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CHAPTER 3: LOCAL RELIABILITY PLANNING

3.1 MTEP26 Investment Summary

The MTEP26 portfolio consists of 532 new Appendix A projects (Figure 3.1-1), representing over \$14.7 billion in transmission infrastructure investment across the MISO region. Of these projects, 385 are classified as “Other” projects, 80 as Generator Interconnection Projects, 66 as Baseline Reliability Projects, and one as a Market Participant Funded Project (MPFP).

Of the 385 projects classified as “Other”, 42% are driven by age and condition, 28% by local reliability, and 22% by load growth. When considering the percentage of total investment in MTEP26, Load growth is the largest driver, with the majority concentrated in the West and South subregions.

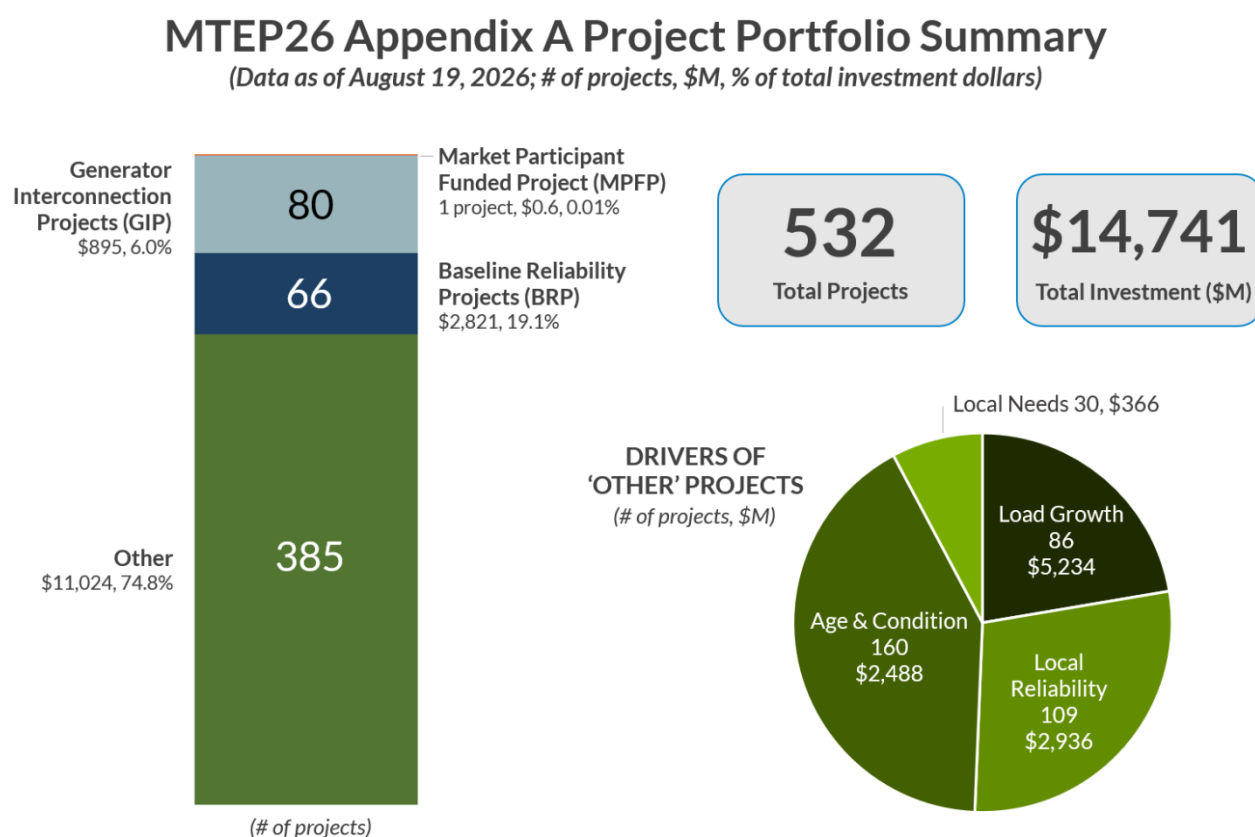


Figure 3.1-1: Appendix A project portfolio summary (data as of 8-19-2026).

Table 3.1-1, below, summarizes MTEP26 projects by planning subregion, project category, and the number of projects within each subregion.



MTEP26 Appendix A Project Investment Summary

(Data as of August 19, 2026; \$M, number of projects, and % of total investment dollars)

Planning Region	Baseline Reliability Project (BRP)	Generator Interconnection Project (GIP)	Market Participant Funded Project (MPFP)	Other Project	Total	# of Projects
Central	\$396	\$258	-	\$1,979	\$2,633	151
East	\$224	\$76	-	\$979	\$1,279	62
South	\$1,938	\$439	\$1	\$3,424	\$5,802	94
West	\$263	\$121	-	\$4,642	\$5,026	225
Total	\$2,821	\$894	\$1	\$11,024	\$14,740	532

Table 3.1-1: Appendix A project investment summary (data as of 8-19-2026).

The MTEP26 projects are distributed across MISO's entire footprint and reflect several key characteristics (Figure 3.1-2). In total, the portfolio includes 2,320 transmission miles; 40% representing new line miles with 43% located in the West subregion, and 27% in the Central subregion. MTEP26 also consists of transmission to facilitate the reliable interconnection of a record 26.6 GW of large load additions, of which 26.2 GW were approved through the Expedited Project Review (EPR) process. The portfolio includes 89 approved EPRs, including both original submittals and mitigating transmission projects, which account for 55% of the total investment, with approximately 72% of the EPR-related investment (primarily Other - Load Growth projects) in the South and in the Central subregions. Overall, the South accounts for 39% of the total investment, the West 34%, and the Central 18%.



MTEP26 Appendix A Project Highlights

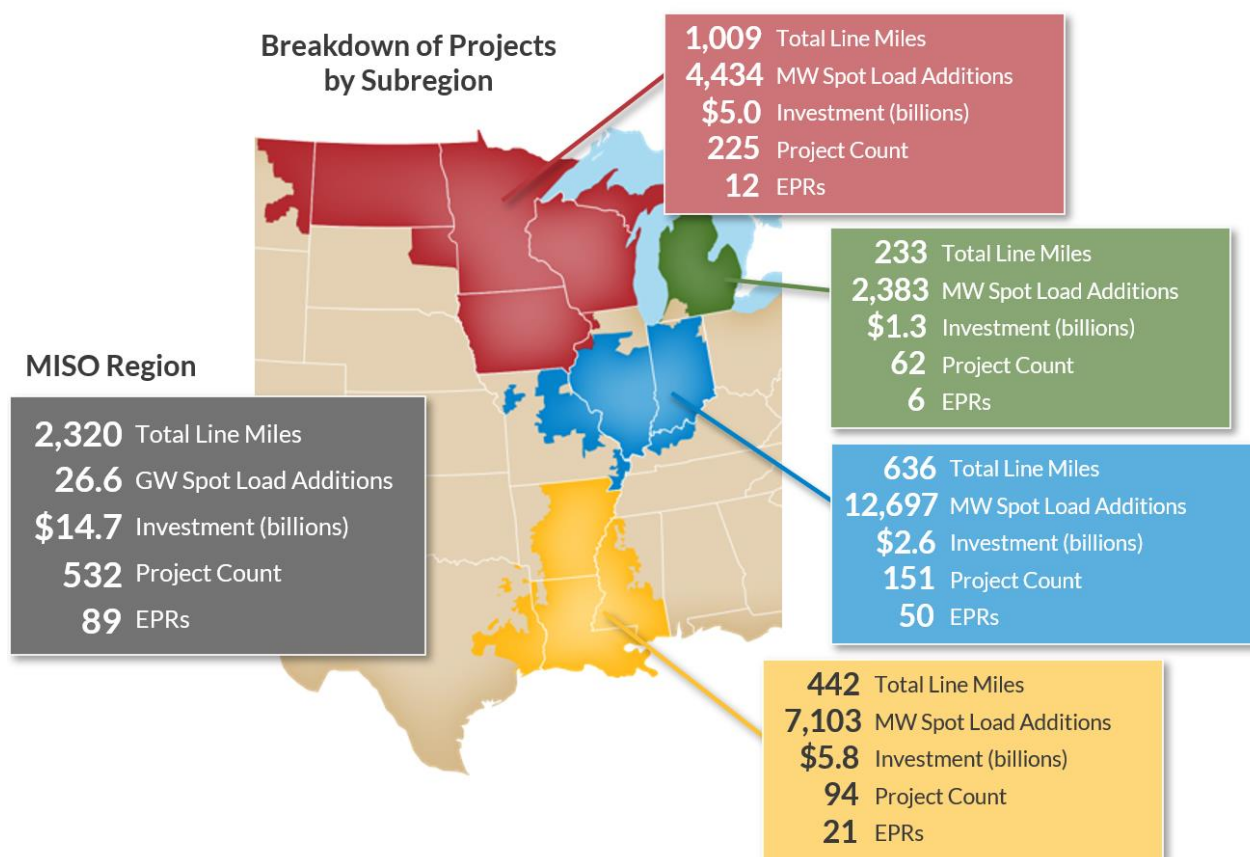


Figure 3.1-2: Appendix A project highlights (data as of 8-19-2026).

Within MTEP26 projects, the top ten projects account for roughly 44%, or \$6.4 billion, of the total \$14.7 billion investment, and span all four planning subregions (Figure 3.1-3). Among these top ten projects, 60% are projects classified as “Other”, 40% are in the South, and 80% were submitted through the EPR process.



Top 10 MTEP26 Appendix A Projects

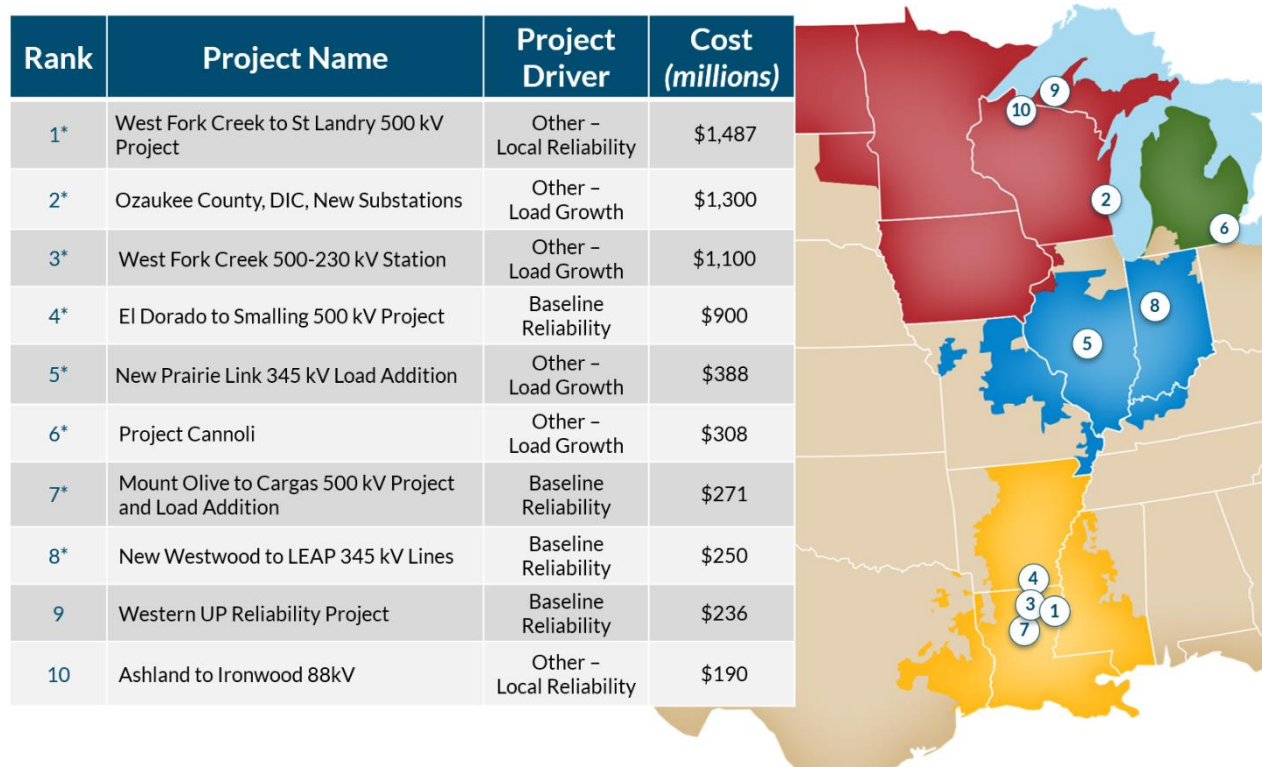


Figure 3.1-3: List of top ten MTEP26 projects as of August 19, 2026, blanket renewal projects excluded from ranking, and * represents projects studied through Expedited Project Review (EPR) process.



Of the total projects for MTEP26, 70% are projected to go into service within the next three years (Figure 3.1-4).

