Project Name	2022 Est. ISD Month - Year	2023 Est. ISD Month - Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
Mauston SS, DIC, Substation Retirement		Mar-23	1	T-D Interconnection	Planned	A in MTEP22	14968	\$ 88,824	Project In-Service, Updated Cost and ISD
Waupaca Area Energy Storage Project	Mar-23	Mar-24	1	Operational Flexibility	Planned	A in MTEP19	15947	\$ 13,900,000	Updated ISD and Cost
J986 7 Mile Creek SS, Generator Interconnection Facilities and Network Upgrades	Dec-23	Sep-23	1	G-T Interconnection	Planned	A in MTEP21	20625	\$ 11,971,867	No Change
Hilltop SS, Install 69kV Breakers	Dec-23	Nov-23	1	Condition and Performance	Planned	A in MTEP17	12031	\$ 1,200,000	No Change
J1002 Wautoma SS Network Upgrades and Interconnection Facilities	Jan-23	Nov-23	1	G-T Interconnection	Planned	A in MTEP22		\$ 3,246,667	No Change
Port Edwards SS, DIC, Transformer Retirement	Dec-23	Dec-23	1	T-D Interconnection	Planned	A in MTEP21	14968	\$ 1,120,000	No Change
Chaffee Creek - Lincoln Pump Station 69kV (Y-18), Rebuild	Dec-23	Dec-23	1 1	Condition and Performance	Planned	A in MTEP18	10486	\$ 11,682,964	No Change
Wautoma - Chaffee Creek 69kV (Y-49), Rebuild Weston - Sherman Street, 115kV line (Z-52), uprate	Dec-23 Dec-23	Dec-23 Mar-24	1	Condition and Performance Reliability	Planned Planned	A in MTEP18 A in MTEP20	7764 14909	\$ 15,922,691 \$ 1,300,000	No Change Updated ISD
Chaffee Creek SS Grounding Improvements	Dec-23	Dec-23	1	G-T Interconnection	Planned	A in MTEP22		\$ 220,000	No Change
Hancock SS Grounding Improvements	Dec-23	Dec-23	1	G-T Interconnection	Planned	A in MTEP22	21814	\$ 220,000	No Change
Hollywood SS Grounding Improvements	Dec-23	Dec-23	1	G-T Interconnection	Planned	A in MTEP22	21814	\$ 696,730	No Change
Sand Lake SS Grounding Improvements	Dec-23	Dec-23	1	G-T Interconnection	Planned	A in MTEP22	21814	\$ 220,000	No Change
Saratoga SS Grounding Improvements	Dec-23	Dec-23	1	G-T Interconnection	Planned	A in MTEP22	21814		No Change
Wautoma SS - Port Edwards SS, 138kV (X-11), uprate	Dec-23	Dec-23	1 1	G-T Interconnection	Planned Planned	A in MTEP22 A in MTEP22	21814 21814	\$ 519,783 \$ 220,000	No Change
Wautoma SS Grounding Improvements Wautoma SS Transformer Replacement	Dec-23	Dec-23	1	G-T Interconnection	Planned	A in MTEP22		\$ 220,000 \$ 4,738,573	No Change No Change
Rocky Run Transformer Replacement	Dec-23	May-24	1	Reliability	Planned	A in MTEP22	21286	\$ 4,738,573	No Change No Change
Wittenberg SS, DIC Substation Retirement	Oct-23	Oct-24	1	T-D Interconnection	Planned	A in MTEP20	14907	\$ 105,000	No Change No Change
Petenwell - Council Creek (X-40), OPGW Installation	Dec-24	Dec-25	1	Communication	Planned	A in MTEP21	19587	\$ 9,000,000	Updated ISD
Lincoln Pump Station - McKenna 69kV (Y-145), Rebuild	Dec-24	Dec-24	1	Condition and Performance	Planned	A in MTEP18		\$ 9,000,000	No Change
Kelly SS, Replace Transformer	Dec-24	Dec-24	1	T-D Interconnection	Proposed	A in MTEP20	14907	\$ 150,000	No Change
Hodag SS DIC, Add Additional Transformer		Jun-25	1	T-D Interconnection	Proposed	A in MTEP23	24783	\$ 2,700,000	Updated ISD
Colburn SS, DIC, New Substation		May-27	1	T-D Interconnection	Proposed	A in MTEP23	23913	\$ 39,900,000	Updated ISD, Cost, Proposed Status, and MTEP Appendix from B to A in MTEP23
Birnamwood SS, DIC new substation	Dec-25	Dec-25	1	T-D Interconnection	Planned	A in MTEP18	15128	\$ 4,500,000	No Change
McKenna - Castle Rock 69kV (Y-47), Rebuild	Dec-25	Dec-25	1	Condition and Performance	Planned	A in MTEP18	7763	\$ 10,740,000	No Change
Saratoga SS - Control House and Breaker Asset Renewal	Dec-25	Dec-25	1	Condition and Performance	Planned	A in MTEP22		\$ 8,200,000	No Change
Tommy's Tumpike, DIC, New Sub		Dec-25	1	T-D Interconnection	Proposed	A in MTEP23	24475	\$ 5,250,000	Updated Cost
Groenier – Rosholt (ALTE) Tap, 69 kV (Y-71), Partial Rebuild and Rerate	Dec-26	Dec-25	1 1	Condition and Performance	Planned	A in MTEP23	21921	\$ 16,500,000 \$ 10,000,000	No Change
Pittsville - Sigel 69 kV (Y-108), Rebuild J732 Superior SS Generator Interconnection Facilities and Network Upgrades	Dec-25 Feb-26	Dec-25 Feb-26	1	Condition and Performance G-T Interconnection	Provisional Planned	B in MTEP22 A in MTEP21	21922 19729	\$ 10,000,000 \$ 21,245,605	No Change
Rocky Run SS T2 and T4 Power Transformer Replacement	Jun-26	Jun-26	1	Reliability	Proposed	A in MTEP23	24093	\$ 6.000,000	No Change No Change
