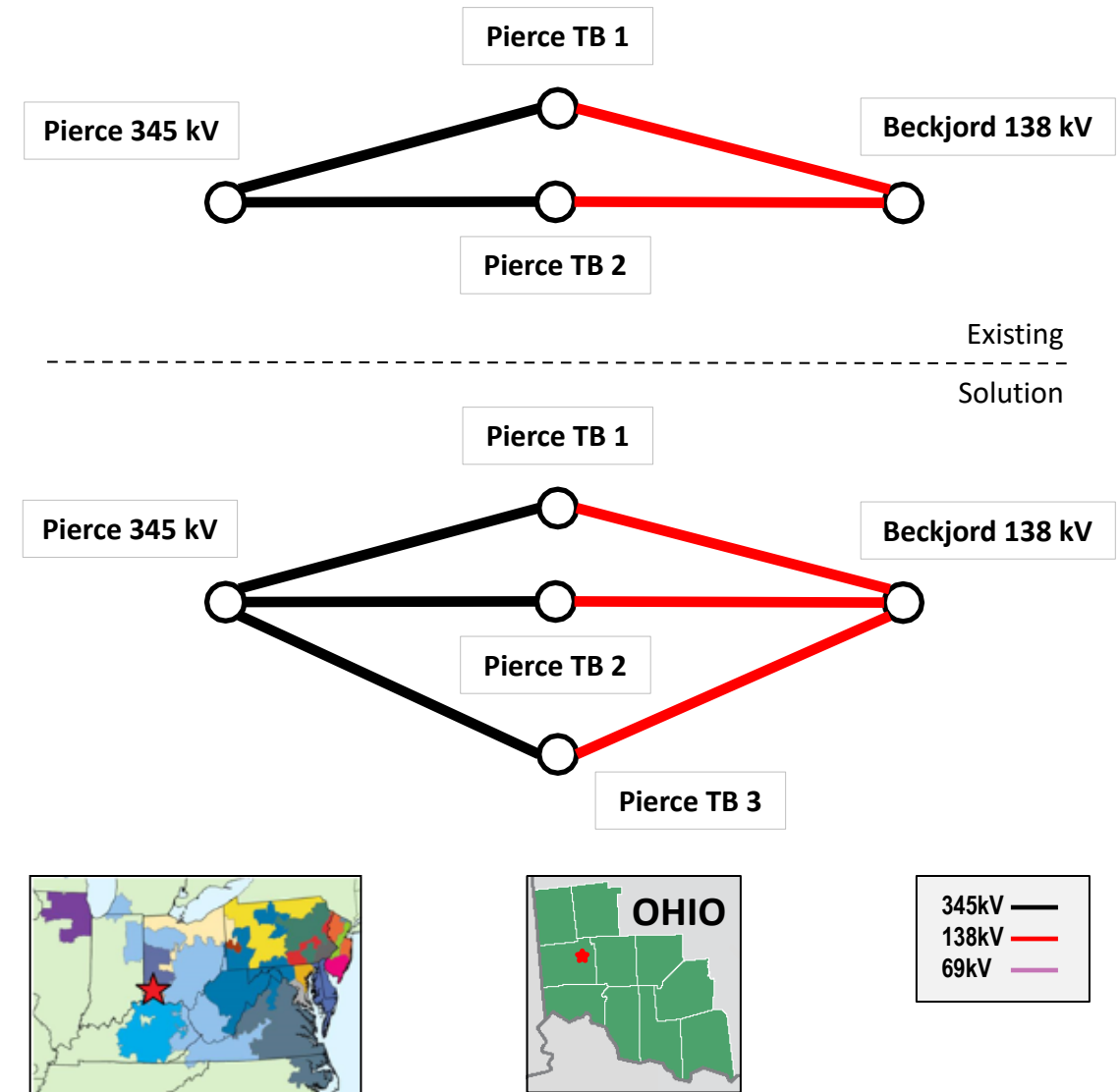
Alternatives Considered: No alternatives were considered for this project.

