

Project Name	2020 Est. In-Service Year	2021 Est. In-Service Year	ZONE	Need Category	Planning Event	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
Hilltop SS, Install 69kV Breakers	2020	2022	1	Condition and Performance		Planned	A in MTEP17	12031	\$ 1,200,000.00	Updated ISY
Caroline SS, Transformer (T31) 69kV Breaker and Relay Asset Renewals	2021		1	Condition and Performance		Planned	A in MTEP18	14986	\$ 4,500,000.00	Updated Cost Estimate
Whitcomb SS, Transformer (T31) 69kV Breaker Asset Renewals	2021		1	Condition and Performance		Planned	A in MTEP18	14987	\$ 5,500,000.00	Updated Cost Estimate
Waupaca Area Energy Storage Project	2021	2022	1	Operational Flexibility	prior + P1.2	Planned	A in MTEP19	15947	\$ 8,071,000.00	Updated ISY
Birnawood SS, DIC replace transformer and substation rebuild	2021		1	T-D Interconnection		Planned	A in MTEP18	15128	\$ 130,000.00	
Pine SS, DIC, Transformer Replacement	2021		1	T-D Interconnection		Planned	A in MTEP20	14907	\$ 165,000.00	
Peterwell - Saratoga 138kV (X-43), Line Rebuild	2022	2023	1	Reliability, Economic	prior + P1.2	Planned	A in MTEP20	18017	\$ 24,500,000.00	
Mudwater SS, DIC, New Substation	2022	2025	1	T-D Interconnection		Planned	A in MTEP19	14906	\$ 5391,500.00	
Waupaca SS, DIC, transformer addition	2022		1	T-D Interconnection		Planned	A in MTEP20	18053	\$ 5,200,000.00	Updated Cost Estimate
Chaffee Creek - Lincoln Pump Station 69kV (Y-18), Rebuild	2023		1	Condition and Performance		Planned	A in MTEP18	10486	\$ 9,600,000.00	
Wautoma - Chaffee Creek 69kV (Y-49), Rebuild	2023		1	Condition and Performance		Planned	A in MTEP18	7764	\$ 14,500,000.00	
Winneconne SS, Relay and Breaker Replacement	2023	2022	1	Condition and Performance		Planned	A in MTEP18	13243	\$ 2,900,000.00	
J732 Superior SS Generator Interconnection Facilities and Network Upgrades	2023		1	G-T Interconnection		Planned	A in MTEP21	19729	\$ 21,245,605.00	
Maine - Hilltop 115kV line (U-11), uprate	2023	2022	1	Reliability	P3 and P6	Planned	A in MTEP20	14909	\$ 835,000.00	Updated ISY / Proposed to Planned
Weston - Sherman Street, 115kV line (Z-52), uprate	2023		1	Reliability	P6 and P7	Planned	A in MTEP20	14909	\$ 997,000.00	Proposed to Planned
Birnawood SS, DIC new substation	2023	2024	1	T-D Interconnection		Planned	A in MTEP18	15128	\$ 4,500,000.00	Updated ISY
Peterwell - Council Creek (X-40), OPGW Installation	2024		1	Communication		Planned	A in MTEP21	19587	\$ 9,000,000.00	
Lincoln Pump Station - McKenna 69kV (Y-145), Rebuild	2025	2024	1	Condition and Performance		Planned	A in MTEP18	7765	\$ 9,000,000.00	Updated ISY
McKenna - Castle Rock 69kV (Y-47), Rebuild	2025		1	Condition and Performance		Planned	A in MTEP18	7763	\$ 10,740,000.00	
Brooks Corners SS, DIC, Transformer Addition		2021	1	T-D Interconnection		Planned	A in MTEP20	14907	\$ 478,000.00	Updated Cost Estimate
Saratoga SS - Control House and Breaker Asset Renewal	2024	2025	1	Condition and Performance		Proposed	B in MTEP21	19525	\$ 6,319,095.00	
J986 7 Mile Creek SS, Generator Interconnection Facilities and Network Upgrades		2022	1	G-T Interconnection		Provisional	A in MTEP21	20625	\$ 2,257,123.00	