Harrison Tap – Iola 69kV (Y-70), Rebuild & OPGW	3011 20	Dec-26	1	Condition and Performance	Planned	A in MTEP23		\$ 16,000,000	No Change
North Central WI Reliability Project	Jun-27	Jun-28	1	Reliability	Proposed	A in MTEP23	22587	\$ 47,900,000	Updated ISD and Cost
Rocky Run – Werner West 345 kV (WERWL41), Rebuild	Dec-28	Dec-28	1	Condition and Performance	Provisional	B in MTEP23	23839	\$ 130,000,000	No Change
Pine – Skanawan Tap Structure (I-9), OPGW Addition & Partial Rebuild	Dec-25	Jun-30	1	Communication	Provisional	B in MTEP23	23841	\$ 17,000,000	No Change
Hilltop - Council Creek 69 kV (Y-74), Partial Rebuild		Dec-27	1	Condition and Performance	Provisional	B in MTEP24	24983	\$ 45,000,000	Added to project list as of Q2 2023
Dixie SS, DIC, New Substation		Nov-25	1	T-D Interconnection	Planned	A in MTEP24	22911	\$ 561,327	Added to project list as of Q2 2023
Northern Casting Steel Tap, Retire GOAB		Feb-24	1	Condition and Performance	Planned	A in MTEP23	20204	\$ 101,433	Added to project list as of Q2 2023
Ontonagon – Victoria Hy 69kV (Ontonagon69) Reinsulate	Dec-24	Dec-23	2	Condition and Performance	Planned	A in MTEP22	21346	\$ 4,245,000	No Change
Tilden SS, Control House Replacement and Breaker & Relay Asset Renewal	Dec-23	Jun-24	2	Condition and Performance	Planned	A in MTEP20	16488	\$ 6,554,000	No Change
Western Marquette County DIC Eastern UP, new DIC	Dec-24 Jun-24	Jun-24 Dec-25	2	T-D Interconnection T-D Interconnection	Planned	A in MTEP21 A in MTEP18	14968 15130	\$ 3,200,000 \$ 10,000,000	No Change Updated ISD
Marquette County Reactive Power Project	Nov-24	Nov-24	2	Reliability	Proposed Planned	A in MTEP18	19965	\$ 10,000,000	No Change
Winona - Atlantic 69kV (Winona69), rebuild	Dec-24	Dec-24	2	Reliability	Planned	A in MTEP20	4727	\$ 35,500,000	No Change
Empire SS, Control House Replacement and Breaker & Relay Asset Renewal	Dec-24	Dec-24	2	Condition and Performance	Planned	A in MTEP21	16489	\$ 9,900,000	No Change
J1251 Summer Meadow Swt Station Network Upgrades and Interconnection Facilities		Jun-25	2	G-T Interconnection	Planned	A in MTEP23	24446	\$ 8,002,656	No Change
Ontonagon County SS, DIC, New Substation		Jun-25	2	T-D Interconnection	Provisional	B in MTEP23	24800	\$ 4,100,000	No Change
Delta County, DIC, Upgrades	Sep-25	Jan-27	2	T-D Interconnection	Planned	A in MTEP23	23915	\$ 21,000,000	Updated ISD, Cost, Status, and MTEP Appendix from B to A in MTEP23
Perch Lake - National 138kV (468) Partial Retirement Project	Nov-25	Nov-25	2	Reliability	Planned	A in MTEP23	23836	\$ 10,400,000	No Change
Munising Area Reactive Power Project	Dec-25	Dec-25	2	Reliability	Planned	A in MTEP22	19966	\$ 10,000,000	No Change
National – Presque Isle (446) Re-Insulate & OPGW	Dec-25	Dec-25	2	Condition and Performance	Planned	A in MTEP22		\$ 8,300,000	No Change
North Lake SS – Transformer Asset Renewal	Dec-25	Dec-25	2	Condition and Performance	Planned	A in MTEP22		\$ 4,221,065	No Change
Portage St - 3 Mile 69 kV (6901/ESE_6902), Re-insulate & Underground Fiber	Dec-25	Dec-25	2	Condition and Performance	Planned	A in MTEP22		\$ 5,400,000	No Change
Chippewa County, DIC, Sub Expansion Keel Ridge SS, new DIC	Jun-27	Dec-25 Dec-25	2	T-D Interconnection T-D Interconnection	Provisional Proposed	B in MTEP23 A in MTEP18	24576 13792	\$ 35,000,000 \$ 8,894,678	No Change No Change
Chandler-Delta 69 kV (Delta1), Rebuild and OPGW	Dec-26	Jun-26	2	Condition and Performance	Proposed	A in MTEP18 A in MTEP23	21985	\$ 8,894,678	Updated Project Name, ISD, and Cost
9 Mile SW STA – Pine River 69kV (6921/23) Partial Rebuild	Dec-26	Dec-26	2	Condition and Performance	Provisional	B in MTEP19	16496	\$ 40,000,000	Updated Project Name, 15D, and Cost Updated Cost
Benson Lake SVC SCM Layer Asset Renewal	Dec-26	Dec-26	2	Condition and Performance	Planned	A in MTEP23	23856	\$ 4,500,000	No Change
Cornell Tap – Watson Tap 69kV (Chandler), Partial Rebuild	Dec-26	Dec-26	2	Condition and Performance	Proposed	A in MTEP23	23876	\$ 30,000,000	No Change
Pine River - Mich Limestone Loading Dock 69 kV (ESE_6906), Rebuild	Jun-27	Jun-27	2	Condition and Performance	Planned	A in MTEP22	21918	\$ 31,100,000	No Change
North Lake - Greenstone 69kV (NLKY11), Rebuild	Dec-27	Dec-27	2	Condition and Performance	Provisional	B in MTEP22	21920	\$ 14,200,000	No Change
Pine Hy Tap – Pine Hy 69kV (ASPY31-1), Rebuild & OPGW	Dec-27	Dec-27	2	Condition and Performance	Planned	A in MTEP23	23857	\$ 11,500,000	No Change
Conover – Mass 69kV (6530) Partial rebuild	Dec-28	Dec-28	2	Condition and Performance	Provisional	B in MTEP19	16495	\$ 8,600,000	No Change
