



MTEP25 Project Information

Entergy Arkansas LLC (EAL)

Arkansas Electric Cooperative Corporation (AECC)

City Water and Light Plant of Jonesboro Arkansas

(CWLT)

2nd South Subregional Planning Meeting

June 6, 2025

TO Overview (South Region)

Review and discuss submitted MTEP25 projects



The details of the TO projects and their costs are shown below:

- EAL: 10 submitted projects at an estimated cost of \$149 million
- AECC: 2 submitted projects at an estimated cost of \$55 million
- CWLT did not submit projects for consideration in MTEP25

Entergy Arkansas LLC (EAL)

ENTERGY ARKANSAS, LLC

MTEP25 Summary

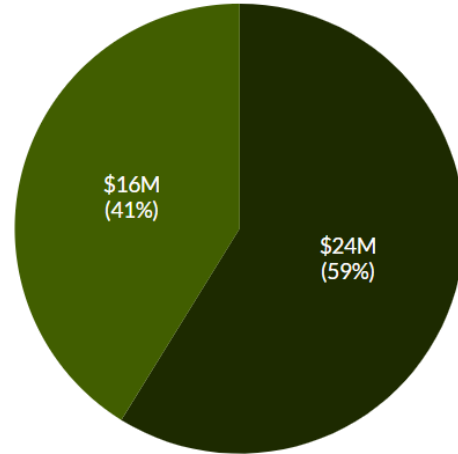
10
Total Projects

\$149M
Investment



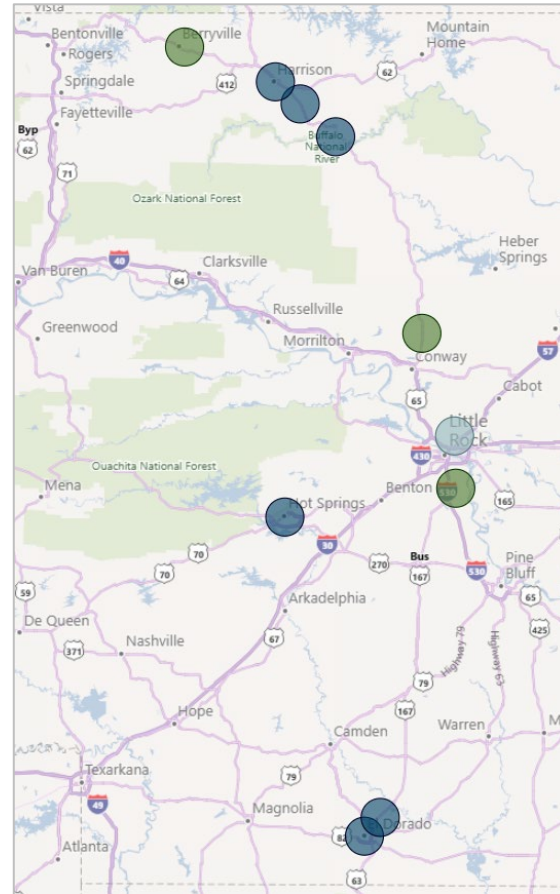
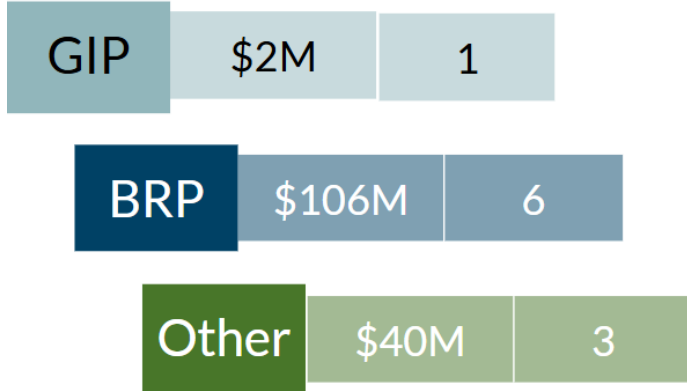
Breakdown of Other Projects by Cost

