



2025 MISO Transmission Expansion Plan (MTEP25) Projects near the MISO – SPP Seam

July 2025

MTEP 25 Project Recap

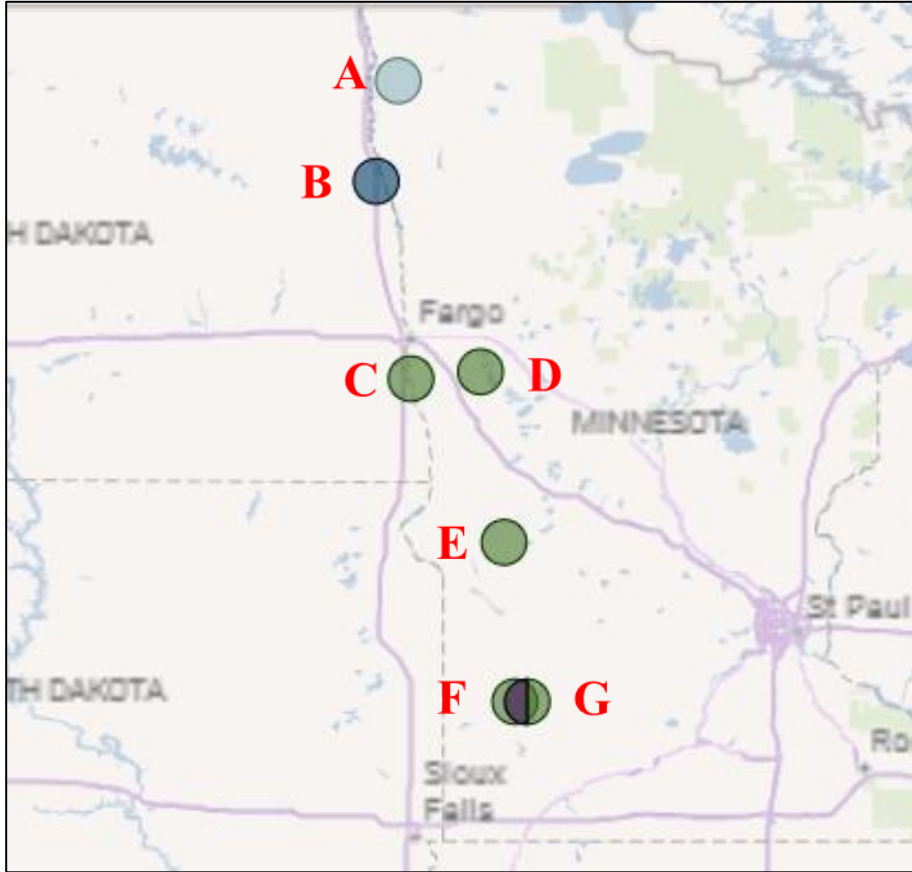
MISO identified MTEP 25 projects near the SPP seam in an ongoing effort to support cross – RTO awareness of transmission development.

This list is non-exhaustive; projects were identified by MISO staff based on

- Local impact
- Project size

Included are target Appendix A projects, however, project information is subject to change as the MTEP25 cycle progresses.

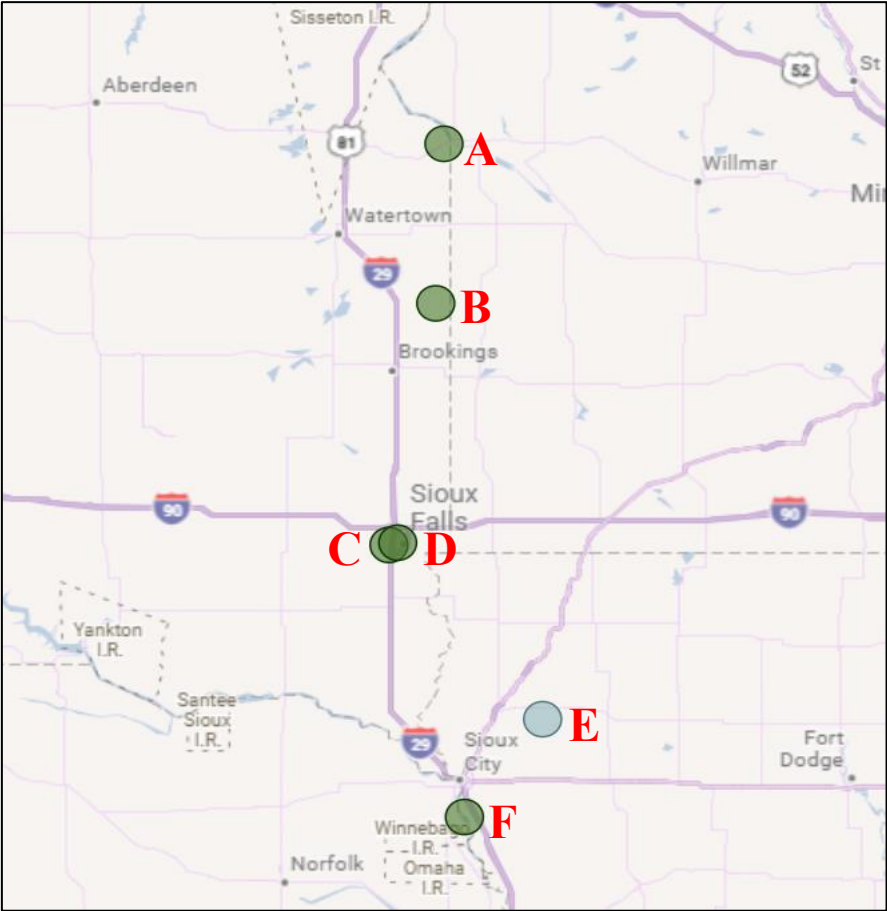
MTEP 25 Appendix A Projects – MN (West Region)