Atlantic – Osceola 69kV (Laurium2), Re-insulate		Dec-25	2	Condition and Performance	Planned	B in MTEP23	24842	\$ 6,200,000	Added to project list as of Q2 2023
Straits SS Power Transformer Asset Renewal		Dec-27	2	Condition and Performance	Provisional	B in MTEP24	24924	\$ 6,104,986	Added to project list as of Q2 2023
Presque Isle SS Breaker and Relay Asset Renewal		Dec-27	2	Condition and Performance	Provisional	B in MTEP24	24981	\$ 10,461,696	Added to project list as of Q2 2023
		Dec-27	2	Condition and Performance	Provisional	B in MTEP24	25003	\$ 9,000,000	Added to project list as of Q2 2023
Laurium2 South Riser - Laurium2 North Riser 69 kV (Laurium2), Replace Underground Cable		Oct-24	2	Condition and remornance	Planned	A in MTEP23	20203	\$ 1,702,530	ridded to project instant of QL 2025

Project Name	2022 Est. ISD Month - Year	2023 Est. ISD Month - Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
J1000 Comet SS Network Upgrades and Interconnection Facilities	Mar-23	Dec-23	3	G-T Interconnection	Planned	A in MTEP22	21648	\$ 6,693,598	No Change
Bluff LNG SS, new DIC	Dec-22	Mar-23	3	T-D Interconnection	Planned	A in MTEP20	14907	\$ 1,275,738	Project In-Service, Updated Cost and ISD
Artesian SS, DIC - Terminal Connection		May-24	3	T-D Interconnection	Planned	A in MTEP23	20204	\$ 65,130	Updated ISD
Tokay SS, DIC, Add Transformer	Jun-23	Dec-23	3	T-D Interconnection	Planned	A in MTEP20	14907	\$ 700,000	No Change
J1003 North Beaver Dam SS Network Upgrades and Interconnection Facilities	Jun-23	Nov-23	3	G-T Interconnection	Planned	A in MTEP22	21813		Updated ISD
J947 Tennyson SS Generator Interconnection Facilities and Network Upgrades Rock River SS Switch Replacement	Jul-23	Jul-23 Sep-23	3	G-T Interconnection G-T Interconnection	Planned Planned	A in MTEP20 A in MTEP20	19145 19145	\$ 5,704,918 \$ 95,737	No Change
J1042 North Lake Geneva SS Network Upgrades and Interconnection Facilities	Sep-23 Sep-23	Sep-23 Sep-23	3	G-T Interconnection	Planned	A in MTEP20 A in MTEP22	22105	\$ 95,737	No Change No Change
Hillman SS, Upgrade Transformer	Nov-23	Nov-23	3	G-T Interconnection	Planned	A in MTEP20		\$ 3,132,719	No Change
Burlington - Sugar Creek, (6541), 138kV, line uprate	Nov-23	Nov-23	3	G-T Interconnection	Planned	A in MTEP22	22225	\$ 4,365,163	No Change
J1460 Sunrise SS Network Upgrades and Interconnection Facilities		Dec-25	3	G-T Interconnection	Planned	A in MTEP23		\$ 4,465,266	No Change
Sharon SS, DIC, New Substation	Dec-23	Dec-23	3	T-D Interconnection	Planned	A in MTEP21	14968	\$ 865,000	No Change
Gateway - Sycamore (6902), 69kV, rebuild	Dec-23	Dec-23	3	Reliability	Planned	A in MTEP21		\$ 3,516,000	No Change
Cardinal - Hickory Creek 345kV, Line Construction	Dec-23	Dec-23	3	Reliability, Economic and Policy	Planned	A in MTEP11		\$ 492,200,000	No Change
Barneveld SS, DIC, new substation	Dec-23	Dec-23	3	T-D Interconnection	Planned	A in MTEP20	18052	\$ 13,134,000	No Change
North Beaver Dam Ground Grid Upgrades Colley Road SS. Transformer Replacement and Asset Renewal	Dec-23	Dec-23 Mar-24	3	G-T Interconnection	Planned Planned	A in MTEP22 A in MTEP20	22085 17585	\$ 550,000 \$ 5,575,000	No Change No Change
Sun Prarie Park, DIC, Substation Rebuild	Nov-23	May-24	3	T-D Interconnection	Planned	A in MTEP20	14907	\$ 1,500,000	No Change No Change
Reedsburg DIC Substation and T-Line Retirements	lun-24	Dec-24	3	T-D Interconnection	Planned	A in MTEP20	14907	\$ 3,500,000	Undated ISD
Spring Green - Wick Drive (Y-170), 69kV, uprate	Jun-24	Jun-24	3	Reliability	Planned	A in MTEP21	14964	\$ 1,500,000	No Change
Rock River SS, DIC, Additional Transformer		Jul-24	3	T-D Interconnection	Proposed	A in MTEP23		\$ 2,902,740	No Change
Johnstown SS, DIC, New Substation	May-24	Oct-24	3	T-D Interconnection	Planned	A in MTEP22	23520	\$ 6,063,398	No Change
Bonnie Road, DIC, New Substation	Jun-23	Dec-24	3	T-D Interconnection	Planned	A in MTEP21	19806	\$ 3,504,413	No Change
Rock County Reliability Project	Dec-24	Dec-24	3	Reliability	Proposed	A in MTEP22	20805	\$ 54,000,000	No Change
Lancaster Transformer Replacement & Substation Rebuild	Dec-24	Dec-24	3	T-D Interconnection	Planned	A in MTEP21	20925	\$ 3,700,000	No Change
Gaston Road SS, DIC, Additional Transformer Duck Creek SS, DIC, New Substation	Dec-24 Dec-24	Dec-24 Dec-24	3	T-D Interconnection	Planned Planned	A in MTEP22 A in MTEP22	22988 23007	\$ 5,305,901 \$ 5,580,432	No Change