North Lake - M-38 138kV (NLKG31), Rerate	2020	2021	2	Line Clearance		Planned	A in MTEP18	13825	\$ 2,112,836.00	In-Service
Mackinac - McGulpin 138kV (9901 and 9903), submarine cable replacement	2021		2	Condition and Performance		Planned	A in MTEP18	15145	\$ 105,000,000.00	
Forsyth SS, DIC, Add 1st Transformer	2021		2	T-D Interconnection		Planned	A in MTEP18	14905	\$ 84,000.00	Updated Cost Estimate
Garden Corners SS, DIC, add 1st Transformer	2021	2021	2	T-D Interconnection		Planned	A in MTEP18	14904	\$ 1,850,000.00	In-Service
Mackinac HVDC, System Control and Monitoring (SCM) Asset Renewal	2022		2	Condition and Performance		Planned	A in MTEP20	18020	\$ 4,000,000.00	
NLKG31 Tap - Greenstone 138kV, construct new transmission line	2022		2	Condition and T-D Interconnection		Planned	A in MTEP19	15933	\$ 5,200,000.00	
J849, Chandler SS, Interconnection Facilities and Network Upgrades	2022	2023	2	G-T Interconnection		Planned	A in MTEP19	16492	\$ 3,036,785.00	
Atlantic SS, 138/69kV Bus Reconfiguration and Transformer Addition	2022		2	Operational Flexibility and Condition and Performance	P2.2	Planned	A in MTEP19	7586	\$ 11,600,000.00	
Presque Isle - Tilden 138kV, Loop and Uprate	2022		2	Reliability	prior + P1.2	Planned	A in MTEP19	15345	\$ 15,300,000.00	
Masonville SS, DIC, Substation Rebuild and Transformer Additions	2022		2	T-D Interconnection		Planned	A in MTEP19	14906	\$ 2,244,500.00	Updated Cost Estimate
Tilden SS, Control House Replacement and Breaker & Relay Asset Renewal	2023		2	Condition and Performance		Planned	A in MTEP20	16488	\$ 5,880,000.00	
Marquette County Reactive Power Project	2023		2	Reliability	P0, P1.2, P1.3	Proposed	A in MTEP21	19965	\$ 24,200,000.00	Proposed to Planned / MTEP21 Target A
Central UP, new DIC	2023		2	T-D Interconnection		Proposed	A in MTEP18	15133	\$ 6,200,000.00	
Eastern UP, new DIC	2023	2024	2	T-D Interconnection		Proposed	A in MTEP18	15130	\$ 12,593,000.00	
Winona - Atlantic 69kV (Winona69), rebuild	2024		2	Reliability	P6	Proposed	A in MTEP20	4727	\$ 13,900,000.00	
Keel Ridge SS, new DIC	2025	2027	2	T-D Interconnection		Proposed	A in MTEP18	13792	\$ 2,600,000.00	
Munising Area Reactive Power Project	2023		2	Reliability	P0	Provisional	B in MTEP21	19966	\$ 5,000,000.00	
Empire SS, Control House Replacement and Breaker & Relay Asset Renewal	2024		2	Condition and Performance		Provisional	A in MTEP21	16489	\$ 6,732,000.00	
Forsyth - Gwinn 69kV, new line	2024		2	Operational Flexibility	P1.2	Provisional	B in MTEP20	18018	\$ 4,000,000.00	
9 Mile SW STA - Pine River 69kV (8921/23), Replace select poles, x-arms, re-insulate	2025		2	Condition and Performance		Provisional	B in MTEP19	16496	\$ 5,900,000.00	
North Lake - Greenstone 69kV (NLKY11), Rebuild	2026		2	Condition and Performance		Provisional	B in MTEP19	16496	\$ 14,000,000.00	
Arnold SS, 80 MVAR Inductor Bank	2027		2	Reliability	P0	Provisional	B in MTEP18	14187	\$ 5,000,000.00	
Mass - Conover 69kV (6530), Replace select poles, reinsulate	2027		2	Condition and Performance		Provisional	B in MTEP19	16495	\$ 8,600,000.00	
Columbia SS, Breaker Replacement Asset Renewal	2021	2021	3	Condition and Performance		Planned	A in MTEP18	13821	\$ 2,161,108.00	In-Service