Total Estimated Transmission Cost: \$32.8M

Proposed In-Service Date: 06/01/2029

Project Status: Scoping

Model: 2030 RTEP



Appendix



Need Number: DEOK-2026-004

Process Stage: Solutions Meeting 08/04/2026

Ratings MVA (SN/SE/WN/WE):

New 345 kV Transmission Line #1 (Woodsdale-Customer Site)

- After Proposed Solution: 1509/1509/1894/1894 MVA

New 138 kV Transmission Line #2 (Port Union-Beckjord)

- After Proposed Solution: 618/618/757/757 MVA

Pierce 345/138 kV Transformer

- TB 19 345-138-13.8kV Transformer

- After Proposed Solution: 515/537/600/600 MVA

New 345 kV Breakers at Woodsdale

- 1527 345 kV Breaker

- After Proposed Solution: 50 kA

- 1529 345 kV Breaker

- After Proposed Solution: 50 kA

New 345 kV Circuit Breaker at Pierce

- Q 345 kV Breaker

- After Proposed Solution: 50 kA

New 138 kV Breakers at Beckjord

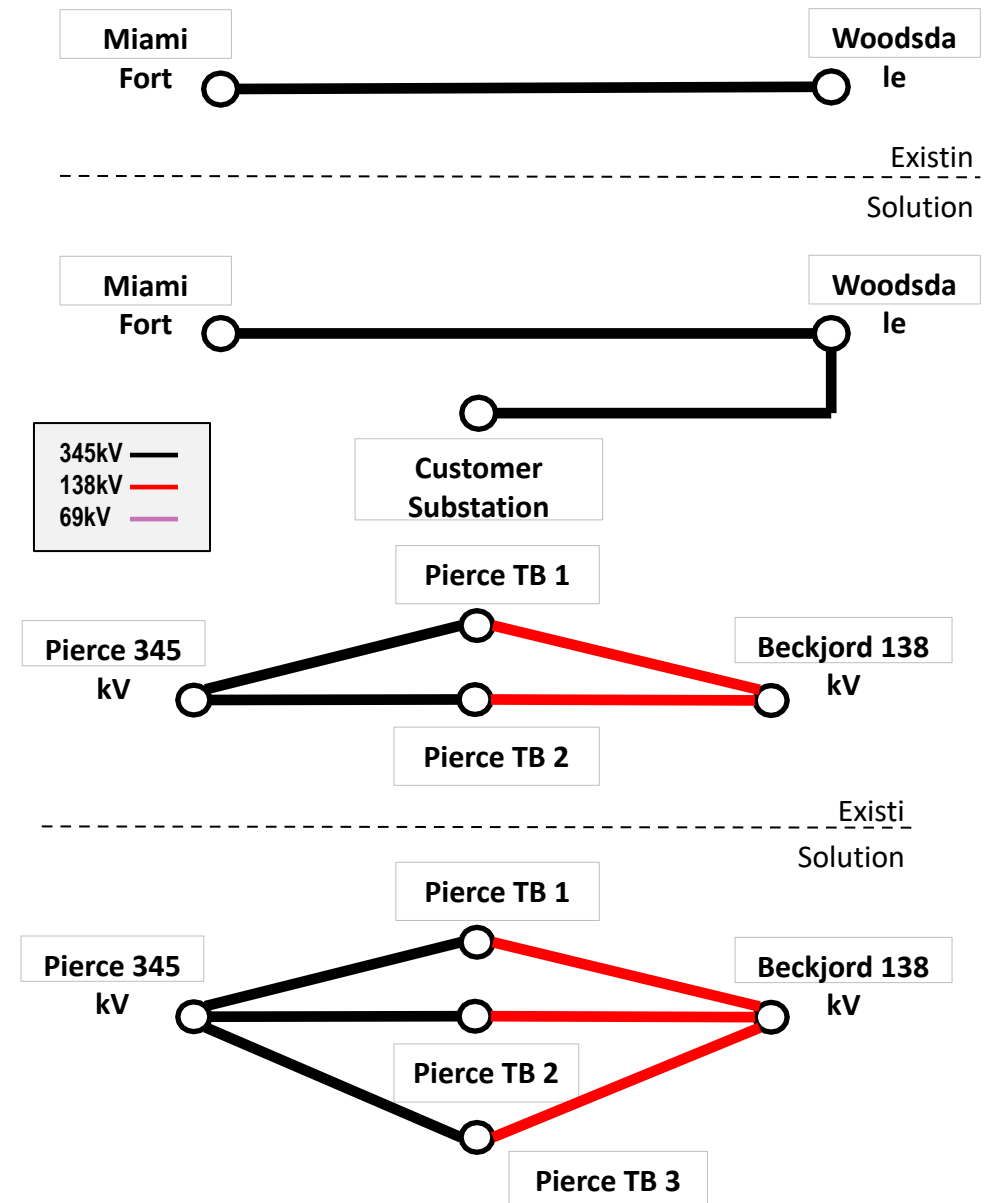
- 802 138 kV Breaker

- After Proposed Solution: 63 kA

- 902 138 kV Breaker

- After Proposed Solution: 63 kA

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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

7/24/2026 – V1 – Original version posted to pjm.com