Vinburn Substation 69 kV Capacitor Addition	Dec-24	Dec-24	3	Reliability, Condition and Performance	Planned	A in MTEP22	22986	\$ 3,620,000	No Change No Change
J1374 Ebenezer SS Network Upgrades and Interconnection Facilities	Dec-24	Aug-24	3	G-T Interconnection	Planned	A in MTEP23	24445	\$ 1,577,013	No Change
DPC Germantown Jct Tap, New T-T		Jun-26	3	T-D Interconnection	Proposed	A in MTEP23	24575	\$ 11,071,182	Updated ISD
Columbus SS, DIC, Transformer Replacement	Jun-24	Jun-26	3	T-D Interconnection	Planned	A in MTEP22	22989	\$ 15,690,577	Updated ISD
Huiskamp – Ruskin (6937), Partial Rebuild	Jun-25	Jun-25	3	Condition and Performance	Planned	A in MTEP22		\$ 7,900,000	No Change
J1214 J1326 Rockdale SS Network Upgrades and Interconnection Facilities		Aug-25	3	G-T Interconnection	Planned	A in MTEP23	24613	\$ 4,069,937	No Change
Manogue Rd SS DIC, New Substation		Aug-25	3	T-D Interconnection	Planned	A in MTEP23	24373	\$ 7,091,074	Updated from Proposed to Planned
Academy - Columbus 69kV (Y-21), Rebuild Darlington - Rock Branch 69kV (Y-109), Rebuild	Dec-24 Jun-27	Dec-25 Dec-26	3	Condition and Performance Condition and Performance	Planned Planned	A in MTEP21 A in MTEP22	10590 18046	\$ 8,800,000 \$ 16,700,000	No Change Updated ISD
Nelson Dewey - Bloomington (Y-184), 69kV, rebuild & OPGW	Dec-25	Dec-25	3	Reliability, Condition and Performance	Planned	A in MTEP22	19962	\$ 16,300,000	No Change
Rockdale and Christiana SS - Control House and Relay Asset Renewal	Dec-25	Dec-25	3	Condition and Performance	Planned	A in MTEP22	21628	\$ 5,800,000	No Change
Rock Branch SS, Relay Replacement and Asset Renewal	Dec-25	Dec-25	3	Condition and Performance	Planned	A in MTEP22	16766	\$ 1,111,290	No Change
Wick Drive – Black Earth 69kV, (Y-62), OPGW Addition & Partial Rebuild	Dec-25	Dec-26	3	Communication	Proposed	A in MTEP23	23858	\$ 6,902,276	Updated ISD and Cost
Stoughton SS, DIC, Substation Retirement	Dec-25	Dec-25	3	T-D Interconnection	Proposed	A in MTEP23	20204	\$ 50,000	No Change
Walworth - Brick Church (Y-159), OPGW Addition & Partial Rebuild		Jun-26	3	Communication	Proposed	A in MTEP23	24465	\$ 4,570,703	Updated ISD and Cost
Belleville SS, DIC, Substation Rebuild		Dec-26	3	T-D Interconnection	Planned	A in MTEP23	20204	\$ 2,689,139	Updated ISD
J1410 J1411 North Arlington Swt St MPFCA & Network Upgrades		Jun-26	3	G-T Interconnection	Planned	A in MTEP23	24758	\$ 21,988,404	No Change
J1483 Hill Valley SS Network Upgrades and Interconnection Facilities		Sep-26	3	G-T Interconnection	Planned	A in MTEP23	24447	\$ 2,252,888	No Change
J1377 Blitz SS Network Upgrades and Interconnection Facilities		Nov-26	3	G-T Interconnection	Planned	A in MTEP23	24799	\$ 14,574,360	No Change
Brodhead SS, Breakers, Switches and RTU Asset Renewal		Dec-26	3	Condition and Performance	Planned	A in MTEP23	20201	\$ 1,807,505	No Change
Grant County DIC, New Substation		Dec-26	3	T-D Interconnection	Provisional	B in MTEP23		\$ 19,000,000	No Change
South Beaver Dam - Hubbard, (Y-134), 69kV Rebuild & OPGW	Dec-26	Dec-26	3	Condition and Performance	Planned	A in MTEP22		\$ 20,100,000	No Change
South Monroe – Browntown (Y-155), Partial Rebuild	Dec-26	Dec-26	3	Condition and Performance	Planned Planned	A in MTEP22 A in MTEP23		\$ 10,900,000	No Change
Kirkwood SS, Power Transformer and Breaker Asset Renewal McCue SS Control House and Relay Asset Renewal	Dec-26 Dec-26	Dec-26 Dec-26	3	Condition and Performance Condition and Performance	Planned Planned	A in MTEP23 A in MTEP23	19963 23895	\$ 14,069,000 \$ 9,500,000	No Change No Change
North Beaver Dam SS Asset Renewal	Dec-26	Dec-26	3	Condition and Performance Condition and Performance	Planned	A in MTEP23	23895	\$ 9,500,000	Updated from Proposed to Planned
Madison Area Relay Projects	Dec-26	Dec-26	3	Condition and Performance	Proposed	A in MTEP23		\$ 21.863.580	No Change
Eden – Rock Branch 69kV (Y-106) Uprate	Jun-27	Jun-27	3	Condition and Performance	Provisional	A in MTEP23		\$ 10,240,000	No Change
Renewable Reinforcement Project	Dec-27	Dec-27	3	Reliability	Provisional	B in MTEP22		\$ 50,000,000	No Change
South Beaver Dam - North Beaver Dam, 69kV (Y-59) Line Rebuild & OPGW	Dec-27	Dec-26	3	Condition and Performance	Planned	A in MTEP23	23904	\$ 11,200,000	Updated ISD and Cost
Hillman - Darlington 138kV (X-14/X-101), Rebuild	Dec-28	Dec-28	3	Condition and Performance	Proposed	A in MTEP18	4726	\$ 28,500,000	No Change