Dane - Waunakee 69kV (Y-143), Rebuild	2021		3	Condition and Performance		Planned	A in MTEP17	12177	\$ 7,000,000.00	
Hillsdale SS, Relay and Breaker Replacements	2021		3	Condition and Performance		Planned	A in MTEP18	13802	\$ 2,000,000.00	
Dodgeville SS Grounding System Upgrades	2021	2023	3	G-T Interconnection		Planned	A in MTEP20	19226	\$ 220,000.00	Updated ISY
Eden - Highland (X-147) 138kV, uprate	2021		3	G-T Interconnection		Planned	A in MTEP20	19269	\$ 695,243.00	
Eden - Lands End 69kV, Loop into Highland SS	2021		3	G-T Interconnection		Planned	A in MTEP20	17525	\$ 13,674,246.00	
Eden SS Grounding System Upgrades	2021	2023	3	G-T Interconnection		Planned	A in MTEP20	19246	\$ 794,591.00	Updated ISY
Elkhorn - North Lake Geneva (X-55) 138 kV, uprate	2021	2022	3	G-T Interconnection		Planned	A in MTEP20	19146	\$ 372,880.00	Updated ISY
Highland - Spring Green (X-17) 138kV, Uprate	2021		3	G-T Interconnection		Planned	A in MTEP20	17525	\$ 2,981,519.00	
Hill Valley SS Grounding System Upgrades	2021	2023	3	G-T Interconnection		Planned	A in MTEP20	19246	\$ 611,927.00	Updated ISY
Hillman SS Grounding System Upgrades	2021		3	G-T Interconnection		Planned	A in MTEP20	19248	\$ 181,784.00	
Hillman SS, Upgrade Transformer	2021	2023	3	G-T Interconnection		Planned	A in MTEP20	19145	\$ 3,132,719.00	
J855 Ebenezer SS Generator Interconnection Facilities and Network Upgrades	2021		3	G-T Interconnection		Planned	A in MTEP20	18665	\$ 5,526,333.00	
J947 Tennyson SS Generator Interconnection Facilities and Network Upgrades	2021	2023	3	G-T Interconnection		Planned	A in MTEP20	19145	\$ 5,756,434.00	
Nelson Dewey SS Grounding System Upgrades	2021		3	G-T Interconnection		Planned	A in MTEP20	19267	\$ 537,753.00	
Rock River SS Switch Replacement	2021	2023	3	G-T Interconnection		Planned	A in MTEP20	19145	\$ 95,737.00	
Spring Green SS Grounding System Upgrades	2021		3	G-T Interconnection		Planned	A in MTEP20	19269	\$ 220,000.00	
Cross Country SS, DIC, Install New Breakers	2021		3	T-D Interconnection		Planned	A in MTEP19	14906	\$ 980,000.00	Updated Cost Estimate
Muscoda SS, DIC add 2nd transformer and substation rebuild	2021	2022	3	T-D Interconnection		Planned	A in MTEP18	15124	\$ 5,000,000.00	Updated ISY / Updated Cost Estimate
Northern Lights Substation, new T-D Interconnection	2021	2021	3	T-D Interconnection		Planned	A in MTEP17	12346	\$ 21,235,700.00	In-Service
Orfordville SS, DIC, Capacitor Retirement and Transformer Replacement	2021	2021	3	T-D Interconnection		Planned	A in MTEP19	14906	\$ 182,000.00	In-Service
Portage Industrial Park SS, DIC, replace transformers and substation rebuild	2021	2022	3	T-D Interconnection		Planned	A in MTEP18	15127	\$ 3,000,000.00	Updated ISY
Waterloo SS, DIC, New 138kV Substation	2021		3	T-D Interconnection		Planned	A in MTEP19	14906	\$ 1,423,200.00	Updated Cost Estimate
McCue SS, Circuit Breaker Asset Renewal	2022		3	Condition and Performance		Planned	A in MTEP19	14908	\$ 1,775,000.00	
Bass Creek - Town Line Road (X-95) 138kV, reconductor	2022		3	G-T Interconnection		Planned	A in MTEP20	19146	\$ 4,445,862.00	
