



MTEP26 Project Information

MidAmerican Energy Co.; Cedar Falls Municipal Electric Utility; Muscatine Power And Water

2nd West Subregional Planning Meeting

Wednesday, June 3, 2026

Purpose & Key Takeaway

Purpose

Review and discuss submitted MTEP26 projects

Key Takeaways

- The [MTEP Portal](#) was used to gather information and develop SPM materials. All data was pulled on May 15, 2026. To view all MTEP project details, please visit the [MTEP Portal](#).
- Additionally, quarterly status reports are available on the [MTEP website](#) under *Project Tracking and Monitoring*

West Region Overview

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

- MidAmerican Energy Co. (MEC): 15 submitted projects at an estimated cost of \$351 million
- Cedar Falls Municipal Electric Utility (CFU): 1 submitted projects at an estimated cost of \$2 million
- Muscatine Power and Water (MPW) did not submit projects for consideration in MTEP26

Update on Current Cycle Projects since SPM1

MTEP Project ID	Project Name	Project Type	Project Change
51223	E0002 New 345 kV Interconnection Substation and 345 kV Line Taps	GIP	Project added to MTEP26
51331	Black Hawk: Install 345 kV 100 MVAR Capacitor	GIP	Project added to MTEP26
51353	Plymouth 161-69 kV Transformer Replacement	Other – Age and Condition	Project added to MTEP26

MIDAMERICAN ENERGY CO.