● Load Growth ● Age and Condition



ENTERGY ARKANSAS, LLC

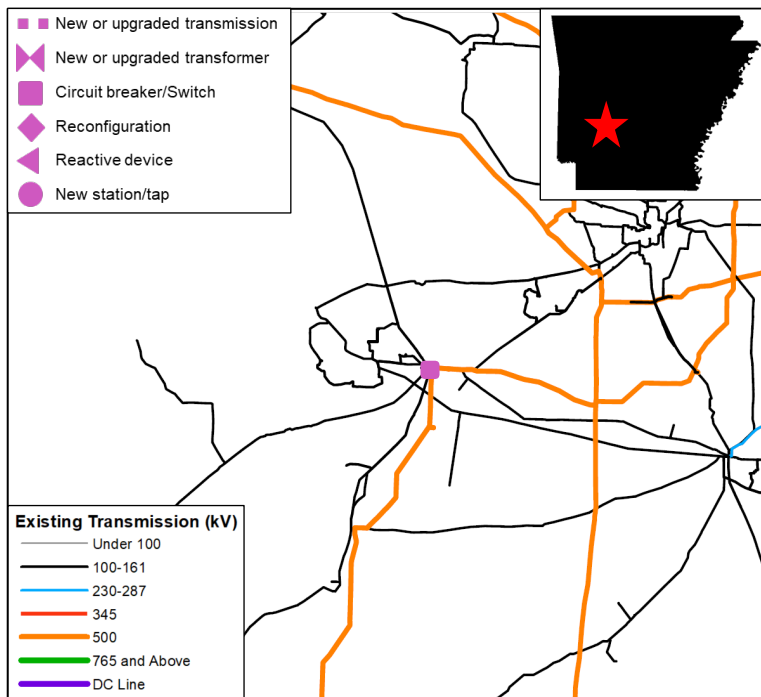
MTEP25 Summary



Update on Current Cycle Projects since SPM1

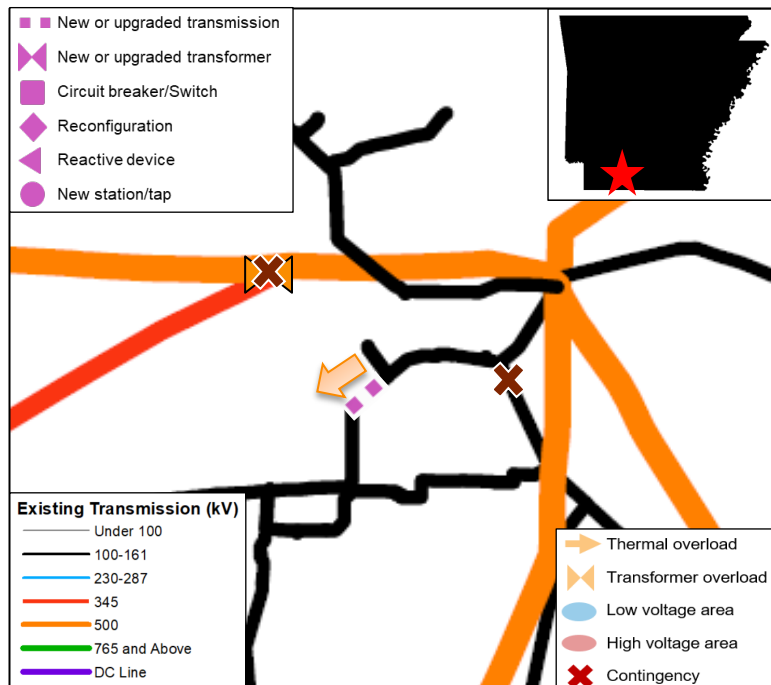
TO	Project ID	Project Name	Project Type	Project Change
EAL	50384	Hot Springs 500kV SPOF	BRP	Cost change from \$3M to \$1M & Expected ISD from 1/30/26 to 12/1/26

EAL: Hot Springs 500 kV SPOF



Submitting TO	ENTERGY ARKANSAS, LLC
Project #	50384
Project Name	Hot Springs 500kV SPOF
Project Type	BRP
Project Description	All 500kV line panels at Hot Springs EHV will have primary 1 relays on a separate DC panel than primary 2/backup relays. The breakers for these lines will have trip coil #1 and trip coil #2 fed from separate DC panels. The DC panels will be fed from separate battery sets.
System Need	The Hot Spring, Magnet Cove, Rimmel, Carpenter, Blakely, and Degray Dam generation go unstable for a SLG fault on Hot Springs-Etta 500kV or Hot Springs-Magnet Cove 500kV lines with non-redundant protection system component failure.
Current Cost	\$1M
Expected ISD	12/1/2026
Target Appendix	A