MTEP Project ID	Project ID	Submitting TO	Project Name	Project Type	Expected ISD	Current Cost	Planning Status
50521	A	OTTER TAIL POWER COMPANY	OTP Donaldson South J1575 Interconnection	GIP	8/3/2028	\$8,060,297	M1 - Proposed
50455	B	NORTHERN STATES POWER CO	Prairie Reactor	BRP	1/1/2029	\$10,000,000	M1 - Proposed
50373	C	MINNESOTA POWER INC.	HVDC Flood Diversion	Other	12/31/2026	\$1,177,000	M1 - Proposed
50284	D	GREAT RIVER ENERGY	Cormorant to Pelican Rapids Rebuild Projects	Other	11/29/2030	\$15,056,533	M1 - Proposed
50587	E	GREAT RIVER ENERGY	Darnen Substation	Other	9/15/2026	\$2,362,888	M1 - Proposed
50464	F	MO RIVER ENERGY SVCS - TRANS	Erie Road Substation Rebuild	Other	1/1/2029	\$4,500,000	M1 - Proposed
50489	G	NORTHERN STATES POWER CO	Split Rock - Chanarambie 345kV line JTIQ	BRP	6/30/2033	\$165,000,000	M1 - Proposed
50711	*	NORTHERN STATES POWER CO	Brookings County - Lyon County 345kV Davit Arm Replacement	MVP	9/30/2030	\$91,900,000	M1 - Proposed

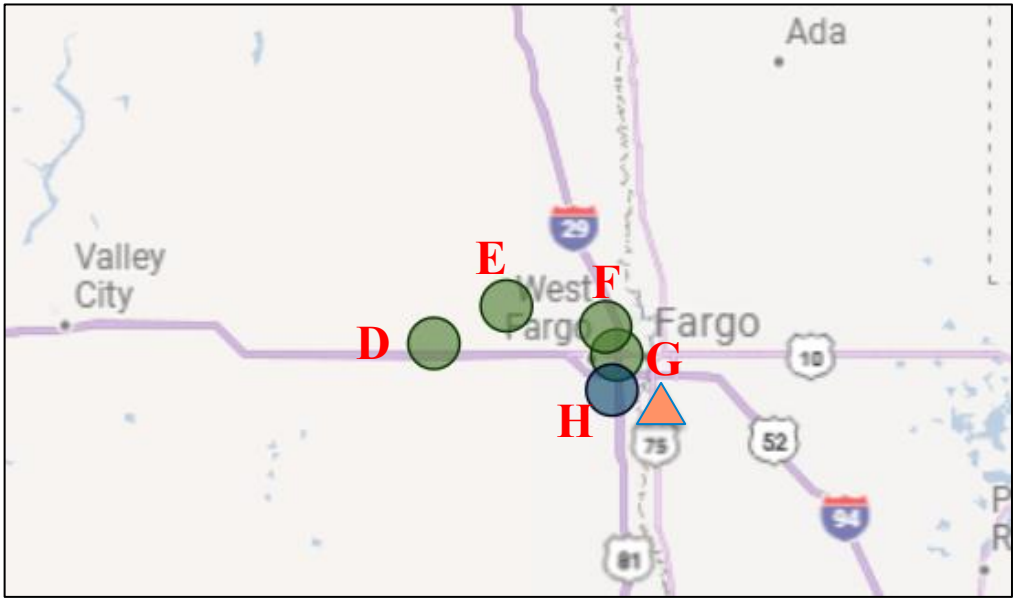
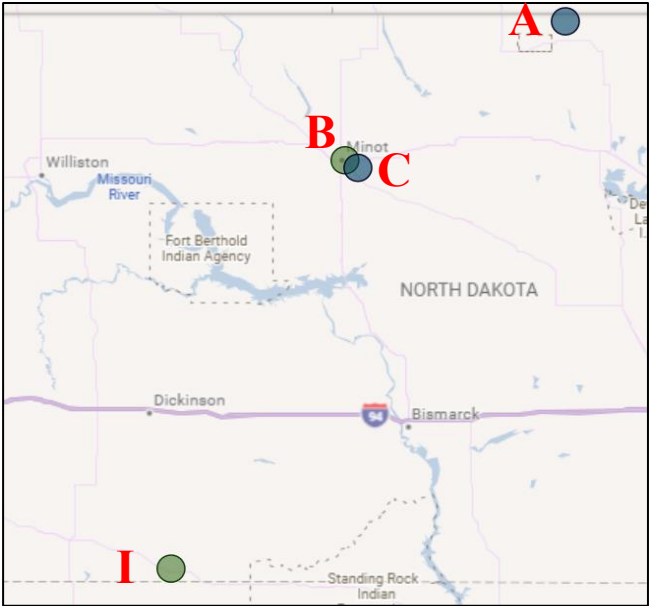
* No geographical information provided