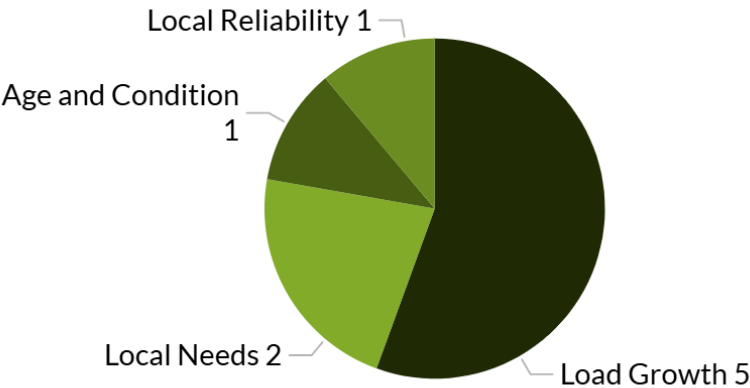
MTEP26 Projects



15
Total Projects

\$351M
Investment

Breakdown of Other Project Types By Project Count



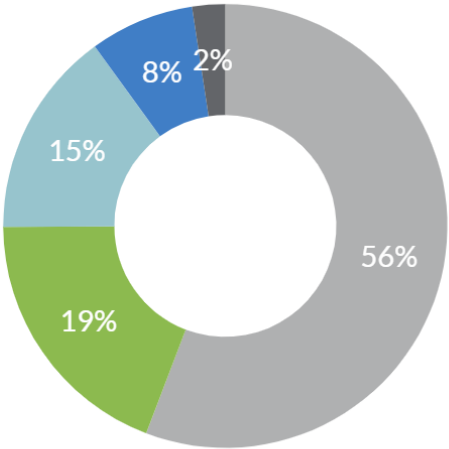
Line Miles by Voltage Level