EAL: El Dorado Donan – El Dorado Monsanto 115 kV: Rebuild Line



Submitting TO	ENTERGY ARKANSAS, LLC
Project #	50385
Project Name	El Dorado Donan - El Dorado Monsanto 115 kV: Rebuild Line
Project Type	BRP
Project Description	Rebuild the ~3.1 mile line segment along with any other station equipment to achieve a 1300 A flow-through rating.
System Need	The Donan - Monsanto transmission line overloads for the loss of J1612 generation & El Dorado EHV - El Dorado E 115kV line. [NERC TPL-001 P3]
Current Cost	\$8M
Expected ISD	6/30/2027
Target Appendix	A

EAL: El Dorado Donan – El Dorado Monsanto 115 kV: Rebuild Line

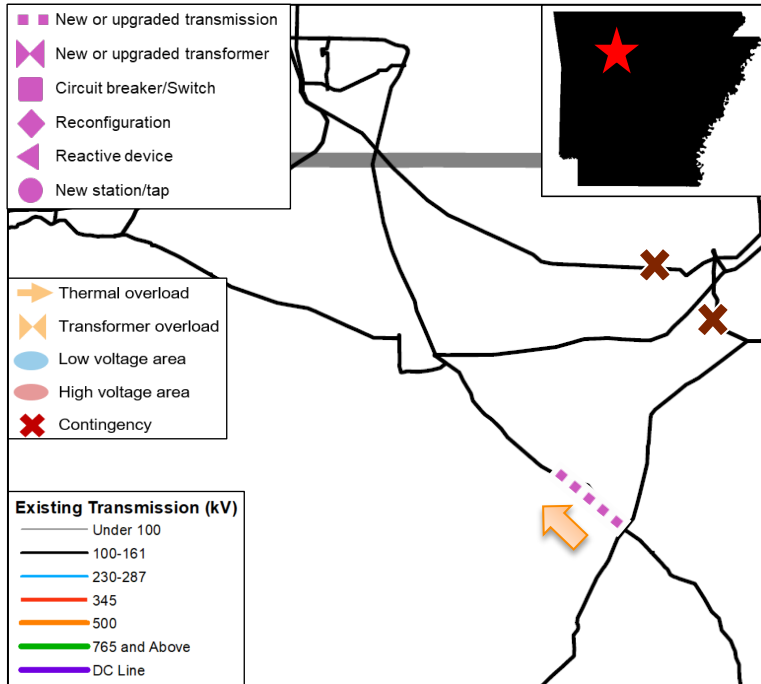
Multiple P6 Contingencies with the common pairing of the loss of El Dorado to El Dorado East 115kV Line causes overloads on the El Dorado Donan to El Dorado Monsanto 115kV Line

Thermal Violations

Cont. Type	Limiting Element	Pre-project (post-cont.) Loading (%)	Post-project (post-cont.) Loading (%)
N-1-1	El Dorado Donan – El Dorado Monsanto 115kV	124	93
N-1-1	El Dorado Donan – El Dorado Monsanto 115kV	118	97
N-1-1	El Dorado Donan – El Dorado Monsanto 115kV	115	91
N-1-1	El Dorado Donan – El Dorado Monsanto 115kV	112	91

Preliminary Recommendation | Move to Appendix A

EAL: Hilltop – Saint Joe 161 kV: Rebuild Line



Submitting TO	ENTERGY ARKANSAS, LLC
Project #	50386
Project Name	Hilltop - Saint Joe 161kV: Rebuild Line
Project Type	BRP
Project Description	Rebuild Hilltop – St Joe along with any other station equipment to achieve a 1300 A through path rating.
System Need	Compliance with NERC Reliability Standard TPL-001, R2.7. Increased reliability by updating aging infrastructure and increased line capacity for improved transmission system performance.
Current Cost	\$12M
Expected ISD	6/30/2027
Target Appendix	A

EAL: Hilltop – Saint Joe 161 kV: Rebuild Line

Hilltop to Saint Joe Thermal overload experienced for multiple N-1 scenarios. A couple listed below.