Rock Branch - Dodgeville 69kV (Y-35), Partial Rebuild	Dec-28	Dec-28	3	Condition and Performance	Provisional			\$ 10,300,000	No Change
South Fond du Lac - Spring Brook 69kV (Y-133), Partial rebuild	Dec-30 Dec-31	Dec-30 Dec-31	3	Condition and Performance	Provisional	B in MTEP18 B in MTEP21	13739 1730	\$ 17,000,000 \$ 24,000,000	No Change
Walnut - Blount, new 69kV transmission line	Dec-31	Dec-31 Dec-27	3	Reliability Condition and Performance	Provisional Provisional	B in MTEP21 B in MTEP24	1730 25001	\$ 24,000,000	No Change Added to project list as of Q2 2023
North Monroe - Verona 69 kV (Y-42), Partial Rebuild North Lake Geneva - Williams Bay 69 kV (Y-41), Rebuild		Dec-27 Dec-28	3	Condition and Performance Condition and Performance	Provisional	B in MTEP24	25001	\$ 43,200,000	Added to project list as of Q2 2023 Added to project list as of Q2 2023
South Lake Geneva - North Lake Geneva 69 kV (Y-152), Partial Rebuild		Dec-28	3	Condition and Performance	Provisional	B in MTEP24	25002	\$ 6,500,000	Added to project list as of Q2 2023 Added to project list as of Q2 2023
Gran Grae - Hillside 69 kV (Y-161), Rebuild		Dec-27	3	Condition and Performance	Provisional	B in MTEP24	25019	\$ 10.000,000	Added to project list as of Q2 2023 Added to project list as of Q2 2023
J1214 J1326 J1377 J1410 J1411 MPFCA Network Upgrades		May-25	3	G-T Interconnection	Planned	A in MTEP23	24841	\$ 1,279,961	Added to project list as of Q2 2023
South Beaver Dam - North Beaver Dam (Y-59), 69kV, uprate		Mar-24	3	Reliability	Planned	A in MTEP20	14909	\$ 216,470	Added to project list as of Q2 2023
Howards Grove - Erdman 138kV, new line	Mar-23	Aug-23	4	Reliability	Planned	A in MTEP20	18568	\$ 28,480,980	No Change
Stiles SS - West Marinette SS (M117/L142), OPGW Installation	Apr-23	May-23	4	Communication	Planned	A in MTEP19	15936	\$ 7,071,189	Project In-Service, Updated Cost and ISD
KC Paper SS DIC, Substation Rebuild	Nov-23	Apr-24	4	T-D Interconnection	Planned	A in MTEP21	14968	\$ 2,835,000	Updated ISD
Northview SS, DIC, New Substation	Jun-23	May-23	4	T-D Interconnection	Planned	A in MTEP22	22987	\$ 2,769,349	Project In-Service, Updated Cost and ISD
J1101 Kewaunee SS Network Upgrades and Interconnection Facilities	Aug-23	Aug-23	4	G-T Interconnection	Planned	A in MTEP22	22049	\$ 155,000	No Change
Glenview SS, Transformer Retirement and Breaker & Relay Asset Renewal	Sep-23	Sep-23	4	Condition and Performance	Planned	A in MTEP20	18019	\$ 2,642,000	No Change
Sunset Point - Bowen Street (E-5), 69kV, Uprate	Dec-23 Dec-23	Dec-23 Dec-23	4	Reliability Reliability	Planned Planned	A in MTEP21 A in MTEP21	14964	\$ 1,171,000	No Change
Foot Krok, Boardolov (EAKV11) 60kV uprata						A IN IVITEP21	14964	\$ 1,213,000	No Change
East Krok - Beardsley, (EAKY11), 69kV, uprate									
East Krok - Beardsley, (EAKY11), 69kV, uprate Lost Dauphin - Red Maple 138kV (-1417), uprate Anderson Creek SS. DIC New SS	Dec-23 Dec-23	Dec-23 Apr-24	4	Reliability T-D Interconnection	Planned Planned	A in MTEP21 A in MTEP21	14964 14968	\$ 989,000 \$ 3,227,000	No Change Updated ISD

Project Name	2022 Est. ISD Month - Year	2023 Est. ISD Month - Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
Edgewater - Lodestar 138kV (X-48/Y-31), Underground cable rebuild	Dec-23	Mar-24	4	Condition and Performance	Planned	A in MTEP19	15925	\$ 5,376,000	No Change
Wesmark SS, Relay and Breakers	Apr-24	Apr-24	4	Condition and Performance	Planned	A in MTEP18	13747	\$ 2,373,000	No Change
Woodenshoe SS, DIC, Transformer Replacement	Dec-23	May-24	4	T-D Interconnection	Planned	A in MTEP22	16770	\$ 1,500,000	No Change
Sheboygan County SS, DIC, substation rebuild Butte Des Morts - Neevin 138kV (43021), Rebuild	Jun-24	Jun-24 Dec-24	4	T-D Interconnection	Planned Planned	A in MTEP20	18051	\$ 6,715,315	No Change Updated ISD
Butte Des Morts - Neevin 138kV (43021), Rebuild Wesmark - Rapids 69kV (R-44), Rebuild	Jun-24 Oct-24	Jun-24	4	Condition and Performance Condition and Performance	Planned	A in MTEP17 A in MTEP18	12185 : 12135	\$ 2,982,000 \$ 33,700,000	Updated Cost
Crivitz SS - Transformer Replacement and Asset Renewal	Jul-24	Jul-24	4	Condition and Performance	Planned	A in MTEP21	19705	\$ 4,599,154	No Change
Pioneer - Crivitz 138kV (E-83/B-2), retire 69kV and reconfigure load to 138kV	Dec-23	Aug-24	4	Condition and Performance	Planned	A in MTEP18	14926	\$ 11,700,000	Updated Cost
Kewaunee SS, 345kV Wavetrap Replacement		Jun-24	4	Reliability	Planned	A in MTEP23	20201	\$ 93,000	Updated ISD and Cost