Bristol - Elkhorn (X-81) 138 kV, uprate	2022		3	G-T Interconnection		Planned	A in MTEP20	19146	\$ 790,866.00	
Concord - Cooney (9042) 138kV, Reconductor	2022	2021	3	G-T Interconnection		Planned	A in MTEP20	18925	\$ 3,363,101.00	
J818 Jefferson SS Generator Interconnection Facilities and Network Upgrades	2022	2021	3	G-T Interconnection		Planned	A in MTEP20	18925	\$ 1,669,458.00	
J850 North Creek SS Generator Interconnection Facilities and Network Facilities	2022		3	G-T Interconnection		Planned	A in MTEP20	19146	\$ 6,324,293.00	Updated Cost Estimate
J864 Lone Rock SS Generator Interconnection Facilities and Network Upgrades	2022		3	G-T Interconnection		Planned	A in MTEP20	19225	\$ 1,767,400.00	
North Lake Geneva Tap - Burlington SS (6541) 138 kV, uprate	2022		3	G-T Interconnection		Planned	A in MTEP20	19146	\$ 1,232,351.00	
Green County, new DIC	2022		3	T-D Interconnection		Planned	A in MTEP18	15129	\$ 4,000,000.00	

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Colley Road SS, Transformer Replacement and Asset Renewal	2023		3	Condition and Performance		Planned	A in MTEP20	17585	\$ 3,150,000.00	
West Middleton - Stagecoach 69kV (6927), Partial Rebuild	2023	2022	3	Reliability	P6	Planned	A in MTEP20	12175	\$ 3,820,000.00	Updated ISY / Updated Cost Estimate
Cardinal - Hickory Creek 345kV, Line Construction	2023		3	Reliability, Economic and Policy		Planned	A in MTEP11	3127	\$ 492,200,000.00	
Barnevel SS, DIC, new substation	2023		3	T-D Interconnection		Planned	A in MTEP20	18052	\$ 14,102,000.00	
Academy - Columbus 69kV (Y-21), Rebuild	2024		3	Condition and Performance		Planned	A in MTEP21	10590	\$ 8,800,000.00	
Nelson Dewey SS - Control House, Relay Asset Renewal	2024	2022	3	Condition and Performance		Planned	A in MTEP21	19105	\$ 6,170,000.00	
Portage - Columbia 138kV (X-13X-20), rebuild existing double circuit	2024	2030	3	Reliability	P1.2	Planned	A in MTEP19	4730	\$ 11,500,000.00	
Pflaum SS, Asset Renewal	2025	2022	3	Condition and Performance		Planned	A in MTEP18	13768	\$ 2,075,688.00	Updated ISY
Bloomington (BL0)-LaPointe Sw Str (LPTT), 69kV, Y43 Rerate	2021	2021	3	Line Clearance		Planned	A in MTEP19	14912	\$ 600,000.00	
Bluff LNG SS, new DIC	2022	2022	3	T-D Interconnection		Planned	A in MTEP20	14907	\$ 1,348,859.00	
Brodhead Muni 4 SS, DIC, New Substation	2021	2021	3	T-D Interconnection		Planned	A in MTEP20	14907	\$ 400,000.00	
Lancaster Transformer Replacement & Substation Rebuild	2024	2024	3	T-D Interconnection		Planned	A in MTEP21	20925	\$ 3,700,000.00	Proposed to Planned / Updated Cost
Gateway - Sycamore (6902) 69kV, rebuild	2023	2023	3	Reliability	P6	Proposed	A in MTEP21	14964	\$ 2,900,000.00	
South Beaver Dam - North Beaver Dam (Y-59), 69kV, uprate	2023	2023	3	Reliability	P6	Planned	A in MTEP20	14966	\$ 70,000.00	Proposed to Planned
Tokay SS, DIC, Add Transformer	2023	2023	3	T-D Interconnection		Proposed	A in MTEP20	14907	\$ 500,000.00	
Spring Green - Wick Drive (Y-170), 69kV, uprate	2024	2024	3	Reliability	P6	Proposed	A in MTEP21	14964	\$ 1,500,000.00	
Hillman - Darlington 138kV (X-14/X-101), Rebuild	2028	2028	3	Condition and Performance		Proposed	A in MTEP18	4726	\$ 21,090,000.00	