● ≤161 kV ● 345 kV



Project Facility Types As a Percentage of Cost

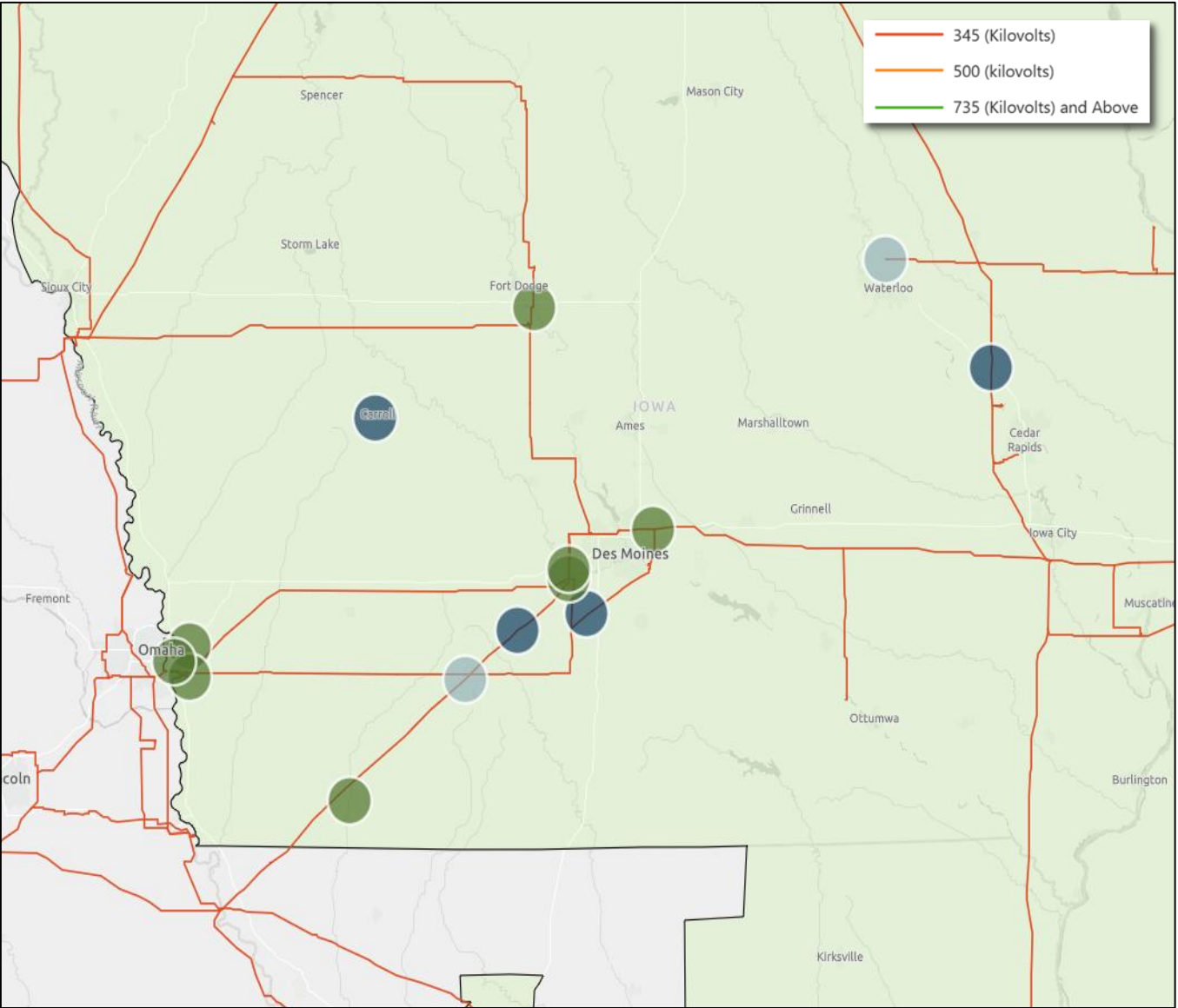
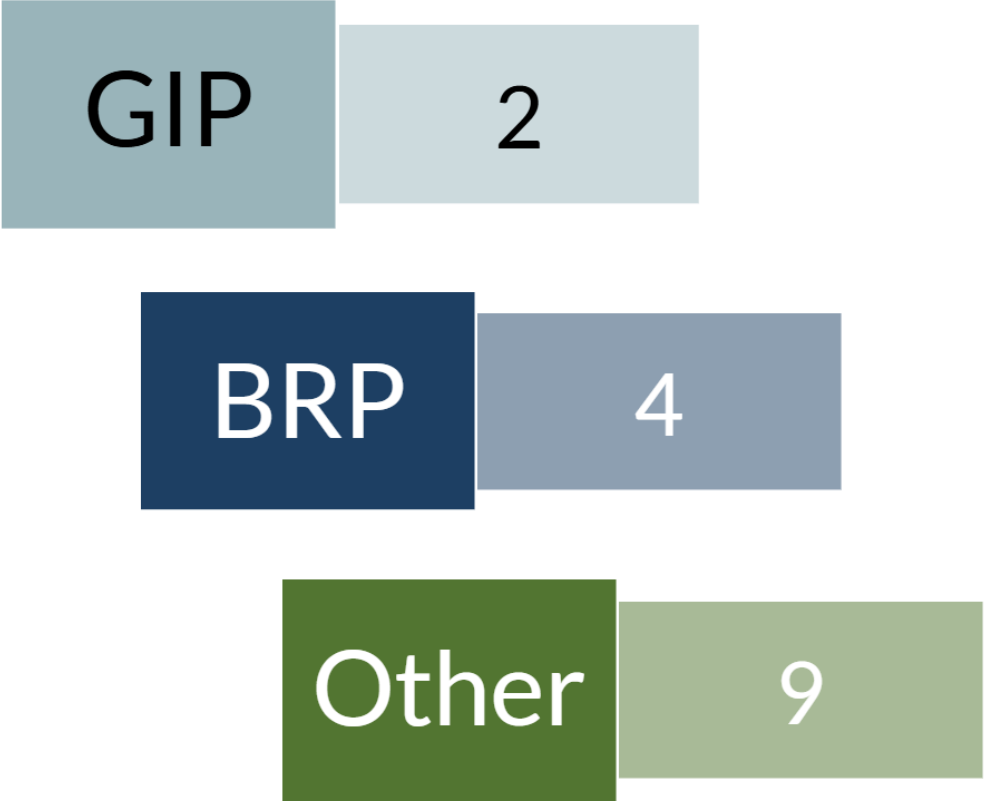
● Substation ● Line New ● Transformer ● Line Upgrade ● Voltage Device



