EAST KENTUCKY POWER COOPERATIVE

A Touchstone Energy Cooperative

SRRTEP - Western Committee
EKPC Supplemental Projects

Nov. 13, 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

EKPC Transmission Zone M-3 Process
Eli 161/12.47 kV Substation

Need Number: EKPC-2026-005

Process Stage: Solution Meeting SRRTEP-W - 11/13/2026

Previously Presented: Need Meeting SRRTEP-W - 10/16/2026

Project Driver:

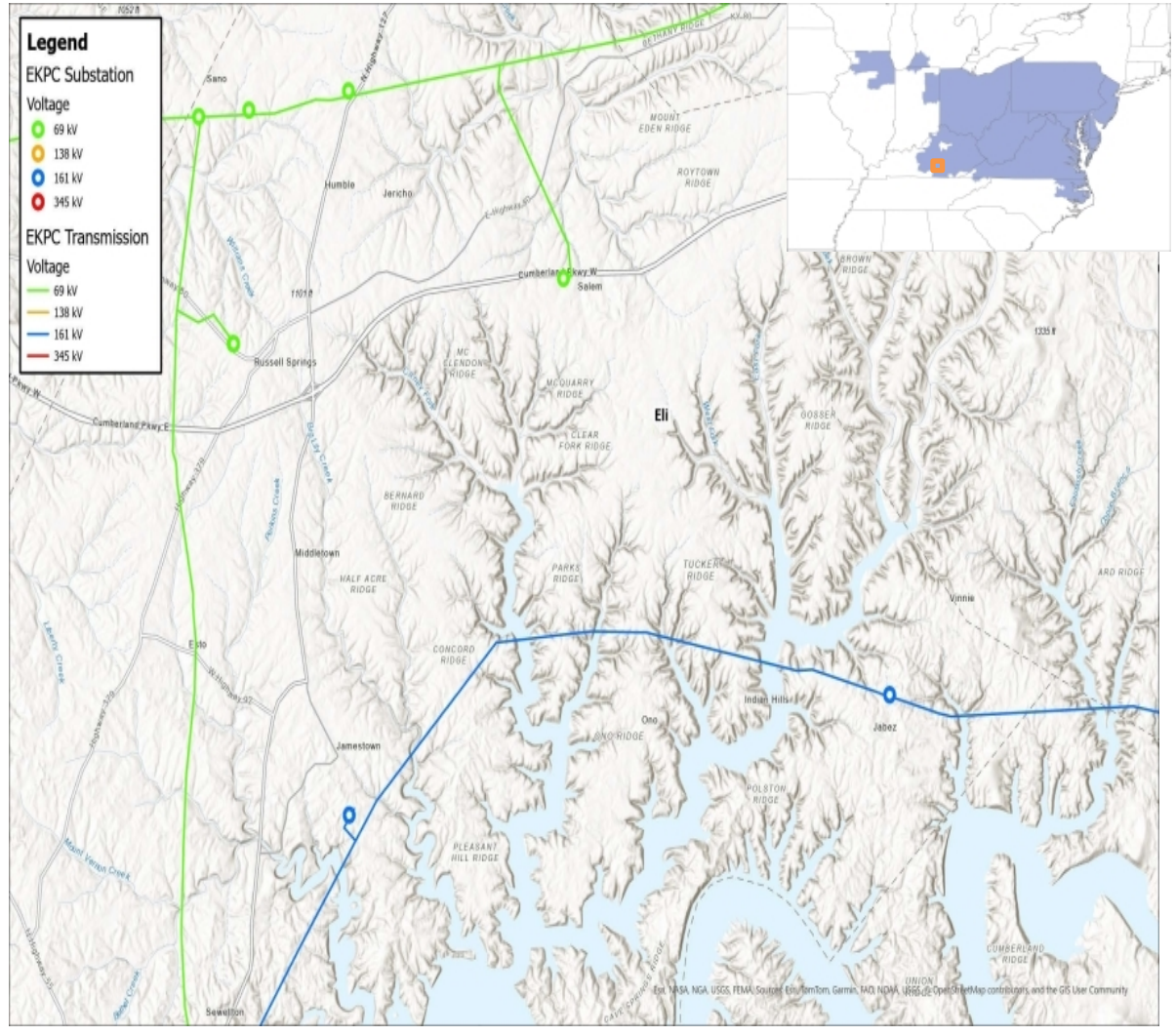
- *Customer Service*

Specific Assumption References:

EKPC Assumptions Presentation Slide 15

Problem Statement:

Distribution feeders from the Salem 69 kV distribution substation, currently serves customers in southern Russell County, KY near Lake Cumberland. This area of Lake Cumberland is experiencing significant residential development in the area. During high loading, customers near the end of the line are experiencing low voltage. Existing distribution infrastructure is not capable of addressing the issues in this area. EKPC will develop and evaluate alternatives to address all issues listed above.



EKPC Transmission Zone M-3 Process
Eli 161/12.47 kV Substation

Need Number: EKPC-2026-005

Process Stage: Solution Meeting SRRTEP-W - 11/13/2026

Proposed Solution:

161/12.47 kV Distribution Substation

- Construct a new 161/12.47 kV distribution substation off the existing Cooper - Russell County - Wolf Creek Dam 161 kV line.
- Estimated Cost: N/A

161kV Tap Line

- Tap the existing 161 kV line and extend a short radial line into the distribution substation.

- Estimated Cost: $2.5 M

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

161/12.47 kV Distribution Substation

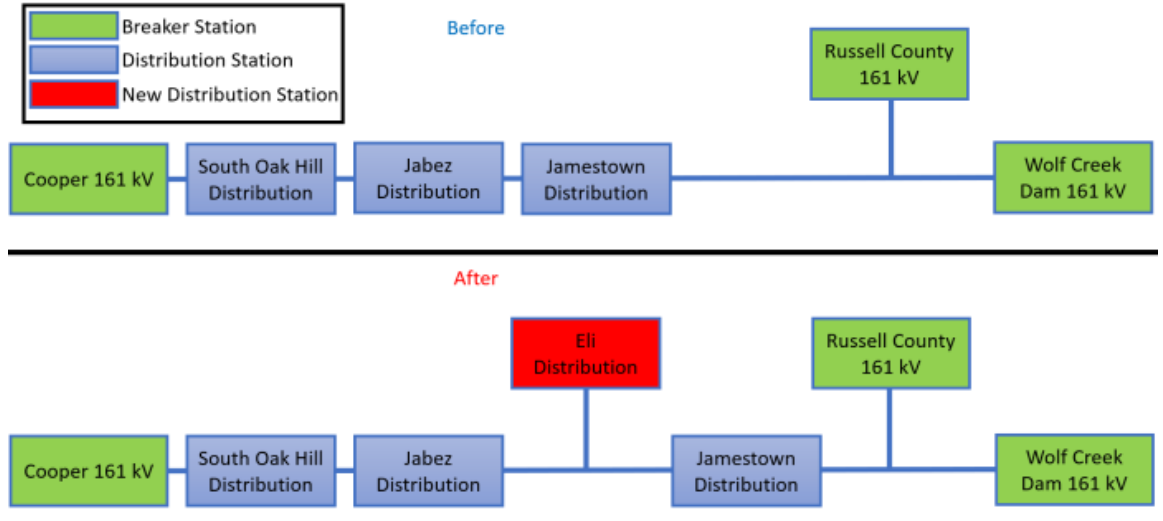
161kV Tap Line

- Before Proposed Solution: 0/0/0/0
- After Proposed Solution: 207/230/299/313

Alternatives Considered:

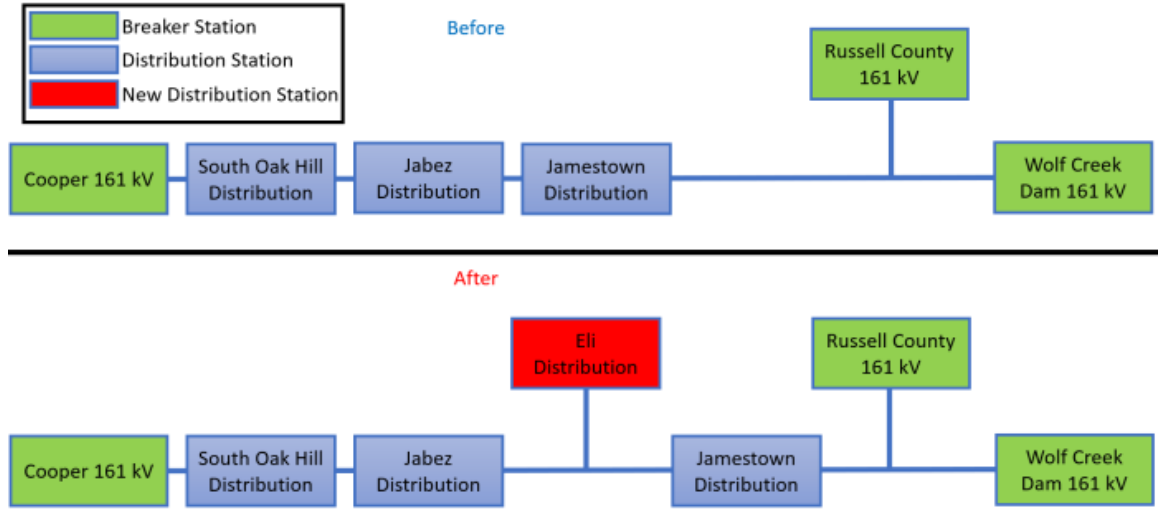
Extend 3.25-mile 69kV line and construct a 69/12.47kV distribution substation.

Transmission Cost Estimate: $2.5 M



EKPC Transmission Zone M-3 Process
Eli 161/12.47 kV Substation

Need Number: EKPC-2026-005
Continued from previous slide...
Projected In-Service: 12/31/2029
Project Status: Engineering
Model: N/A



EKPC Transmission Zone M-3 Process
Prather Road 161/12.47 kV Substation

Need Number: EKPC-2026-006

Process Stage: Solution Meeting SRRTEP-W - 11/13/2026

Previously Presented: Need Meeting SRRTEP-W - 10/16/2026

Project Driver:

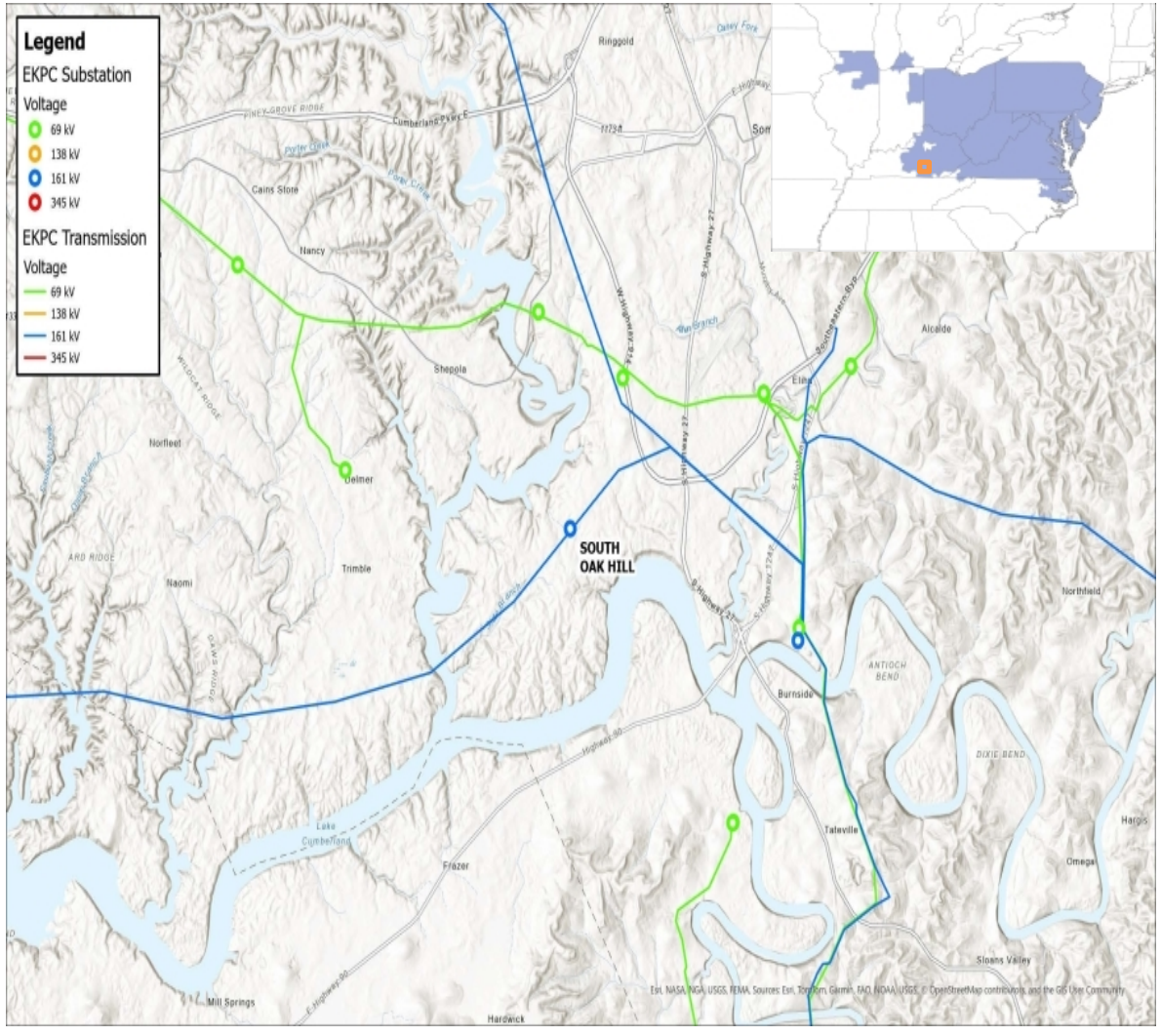
- *Equipment Condition/Performance/Risk*
- *Customer Service*

Specific Assumption References:

EKPC Assumptions Presentation Slide 13 & 15

Problem Statement:

Based on the existing EKPC load forecast, the South Oakhill Base 12 MVA distribution transformer has an immediate forecasted overload. The local distribution cooperative has shifted approximately 3 MW of load off the transformer to allow for EKPC to implement a solution to the transformer overload. In addition, the distribution feeder serving customers to the west of the South Oakhill substation surrounding Lake Cumberland is experiencing thermal overloads during peak load conditions.
EKPC will develop and evaluate alternatives to address all issues listed above.



EKPC Transmission Zone M-3 Process
Prather Road 161/12.47 kV Substation

Need Number: EKPC-2026-006

Process Stage: Solution Meeting SRRTEP-W - 11/13/2026

Proposed Solution:

161/12.47 kV Distribution Substation

- Construct a new 161/12.47 kV distribution substation off the existing Cooper - Russell County - Wolf Creek Dam 161 kV line.
- Estimated Cost: N/A