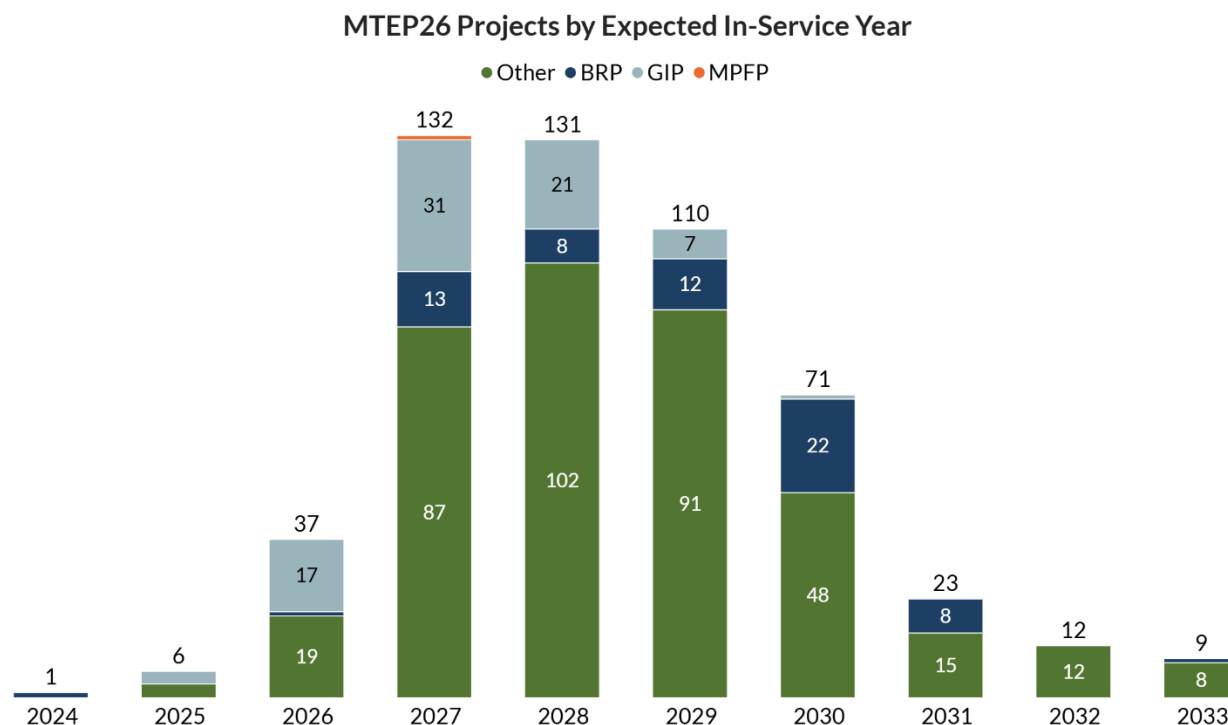


Figure 3.1-4: Number of MTEP26 Projects by In-Service Year (data as of 8-19-26).

Facility Type

Each MTEP project is composed of one or more facilities, where each facility represents an individual element of the project. Examples of facilities include substations, transformers, voltage devices, circuit breakers or various types of transmission lines (Figure 3.1-5).

The largest share (43%) of facility investment in the MTEP26 cycle is dedicated to substation or switching station construction and maintenance. This includes new substations as well as terminal equipment work, circuit breaker additions and replacements. Thirty-one percent is dedicated to new lines on new rights-of-way in MISO. Twenty percent is dedicated to line upgrades, which includes rebuilds, conversions and relocations. The remaining six percent of facility costs are allocated among voltage devices, transformers and miscellaneous categories.



MTEP26 Transmission Investment by Facility Type

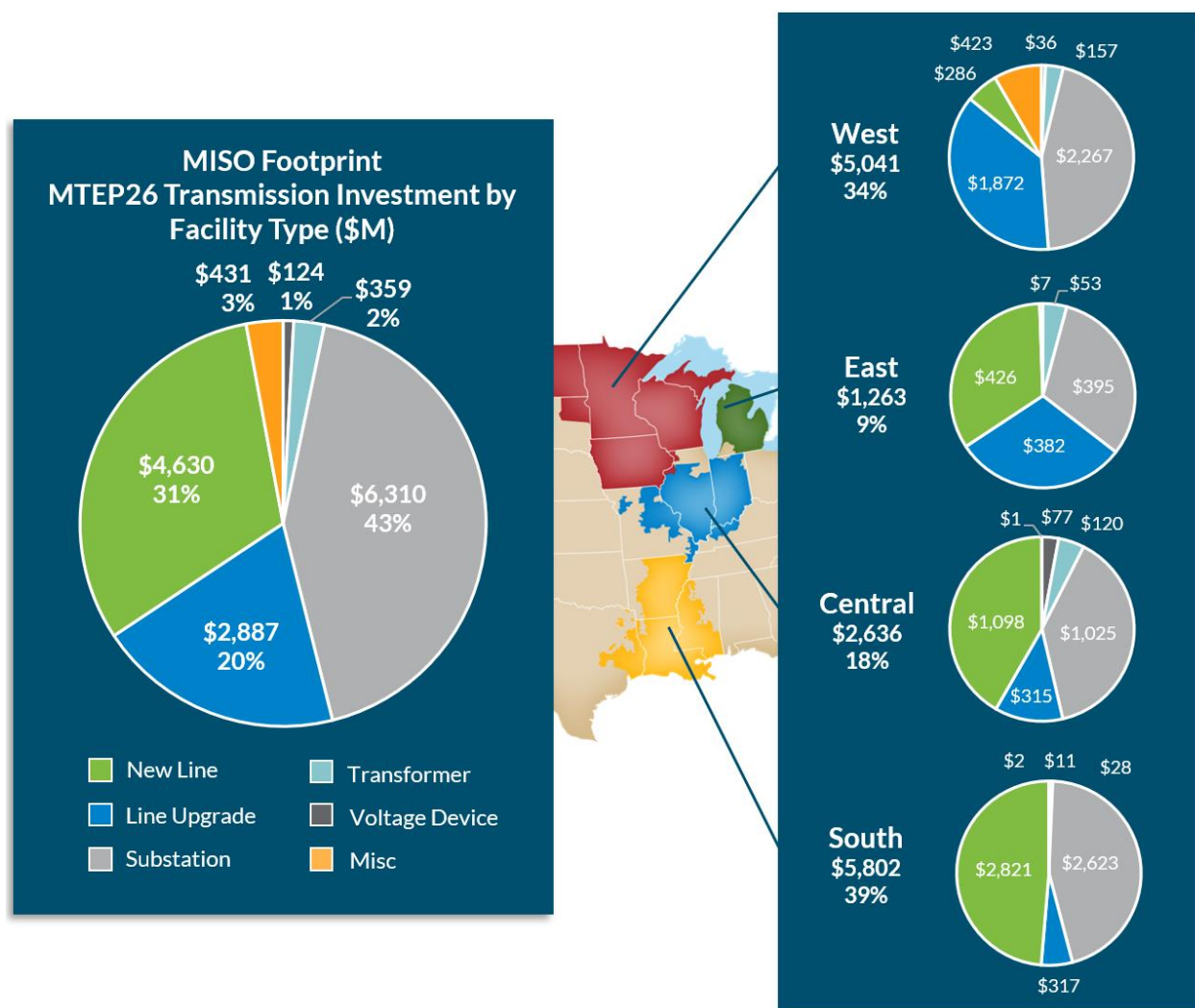


Figure 3.1-5: Facility type investment for new MTEP26 Appendix A projects by planning region (as of 8-19-26).

New Appendix A projects can be broken down at the facility level and are distributed across 14 states (Figure 3.1-6). These geographic trends vary greatly from year to year, depending on local needs, asset renewal programs, or when existing transmission capacity is consumed and new build becomes necessary. This year, investments at the facility level span all subregions, with the largest investment in Louisiana.

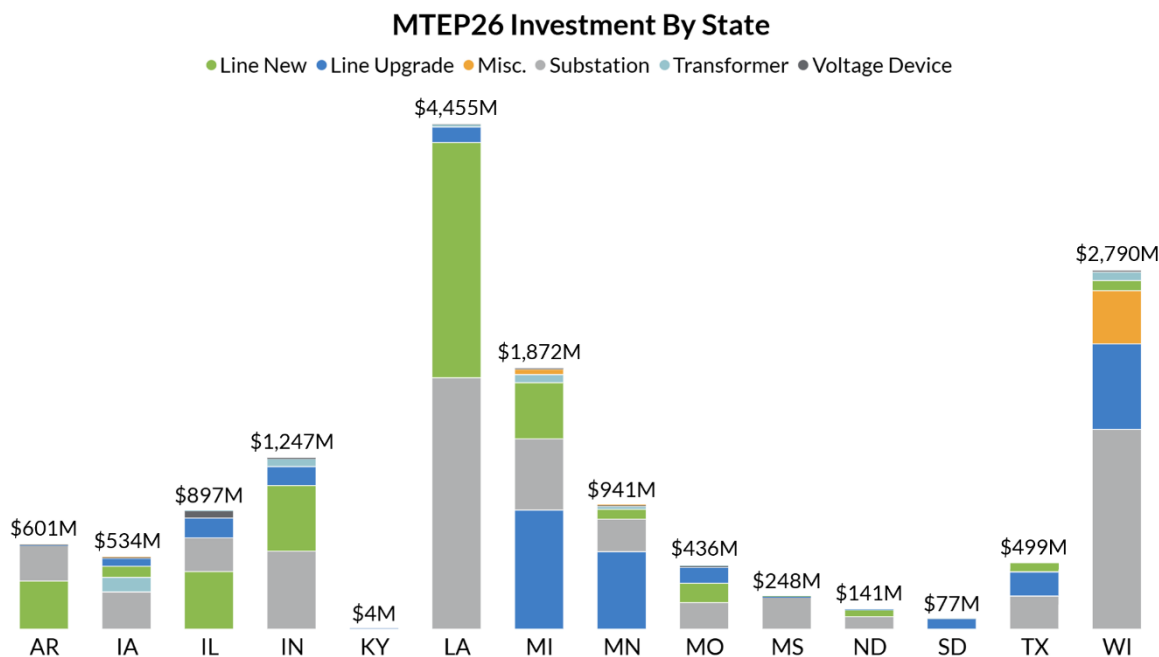


Figure 3.1-6: MTEP26 Appendix A investment categorized at the facility-level by state (as of 8-19-26).

MTEP26 New and Upgraded Line Miles

MTEP26 Appendix A projects total approximately 2,320 miles of new (Figure 3.1-7) or upgraded lines (Figure 3.1-8). Of the total, 43% of new or upgraded line miles are expected to go into service within the next three years, and 88% within five years. There are 1,684 impacted line miles, or 73% of the total, that are 230 kV or lower, and 636 line miles (27%) projected at 345 kV or higher.

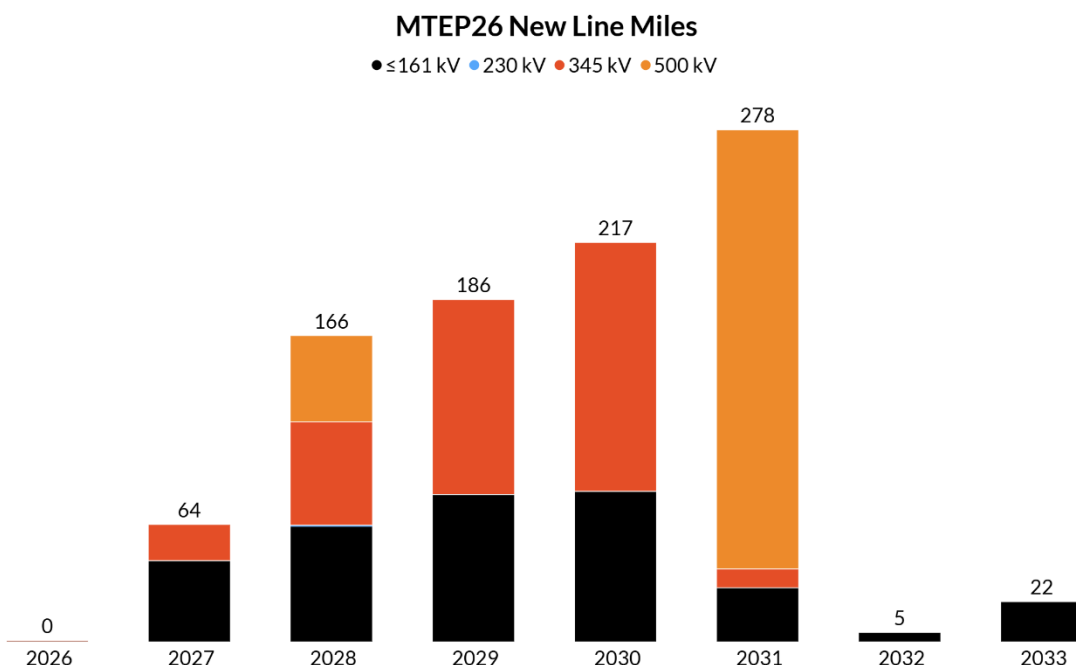


Figure 3.1-7: New line miles in MTEP26 Appendix A projects categorized by expected In-Service Year (as of 8-19-26).