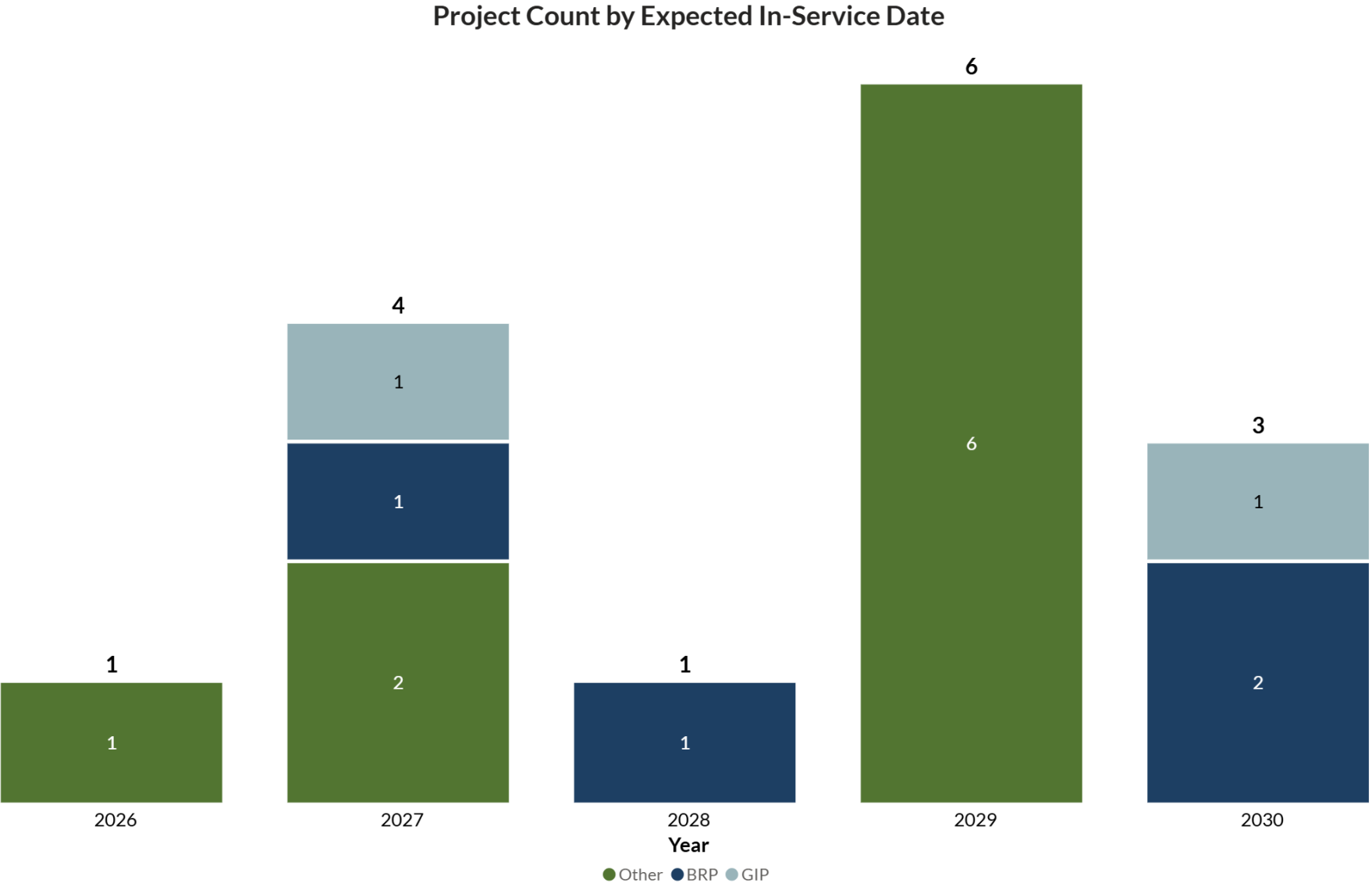
MEC MTEP26 Project Type Breakdown

MIDAMERICAN ENERGY CO.