Bonnie Road, DIC, New Substation	2023	2023	3	T-D Interconnection		Provisional	A in MTEP21	15906	\$ 3,500,000.00	
Kirkwood SS, Control House, Transformer and Breaker Asset Renewal	2024	2026	3	Condition and Performance		Provisional	B in MTEP21	19963	\$ 7,571,000.00	
Darlington - Rock Branch 69kV (Y-109), Rebuild	2025	2025	3	Condition and Performance		Provisional	B in MTEP20	18046	\$ 16,700,000.00	
Nelson Dewey - Bloomington (Y-184) 69kV, rebuild & OPGW	2025	2025	3	Reliability, Condition and Performance	P6	Provisional	B in MTEP21	19962	\$ 16,300,000.00	
South Beaver Dam - Horizon 69kV (Y-134), Rebuild	2026	2026	3	Condition and Performance		Provisional	B in MTEP20	18047	\$ 14,000,000.00	
Gran Grae SS, Install a second 161/69kV transformer	2026	2026	3	Reliability	P1.3	Provisional	--	--	\$ 8,200,000.00	
Rock Branch - Dodgeville 69kV (Y-35), Partial Rebuild	2028	2028	3	Condition and Performance		Provisional	--	--	\$ 9,000,000.00	
South Fond du Lac - Spring Brook 69kV (Y-133), Partial rebuild	2030	2030	3	Condition and Performance		Provisional	B in MTEP18	13739	\$ 17,000,000.00	Updated Cost Estimate
Rock County Reliability Project	2024	2024	3	Reliability		Provisional	B in MTEP21	20805	\$ 49,721,000.00	Updated Cost Estimate
Butte Des Morts - Sunset Point 138kV, Rebuild	2021	2023	4	Condition and Performance		Planned	A in MTEP17	12185	\$ 16,315,000.00	ISY Changed / Updated Cost Estimate
Cloverleaf SS, Replace Dead End and Switches	2021	2021	4	Condition and Performance		Planned	A in MTEP18	13728	\$ 1,500,000.00	Updated Cost Estimate
Kewaunee SS, Retire Transformer	2021	2022	4	Condition and Performance		Planned	A in MTEP20	14909	\$ 1,400,000.00	ISY Changed / Updated Cost Estimate
Menominee SS, DIC, Retire Transformer	2021	2021	4	Condition and Performance		Planned	A in MTEP20	14905	\$ 340,000.00	Updated Cost Estimate
Redwood - First Ave 69kV (T-46), Replace the submarine cable	2021	2021	4	Condition and Performance		Planned	A in MTEP18	8444	\$ 14,270,989.00	In-Service
Shoto SS, Transformer (T1) and Breaker Asset Renewal	2021	2022	4	Condition and Performance		Planned	A in MTEP18	14988	\$ 5,700,000.00	
20th Street SS, Install two 138kV 8.16 MVAR Capacitor Banks	2021	2021	4	Reliability	prior + P1.2	Planned	A in MTEP19	14908	\$ 4,000,000.00	Updated Cost Estimate
Huebner SS, Install two 138kV 8.16 MVAR Capacitor Banks	2021	2021	4	Reliability	prior + P1.2	Planned	A in MTEP19	14908	\$ 2,600,000.00	Updated Cost Estimate
Ryan St SS, DIC, Retire Substation	2021	2021	4	T-D Interconnection		Planned	A in MTEP18	14908	\$ 475,000.00	In-Service
Bayport - Pioneer 138kV, rebuild as a double-circuit	2022	2022	4	Condition and Performance		Planned	A in MTEP18	14706	\$ 47,416,000.00	
Edgewater SS, Bus Reconfiguration	2022	2022	4	Condition and Performance		Planned	A in MTEP18	13756	\$ 9,800,000.00	
Erdman SS, Transformer and Breaker Asset Renewal	2022	2022	4	Condition and Performance		Planned	A in MTEP19	15931	\$ 1,751,729.00	Updated Cost Estimate
Finger Rd - Danz 69kV (L-64), Rebuild	2022	2022	4	Condition and Performance		Planned	A in MTEP18	12141	\$ 6,000,000.00	