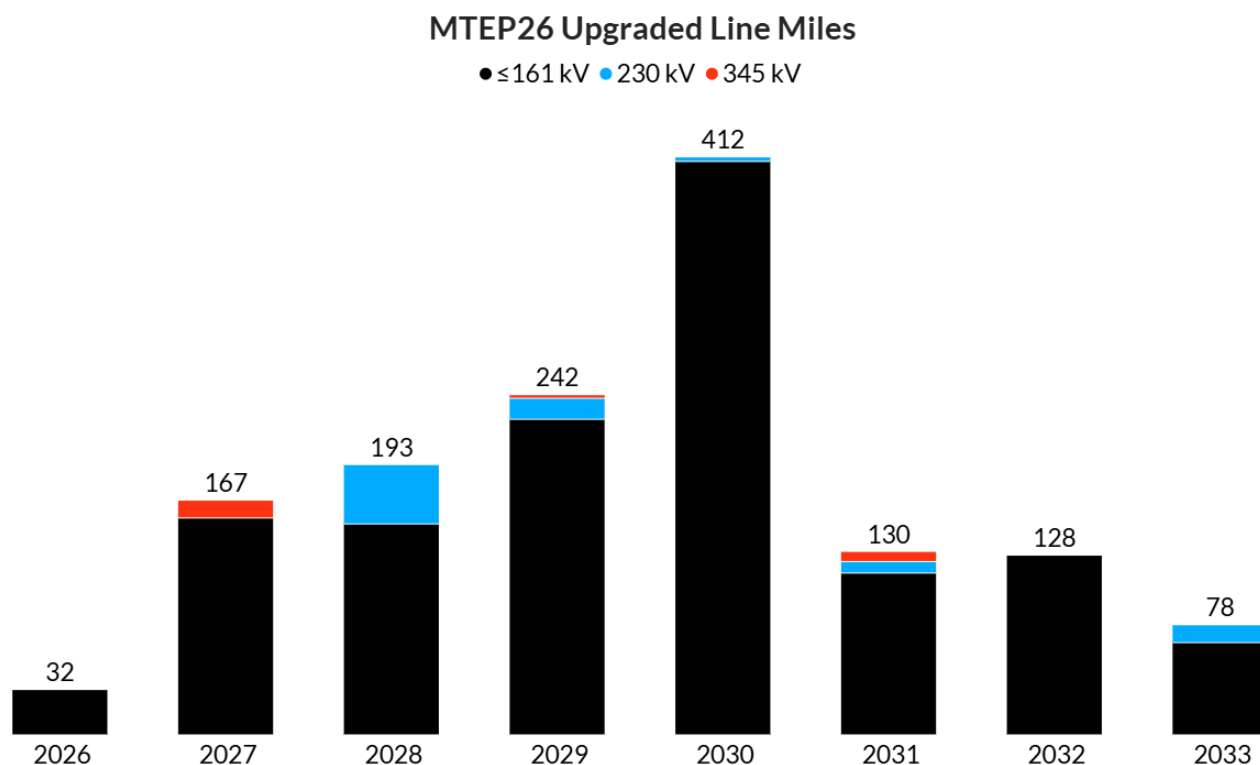


Figure 3.1-8: Upgraded line miles in MTEP26 Appendix A projects categorized by expected In-Service Year (as of 8-19-26).

MTEP26 Project Recommendations

The MTEP26 portfolio consists of 532 projects totaling nearly \$14.7 billion in investment from 36 Transmission Owners who submitted projects across MISO's footprint. Table 3.1-2 provides a summary of each Transmission Owner's number of projects and the corresponding estimated investment totals being recommended.



Transmission Owners	Baseline Reliability Projects		Generator Interconnection Projects		Other		Market Participant Funded Projects		Grand Total	
	#	\$M	#	\$M	#	\$M	#	\$M	#	\$M
1803 Electric Cooperative, Inc.					14	155			14	155
Ameren Illinois	2	62	18	103	10	201			30	367
Ameren Missouri	3	14	8	59	11	277			22	350
Ameren Transmission Company of Illinois			1	15	6	471			7	486
American Transmission Company	1	236	3	73	75	2,742			79	3,051
Arkansas Electric Cooperative Corporation					1	30			1	30
Big Rivers Electric Corporation					1	4			1	4
Citizens Electric Corporation					9	58			9	58
CLECO Power	1	87			1	30			2	117
Cooperative Energy					1	4			1	4
Dairyland Power Cooperative					9	101			9	101
Duke Energy Indiana	1	250			13	111			14	362
East Texas Electric Cooperative	2	152							2	152
Entergy Arkansas	1	4	11	187	5	110	1	1	18	301
Entergy Mississippi	1	7	5	27	5	209			11	243
Entergy Services	20	1687	14	226	10	2876			44	4790
Great River Energy	1	5			33	427			34	432
Hoosier Energy	1	2			11	312			12	314
Indianapolis Power & Light Company	5	60	1	37	3	79			9	175
ITC	11	204	1	2	13	607			25	813
ITC Midwest	1	2			10	109			11	111
Michigan Electric Transmission Co.	7	20	11	74	8	296			26	390
MidAmerican Energy Co.	4	6	2	37	9	310			15	353
Minnesota Power Inc.					8	25			8	25
Minnkota Power Cooperative, Inc			1	9	3	25			4	34
Missouri River Energy Services					4	15			4	15
Montana-Dakota Utilities Co.					3	112			3	112
Northern Indiana Public Service Company	1	0.03	2	44	3	103			6	147
Northern States Power Company	1	15			43	720			44	735
Otter Tail Power Company					9	9			9	9
Prairie Power, Inc.					15	107			15	107
Sam Houston Electric Cooperative, Inc.					1	10			1	10
Southern Indiana Gas & Electric Co.	1	5			12	85			13	90
Southern Minnesota Municipal Power Ag.			2	2	3	46			5	48
Wabash Valley Power Association, Inc	1	3			12	170			13	173
Wolverine Power Supply Cooperative, Inc					11	77			11	77
	66	2,821	80	895	385	11,024	1	1	532	14,741

Table 3.1-2: MTEP26 Appendix A new project investment and totals by Transmission Owners (as of 8-19-2026).

MISO considered an alternative for one project in the South subregion. As a result of the alternative analysis, MISO selected the original project over the alternative.



MISO also considered an alternative for an EPR project in the Central subregion. As a result of the alternative analysis, MISO selected the original project over the alternative.

In the East subregion generation redispatch was considered as an alternative for four projects. As a result of analysis, redispatch was found to serve as alternative mitigation for two projects. MISO selected the original projects for the other two.

#	Project Name	Planning Subregion	MISO Recommendation
1	Baxter Wilson to Smalling - Alternative to El Dorado to Smalling 500 kV	South	Primary project was selected over the submitted alternative due to increased reliability risks with the alternative project.
2	New 345 kV Lines for New Truett Load Addition	Central	Primary project was selected over the submitted alternative due to increased reliability risks with the alternative project.
3	Reconductor Brownstown-Monroe #1 345 kV	East	Requested to pursue redispatch alternative. Original project selected due to NPOA studies.
4	Rebuild Baxter-Warren 230kV Line	East	Request to pursue redispatch alternatives was successful. Original project recommended for appendix B.
5	Rebuild Navarre-DBGEN Tap-Waterman 230kV Line	East	Request to pursue redispatch alternatives was successful. Original project recommended for appendix B.
6	Install New St.Antoine - Waterman 120kV Circuit	East	Requested to pursue redispatch alternative. Original project selected since no successful redispatch was found.



Expedited Project Review (EPR)

In accordance with Attachment FF of the Tariff, in the event a Transmission Owner determines that system conditions warrant the urgent development of system enhancements, an expedited review of the impacts of the project may be requested. MISO shall use a streamlined approval process for reviewing and approving projects proposed by the Transmission Owner(s), and decisions will be provided to the Transmission Owner within 30 days of the project's submittal to MISO, unless a longer review period is mutually agreed upon. Out of the 532 local MTEP26 projects submitted in this cycle, MISO received and evaluated 89 EPR requests (Figure 3.1-9). These projects move through a streamlined approval process due to immediate system needs. The volume of EPRs continues to be driven by accelerating load growth trends, consistent with previous MTEP cycles. The following local MTEP26 projects were submitted through the EPR process:

EPR Cycle	Project ID	Project Name	Planning Region	Current Cost (\$M)
February 2026	18201	Upgrade Hunters Creek - Stratford 120 kV	East	\$3
December 2025	18208	Upgrade Airport - Woodhaven Tap 120 kV	East	\$1
August 2025	50633	Rebuilds on 138 kV from Diamond Core Load Addition (RECC Territory)	Central	\$50
June 2025	50700	New Antioch 345 kV substation and Load	Central	\$69
August 2025	50713	New Mount Olive - Cargas 500 kV line and Load Addition	South	\$271
August 2025	50721	East Kanesville 161 kV Substation & 161 kV Lines	West	\$57
August 2025	50730	Cortland 120 kV Station Expansion	East	\$43
August 2025	50732	New Leemon 69 KV substation for load addition	Central	\$3
August 2025	50735	New RECC Load Addition at Mogul 345 kV substation (Phase 2)	Central	\$1
August 2025	50736	New Load Addition at Austin 345 kV substation	Central	\$12
August 2025	50737	New Load Addition at New Elkhorn 345 kV substation (Elkhorn Phase 2)	Central	\$40
August 2025	50738	New Load Addition at New Yoshi 345 kV substation	Central	\$109
August 2025	50740	Indian Bayou 230 kV Station	South	\$68
August 2025	50741	New Montgomery 345 kV Temporary Tap (Elkhorn Phase 1)	Central	\$0
June 2025	50743	New Elkhorn 280 Mvar Cap Bank	Central	\$12
August 2025	50744	Juban Trails (DEMCO) 230 kV substation	South	\$55
August 2025	50746	1803 - 2025 Age and Condition Program	South	\$1
August 2025	50747	New Sub 138 kV Sub Fish Lake	South	\$10
June 2025	50768	Uprate Sunnyside 345/138 kV Autotransformer	Central	\$2
October 2025	50775	Linn County 620 MW Load Addition	West	\$11



EPR Cycle	Project ID	Project Name	Planning Region	Current Cost (\$M)
October 2025	50779	Riddle 230 kV Station and Line Upgrade	South	\$28
October 2025	50780	West Glencoe	West	\$7
June 2025	50789	Replace Guion South 345/138 kV Autotransformer	Central	\$12
June 2025	50790	Expand Blue Bluff 138 kV switchyard	Central	\$30
October 2025	50791	New Project Point 345 kV BAAH substation	Central	\$43
June 2025	50795	Uprate Guion - Whitestown 345 kV	Central	\$15
October 2025	50796	Repair Wittenberg 138 kV Switching Station Access Road	Central	\$2
October 2025	50797	Remediate Grand Tower 138 kV Foundation Erosion	Central	\$2
April 2026	50798	Upgrade Disco 138/69 kV Transformer	Central	\$1
April 2026	50805	New Hopewell 138/69 kV Substation and Lines	Central	\$11
April 2026	50809	Rebuild Winchester - Wolf Run 69 kV	Central	\$10
October 2025	50885	New CADC 138 kV Ring bus	Central	\$24
October 2025	51051	New Greensburg 138 kV Load Addition	Central	\$11
October 2025	51057	Ozaukee County, DIC, New Substations	West	\$1,300
October 2025	51058	1803 - 2026 Age and Condition Program	South	\$6
October 2025	51059	1803 - 2027 Age and Condition Program	South	\$10
October 2025	51063	Angie 230/69 kV substation – 230 kV line breaker additions	South	\$2
October 2025	51064	Holton 115/69 KV substation – 115 KV line breaker addition and 69 kV bus tie breaker addition	South	\$3
October 2025	51065	Talisheek 230 kV line breaker additions and 69 kV bus tie breaker addition	South	\$5
October 2025	51070	East Mandeville 230/69 kV substation	South	\$17
October 2025	51079	New Project Raider Load Substation 345 kV	Central	\$30
October 2025	51086	New Load on Existing HUC Plant 69 kV substation	West	\$0
October 2025	51087	Indian Creek West 161 kV Substation & Associated Upgrades	West	\$103
October 2025	51088	New Morgan County 345/69 kV Transmission Station and 69 kV	Central	\$44
October 2025	51089	New Jennings County 161/69 kV Transmission Station and 69 kV	Central	\$57
October 2025	51090	New St. Joseph to Northside 138 kV Line and 138/12 kV substation	Central	\$27
October 2025	51093	New Gill 345 kV substation and 345 kV Lines	Central	\$75
June 2025	51103	New Westwood to Leap 345 kV Lines	Central	\$250