P22 for the Loss of Table Rock 161kV Bus

P21 for the Loss of S Lead Hill to Bull Shoals W 161kV Line

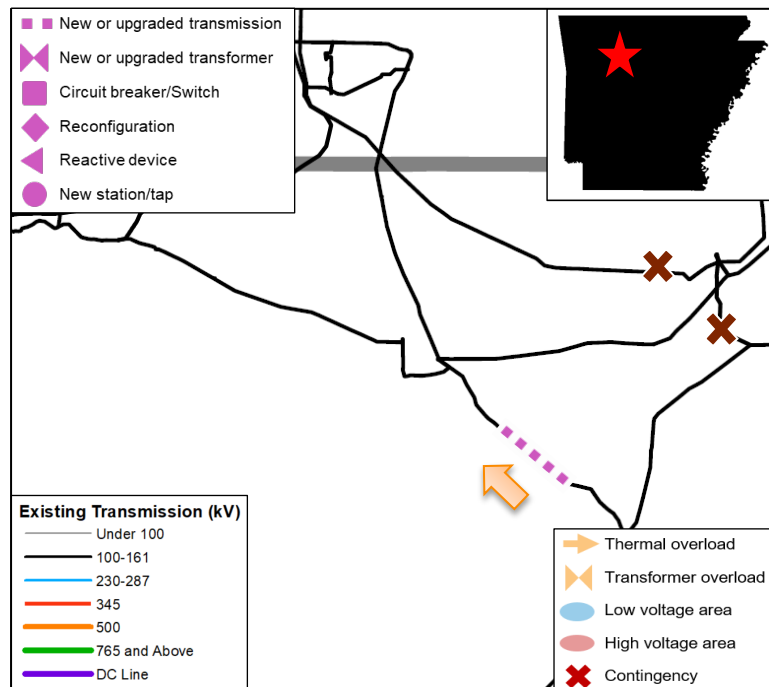
P21 for the Loss of Table Rock to Clevecov 161kV Line

Thermal Violations

Cont. Type	Limiting Element	Pre-project (post-cont.) Loading (%)	Post-project (post-cont.) Loading (%)
N-1	Hilltop – Saint Joe 161kV	127	78
N-1	Hilltop – Saint Joe 161kV	119	73
N-1	Hilltop – Saint Joe 161kV	117	72

Preliminary Recommendation | Move to Appendix A

EAL: Saint Joe – Everton Road 161 kV: Rebuild Line



Submitting TO	ENTERGY ARKANSAS, LLC
Project #	50387
Project Name	Saint Joe - Everton Road 161kV: Rebuild Line
Project Type	BRP
Project Description	Rebuild St Joe – Everton Rd along with any other station equipment to achieve a 1300 A through path rating.
System Need	The St Joe – Everton Rd transmission line overloads for the bus failure at Table Rock 161 kV. [NERC TPL-001 P2.2]
Current Cost	\$30M
Expected ISD	12/30/2029
Target Appendix	A

EAL: Saint Joe – Everton Road 161 kV: Rebuild Line

Saint Joe to Everton Rd Thermal overload experienced for multiple N-1 scenarios. A couple listed below.