MTEP 25 Appendix A Projects – SD / IA (West Region)



MTEP Project ID	ID	State	Submitting TO	Project Name	Project Type	Expected ISD	Current Cost	Planning Status
50603	A	SD	OTTER TAIL POWER COMPANY	OTP Big Stone South Load Addition	Other	7/1/2025	\$0	M2 - Appendix A Approved
50584	B	SD	OTTER TAIL POWER COMPANY	OTP Astoria North Load Addition	Other	2/1/2026	\$13,000,000	M2 - Appendix A Approved
50424	C	SD	NORTHERN STATES POWER CO	Maple Street Substation	Other	6/1/2027	\$13,000,000	M1 - Proposed
50445	D	SD	NORTHERN STATES POWER CO	Sioux Falls 115kV Conversion	Other	6/1/2029	\$60,000,000	M1 - Proposed
50254	E	IA	MIDAMERICAN ENERGY CO.	Remsen Township 345 kV Substation Expansion for J1590	GIP	9/15/2026	\$4,000,000	M1 - Proposed
50328	F	IA	MIDAMERICAN ENERGY CO.	Neal North: Replace 161-69 kV Transformer Relaying & 69 kV Breaker Replacement	Other	12/1/2029	\$1,500,000	M1 - Proposed

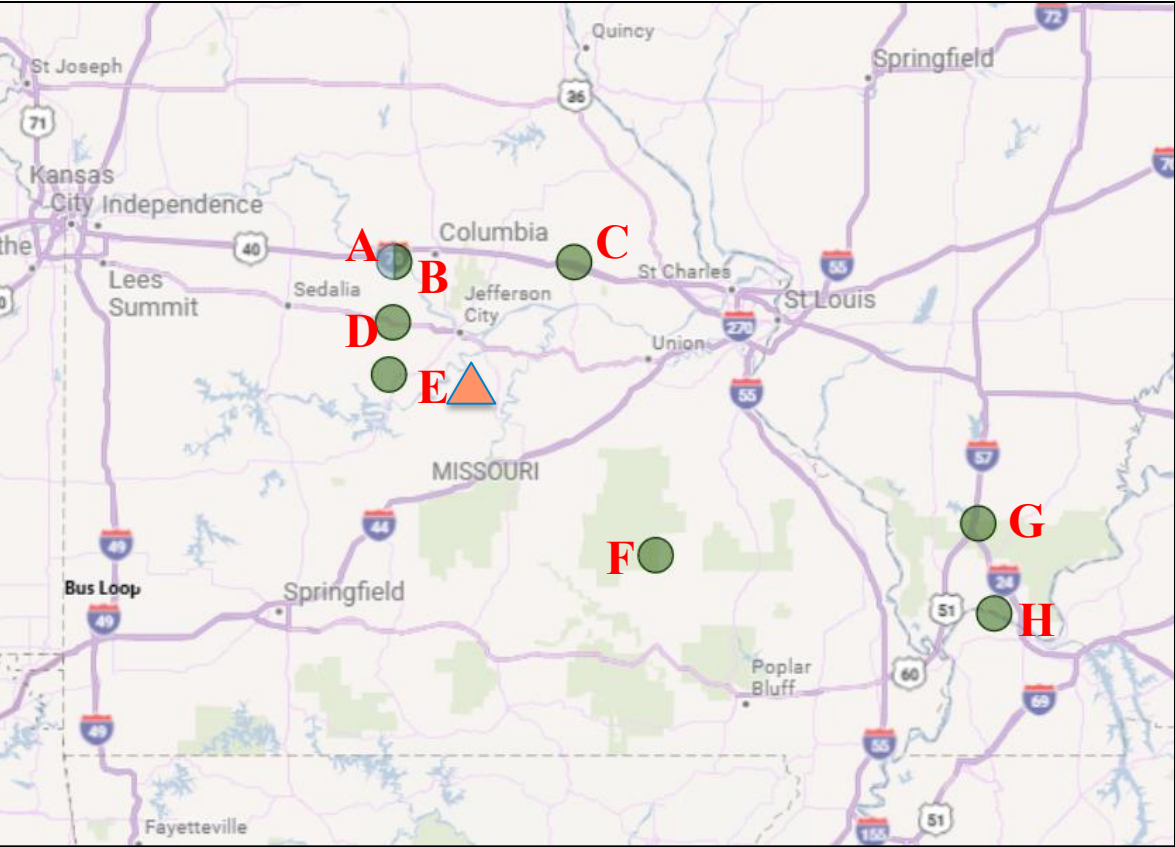
MTEP 25 Appendix A Projects – ND (West Region)



