

TEAC: AEP Supplemental Projects

March 4, 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: AEP-2024-IM018

Process Stage: Solutions Meeting: 03/04/2025

Previously Presented: Need Meeting – 12/03/2024

Supplemental Project Driver: Other

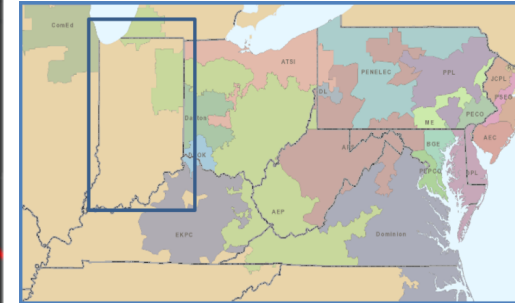
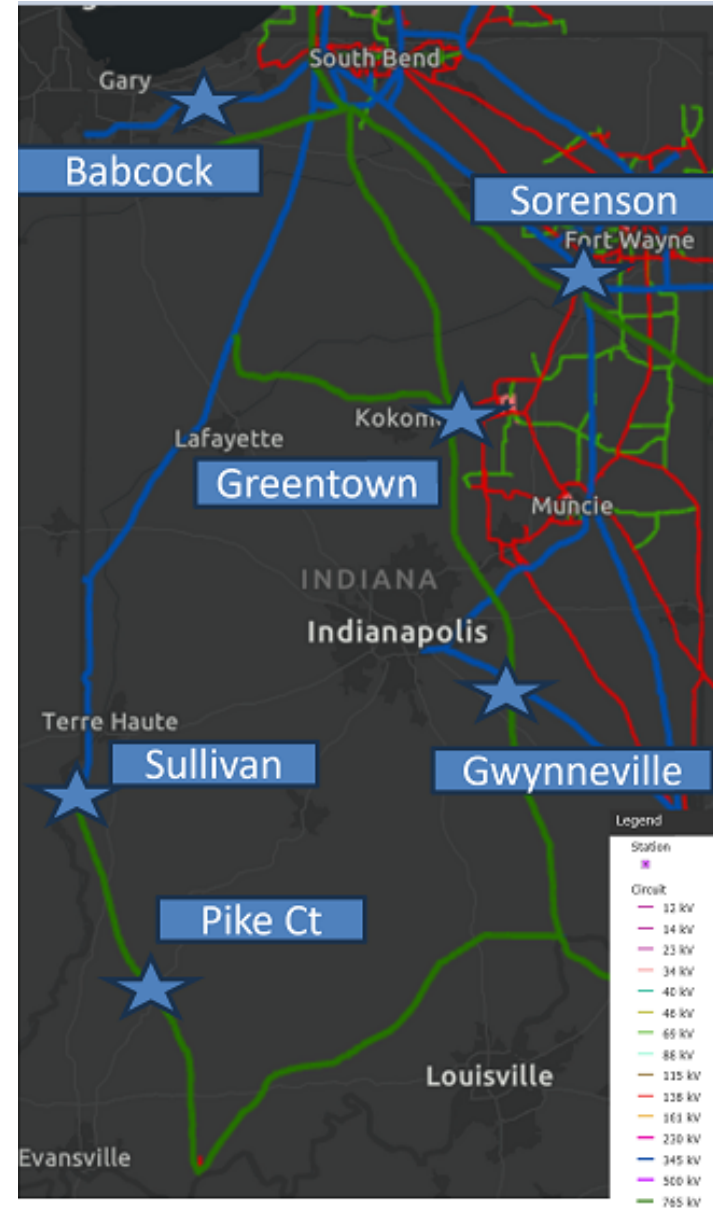
Specific Assumption Reference: Other Requests - AEP Assumptions Slide 16

Problem Statement:

The following needs are the result of MISO's request to connect certain portions of their Tranche 2 projects to the PJM transmission system via several AEP locations. Because these MISO requests may result in potential PJM system impacts, AEP is bringing these through the M-3 process to allow PJM to conduct do-no-harm analysis and identify potential planning criteria violations caused by the MISO requests. AEP at this point has not identified any large-scale issues resulting from the MISO proposals.

- MISO has requested two new 345kV line interconnections into AEP's Sullivan station from Fairbanks 345kV and Dresser 345kV. To facilitate this, work will be needed at the PJM Sullivan 765/345kV station.
- MISO has requested two new 765kV line interconnections into AEP's Sorenson station from Greentown 765kV and Lulu 765kV. To facilitate this, work will be needed at the PJM Sorenson 765/345/138kV station.
- MISO has requested a new 765KV substation on the Rockport – Sullivan 765kV line. To facilitate this station, work will be needed on the Rockport – Sullivan 765kV PJM asset.
- MISO has requested a new station to be constructed to tie the Jefferson – Greentown 765 and the Hanna – Tanners Creek 345kV lines together into a new "Gwynneville" 345kV substation. To facilitate this, work will be needed on the Jefferson – Greentown 765kV PJM asset and the Hanna – Tanners Creek 345kV PJM asset.
- MISO has requested cutting the Olive – University Park 345kV and Olive – Green Acres 345 kV lines into the existing Babcock 345kV substation. To facilitate this, work will be needed on the Olive – University Park/Green Acres double circuit 345kV line.
- MISO requested an in-service date of 06/01/2032.