P22 for the Loss of Table Rock 161kV Bus

P21 for the Loss of S Lead Hill to Bull Shoals W 161kV Line

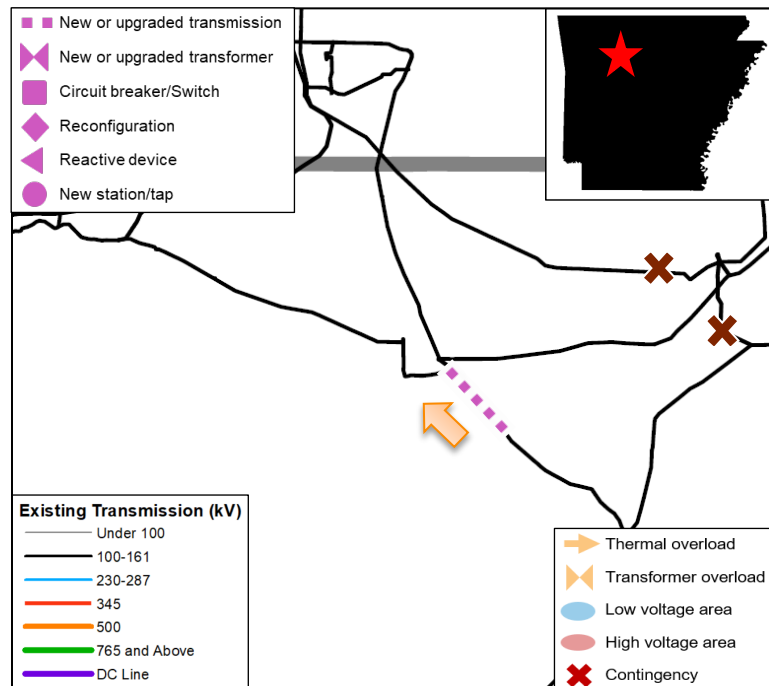
P21 for the Loss of Table Rock to Clevecov 161kV Line

Thermal Violations

Cont. Type	Limiting Element	Pre-project (post-cont.) Loading (%)	Post-project (post-cont.) Loading (%)
N-1	Saint Joe – Everton Road 161kV	126	77
N-1	Saint Joe – Everton Road 161kV	118	73
N-1	Saint Joe – Everton Road 161kV	117	72

Preliminary Recommendation | Move to Appendix A

EAL: Everton Road – Harrison East 161 kV: Rebuild Line



Submitting TO	ENTERGY ARKANSAS, LLC
Project #	50388
Project Name	Everton Road - Harrison East 161kV: Rebuild line
Project Type	BRP
Project Description	Rebuild Everton Rd – Harrison East along with any other station equipment to achieve a 1300 A through path rating.
System Need	Compliance with NERC Reliability Standard TPL-001, R2.7. Increased reliability by updating aging infrastructure and increased line capacity for improved transmission system performance.
Current Cost	\$20M
Expected ISD	6/30/2028
Target Appendix	A

EAL: Everton Road – Harrison East 161 kV: Rebuild Line

Everton Rd to Harrison East Thermal overload experienced for multiple N-1 scenarios. A couple listed below.

P22 for the Loss of Table Rock 161kV Bus

P21 for the Loss of S Lead Hill to Bull Shoals W 161kV Line

P21 for the Loss of Table Rock to Clevecov 161kV Line

Thermal Violations

Cont. Type	Limiting Element	Pre-project (post-cont.) Loading (%)	Post-project (post-cont.) Loading (%)
N-1	Everton Road – Harrison East 161kV	123	76
N-1	Everton Road – Harrison East 161kV	116	71
N-1	Everton Road – Harrison East 161kV	123	70

Preliminary Recommendation | Move to Appendix A

EAL List of Appendix A Projects Submitted for Inclusion in MTEP25

MTEP Project ID ▲	Project Name	Project Type	Other Type	Expected ISD	Current Cost
50383	2026 EAL Asset Renewal Program	Other	Age and Condition	12/30/2026	\$16.5M
50384	Hot Springs 500kV SPOF	BRP		12/1/2026	\$0.6M
50385	El Dorado Donan - El Dorado Monsanto 115 kV: Rebuild Line	BRP		6/30/2027	\$7.9M
50386	Hilltop - Saint Joe 161kV: Rebuild Line	BRP		6/30/2027	\$12.4M
50387	Saint Joe - Everton Road 161kV: Rebuild Line	BRP		12/30/2029	\$29.7M
50388	Everton Road - Harrison East 161kV: Rebuild line	BRP		6/30/2028	\$20.1M
50441	Wrightsville 115kV: Build two 115kV lines	Other	Load Growth	2/26/2027	\$17.8M
50496	MPFCA Replace Sherwood 115kV Breakers	GIP		10/31/2026	\$2.1M
▲ 50541	El Dorado 500/345kV Autotransformer Upgrade	BRP		12/1/2028	\$35.7M
▲ 50581	Fort Mountain 161kV: Build New Substation	Other	Load Growth	3/31/2026	\$5.7M