161kV Tap Line

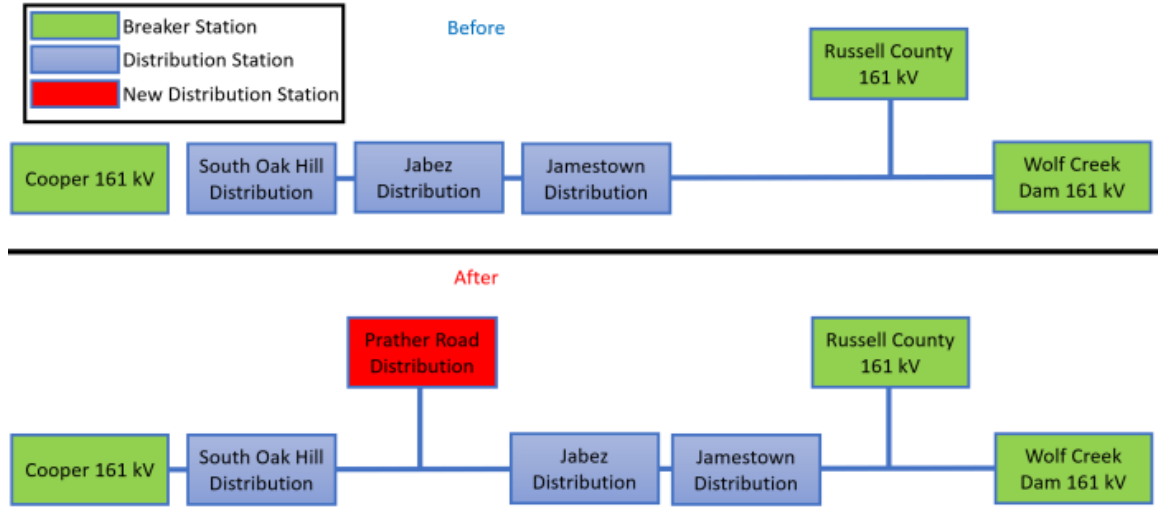
- Tap the existing 161 kV line and extend a short radial line into the distribution substation.
- Estimated Cost: $1.7 M

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

161/12.47 kV Distribution Substation

161kV Tap Line

- Before Proposed Solution: 0/0/0/0
- After Proposed Solution: 207/230/299/313



EKPC Transmission Zone M-3 Process
Prather Road 161/12.47 kV Substation

Need Number: EKPC-2026-006

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Alternatives Considered:

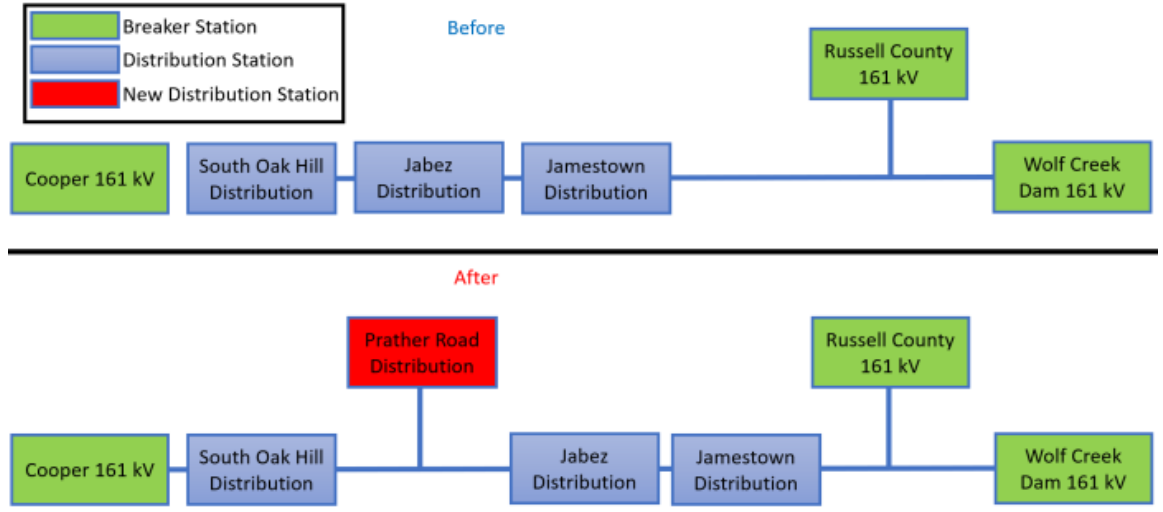
Upgrading the existing 12 MVA distribution transformer with a larger unit. This alternative does not address the local distribution cooperatives thermal issues on their distribution feeder and continued load growth introduces concerns for maintaining adequate voltage at the end of the distribution feeder.

Transmission Cost Estimate: $1.7 M

Projected In-Service: 12/31/2030

Project Status: Engineering

Model: N/A



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

11/3/2026 – V1 – Original version posted to pjm.com.

11/12/2026 – V2 – Update from presenting “Needs” to “Solutions” due to typo, adjusting costs for accuracy.