EPR Cycle	Project ID	Project Name	Planning Region	Current Cost (\$M)
August 2025	51113	Upgrade Montgomery 345 kV terminal equipment	Central	\$5
August 2025	51114	Apply Pike – Peno Creek 161 kV	Central	\$1
October 2025	51123	New 300 Mvar Cap Bank at Truett 345 kV Substation	Central	\$12
October 2025	51124	Sheffield Substation Battery and Trip Coil Monitoring	Central	\$0
October 2025	51128	Upgrade Sioux - Roxford 138 kV Lines	Central	\$8
December 2025	51134	Project Benton	East	\$92
December 2025	51141	New Hobart 345 kV Load Addition	Central	\$60
December 2025	51142	New Schahfer 345 kV Load Addition	Central	\$31
December 2025	51145	New Crossroads 345 kV Transmission Station and Load	Central	\$86
December 2025	51146	CCS 115 kV Station	South	\$8
December 2025	51148	New Trail Creek 138 kV Load Addition	Central	\$12
October 2025	51149	New Project Raider Cap Banks 69 kV	Central	\$5
October 2025	51152	New Merom to Gill 345 kV Line addition	Central	\$2
December 2025	51167	Upgrade Sag on Lark-Washtenaw Jct. 138 kV	East	\$2
October 2025	51174	MidAmerican Energy Upgrades for MTEP 50775 Linn County 620 MW Load Addition	West	\$3
February 2026	51175	Rebuild Carbide Tap-Viele 161 kV line (JUA AECI/NE Power)	Central	\$0
February 2026	51177	New Stallings – Roxford 345 kV (4581) temp Tap (Truett Phase 0.5)	Central	\$0
February 2026	51178	New Load Addition at New Truett 345 kV Substation (Truett Phase 1)	Central	\$35
February 2026	51179	New 345 kV Lines for New Truett Load Addition (Truett Phase 2)	Central	\$87
February 2026	51205	New Garant Bayou 161 kV Switching Station	South	\$15
February 2026	51207	New Gallagher 230 kV Load Addition	Central	\$2
February 2026	51216	Van Meter 161 kV Substation and Associated 161 kV Upgrades	West	\$43
February 2026	51219	Wishek NW Data Center Load Addition	West	\$2
February 2026	51220	Project Cannoli	East	\$308
April 2026	51293	Hannover Data Center Load Addition	West	\$107
April 2026	51299	Macaw 230 kV New Substation	South	\$92
April 2026	51301	Crown 230 kV Station - Jeff Davis Electric Co-op, Inc.	South	\$0
April 2026	51303	New RECC Load Addition at Mogul 345 kV Substation (Phase 3)	Central	\$19



EPR Cycle	Project ID	Project Name	Planning Region	Current Cost (\$M)
April 2026	51304	New Prairie Link 345 kV Load Addition	Central	\$388
April 2026	51313	New Prairie Link 345 kV Temporary Connection	Central	\$2
June 2026	51366	Project Skyway Large Load	West	\$79
April 2026	51406	New Alsey - Ballard 138 kV second circuit line	Central	\$3
April 2026	51238	Galet 230kV: Expand Substation	South	\$28
April 2026	51259	Big Cedar 370 MW Load Addition	West	\$16
April 2026	51262	West Fork Creek 500-230 kV Station	South	\$1,100
April 2026	51263	West Fork Creek to St Landry 500 kV Project	South	\$1,487
April 2026	51264	El Dorado to Smalling 500 kV Project	South	\$900
April 2026	51298	Marquette 230 kV New Substation	South	\$28
June 2026	51320	Temporary Tap for Truett 500 MW (Truett Phase 1.5)	Central	\$2
June 2026	51323	New Project Point 345 kV Temporary Tap	Central	\$3

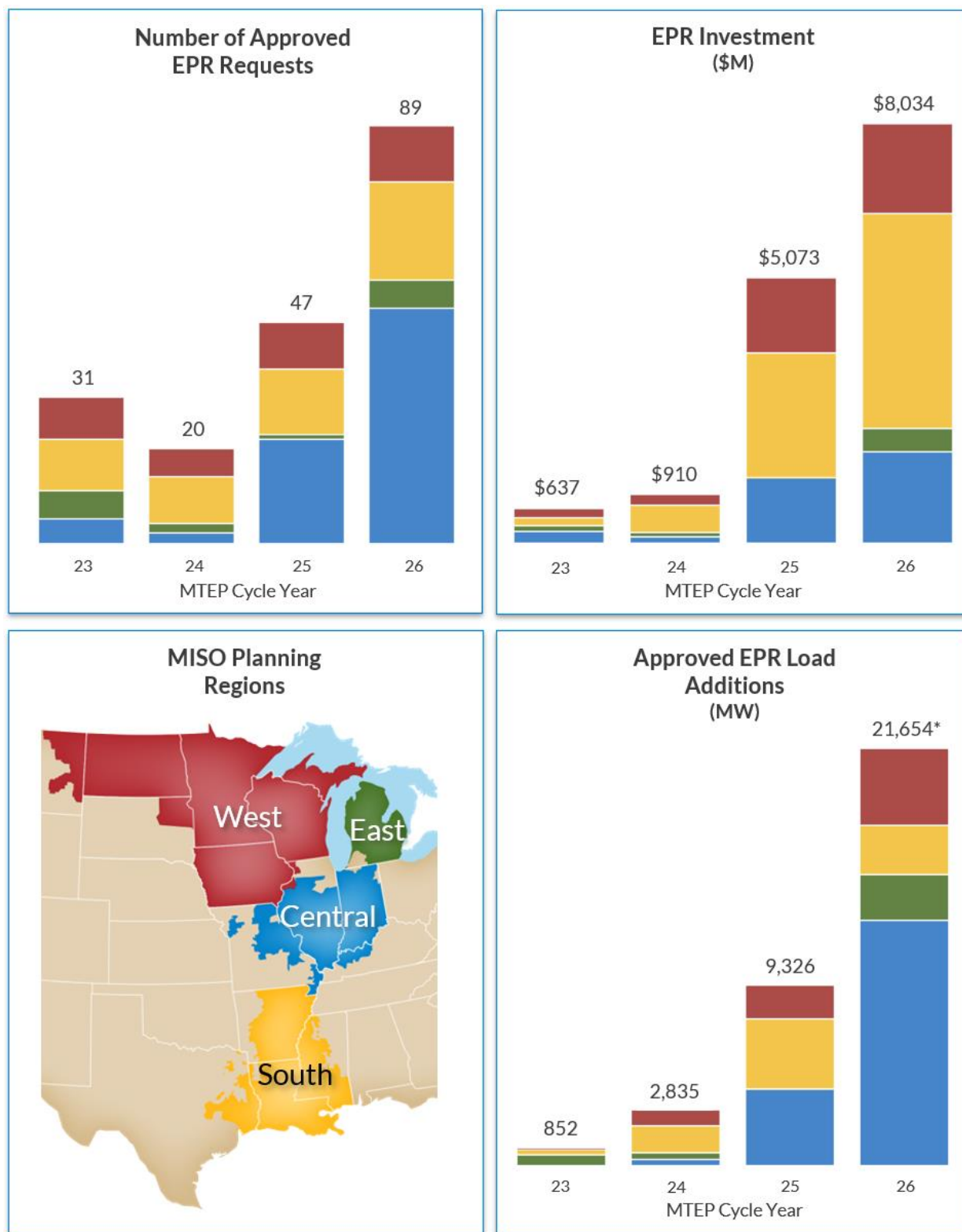


Figure 3.1-9: History of projects studied through the Expedited Project Review (EPR) process. *Note: This chart does not include 4,500 MW of approved EPR load in the South subregion.



A reference table of monthly Expedited Project Review Technical Studies Task Force (EPR TSTF) materials is provided below. Each month includes a single link to the associated TSTF documentation for that planning cycle. These materials contain the technical study outputs and meeting artifacts used during the expedited review process and may be accessed for additional context.

January	February	March	April
January 2026 TSTF	February 2026 TSTF	March 2026 TSTF	April 2026 TSTF
May	June	July	August
May 2026 TSTF	No Materials - Meeting cancelled	July 2026 TSTF	August 2025 TSTF August 2026 TSTF
September	October	November	December
September 2025 TSTF September 2026 TSTF	October 2025 TSTF	November 2025 TSTF	December 2025 TSTF

Allocation of Costs

MTEP26 projects include a total of 28 new cost-share-eligible Generator Interconnection Projects (GIPs) for Appendix A. GIP costs are primarily paid for by the interconnecting customer (generator); however, a portion of the costs for certain network upgrades are eligible for regional cost allocation under Attachment FF of the MISO Tariff. Detailed allocations by pricing zone are provided in Appendix A1.

Indicative rates related to past MTEP cost-shared projects are calculated on an annual basis. Please refer to the reports ([indicative forecasts of annual charges](#)) posted on the MISO public website.¹

MTEP Appendix B

MTEP Appendix B contains all projects that have been validated by MISO to address an identified system need based on current information and forecasts, but for which it is prudent to defer the final recommendation of a solution to a subsequent MTEP cycle.

This generally occurs when the preferred project does not yet require commitment based on anticipated lead time and there is still some uncertainty as to the prudence of selecting this project over an alternative, given potential changes in projected future conditions. MTEP Appendix B is limited to Baseline Reliability Projects and Other Projects and will be reviewed by MISO in subsequent planning cycles.

¹[Cost Allocation updates](#)



3.2 Reliability Assessment and Compliance

MISO, in collaboration with its transmission-owning members and stakeholders, performs annual reliability assessments to identify transmission infrastructure upgrades needed to ensure continued system reliability in compliance with applicable local and regional reliability standards. The reliability assessment process for local MTEP26 projects (shown in Figure 3.2-1) began with a roll-up of issues and potential solutions identified from the NERC assessment of the prior MTEP cycle and from the local planning processes of Transmission Owners (TOs). Following this step, MISO conducted an independent reliability assessment to evaluate and integrate the TO local planning information into the development of the overall MTEP.

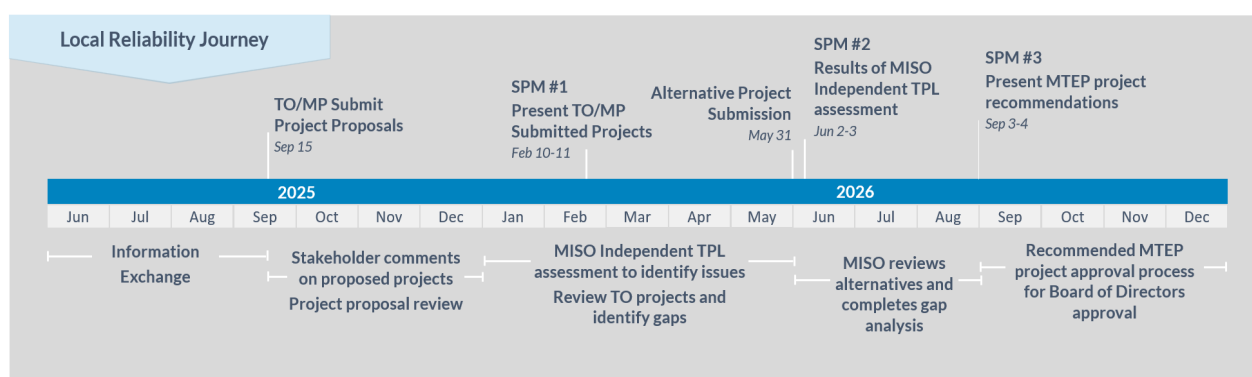


Figure 3.2-1: Local MTEP26 reliability assessment process.

MISO closely coordinates the annual reliability assessment with other planning efforts to ensure the local transmission expansion plan is achieved in the most efficient and cost-effective manner. A variety of factors are considered as part of MISO's transmission expansion plan development, including, but not limited to, large power swings, urgency of needs, cost effectiveness of solutions, system performance of solution alternatives to address identified transmission issues, and other considerations such as lead time to develop a project, right-of-way (ROW) or substation impacts, expandability, and operational flexibility.

In conjunction with the MTEP planning process, an inclusive, open, transparent stakeholder process is used to facilitate discussions and allow stakeholders to provide early and meaningful input into the development of transmission solutions in each planning cycle. The results of MISO's independent reliability assessments, along with proposed solution alternatives, are presented to stakeholders through a series of public Subregional Planning Meetings (SPM), and additional Technical Study Task Force (TSTF) meetings as needed, for each of the four MISO planning subregions: Central, East, South, and West.



MISO strategically sets up our local planning processes to assume FERC Order 890 transparency requirements for Transmission Owner submissions, resulting in different study approaches based on the types of projects submitted by Transmission Owners.

- **Verify need:** Confirmation of system need identified in project submission, including compliance with applicable National Electric Reliability Organization reliability standards and reliability standards adopted by Regional Reliability Organizations, applicable within the Transmission Provider Region. MISO must also verify the need for alternatives to adequately examine their effectiveness.
- **No harm:** Ensure a submitted project does not create a system issue. Includes projects that create model changes such as contingency definitions, line ratings, or line impedances.
- **Post only:** Provided for FERC Order 890 transparency provisions. May include control equipment to communicate remotely with the facility. This information is not able to be represented with model changes.

Alternatives for projects may be completed prior to submission to MISO by the Transmission Owners, proposed by MISO, or proposed by stakeholders. Criteria for alternatives consider cost comparisons, feasibility to construct and how reliability needs are resolved. Alternatives do not always result in one project replacing another; instead, they tend to be additive to the original project, even when submitted with the thought that they would directly compete. MISO considers alternatives in multiple forms, including like-for-like replacement, regional reliability projects, the combination of multiple local solutions, and other options identified through either MISO analysis or submitted by stakeholders.

After MISO completes its independent review of all proposed projects and associated alternatives and addresses stakeholder feedback received through SPM discussions, MISO staff formally recommends a set of projects to the MISO Board of Directors for review and approval. These projects make up Appendix A of the MTEP report and represent the preferred solutions to the identified transmission needs of the MISO reliability assessments. Proposed transmission upgrades with sufficient lead times are included in Appendix B for consideration in future planning cycles.