MTEP Project ID	ID	Submitting TO	Project Name	Project Type	Expected ISD	Current Cost	Planning Status
50452	A	NORTHERN STATES POWER CO	Peace Garden Reactor	BRP	6/1/2025	\$1,500,000	M1 - Proposed
50449	B	NORTHERN STATES POWER CO	Roughrider Substation	Other	10/15/2027	\$7,500,000	M1 - Proposed
50451	C	NORTHERN STATES POWER CO	Magic City Reactor	BRP	6/1/2025	\$500,000	M1 - Proposed
50486	D	OTTER TAIL POWER COMPANY	OTP Casselton Town New 115 kV Delivery	Other	12/31/2026	\$1,000,000	M1 - Proposed
50438	E	NORTHERN STATES POWER CO	Line 0955 Relocation	Other	4/30/2025	\$1,897,429	M3 - Under Construction
50467	F	OTTER TAIL POWER COMPANY	OTP Maple River Reactor Retirements	Other	12/31/2025	\$1	M1 - Proposed
50426	G	NORTHERN STATES POWER CO	Thunder Substation	Other	10/15/2027	\$7,300,000	M1 - Proposed
50462	H	NORTHERN STATES POWER CO	Fargo - Sheyenne 230kV Rebuild (Tie line)	BRP	6/1/2029	\$7,500,000	M1 - Proposed
50260	I	MONTANA-DAKOTA UTILITIES CO.	Hettinger-Elgin rebuild to 115 kV	Other	12/31/2027	\$32,100,000	M1 - Proposed
50428	*	NORTHERN STATES POWER CO	Replace Cass County TR1	Other	6/1/2028	\$12,200,000	M1 - Proposed
50454	*	NORTHERN STATES POWER CO	Line 0730 Souris - West Sioux Falls Rebuild	Other	9/1/2025	\$1,000,000	M1 - Proposed

* No geographical information provided
▲ Tie line

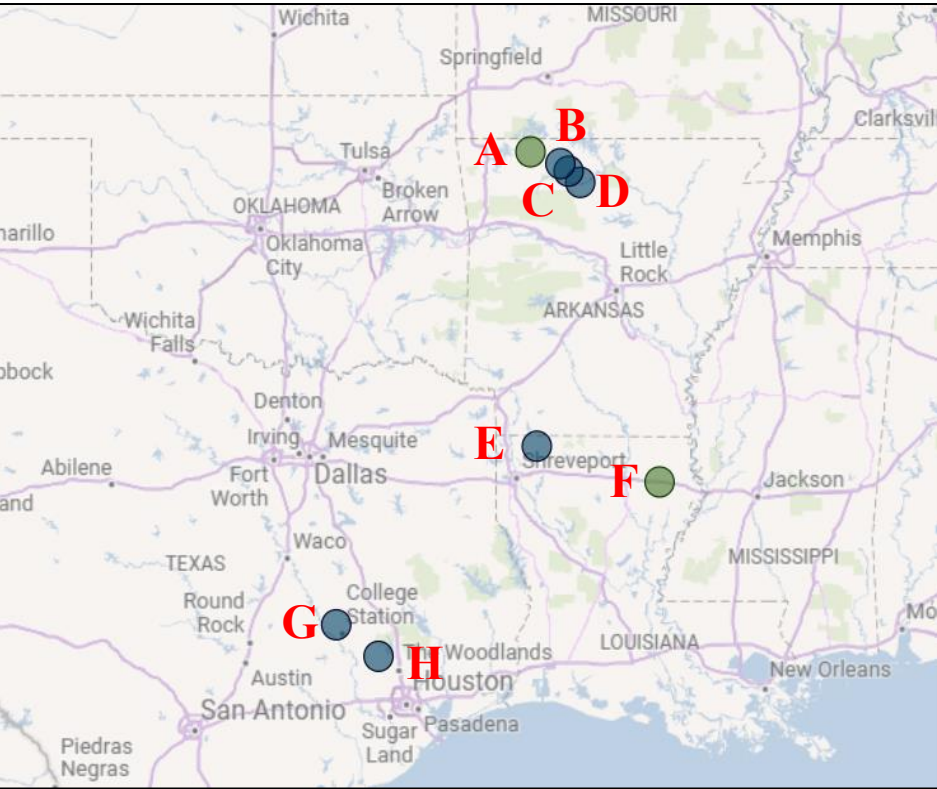
MTEP 25 Appendix A Projects – MO / IL (Central Region)