MTEP26 Summary



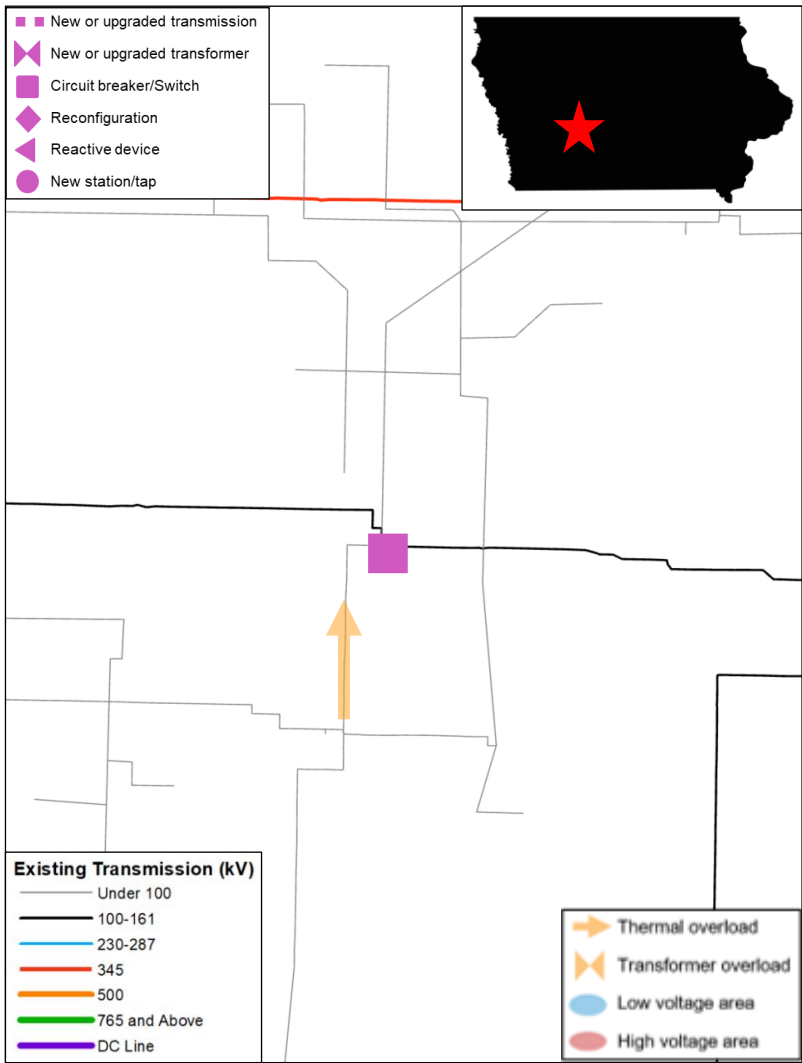
MEC MTEP26 ISD Breakdown



Baseline Reliability Projects (BRPs)

Baseline Reliability Project

Details for Carroll South 69 kV Terminal Uprate



MTEP Project ID	50835
Project Name	Carroll South 69 kV Terminal Uprate
Project Type	BRP
Project Description	Replace 69 kV breaker and associated terminal equipment at Carroll South Substation on Carroll County line terminal
System Need	Line can overload following a P6 contingency at high wind conditions
Current Cost	\$0.5 M
Expected ISD	12/01/2027
Target Appendix	A

Baseline Reliability Project

Details for Carroll South 69 kV Terminal Uprate

- Carroll County -Carroll South 69 kV Line overloads as a result of loss of Monona-Crawford County 161 KV Line and Carroll County-DRAGER 161 KV Line. Post-contingent, the line overloads up to 127%. Replacing 69 kV breaker and associated terminal equipment will eliminates these overloads. Post-project, the line will only load up to 91% of its rating post-contingent.