The complete results of local MTEP26 reliability assessments are detailed in Appendices D3-D10 of the MTEP26 report, which are available on the [MISO ShareFile site](#) and subject to Critical Energy Infrastructure Information (CEII) and non-disclosure agreements. These results serve as compliance evidence for a variety of NERC planning standards listed on the [MISO public website](#).

As appropriate, an executive summary of results for the appendices will also be available on the MISO website.



Appendix	Title	Insights
D3	Steady State CEII	MISO ran N-1, N-1-1, spare equipment, planned outages, adjacent, and extreme event contingency analysis to identify any voltage and thermal violations in the MISO area. For local MTEP26 projects, over 250,000 issues were identified, and all valid results contain a corrective action plan to mitigate the violation.
D4	Voltage Stability CEII	MISO studied seven interfaces for voltage stability. These studies cover all four regions in the MISO footprint for potential voltage stability issues in various planning horizons. The most limiting contingencies and transfer levels are identified for each interface. Interconnection Reliability Operating Limit (IROL) tests are performed at instability transfer levels and no new IROL is identified from this year's studies.
D5	Transient Stability CEII	MISO is analyzing ~6,000 dynamic disturbances to identify any violations on the system and will post issues for stakeholder comments after MISO reviews the results.
D6	Generator Deliverability CEII	MISO conducted the Annual MTEP Deliverability Analysis to ensure the ongoing deliverability of existing Network Resources (NRs). Affected stakeholders have reviewed the preliminary results for MTEP26.
D7	Contingency Coverage CEII	MISO received 283,332 steady state contingencies from 47 Transmission Owners to be used in MTEP26 contingency analysis. There were an additional 10,770 contingencies added by MISO to ensure full coverage.
D8	Nuclear Plant Interface Coordination CEII	MISO incorporated Nuclear Plant Interface Requirements (NPIRs) into the MTEP26 analyses, adhering to Nuclear Plant Operating Agreements. MISO monitored steady state analysis, transient stability, and extreme events for nuclear plants in the MISO footprint and addressed any constraints by implementing mitigations necessary to adhere to NPIRs.
D9	Planning Horizon Transfer Capability CEII	MISO performed a comprehensive 5-year and 10-year Transfer Capability analysis to evaluate the robustness of the MISO transmission system, considering both LRTP 1 (5-year) and LRTP 2.1 (10-year) impacts.
D10	Short Circuit Analysis CEII	For local MTEP26, TO transmission planners have performed a short-circuit analysis to determine whether their circuit breakers have the expected interrupting capability for faults. If the short-circuit current interrupting duty on a circuit breaker exceeds the equipment rating, the TO transmission planner has provided MISO a corrective action plan to mitigate the violation.



Transfer Capability Analysis is performed annually in accordance with MISO's Transfer Capability Methodology in Appendix N of BPM-020 – Transmission Planning, which requires assessing the transmission system to identify weaknesses and limiting facilities that could impact the Bulk Electric System's (BES) ability to reliably transfer energy in the Near-Term Transmission Planning Horizon. The Appendix D9 report summarizes the results of the assessment performed by MISO planning staff.

Two (2) transfer scenarios were analyzed for this MTEP planning cycle (Figure 4.2-2). The First Contingency Incremental Transfer Capability (FCITC) for each linear transfer was calculated, along with the Total Transfer Capability (TTC) on the transfer paths. The typical transfer test level is the sum of available generation MW in the source area, which is considered a high transfer test level. The entire NERC book of flowgates was analyzed for all transfer scenarios.

For both transfers, the transfer capability decreased compared to previous MTEP cycles, due to localized constraints and higher base use of the existing transmission system in the MTEP planning horizon. Transfer capability was also compared between the 5-year-out and 10-year-out models, which represents the addition of LRTP Tranche-2.1 facilities. The transfer limit increased in the 10-year out cases due to the LRTP projects.

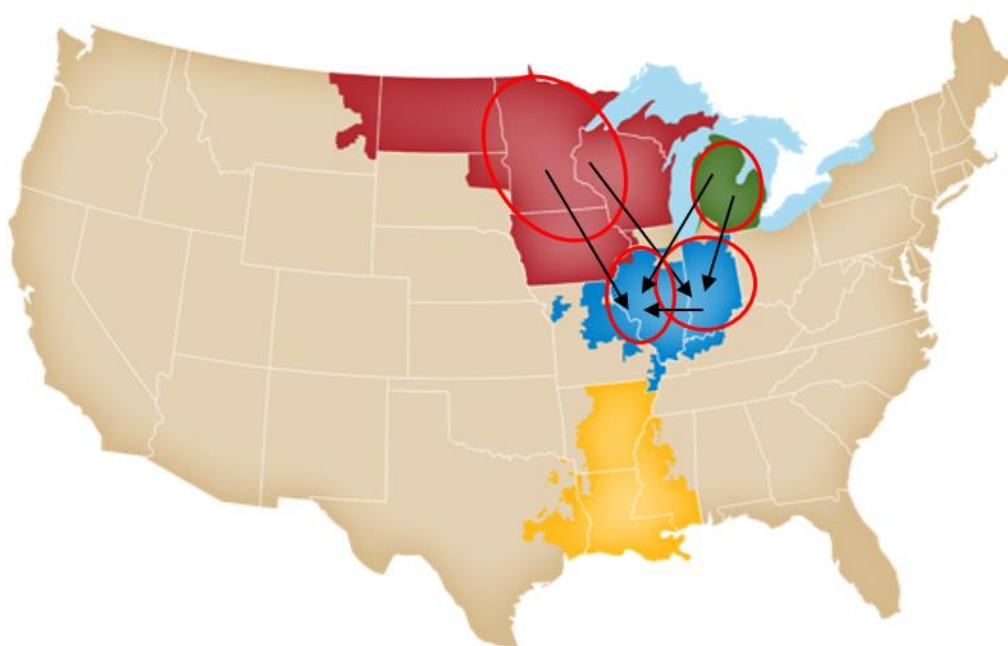


Figure 3.2.-2: MTEP26 transfer scenarios studied.



3.3 Project Justifications – Central Region

Central Region Overview

The MISO Central Planning Region consists of twenty Transmission-Owning members spanning four states: Illinois, Indiana, Kentucky and Missouri.

Central Subregion Transmission Owners	
American Electric Power Service Corporation (AEP)	Henderson Municipal Power & Light (HMPL)
Ameren Illinois (AMIL)	Hoosier Energy REC Inc. (HE)
Ameren Missouri (AMMO)	Indianapolis Power & Light (IPL)
Ameren Transmission Company of Illinois (ATXI)	Northern Indiana Public Service Co. (NIPSCO)
Big Rivers Electric Corp. (BREC)	Pioneer Transmission (PTX)
Citizen's Electric Corporation (CEC)	Prairie Power Inc. (PPI)
City of Columbia, Mo. (CWLD)	Republic Transmission (RTX)
City of Springfield, Il. Water, Light, & Power (CWLP)	Southern Indiana Gas & Electric (SIGE)
Duke Energy Corp. (DEI)	Southern Illinois Power Cooperative (SIPC)
GridLiance Heartland LLC (GLH)	Wabash Valley Power Association Inc. (WVPA)

Individual project justifications can be found in the SPM materials. Please refer to the full SPM documentation and use the link below to access all posted materials.

2nd Central Subregional Planning Meeting Materials-[Central SPM2](#)

3rd Central Subregional Planning Meeting Materials-[Central SPM3](#)

The Bulk Power System (BPS) within these states consists of an extensive 765 kV, 345 kV, 230 kV, 161 kV, and 138 kV networked transmission system. The 765 kV network spans Indiana and Illinois on east-to-west paths, while the 345 kV network spans Missouri, Illinois, and Indiana, both north to south and east to west. The 230 kV network spans through central Indiana, both north to south and east to west. The 161 kV network spans north to south and east to west in Missouri, Illinois, and Kentucky. The 138 kV network spans both north and south and east to west in Illinois, Indiana, Kentucky, and on the eastern edge of Missouri. All of Ameren, BREC, CEC, CWLD, CWLP, GLH, HMPL, PPI, and SIPC belong entirely to the SERC Region for reliability administration. All of DEI, HE, IPL, NIPSCO, PTX, RTX, SIGE, and WVPA belong entirely in the ReliabilityFirst Region.

According to the Summer Peak planning models, the region has 62 GW of installed generation capacity, mostly consisting of coal, gas, and wind resources. Major load centers in the MISO Central planning region



are St. Louis, MO; Jefferson City, MO; Peoria, IL; Springfield, IL; Evansville, IN; Gary, IN; Merom, IN; and Indianapolis, IN (shown in Figure 3.3-1).

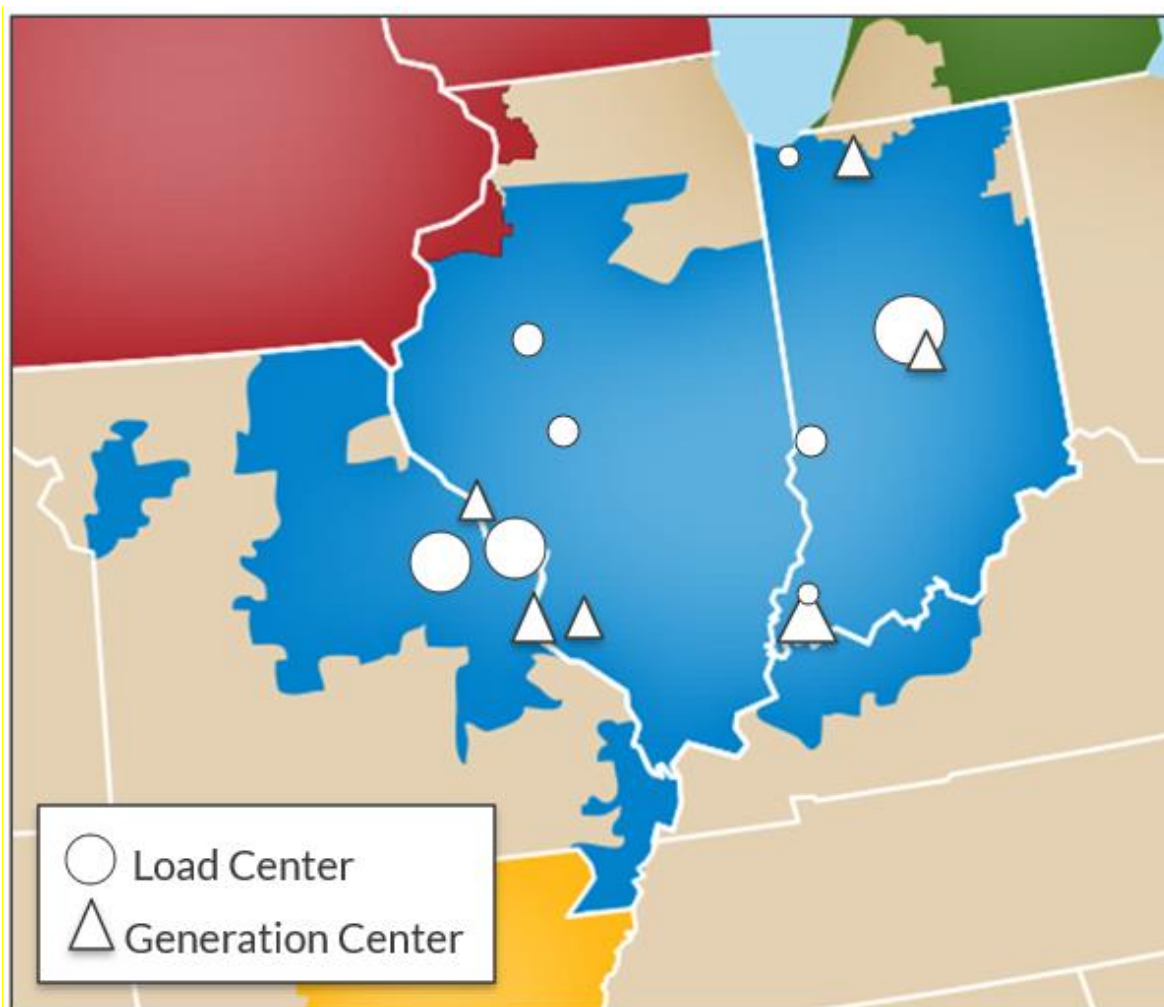
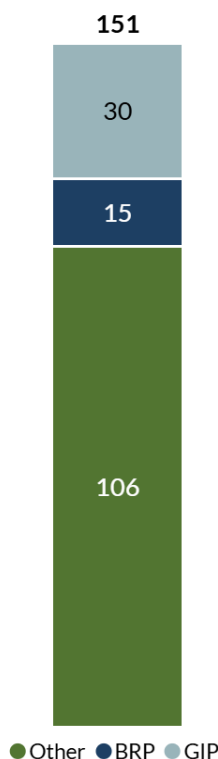


Figure 3.3-1: Generation and load centers in the Central planning region.