MTEP Project ID	ID	State	Submitting TO	Project Name	Project Type	Expected ISD	Current Cost	Planning Status
50154	A	MO	AMEREN MO	Grain Belt Express AECI Facilities Construction Agreement (GI-083)	GIP	12/1/2027	\$70,460,000	M1 - Proposed
25497	B	MO	AMEREN MO	Reconfigure Overton 161kV Substation	Other	12/1/2027	\$46,000,000	M1 - Proposed
23046	C	MO	AMEREN MO	Upgrade Montgomery 345/161kV Substation	Other	6/1/2025	\$17,000,000	M1 - Proposed
50227	D	MO	AMEREN MO	Upgrade California 161 kV Terminal	Other	12/1/2027	\$22,600,000	M1 - Proposed
50631	E	MO	AMEREN IL	Missouri Multi-Entity New Transmission (MoMENT) Project (Tie line)	Other	12/1/2030	\$604,000,001	M1 - Proposed
50259	F	MO	AMEREN MO	Rebuild Fletcher-Pilot Knob-2 161kV line	Other	6/1/2026	\$2,149,732	M1 - Proposed
50185	G	IL	AMEREN IL	Replace Marion South 161/138 kV Transformer	Other	12/1/2026	3600000	M1 - Proposed
22908	H	IL	AMEREN IL	Rebuild Joppa - Marion South 161kV line	Other	6/1/2027	\$46,500,000	M1 - Proposed

 Tie line

MTEP 25 Appendix A Projects – AR / LA / TX (South Region)



MTEP Project ID	ID	State	Submitting TO	Project Name	Project Type	Expected ISD	Current Cost	Planning Status
50581	A	AR	ENTERGY ARKANSAS, LLC	Fort Mountain 161kV: Build New Substation	Other	3/31/2026	\$5,727,876	M2 - Appendix A Approved
50388	B	AR	ENTERGY ARKANSAS, LLC	Everton Road - Harrison East 161kV: Rebuild line	BRP	6/30/2028	\$20,140,000	M1 - Proposed
50387	C	AR	ENTERGY ARKANSAS, LLC	Saint Joe - Everton Road 161kV: Rebuild Line	BRP	12/30/2029	\$29,720,000	M1 - Proposed
50386	D	AR	ENTERGY ARKANSAS, LLC	Hilltop - Saint Joe 161kV: Rebuild Line	BRP	6/30/2027	\$12,384,021	M1 - Proposed
50540	E	LA	ENTERGY SERVICES, LLC.	Sarepta to Mount Olive 500 kV Project	BRP	12/1/2028	\$470,100,002	M2 - Appendix A Approved
50539	F	LA	ENTERGY SERVICES, LLC.	Cargas 500 kV and Smalling 500-230 kV stations	Other	12/1/2026	\$1,210,000,000	M2 - Appendix A Approved
50359	G	TX	ENTERGY SERVICES, LLC.	Bryan to Runny 138 kV New Line and Substation	BRP	5/1/2031	\$99,400,001	M1 - Proposed
25436	H	TX	ENTERGY SERVICES, LLC.	Bobville Area Menu Phases 1 through 7	BRP	12/31/2034	\$138,000,000	M1 - Proposed
50350	*	LA	ENTERGY SERVICES, LLC.	Babel to Webre 500 kV New Line	Other	6/1/2030	\$1,066,000,000	M1 - Proposed