AEP Transmission Zone M-3 Process Greentown, IN



Need Number: AEP-2024-IM018

Process Stage: Solution Meeting 03/04/2025

Proposed Solution:

Sorenson Station

At Sorenson 765kV Station, modify Sorenson station to interconnect new 765kV lines Sorenson-Greentown 765kV and Sorenson-Lulu 765kV.

Sullivan Station

At Sullivan 345kV station, modify Sullivan 345kV to interconnect new 345kV lines Sullivan-Fairbanks 345kV #1, Sullivan-Fairbanks #2, Sullivan-Dresser 345kV #1, Sullivan-Dresser 345kV #2.

Sullivan – Rockport 765kV Line

Modify the existing Sullivan-Rockport 765kV line for greenfield Pike County station to cut in.

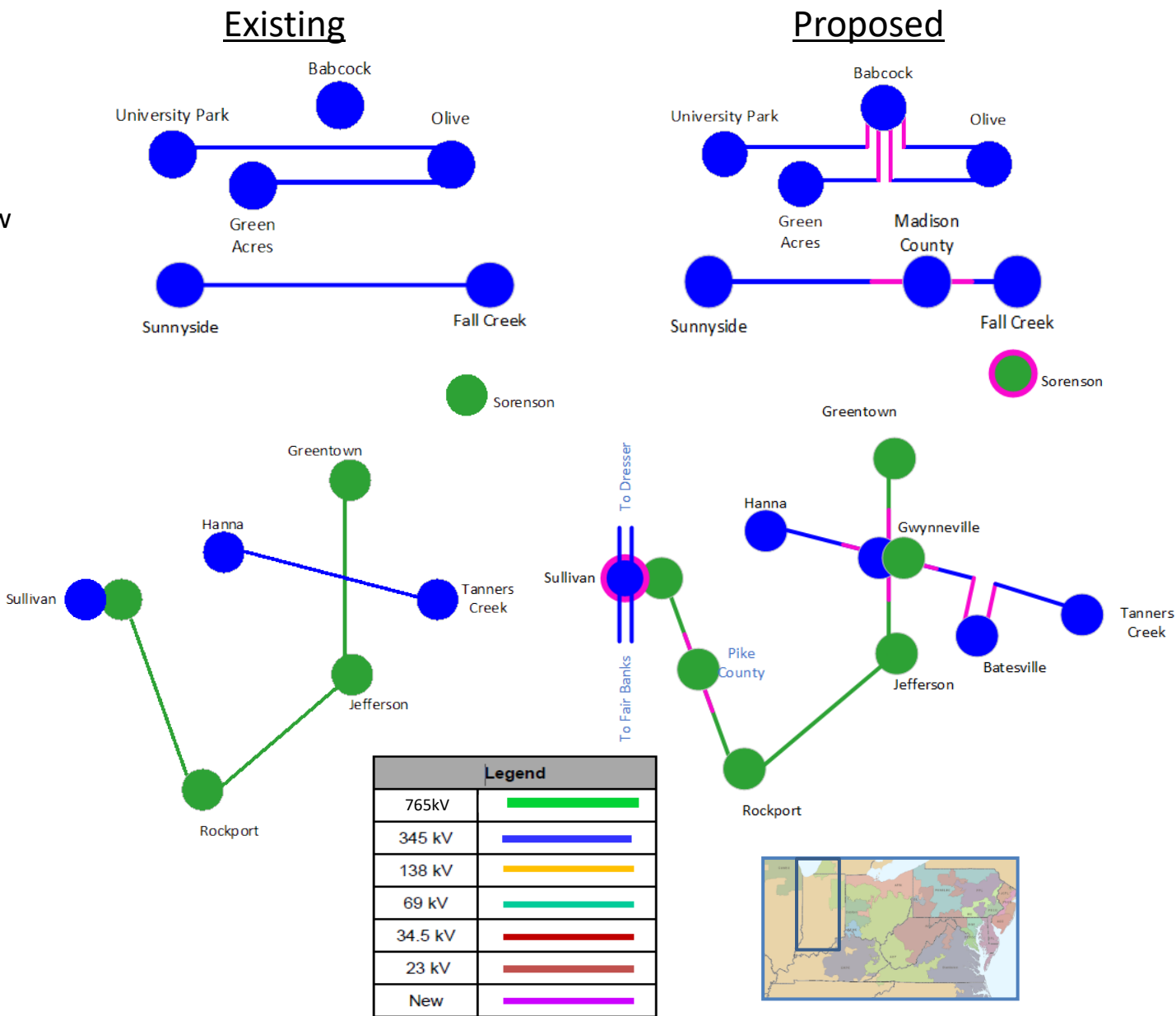
Jefferson – Greentown 765kV Line

Modify the existing Jefferson-Greentown 765kV line for Gwynneville station to cut in.