Highway V - Preble 138 kV (X-154), reconductor	Dec-24	Dec-24	4	Reliability	Planned	A in MTEP21	20785	\$ 1,777,603	No Change
North Appleton SS - Transformer Replacement and Asset Renewal	Dec-24	Dec-24	4	Condition and Performance	Planned	A in MTEP21	19706	\$ 7,938,249	No Change
Eaton SS, new T-D Interconnection	Dec-24	Jun-24	4	T-D Interconnection	Planned	A in MTEP16	10484	\$ 2,500,000	Updated ISD
Danz Ave SW STA - University (WPS) 69kV (O-15), underground rebuild & OPGW Pulliam SS, Transformer Retirement and Bus Reconfiguration	Dec-23	Feb-26	4	Condition and Performance	Planned	A in MTEP19 A in MTEP20	15924	\$ 35,000,000	Updated ISD
Edgewater SS, Bus Reconfiguration	May-24 Jun-24	Jul-24 Jun-25	4	Condition and Performance Condition and Performance	Planned Planned	A in MTEP18	15930 : 13756 :	\$ 6,436,000 \$ 9,800,000	Updated ISD No Change
Ellisville SS, DIC, New Substation	Juli-24	Jun-25	4	T-D Interconnection	Planned	A in MTEP23	24784	\$ 10,200,000	Updated Cost and Status
Winnebago County, New OIDC		Jul-25	4	T-D Interconnection	Provisional	B in MTEP23	24474	\$ 8,900,000	No Change
Tower Dr – Pulliam (P-16/R-70). Partial Rebuild	Apr-24	Oct-25	4	Condition and Performance	Planned	A in MTEP22	21348	\$ 4.100,000	Updated ISD
Oak St - Hwy V 69kV (Z-26), Rebuild	Dec-25	Dec-26	4	Condition and Performance	Planned	A in MTEP18	12137	\$ 9,000,000	Updated ISD
Plymouth #5 - New DIC	Dec-25	Dec-25	4	T-D Interconnection	Proposed	A in MTEP22	21925	\$ 41,100,000	No Change
Fitzgerald SS – Transformer and Breaker Asset Renewal	Dec-25	Dec-25	4	Condition and Performance	Planned	A in MTEP22	21915	\$ 9,488,415	Updated Cost
West Marinette SS – Transformer and Breaker Asset Renewal	Dec-25	May-25	4	Condition and Performance	Planned	A in MTEP22	21917	\$ 8,962,353	Updated ISD
Shoto – Northeast 69kV (K-11), Rebuild	Dec-25	Dec-29	4	Condition and Performance	Provisional	A in MTEP23	23911	\$ 5,365,000	Updated ISD
Northeast - Revere Dr 69kV (C-103) Uprate or Rebuild	Dec-25	Dec-28	4	Condition and Performance	Provisional	A in MTEP23	23837	\$ 6,500,000	Updated ISD
Ohmstead SS Control House and Relay Asset Renewal	Dec-26	Dec-26	4	Condition and Performance	Planned	A in MTEP23	23897	\$ 5,700,000	No Change
Shoto SS Power Transformer Asset Renewal	Dec-26	Dec-26	4	Condition and Performance	Planned	A in MTEP23	23901	\$ 6,150,000	No Change
Waupun - South Fond du Lac 69kV, (Y-25) Partial Rebuild	Dec-26	Dec-26	4	Condition and Performance	Provisional	A in MTEP23	23905	\$ 22,600,000	No Change
South Fond du Lac SS, Power Transformer and Breaker Asset Renewal	Dec-26	Dec-26	4	Condition and Performance	Planned	A in MTEP23	23906	\$ 9,500,000	No Change
High Falls – Mountain 69kV (Y-77), Partial rebuild	Dec-26	Dec-28	4	Condition and Performance	Planned	A in MTEP23	23838	\$ 33,000,000	Updated ISD, Cost, Status, and MTEP Appendix from B to A in MTEP23
J1253 El Dorado SS Network Upgrades and Interconnection Facilities		Nov-27	4	G-T Interconnection	Planned	A in MTEP23	24801	\$ 50,461,169	Corrected Cost
Aviation - North Fond du Lac 138kV (G111), Line Rebuild		Nov-27	4	G-T Interconnection	Planned	A in MTEP23	24801	\$ 26,434,797	No Change
Ellinwood - Progess 138kV (X-50), Line Rebuild Progress - Aviation 138kV (X-50), Line Rebuild		Nov-27	4	G-T Interconnection G-T Interconnection	Planned	A in MTEP23	24801 24801	\$ 3,207,076 \$ 3,878,149	No Change
Valders SS, New 138/69 kV Substation		Nov-27 Jul-28	4	G-1 Interconnection Reliability	Planned Proposed	A in MTEP23 A in MTEP23	24801	\$ 3,878,149	No Change Updated ISD, Cost, Status, and MTEP Appendix from B to A in MTEP23
Wallet River Area Reliability Project	Dec-26	Dec-27	4	Reliability	Proposed	A in MTEP24	21900	\$ 24,200,000	Updated Cost and moved from B in MTEP24
Fast Krok Transformer Replacement	Dec-26	Dec-27	4	Reliability, Condition and Performance	Provisional	A in MTEP23	23912	\$ 6,150,000	No Change
Edgewater SS, DIC, replace transformer and substation rebuild	Dec-30	Dec-30	4	T-D Interconnection	Planned	A in MTEP18	15126	\$ 5,100,000	No Change
Werner West – North Appleton 345 kV (NAPL31), Rebuild	Dec-30	Dec-30	4	Condition and Performance	Provisional	B in MTEP23	23840	\$ 55,000,000	No Change
Pioneer SS (WPS) Breaker Relay and Remote Ends Asset Renewal		Dec-27	4	Condition and Performance	Provisional	B in MTEP24	24980	\$ 3,787,118	Added to project list as of Q2 2023
Forest Junction SS and Remote End Relay Asset Renewal		Dec-27	4	Condition and Performance	Provisional	B in MTEP24	24922	\$ 5,551,728	Added to project list as of Q2 2023
