Scottsville-Bremo Sag Study

General Information

Proposing entity name	AEPSCT
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	AEP_K
PJM Proposal ID	9
Project title	Scottsville-Bremo Sag Study
Project description	AEP proposes performing a sag study on the AEP-owned line section between Scottsville and Bremo 138 kV to identify and mitigate any clearance issues in order to operate at or above the identified line loadings.
Email	nckoehler@aep.com
Project in-service date	11/2026
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. Scottsville-Bremo 138 kV Sag Study

Transmission Line Upgrade Component

Component title	Scottsville-Bremo 138 kV Sag Study

Project description	Perform a sag study and implement sag mitigations on the AEP owned portion of the Scottsville-Bremo 138 kV tie line. PJM had previously identified this line as overloaded in the light load N-1 analysis. NOTE: The Dominion ratings in light load cases will be 205 MVA.
Impacted transmission line	Scottsville-Bremo 138 kV
Point A	Scottsville
Point B	Bremo
Point C	
Terrain description	Terrain of the line consists is a mix between mountainous and rural.

Existing Line Physical Characteristics

Operating voltage	138
Conductor size and type	397.5 kCM ACSR Lark
Hardware plan description	Existing hardware will remain other than where towers will need to be replaced or extended in order to alleviate clearance issues.
Tower line characteristics	Steel lattice line originally installed in the 1940s-1950s.

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	138.000000	138.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	167.000000	173.000000
Winter (MVA)	210.000000	211.000000
Conductor size and type	397.5 kCM ACSR Lark	
Shield wire size and type	159 kCM ACSR Guinea	
Rebuild line length	7.1 miles	

Rebuild portion description	Sag study mitigation on the AEP owned portion of the line. Approximately 1 mile of existing line will incorporate new prop structures to accommodate the larger MOT of the circuit. A visual scope map has been provided for the locations. Several existing structures will be modified from suspensions into a floating deadend configuration and prop structures will be installed along the line to mitigate any ground clearance violations not addressed by the new configuration. The Dominion ratings in light load will be 205 MVA.
Right of way	Easements will need to be acquired for the new roads to access existing structures for modification and for installation of the new prop structures. Mitigation efforts will remain in centerline.
Construction responsibility	AEP
Benefits/Comments	

Component Cost Details - In Current Year $

Engineering & design	Detailed Cost Breakdown
Permitting / routing / siting	Detailed Cost Breakdown
ROW / land acquisition	Detailed Cost Breakdown
Materials & equipment	Detailed Cost Breakdown
Construction & commissioning	Detailed Cost Breakdown
Construction management	Detailed Cost Breakdown
Overheads & miscellaneous costs	Detailed Cost Breakdown
Contingency	Detailed Cost Breakdown
Total component cost	$1,272,633.93
Component cost (in-service year)	$.00

Congestion Drivers

None

Existing Flowgates

None

New Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type
FG-9-1	242792	05SCOTSV	314746	4BREMO	1	138	AEP	Light Load N-1

Financial Information

Capital spend start date	01/2024
Construction start date	10/2025
Project Duration (In Months)	34

Additional Comments

None