Central Planning Region Local MTEP26 Summary

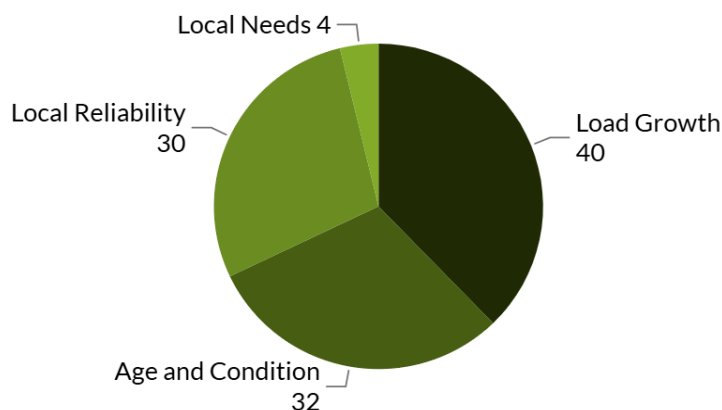
(Data as of August 19, 2026; # project count)



151
Total Projects

\$2.6bn
Investment

DRIVERS OF OTHER PROJECT TYPES



CENTRAL REGION HIGHLIGHTS

Transmission Miles

636 total line miles
67% new miles; 33% upgraded miles

Spot Load Additions

12,697 MW

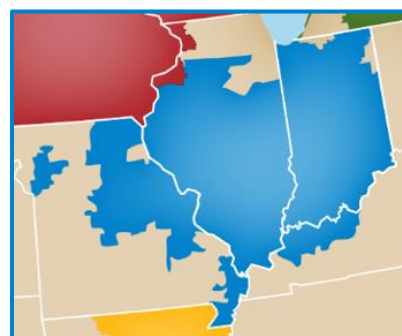
Expedited Project Reviews (EPRs)

50 approved

Other Projects:

70% of projects are classified as Other

The ten largest project investments in the MISO Central region represent \$1.2 billion (46%) of the \$2.6 billion total recommended projects for the Central region, or 8% of the \$14.7 billion total recommended in





the MISO footprint. The locations of these projects, spread across the Central planning subregion, are shown in Figure 3.3-2, with a dark grey marker indicating a MISO-wide top ten project investment. Projects that are blanket expenditures (relays, physical security, etc.) are excluded from this list.

Central Region Top 10 Local MTEP26 Projects

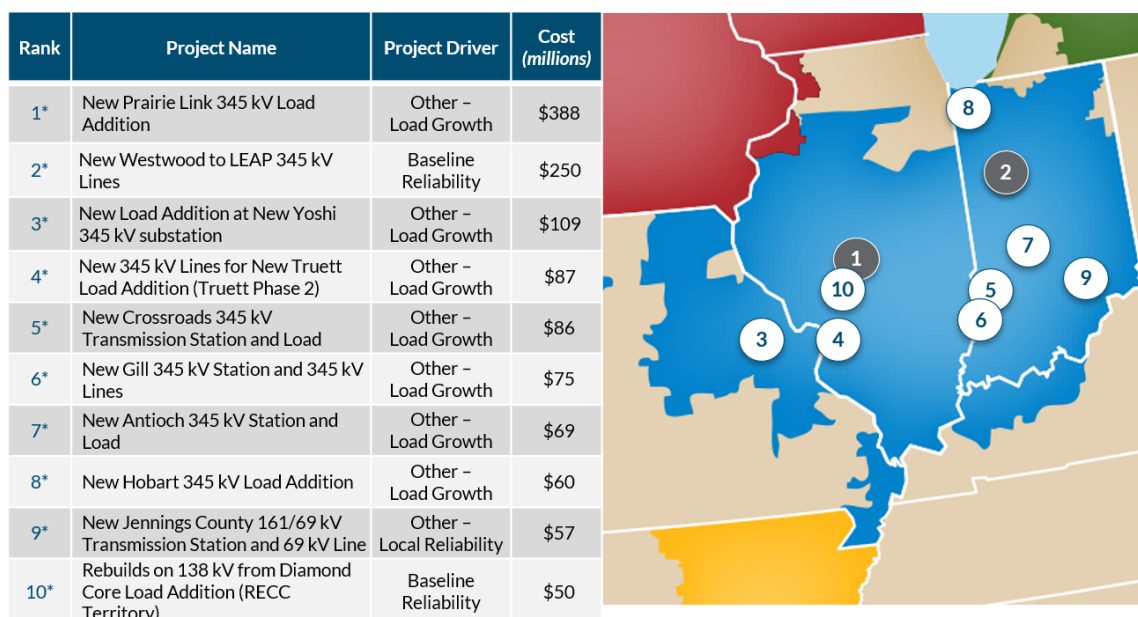


Figure 3.3-2: Central region top ten projects by cost; * represents project studied through Expedited Project Review (EPR) process (as of 8-19-2026).



3.4 Project Justifications – East Region

East Region Overview

The MISO East Planning Region consists of six Transmission-Owning members within Michigan’s Lower Peninsula.

East Subregion Transmission Owners	
ITC Transmission (ITCT)	Michigan Public Power Agency (MPPA)
Michigan Electric Transmission Co. (METC)	Michigan South Central Power Agency (MSCPA)
Wolverine Power Supply Cooperative Inc. (WPSC)	Lansing Board of Water & Light (LBWL)

Individual project justifications can be found in the SPM materials. Please refer to the full SPM documentation and use the link below to access all posted materials.

2nd East Subregional Planning Meeting Materials-[East SPM2](#)

3rd East Subregional Planning Meeting Materials-[East SPM3](#)

The region contains 9,725 circuit miles of transmission lines ranging from 120 kV to 765 kV, as well as 69 kV sub-transmission circuits. The MISO East Region is interconnected with non-MISO systems, including Hydro One Networks Inc. and American Electric Power to the west and FirstEnergy (or PJM) to the South.

According to the Summer Peak planning models, the region has 39 GW of installed generation capacity, mostly consisting of coal, gas, and solar resources. Figure 3.4-1 shows the major load centers and generation pockets within the East Region, with load centers typically located around larger cities such as Detroit, Lansing, and Grand Rapids. The model indicates that the region’s summer peak load is 20 GW.

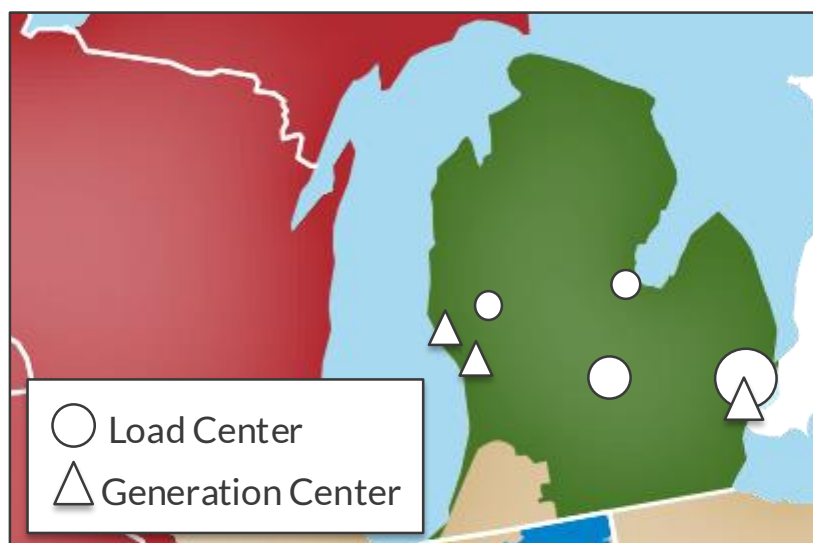
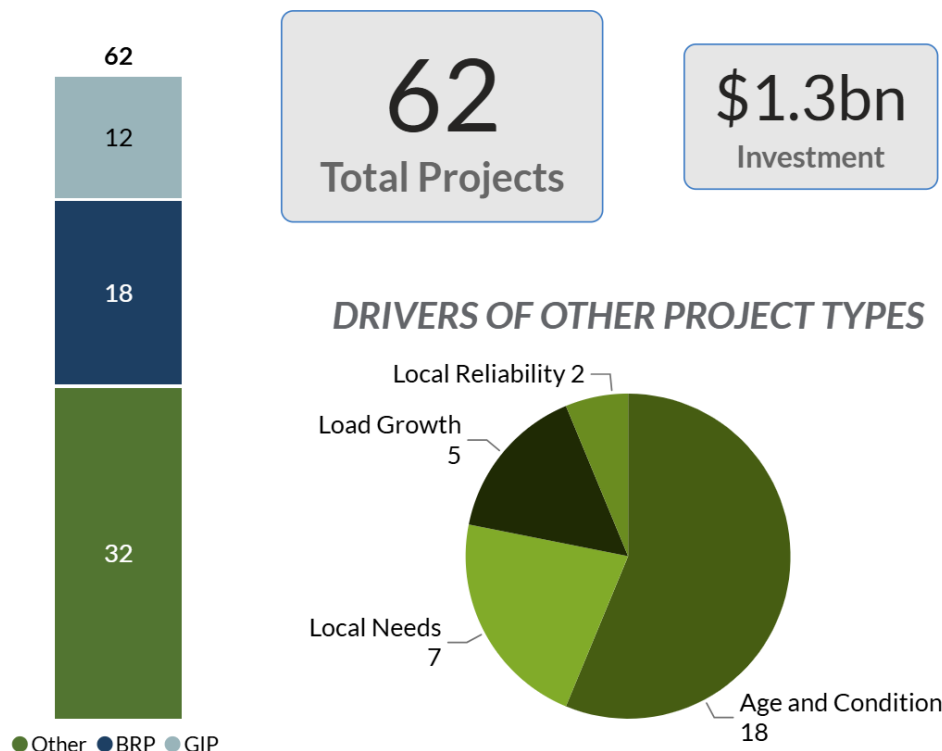


Figure 3.4-1: Generation and load centers in the East planning region.



East Planning Region Local MTEP26 Summary

(Data as of August 19, 2026; # project count)



EAST REGION HIGHLIGHTS

Transmission Miles

233 total line miles

9% new miles, 91% upgraded miles

Spot Load Additions

2,383 MW

Expedited Project Reviews (EPRs)

6 approved

Other Projects:

52% of projects are classified as Other





The ten largest project investments in the MISO East Region represent \$840 million (65%) of the \$1.3 billion total recommended projects for the East Region, or 6% of the \$14.7 billion total recommended across the MISO footprint. The locations of these projects are shown in Figure 3.4-2, with a dark grey marker indicating a MISO-wide top ten project investment. Projects that are blanket expenditures (relays, physical security, etc.) are excluded from this list.

East Region Top 10 MTEP26 Projects

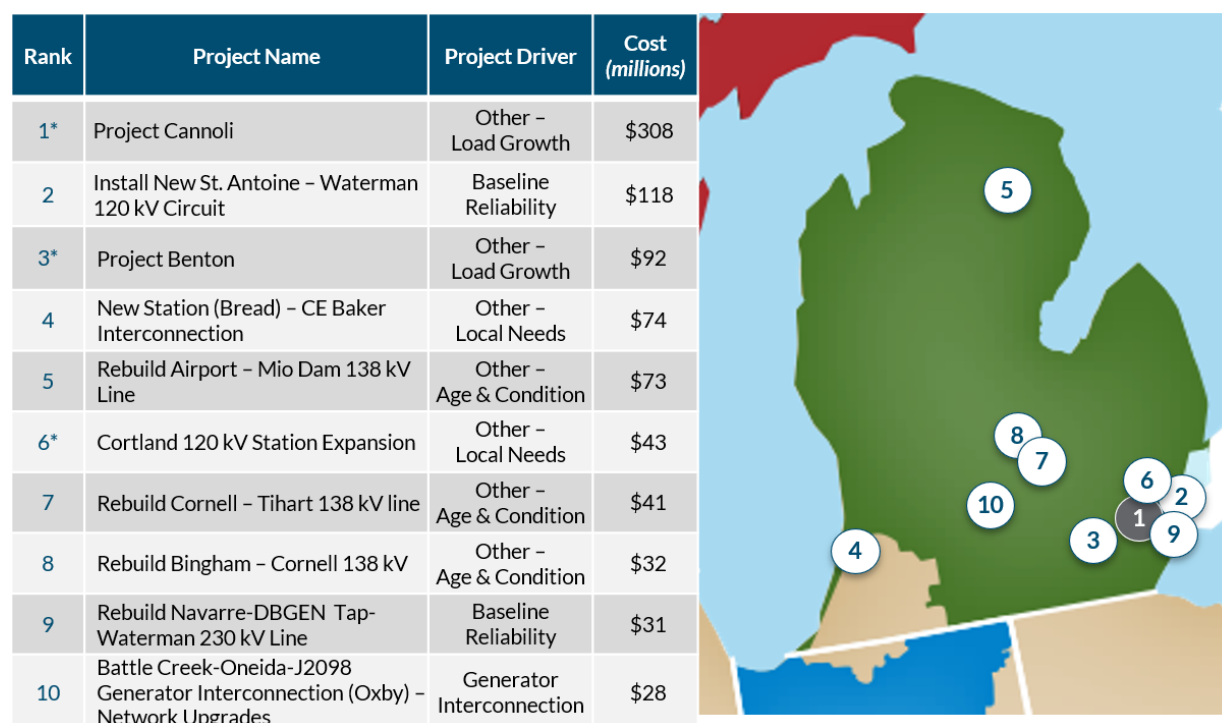


Figure 3.4-2: The East Region's top ten projects by cost; * represents project studied through Expedited Project Review (EPR) process (as of 8-19-2026).