Hwy V - Finger Rd 69kV (U-47), Rebuild	2022	2021	4	Condition and Performance		Planned	A in MTEP18	12140	\$ 2,200,000.00	
New Holstein - Custer 69kV (P-68), Rebuild	2022	2022	4	Condition and Performance		Planned	A in MTEP18	7584	\$ 32,800,000.00	
Pioneer - Crivitz 138kV (E-83/B-2), retire 69kV and reconfigure load to 138kV	2022	2022	4	Condition and Performance		Planned	A in MTEP18	14926	\$ 20,400,000.00	
Pulliam SS, Transformer Retirement and Bus Reconfiguration	2022	2023	4	Condition and Performance	prior + P1.2	Planned	A in MTEP20	15930	\$ 4,000,000.00	
Wesmark SS, Relay and Breakers	2022	2024	4	Condition and Performance		Planned	A in MTEP18	13747	\$ 811,572.00	
Riverside SS, Bus Uprate	2022	2022	4	Reliability	prior + P1	Planned	A in MTEP18	13832	\$ 110,000.00	Updated Cost Estimate
Bayridge SS, new T-D Interconnection	2022	2022	4	T-D Interconnection		Planned	A in MTEP16	10485	\$ 2,122,335.00	
Henry St. SS, DIC, Retire Substation	2022	2024	4	T-D Interconnection		Planned	A in MTEP20	14907	\$ 96,000.00	
Preble SS, DIC, add 4th transformer and substation rebuild	2022	2022	4	T-D Interconnection		Planned	A in MTEP20	17628	\$ 3,498,694.00	
Stiles SS - West Marinette SS (M117/L142), OPGW Installation	2023	2023	4	Communication		Planned	A in MTEP19	15936	\$ 5,600,000.00	
Danz Ave SW STA - University (WPS) 69kV (O-15), underground rebuild & OPGW	2023	2023	4	Condition and Performance		Planned	A in MTEP19	15924	\$ 14,800,000.00	
Finger Road SW STA - Wesmark 69kV (FIRY11), Rebuild	2023	2023	4	Condition and Performance		Planned	A in MTEP18	12134	\$ 14,400,000.00	
Glenview SS, Transformer Retirement and Breaker & Relay Asset Renewal	2023	2023	4	Condition and Performance		Planned	A in MTEP20	18019	\$ 2,200,000.00	
Lost Dauphin - Red Maple 138kV (Q-147), uprate	2023	2023	4	Reliability	P6	Planned	A in MTEP21	14964	\$ 635,000.00	
Sheboygan County SS, DIC, substation rebuild	2023	2023	4	T-D Interconnection		Planned	A in MTEP20	18051	\$ 6,200,000.00	
Crivitz SS - Transformer Replacement and Asset Renewal	2024	2024	4	Condition and Performance		Planned	A in MTEP21	19705	\$ 4,599,154.00	Updated Cost Estimate
North Appleton SS - Transformer Replacement and Asset Renewal	2024	2024	4	Condition and Performance		Planned	A in MTEP21	19706	\$ 7,938,249.00	Updated Cost Estimate
Wesmark - Rapids 69kV (R-44), Rebuild	2024	2024	4	Condition and Performance		Planned	A in MTEP18	12135	\$ 21,500,000.00	
Eaton SS, new T-D Interconnection	2024	2024	4	T-D Interconnection		Planned	A in MTEP16	10484	\$ 2,500,000.00	
Edgewater SS, DIC, replace transformer and substation rebuild	2024	2025	4	T-D Interconnection		Planned	A in MTEP18	15126	\$ 5,100,000.00	
Oak St - Hwy V 69kV (Z-26), Rebuild	2025	2025	4	Condition and Performance		Planned	A in MTEP18	12137	\$ 9,000,000.00	
Edgewater - Lodestar 138kV (X-48Y-31), Underground cable rebuild	2023	2023	4	Condition and Performance		Planned	A in MTEP19	15925	\$ 3,800,000.00	Proposed to Planned / Updated Cost
East Krok - Beardsley, (EAKY11), 69kV, uprate	2023	2023	4	Reliability	P2.4, P6	Proposed	A in MTEP21	14964	\$ 2,300,000.00	