Arkansas Electric Cooperative Corporation (AECC)

ARKANSAS ELECTRIC COOPERATIVE CORPORATION

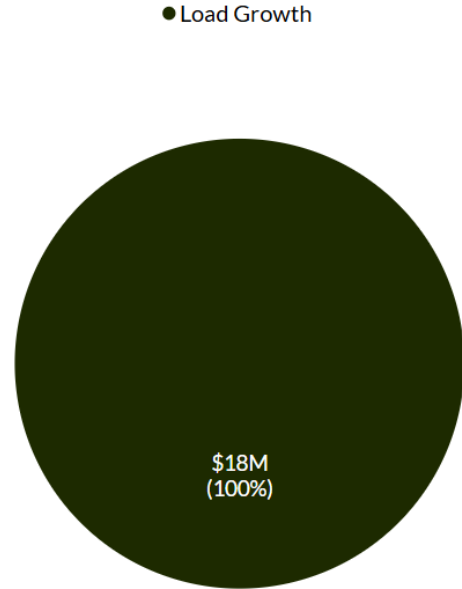
MTEP25 Summary

2
Total Projects

\$55M
Investment

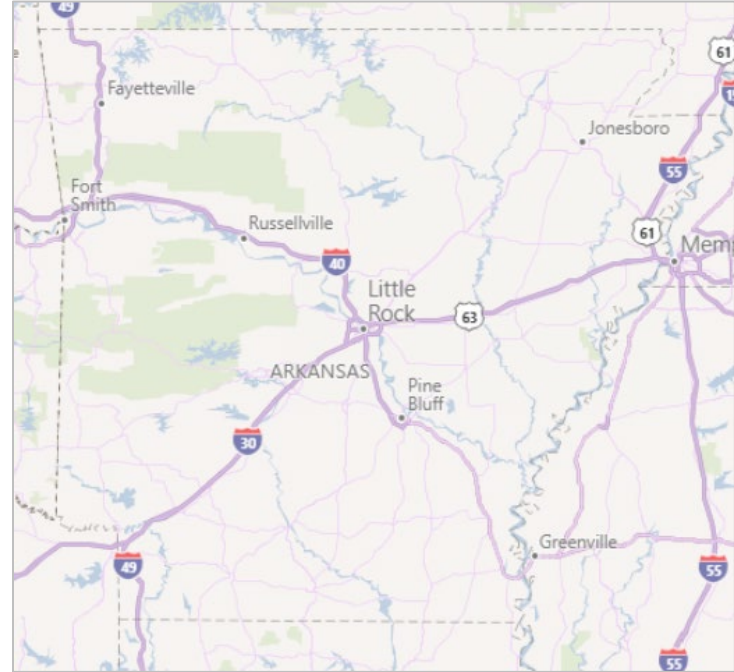
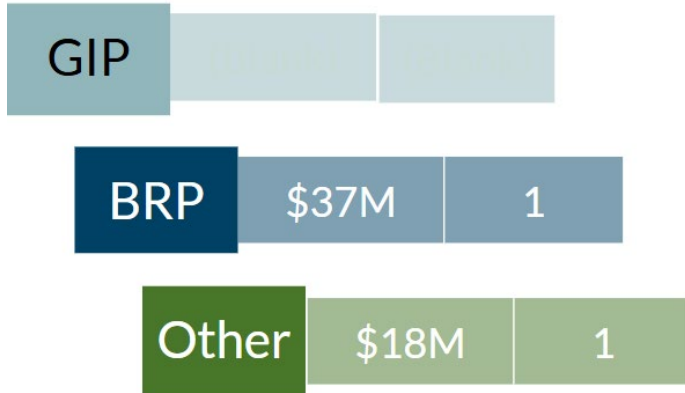