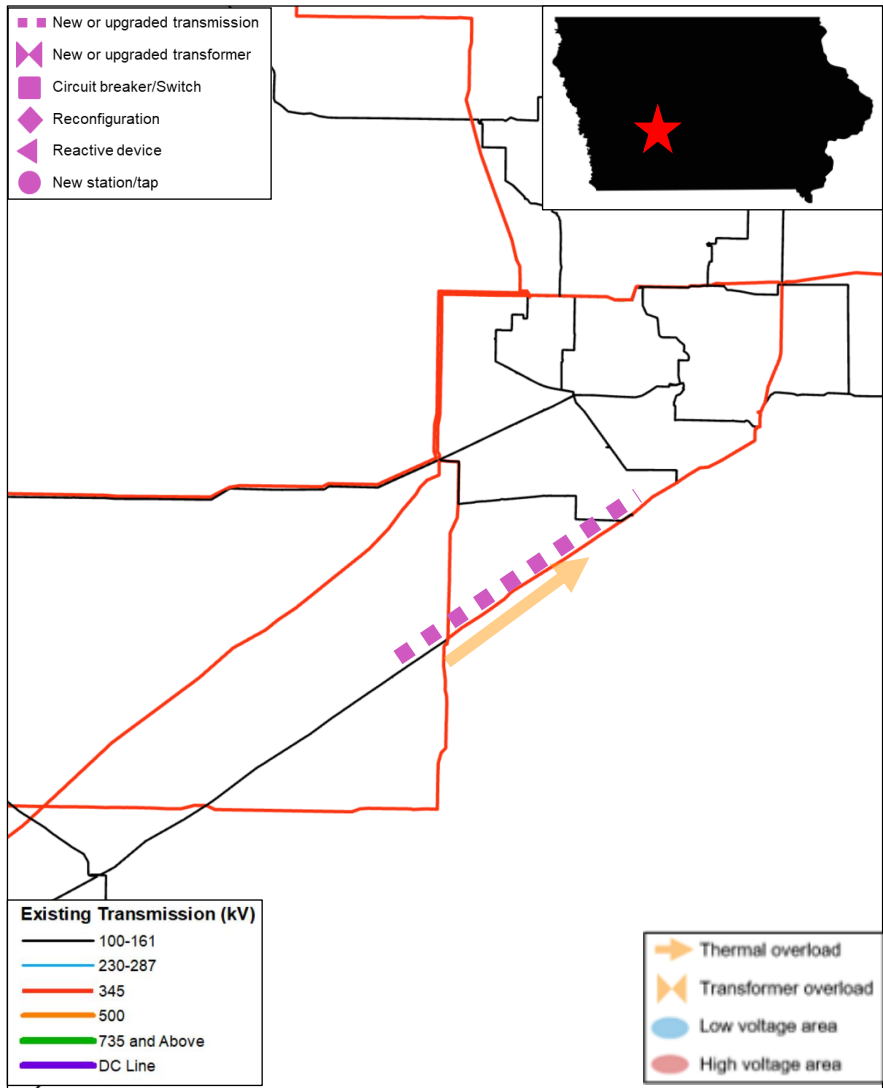
MTEP26 (Thermal/Voltage) Violations

Cont. Type	Limiting Element	Pre-project (post-cont.) Loading (%)	Post-project (post-cont.) Loading (%)
N-1-1	[MEC] Carroll County - [MEC] Carroll South 69 KV Line	127	91

Preliminary Recommendation: Move to Appendix A

Baseline Reliability Project

Details for Norwalk-Winterset 161 kV Line Uprate



MTEP Project ID	50836
Project Name	Norwalk-Winterset 161 kV Line Uprate
Project Type	BRP
Project Description	Replace transmission line structures to increase 161 kV line rating.
System Need	MTEP25 2030 generator deliverability analysis shows line overloads for P1 single contingencies.
Current Cost	\$0.3 M
Expected ISD	06/01/2030
Target Appendix	A

Baseline Reliability Project

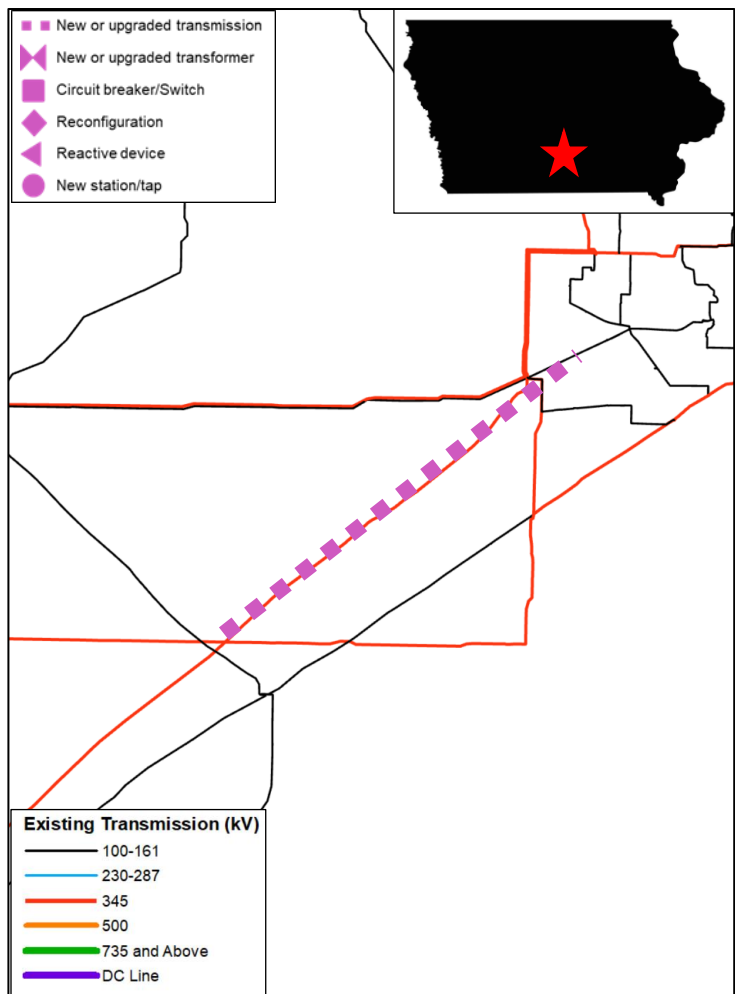
Details for Norwalk-Winterset 161 kV Line Uprate

- This project is driven by the MTEP25 Generator Deliverability (D6) study. Evaluation of this project will be continued between SPM2 and SPM3.