Lakefront SW YD - Revere Dr 69 kV (D-104), Rebuild		Dec-27	4	Condition and Performance	Provisional	B in MTEP24	25000	\$ 3,000,000	Added to project list as of Q2 2023
Lost Dauphin - Oak St 69 kV (E-31), Partial Rebuild		Dec-27	4	Condition and Performance	Provisional	B in MTEP24	25020	\$ 7,000,000	Added to project list as of Q2 2023
J1253 J1410 J1411 MPFCA Network Upgrades		Dec-25	4	G-T Interconnection	Planned	A in MTEP23	24858	\$ 55,520	Added to project list as of Q2 2023
Range Line SW STA, Control House Replacement and Asset Renewal	Apr-23	Apr-23	5	Condition and Performance	Planned	A in MTEP19	15928	\$ 8,998,808	Project In-Service, Updated Cost and ISD
Sussex to Bark River (46143/2661), 138kV, OPGW Installation	Nov-23	Nov-23	5	Communication	Planned	A in MTEP21	19959	\$ 3,051,000	No Change
Kenosha SS, Breaker, Relay, RTU and Disconnect Asset Renewal	Nov-23	Dec-23	5	Condition and Performance	Planned	A in MTEP20	14909	\$ 7,250,000	Updated Cost and ISD
Lincoln - 43rd Street Terminal 138 kV (5053), Replace with double circuit duct bank and XLPE cable	Dec-24	Dec-26	5	Condition and Performance	Planned	A in MTEP21	18048	\$ 35,800,000	Updated ISD
Cottonwood - Summit Underground Fiber	Dec-24	Oct-24	5	Communication	Planned	A in MTEP22	23531	\$ 3,156,228	No Change
Port Washington – Saukville 138 kV (X-132/X-133) partial rebuild Arcadian SS, Power Transformer and Control House Replacement and Asset Renewal	Jun-25 Jun-24	Dec-24 Jun-25	5	Condition and Performance / Reliability Condition and Performance / Reliability	Planned Planned	A in MTEP22 A in MTEP20	21899 : 16486	\$ 9,194,000 \$ 51.600,000	No Change No Change
Arcadian SS, Power Transformer and Control House Replacement and Asset Renewal Pleasant Prairie 345 kV Capacitor Bank Addition	Jun-24	Jun-25 Jun-25	5	Reliability	Planned	A in MTEP20	24785	\$ 51,600,000	No Change Updated from Provisional to Planned
Racine 345 kV Capacitor Bank Addition		Jun-25 Jun-25	5	Reliability	Planned	A in MTEP23	24/85	\$ 7,600,000	Updated from Provisional to Planned Updated from Provisional to Planned
Granville SS, Control House and Relay Replacement and Asset Renewal	Nov-25	Jun-25 Jun-26	5	Condition and Performance / Reliability	Planned	A in MTEP23	16490	\$ 8,400,000	Updated from Provisional to Planned Updated ISD
J1304 J1305 J1460 MPFCA Network Upgrades	NOV-25	Jun-26 Dec-25	5		Planned	A in MTEP21 A in MTEP23	24782	\$ 40,577,000	•
J1304 J1305 J1460 MPFCA Network Upgrades Everett GIS Asset Renewal	Dec-25	Dec-25 Dec-25	5	G-T Interconnection Condition and Performance	Planned Planned	A in MTEP23 A in MTEP22	24782	\$ 4,930,697 \$ 16,776,970	No Change No Change
Everett GIS Asset Renewal WisDOT I-94 Stadium Group of Projects	Dec-25 Dec-26	Dec-25 Dec-26	5	Condition and Performance Condition and Performance	Proposed	A in MTEP22	21923	\$ 16,776,970	No Change No Change
WisbOT 1-94 Statium Group of Projects Milwaukee Area Reactive Power Project	Dec-26	Dec-26	5	Reliability	Proposed	B in MTEP23	23008	\$ 30,000,000	No Change No Change
Harbor – Russel Terminal 138 kV (893K11). Rebuild	Dec-26	Apr-28	5	Condition and Performance	Proposed	A in MTEP22	21926	\$ 61.200.000	Uodated ISD
Substation Switch Asset Renewal and Enhancements	Dec-24	Dec-26	Various	Condition and Performance	Planned	A in MTEP23	23902	\$ 5.032.000	No Change
Oak Creek, Racine SS and Remote Ends, Control Buildings and Relaying Asset Renewal	Dec-25	May-26	5	Condition and Performance	Planned	A in MTEP22	21629	\$ 31,352,034	No Change
Granville – Bluemound Corridor Rebuild		Jun-28	5	Reliability	Provisional	B in MTEP24	24919	\$ 120,000,000	Added to project list as of Q2 2023
Range Line Dist (WE) - Range Line Switchyard 138 kV (61452), Replace Underground Cable		Dec-27	5	Condition and Performance	Provisional	B in MTEP24	24925	\$ 3,000,000	Added to project list as of Q2 2023
Range Line Dist (WE) - Range Line Switchyard 138 kV (61441), Replace Underground Cable		Dec-27	5	Condition and Performance	Provisional	B in MTEP24	24982	\$ 3,000,000	Added to project list as of Q2 2023
		Dec-28	5	G-T Interconnection	Planned	A in MTEP23	24838	\$ 22,432,466	Added to project list as of Q2 2023
J1316 Paris SS Network Upgrades Lakeview SS, Replace Breakers and Relays		Dec-28 Dec-23	5	G-T Interconnection Condition and Performance	Planned Planned	A in MTEP23 A in MTEP20	24838 14909	\$ 22,432,466 \$ 874,500	Added to project list as of Q2 2023 Added to project list as of Q2 2023