Breakdown of Other Projects by Cost



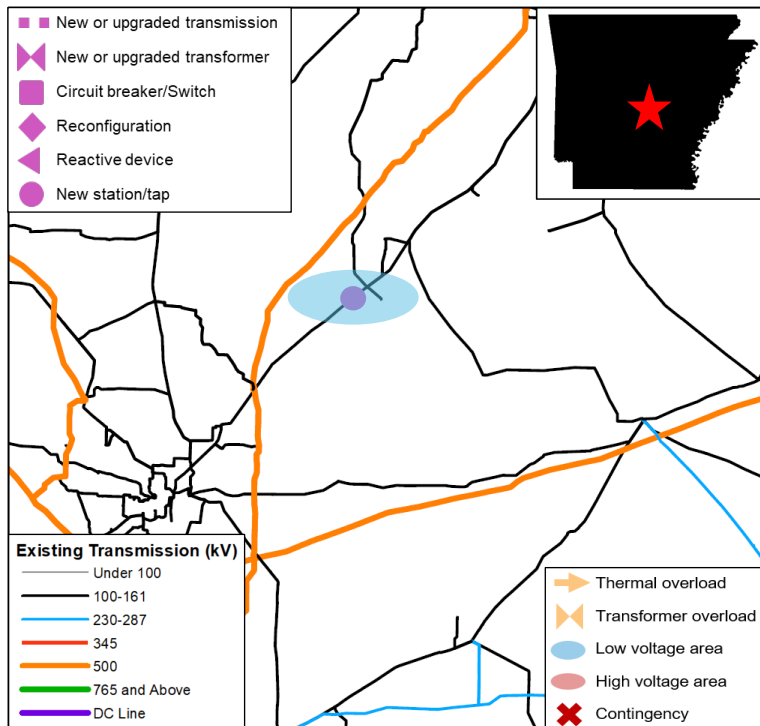
ARKANSAS ELECTRIC COOPERATIVE CORPORATION

MTEP25 Summary



Project location data still needs to be submitted

AECC: Beebe North 115 kV SS – Nelson 115 kV SS



Submitting TO	ARKANSAS ELECTRIC COOPERATIVE CORPORATION
Project #	50191
Project Name	Beebe North 115kV SS - Nelson 115kV SS
Project Type	BRP
Project Description	AECC will construct a new Beebe North 115kV switching station on EAI's Beebe to Garner 115kV transmission line. This new switching station will tap the Beebe to Garner line approximately 2 miles north of EAI's Beebe station. AECC will also construct a new, approximately 7-mile long, 115kV transmission line from the new Beebe North 115kV SS to a new Sylvania 115kV substation. Additionally, AECC will construct another new, approximately 7-mile long, 115kV transmission line from the new Sylvania station to a new Nelson 115kV switching station. The new Nelson 115 kV SS will tie into the Member Coop's existing 115kV system.
System Need	This project is needed to support voltage and improve the reliability of the Member Coop's system caused by normal load growth in the area.
Current Cost	\$37M
Expected ISD	9/1/2028
Target Appendix	A

AECC: Beebe North 115 kV SS – Nelson 115 kV SS

Load Growth in the area leads to low voltage issues without the new 115kV loop and the loss of Holland Bottom to Jacksonville N 115kV.



Voltage Violations

Cont. Type	Limiting Element	Voltage Threshold (pu)	Pre-project (post-cont.) Voltage (pu)	Post-project (post-cont.) Voltage (pu)
N-1	Mt. Carmel 115kV Buss	0.95	0.9196	1.0148
N-1	Nelson 115kV Bus	0.95	0.9218	1.0091
N-1	Nelson SS 115kV Bus	0.95	0.9218	1.0095
N-1	Sylvania 115kV Bus	0.95	0.9205	1.0144
N-1	Cabot S 115kV Bus	0.95	0.9316	0.9917
N-1	Furlow 115kV Bus	0.95	0.9423	0.9824

Preliminary Recommendation | Move to Appendix A

AECC List of Appendix A Projects Submitted for Inclusion in MTEP25

MTEP Project ID	Project Name	Project Type	Other Type	Expected ISD	Current Cost
50191	Beebe North 115kV SS - Nelson 115kV SS	BRP		9/1/2028	\$37.0M
 50594	Helena Harbor Load Addition	Other	Load Growth	12/1/2026	\$18.2M

 Project was submitted and approved through Expedited Project Review (EPR)
 Project still pending Expedited Project Review (EPR)

City Water and Light Plant of Jonesboro, Arkansas (CWLT)

No MTEP25 projects were submitted

Contacts

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Questions?