Tanners Creek – Hanna 345kV Line

Modify the existing Tanners Creek - Hanna 345kV line for Gwynneville station to cut in.

Modify the future Gwynneville-Tanners Creek 345kV line for existing station Batesville to cut in.



AEP Transmission Zone M-3 Process MISO Tranche 2 Projects

Need Number: AEP-2024-IM018

Previously Submitted: Needs Meeting 12/03/2024

Process Stage: Solution Meeting 03/04/2025

Proposed Solution Continued:

Fall Creek – Sunnyside 345kV Line

Modify the existing Fall Creek- Sunnyside 345kV line for greenfield Madison County station to cut in.

Olive – University Park, Olive –Green Acres 345kV Line

Modify the existing double circuit 345kV line Olive-University Park and Olive-Green Acres 345kV to cut into Babcock 345kV station.

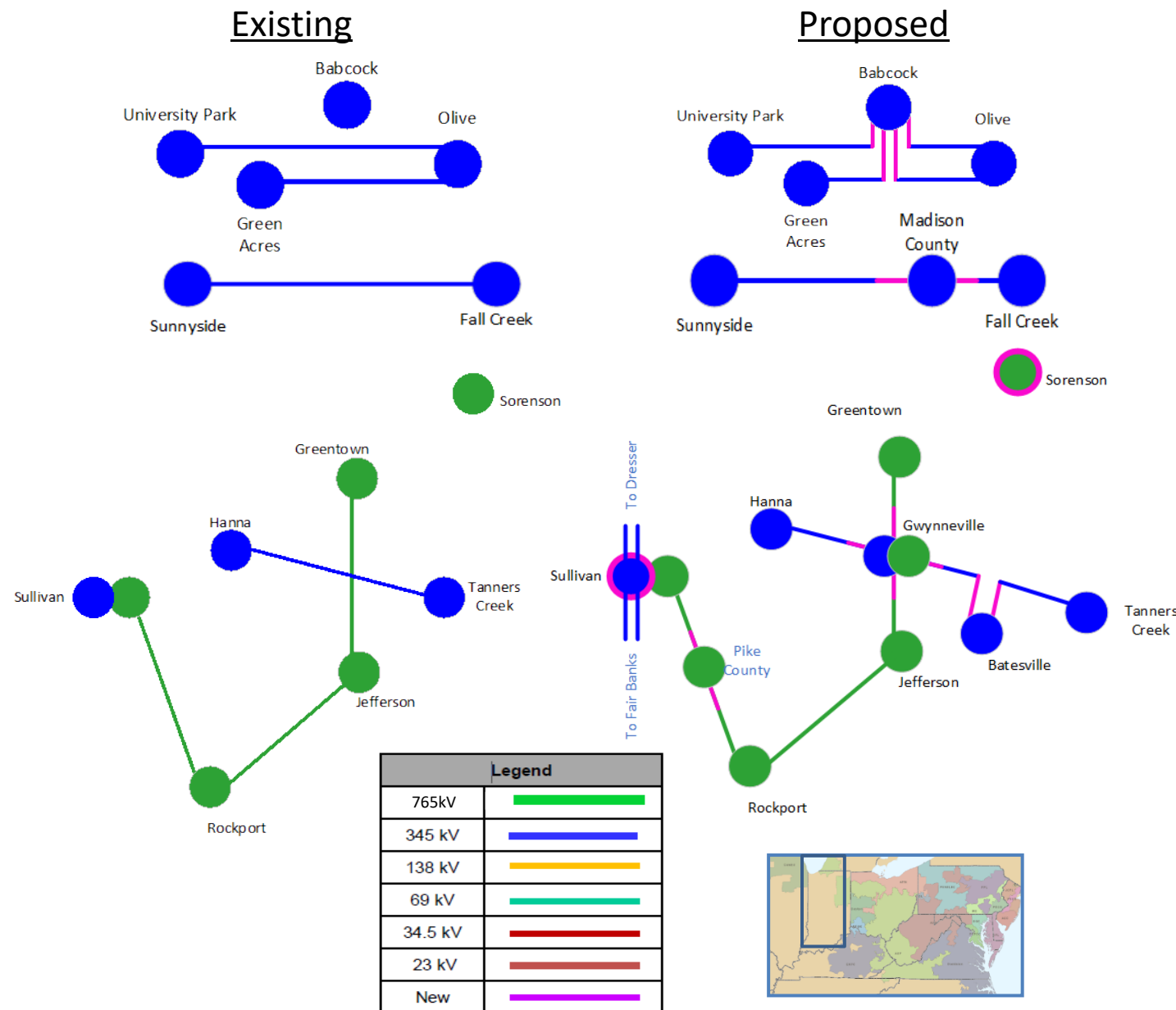
Total Cost: \$173M (MISO), \$0M (PJM)

Alternatives Considered: Alternatives considered as part of MISO L RTP process: [MTEP24 Chapter 2 - Regional Long Range Transmission Planning658124.pdf](#)

Model: L RTP TR2 2042 Summer

Projected In-Service: 2032-2034

Project Status: Scoping



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

2/20/2025 – V1 – Original version posted to pjm.com