Project Name	2022 Est. ISD Month - Year	2023 Est. ISD Month - Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
Small Capital Project and Asset Renewal 2020	Dec-25	Dec-26	various	Condition and Performance	Planned	A in MTEP19	14908	\$ 35,906,079	No Change
Physical Security 2020	Jun-24	Dec-24	various	Physical Security	Planned	A in MTEP19	14914	\$ 21,603,965	No Change
Physical Security Current Cycle	Dec-24	Dec-25	various	Physical Security	Planned	A in MTEP18	13826	\$ 67,198,396	No Change
Communication Reliability Program 2021	Jun-24	Dec-24	various	Communication	Planned	A in MTEP20	14911	\$ 10,927,208	No Change
Small Capital Project and Asset Renewal Program 2021	Jun-24	Dec-25	various	Condition and Performance	Planned	A in MTEP20	14909	\$ 38,913,412	No Change
Physical Security Program 2021	Jun-24	Dec-24	various	Physical Security	Planned	A in MTEP20	14915	\$ 17,908,909	No Change
Load Interconnection Program 2021	Jun-24	Feb-25	various	T-D Interconnection	Planned	A in MTEP20	14907	\$ 20,124,594	Updated ISD
Communication Reliability Program 2022	Jun-25	Dec-25	various	Communication	Planned	A in MTEP21	14965	\$ 19,252,066	No Change
Small Capital Project and Asset Renewal Program 2022	Jun-25	Dec-26	various	Condition and Performance	Planned	A in MTEP21	14964	\$ 52,320,773	No Change
Line Clearance Mitigation Program 2022	Jun-25	Jun-23	various	Line Clearance	Planned	A in MTEP21	14966	\$ 2,832,841	Updated ISD
Physical Security Program 2022	Jun-25	Dec-24	various	Physical Security	Planned	A in MTEP21	14967	\$ 11,797,871	Updated ISD
Load Interconnection Program 2022	Jun-25	Jun-25	various	T-D Interconnection	Planned	A in MTEP21	14968	\$ 27,586,994	No Change
Communication Reliability Program 2023	Jun-26	Dec-25	various	Communication	Planned	A in MTEP22	16767	\$ 19,593,713	Updated ISD
Small Capital Project and Asset Renewal Program 2023	Jun-26	Dec-25	various	Condition and Performance	Planned	A in MTEP22	16766	\$ 34,925,540	Updated ISD
Line Clearance Mitigation Program 2023	Jun-26	Dec-26	various	Line Clearance	Planned	A in MTEP22	16768	\$ 3,935,020	Updated ISD
Physical Security Program 2023	Jan-25	Dec-28	various	Physical Security	Planned	A in MTEP22	16769	\$ 1,859,619	Updated ISD
Load Interconnection Program 2023	Jun-26	Jul-24	various	T-D Interconnection	Planned	A in MTEP22	16770	\$ 18,045,914	Updated ISD
Small Capital Project and Asset Renewal Program 2024	Jun-26	Jun-26	various	Condition and Performance	Provisional	A in MTEP23	20201	\$ 51,000,000	Updated and Corrected Cost
Communication Reliability Program 2024	Jun-26	Jun-26	various	Communication	Provisional	A in MTEP23	20202	\$ 10,000,000	No Change
Load Interconnection 2024	Jun-25	Jun-25	various	T-D Interconnection	Provisional	A in MTEP23	20204	\$ 15,000,000	No Change
Line Clearance Mitigation Program 2024	Jun-26	Jun-26	various	Line Clearance	Provisional	A in MTEP23	20203	\$ 10,000,000	No Change
Small Capital Project and Asset Renewal Program 2025	Jun-28	Jun-28	various	Condition and Performance	Provisional	B in MTEP23	22798	\$ 55,000,000	No Change
Communication Reliability Program 2025	Jun-28	Jun-28	various	Communication	Provisional	B in MTEP23	22799	\$ 10,800,000	No Change
Load Interconnection 2025	Jun-28	Jun-28	various	T-D Interconnection	Provisional	B in MTEP23	22911	\$ 19,400,000	No Change
Line Clearance Mitigation 2025	Jun-27	Jun-27	various	Line Clearance	Provisional	B in MTEP23	23951	\$ 10,000,000	No Change
LRTP-05: Tremval – Eau Claire – Jump River	Jun-28	Jun-28	1	LRTP	Planned	A in MTEP21	23372	\$ 39,500,000	No Change
LRTP-06: Tremval – Rocky Run – Columbia	Jun-29	Jun-29	1, 3	LRTP	Planned	A in MTEP21	23408	\$ 850,300,000	No Change
Line Upgrade Work to Accommodate New Tremval Substation	Jun-28	Jun-28	1	LRTP	Planned	A in MTEP21	23371	\$ 2,300,000	No Change

LEGEND

No Shading = No change to project since previous Assessment
Green Shading = Project In-Service
Orange Shading = New project, was not in previous Assessment project list
Gray Shading = Some Change has happened since the last posted list

COMMONLY USED DEFINITIONS
DIC - Distribution Interconnection
GIA - Generator Interconnection Agreement
MPFCA - Multi-Party Facility Agreement

MISO MTEP Appendix - Indicates MTEP Cycle, Cycles MTEP22 and prior are Certified in MISOs' Regional Plan for A projects (BOLDED), MTEP23 and future cycles are not yet certified at the time of publication (12/2023).