3.5 Project Justifications – South Region

South Region Overview

The MISO South Planning Region consists of twelve Transmission-Owning members spanning four states: Arkansas, Louisiana, Mississippi, and a portion of Texas.

South Subregion Transmission Owners	
1803 Electric Cooperative Incorporated (1803)	East Texas Electric Cooperative (ETEC)
Arkansas Electric Cooperative Corporation (AECC)	Entergy Arkansas LLC (EAL)
City of Alexandria (AXLA)	Entergy Mississippi LLC (EML)
City Water and Light Jonesboro (CWLT)	Entergy Services LLC (EES)
CLECO Power LLC (CLEC)	Lafayette Utilities Systems (LAFA)
Cooperative Energy (SME)	Sam Houston Electric Cooperative Incorporated (SHTO)

Individual project justifications can be found in the SPM materials. Please refer to the full SPM documentation and use the link below to access all posted materials.

2nd South Subregional Planning Meeting Materials-[South SPM2](#)

3rd South Subregional Planning Meeting Materials-[South SPM3](#)

The region contains approximately 18,500 circuit miles of transmission lines ranging from 115 kV to 500 kV, along with a significant 69 kV sub-transmission network interspersed throughout the footprint.

According to the Summer Peak planning models, the South region contains more than 77GW of generation capacity. The MISO South generation profile primarily consists of combined cycle, nuclear, gas, coal fuel types, and solar resources, serving major load centers such as Little Rock, New Orleans, etc. Approximately 36% (28 GW) of the South region's generation capacity comes from combined cycle (CC) units. Major generation centers are in central Arkansas, lower Louisiana, and western Mississippi (Figure 3.5-1).

Major load centers are typically found around larger cities in the region, including Little Rock, Jonesboro, and Pine Bluff in Arkansas; Monroe, Alexandria, Lake Charles, Lafayette, New Orleans, and Baton Rouge in Louisiana; Jackson, Hattiesburg, Natchez, Vicksburg, and Greenville in Mississippi. In Texas, major load centers in the Western load pocket include Bryan and the Woodlands area, while the West of the Atchafalaya Basin (WOTAB) load pocket centers on South Beaumont and the Port Arthur Area (Figure 3.5-1). According to the 2028 Summer Peak planning model, the regional load exceeds 44 GW.

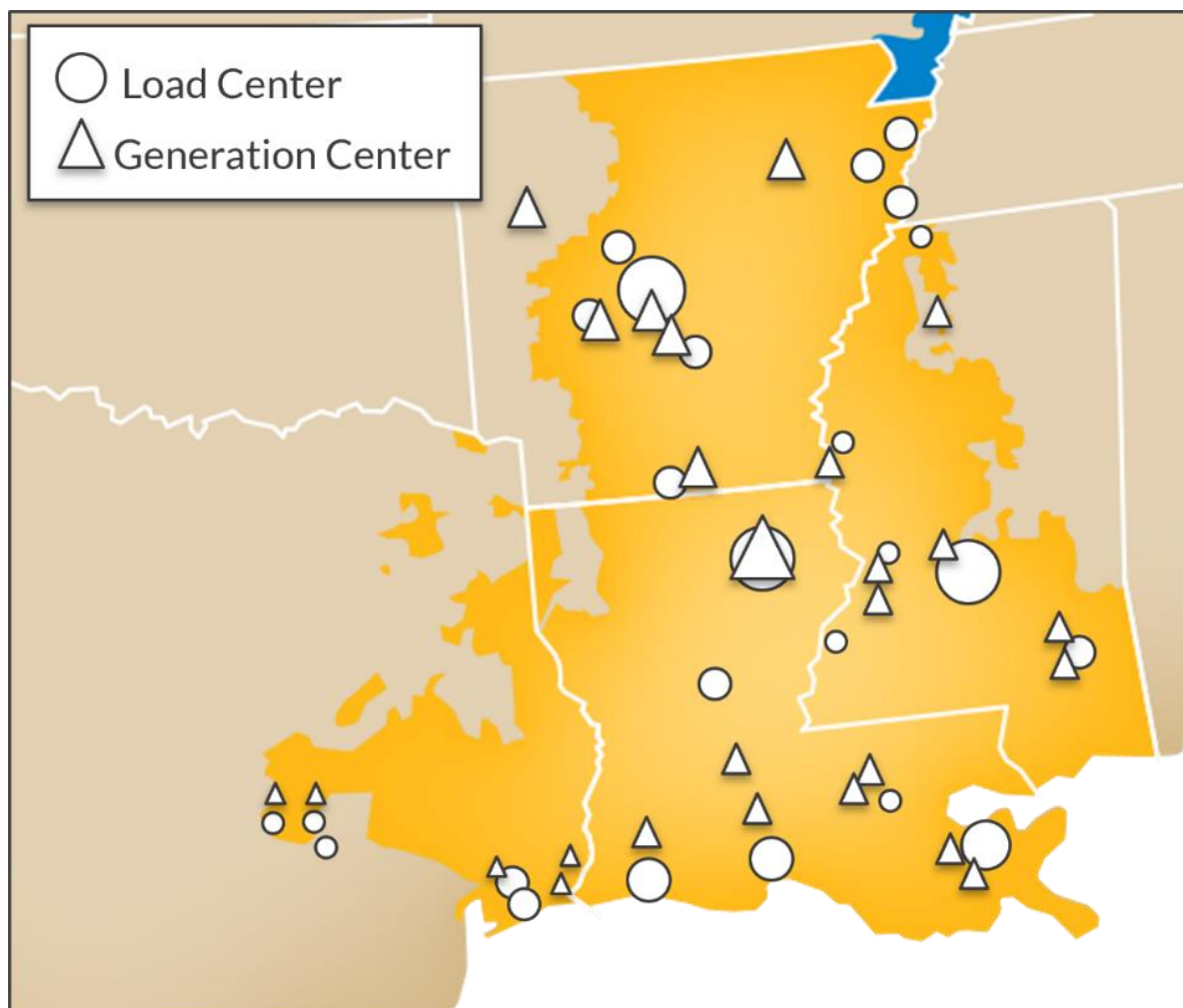


Figure 3.5-1: Generation and load centers in the South planning region.

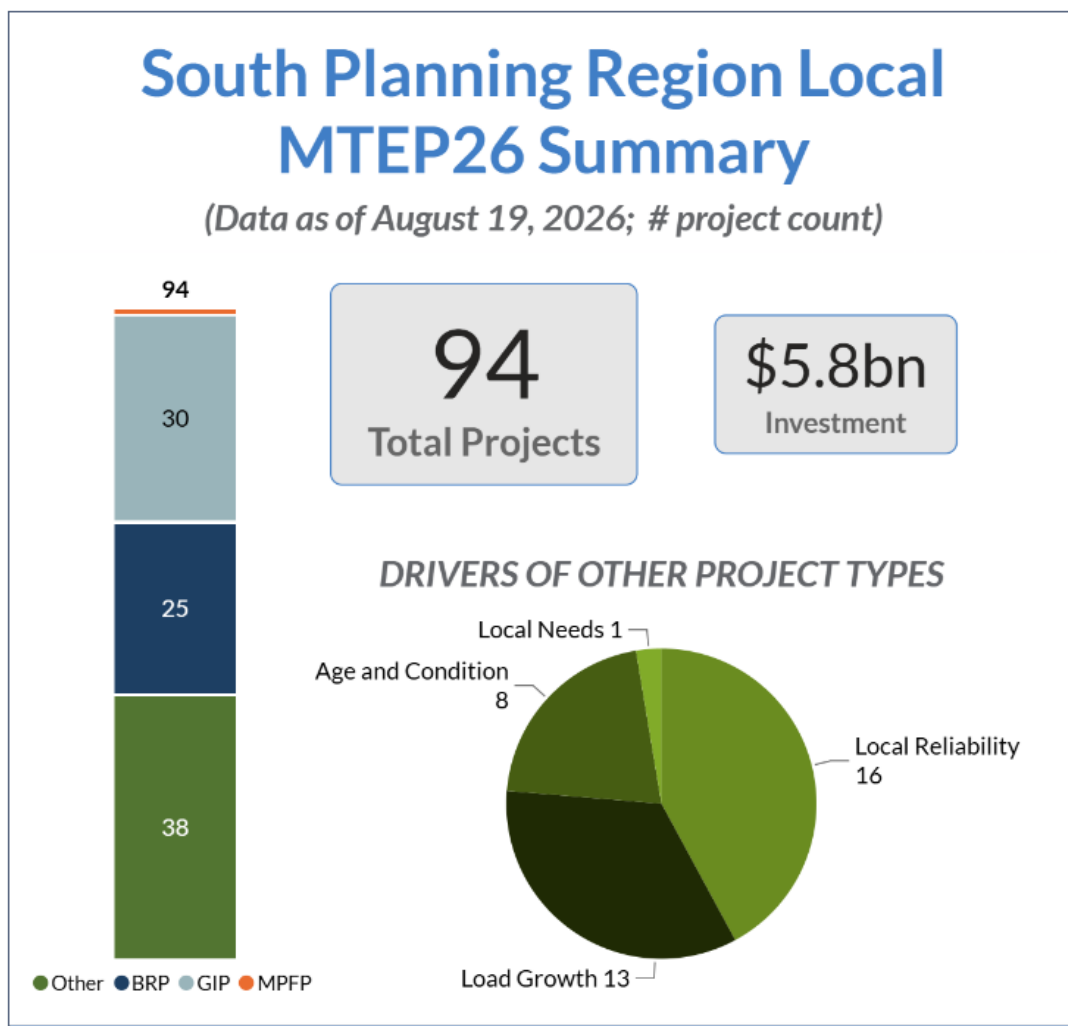


Figure 3.5-2: Summary of South Region MTEP26 projects

SOUTH REGION HIGHLIGHTS

Transmission Miles

442 total line miles

81% new line miles, 19% upgraded line miles

Spot Load Additions

7,702 MW of spot load additions

Expedited Project Reviews (EPRs)

21 EPRs

Other Projects:

40% of MTEP26 projects are Other projects

Baseline Reliability Projects:

7 of the top 10 projects are BRP





The ten largest project investments in the MISO South region represent an estimated \$4.3 billion (74%) of the \$5.8 billion total recommended projects for the South region, or 29% of the \$14.7 billion total recommended in the MISO footprint. The locations of these projects, spread across the South planning subregion, are shown in Figure 3.5-3, with a dark grey marker indicating a MISO-wide top ten project investment. Projects that are blanket expenditures (relays, physical security, etc.) are excluded from this list.

South Region Top 10 MTEP26 Projects

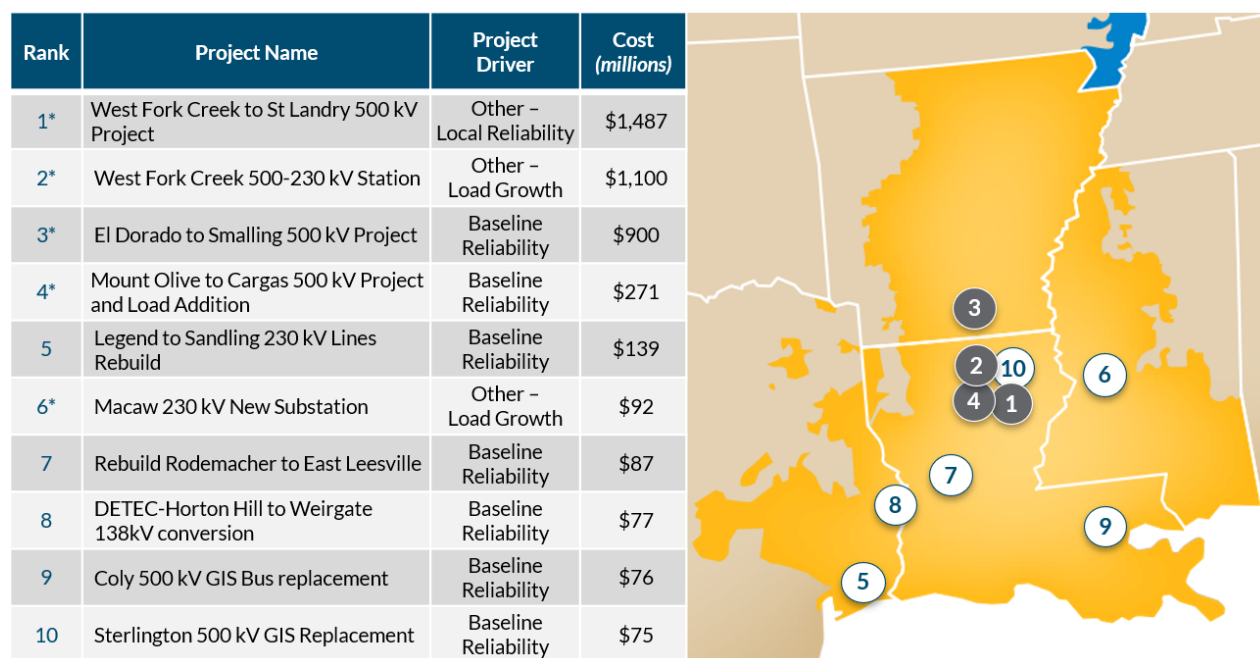


Figure 3.5-3: South Region's top ten projects by cost; * represents project studied through Expedited Project Review (EPR) process (data as of 8-19-2026).