Preliminary Recommendation: Continued analysis in MTEP26

Baseline Reliability Project

Details for Southern Hills-Booneville 345 kV Line Uprate



MTEP Project ID	51122
Project Name	Southern Hills-Booneville 345 kV Line Uprate
Project Type	BRP
Project Description	Replace transmission line structures to increase 345 kV line rating.
System Need	MTEP25 2030 generator deliverability analysis shows line overloads for P1 single contingencies.
Current Cost	\$2.2 M
Expected ISD	06/01/2030
Target Appendix	A

Baseline Reliability Project

Details for Southern Hills-Booneville 345 kV Line Uprate

- This project is driven by the MTEP25 Generator Deliverability (D6) study. Evaluation of this project will be continued between SPM2 and SPM3.

Preliminary Recommendation: Continued analysis in MTEP26

BRP Project Summary

MTEP Project ID	Project Name	Expected ISD	Current Cost
50835	Carroll South 69 kV Terminal Uprate	12/01/2027	\$0.5 M
50836	Norwalk-Winterset 161 kV Line Uprate	06/01/2030	\$0.3 M
51122	Southern Hills-Booneville 345 kV Line Uprate	06/01/2030	\$2.2 M
<u>51174</u>	<u>MidAmerican Energy Upgrades for MTEP 50775 Linn County 620 MW Load Addition</u>	<u>07/01/2028</u>	<u>\$1.2 M</u>

Bold MTEP Project IDs indicate submission through the Expedited Project Review (EPR) process.
Bold and Underlined MTEP Project IDs indicate the project is Appendix A approved via the EPR process.

Other Projects

MTEP Project ID	Project Name	Other Type	Expected ISD	Current Cost
<u>50721</u>	<u>East Kanesville 161 kV Substation & 161 kV Lines</u>	<u>Load Growth</u>	<u>06/01/2029</u>	<u>\$56.5 M</u>
50832	DMAT North 345 kV Substation and line taps	Load Growth	05/01/2029	\$32.0 M
50834	Clarinda 69 kV Terminal Upgrade	Local Needs	12/01/2027	\$1.1 M
50853	Booneville: Retire 13 kV Reactors	Local Reliability	12/01/2026	\$0.3 M
51085	Green Hill Substation and Associated 345 kV Lines	Load Growth	07/01/2029	\$64.0 M
<u>51087</u>	<u>Indian Creek West 161 kV Substation & Associated Upgrades</u>	<u>Load Growth</u>	<u>07/01/2029</u>	<u>\$103.1 M</u>
51192	Webster and Lehigh Substation Terminal Equipment Upgrades	Local Needs	12/31/2027	\$2.0 M
<u>51216</u>	<u>Van Meter 161 kV Substation and Associated 161 kV Upgrades</u>	<u>Load Growth</u>	<u>02/01/2029</u>	<u>\$42.5 M</u>
51353	Plymouth 161-69 kV Transformer Replacement	Age and Condition	07/01/2029	\$7.9 M

Bold MTEP Project IDs indicate submission through the Expedited Project Review (EPR) process.
 Bold and Underlined MTEP Project IDs indicate the project is Appendix A approved via the EPR process.

Unlabeled

Generator Interconnection Projects (GIPs)

Generator Interconnection Projects (GIPs)

MTEP Project ID	Project Name	Expected ISD	Current Cost
51223	E0002 New 345 kV Interconnection Substation and 345 kV Line Taps	09/01/2027	\$29.1 M
51331	Black Hawk: Install 345 kV 100 MVAR Capacitor	04/01/2030	\$8.1 M

Cedar Falls Municipal Electric Utility (CFU)- One Submitted via EPR Process

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Questions?



MISO is the electric grid operator for the central United States. We ensure power flows reliably and affordably across 15 states and the Canadian province of Manitoba. Additionally, MISO facilitates the buying and selling of electricity in its region and partners with its stakeholders to plan the grid of the future.

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