3.6 Project Justifications – West Region

West Region Overview

The MISO West Planning Region consists of twenty-one Transmission-Owning members spanning eight states in the upper Midwest. The subregion includes Iowa, Minnesota, Wisconsin, and parts of Illinois, Michigan, Montana, North Dakota, and South Dakota.

West Subregion Transmission Owners	
American Transmission Company (ATC)	Missouri River Energy Services (MRES)
Cedar Falls Utilities (CFU)	Montana-Dakota Utilities Co. (MDU)
Central Minnesota Municipal Power Agency (CMMPA)	Muscatine Power and Water (MPW)
City of Ames, IA (COA)	Northwestern Wisconsin Electric (NWECE)
Dairyland Power Cooperative (DPC)	Otter Tail Power Company (OTP)
Great River Energy (GRE)	Rochester Public Utilities (RPU)
ITC Midwest (ITCM)	Southern Minnesota Municipal Power Agency (SMMPA)
MidAmerican Energy Company (MEC)	Willmar Municipal Utilities (WMU)
Minnesota Municipal Power Agency (MMPA)	WPPI Energy (WPPI)
Minnesota Power (MP)	Xcel Energy (Northern States Power, XEL/NSP)
Minnkota Power Cooperative	

Individual project justifications can be found in the SPM materials. Please refer to the full SPM documentation and use the link below to access all posted materials.

2nd West Subregional Planning Meeting Materials-[West SPM2](#)

3rd West Subregional Planning Meeting Materials-[West SPM3](#)

The West planning region contains roughly 30,000 miles of transmission ranging from 57 kV to 765 kV.

According to the Summer Peak planning models, the region contains more than 86 GW of generation, including 26.9 GW of wind and 14.2 GW of solar. Installed generation capacity in the region consists mostly of wind, coal, solar and gas.

Major generation centers are located in central North Dakota, surrounding the Twin Cities in Minnesota, north of Milwaukee in Wisconsin, and the Quad Cities in Iowa and Illinois, with wind generation located in



the eastern Dakotas, western Iowa, and Minnesota (Figure 3.6-1). Major load centers are typically found around larger cities in the region: the Twin Cities, Milwaukee, and Des Moines. In the 2028 Summer Peak planning model, the regional load is approximately 51 GW. Power generally flows from generation-rich areas in the western portion of the region through Minnesota, Iowa, and Wisconsin, toward large load centers in the east. This is especially prevalent in times of high wind output.

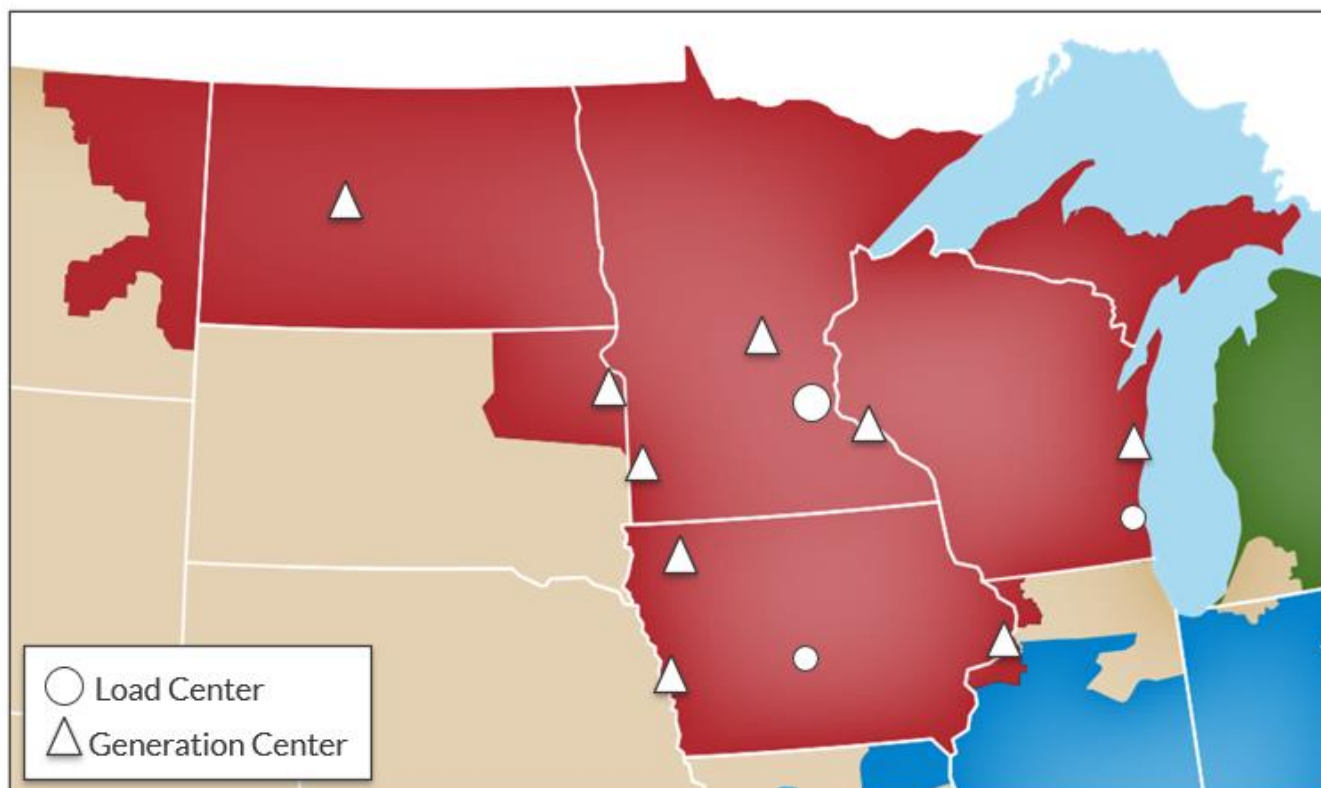
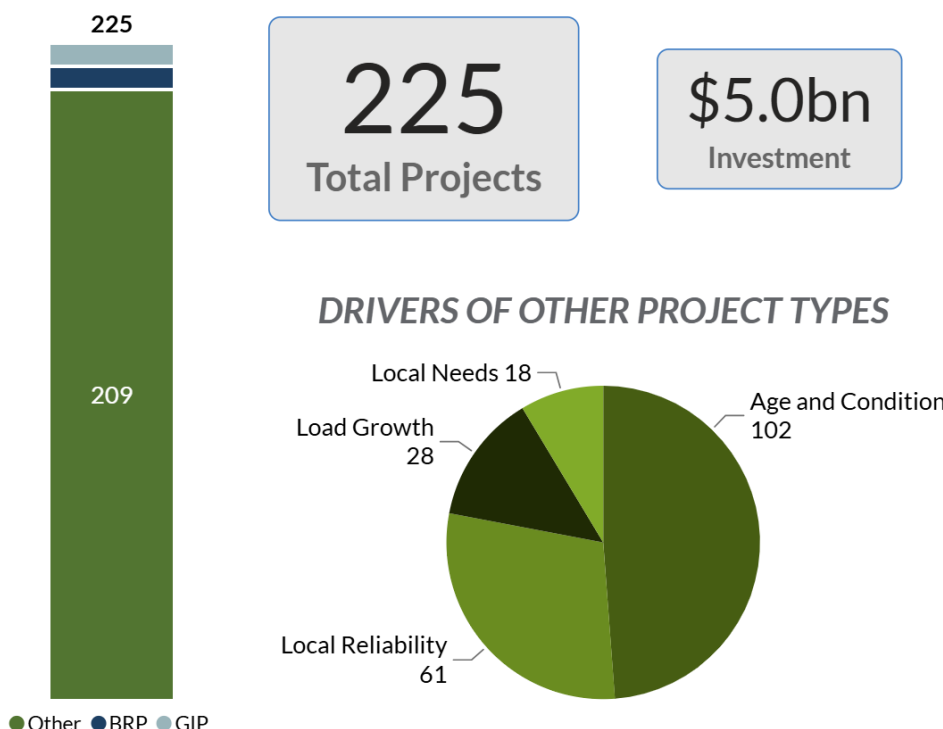


Figure 3.6-1: Generation and load centers in the West Planning Region.



West Planning Region Local MTEP26 Summary

(Data as of August 19, 2026; # project count)



WEST REGION HIGHLIGHTS

Transmission Miles

- 13% new line miles
- 87% upgraded line miles
- Top states: Minnesota and Wisconsin

Spot Load Additions

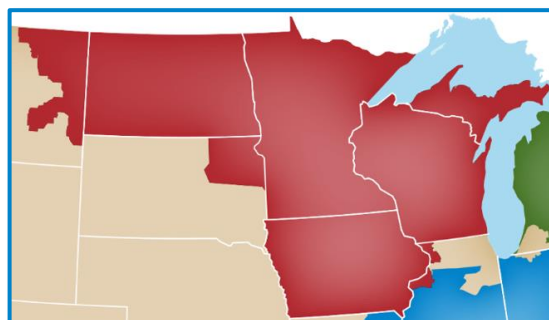
- Largest additions in Iowa and Wisconsin

West Region Total Investment

- Top states: Wisconsin and Iowa

Other Projects:

- Majority of Load Growth projects in Iowa
- Majority of Age and Condition projects in Wisconsin and Minnesota



The ten largest project investments in the MISO West region represent nearly \$2.4 billion (48%) of the \$5 billion total recommended projects for the West region, or 16% of the \$14.7 billion total recommended in



the MISO footprint. The locations of these projects, spread across the West planning subregion, are shown in Figure 3.6-2, with a dark grey marker indicating a MISO-wide top ten project investment. Projects that are blanket expenditures (relays, physical security, etc.) are excluded from this list.

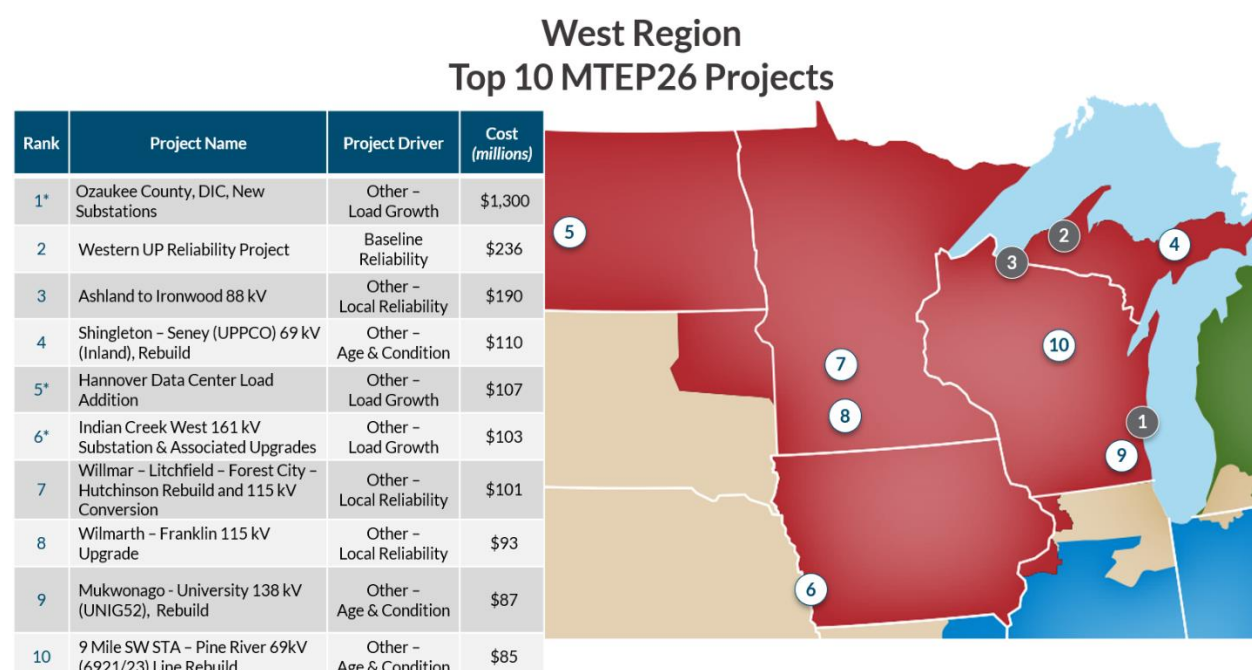


Figure 3.6-2: West region top ten projects by cost; * represents project studied through Expedited Project Review (EPR) process (data as of 8-19-2026).

3.7 Summary of Project Justifications

A Region-Specific Supporting Materials table is provided to offer direct hyperlinks to SPM2 and SPM3 documentation for each planning subregion. These linked materials include detailed project-level information, Transmission Owner inputs, cost updates, location data, and supporting analyses used throughout the MTEP cycle. Stakeholders may access the corresponding SPM2 and SPM3 files for the Central, East, South, and West regions to review the full set of exhibits associated with each project. The following table summarizes the SPM2 and SPM3 materials across all four MISO planning regions. Use the links below to navigate directly to the latest SPM2 and SPM3 documentation for Central, East, South, and West.

Sub Regional Planning Meeting Materials			
Central	East	South	West
SPM2	SPM2	SPM2	SPM2
SPM3	SPM3	SPM3	SPM3