Howards Grove - Erdman 138kV, new line	2023	2022	4	Reliability	P6, P7.1	Proposed	A in MTEP20	18568	\$ 25,606,000.00	Updated ISY / Updated Cost Estimate
12th Avenue SS, DIC, Transformer Replacement	2023	2023	4	T-D Interconnection		Planned	A in MTEP20	14907	\$ 1,778,000.00	Proposed to Planned
Wells St. DIC - new West Marinette-Wells St. 69 kV line	2023	2023	4	T-D Interconnection		Proposed	A in MTEP21	19961	\$ 16,100,000.00	
Highway V - Preble 138 kV (X-154), reconductor	2023	2023	4	Reliability	P6 & P7	Proposed	A in MTEP21	20785	\$ 1,777,603.00	
Sunset Point - Bowen Street (E-5), 69kV, Uprate	2023	2023	4	Reliability		Proposed	A in MTEP21	14964	\$ 699,055.00	
Bain SS, Control House and Breaker Asset Renewal	2021	2021	5	Condition and Performance		Planned	A in MTEP19	15932	\$ 6,400,000.00	
Burlington SS, Install 138kV Breakers	2021	2021	5	Condition and Performance		Planned	A in MTEP17	12058	\$ 3,372,743.00	Updated Cost Estimate
Port Washington - Saukville 138kV (762), Rebuild to a double circuit	2021	2021	5	Reliability	P2.4, P7.1	Planned	A in MTEP16	9986	\$ 21,000,000.00	
River Bend SS, Add 2nd Transformer	2021	2021	5	T-D Interconnection		Planned	A in MTEP19	14906	\$ 733,000.00	In-Service
Tamarack SS, DIC, Replace Transformer	2021	2021	5	T-D Interconnection		Planned	A in MTEP19	14906	\$ 2,000,000.00	
Barton - Auburn 138kV (9752), Partial Rebuild	2022	2022	5	Condition and Performance		Planned	A in MTEP18	13743	\$ 7,050,000.00	
Range Line SW STA, Control House Replacement and Asset Renewal	2022	2022	5	Condition and Performance		Planned	A in MTEP19	15928	\$ 9,400,000.00	
St. Lawrence - Barton 138kV (8032), Partial Rebuild	2022	2022	5	Condition and Performance		Planned	A in MTEP18	13735	\$ 8,400,000.00	
Summit - Cooney 138kV (6431), Rebuild	2022	2023	5	Condition and Performance		Planned	A in MTEP19	15457	\$ 4,100,000.00	

ATC 2020 10-Year Assessment Project List  
Q2 Project Updates as of July 15, 2021

Project Name	2020 Est. In-Service Year	2021 Est. In-Service Year	ZONE	Need Category	Planning Event	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
Berryville SS Grounding System Upgrades	2022		5	G-T Interconnection		Planned	<b>A in MTEP20</b>	18985	\$ 328,807.00	
J850/J878 East Paris SS, new 345/138kV transformer	2022		5	G-T Interconnection		Planned	<b>A in MTEP20</b>	18985	\$ 24,972,611.00	
J878 Paris SS Generator Interconnection Facilities and Network Upgrades	2022		5	G-T Interconnection		Planned	<b>A in MTEP20</b>	19265	\$ 1,973,438.00	
Paris SS Grounding System Upgrades	2022		5	G-T Interconnection		Planned	<b>A in MTEP20</b>	19265	\$ 380,402.00	
Germantown SS DIC, Install additional transformer	2022		5	T-D Interconnection		Planned	<b>A in MTEP20</b>	14907	\$ 6,000,000.00	
Sussex to Bark River (46143/2661), 138kV, OPGW Installation	2023		5	Communication		Planned	<b>A in MTEP21</b>	19959	\$ 3,766,000.00	Proposed to Planned / Updated Cost
Kenosha SS, Breaker, Relay, RTU and Disconnect Asset Renewal	2023		5	Condition and Performance		Planned	<b>A in MTEP19</b>	14909	\$ 1,878,000.00	
Arcadian SS, Power Transformer and Control House Replacement and Asset Renewal	2023		5	Condition and Performance / Reliability	stability E2.D	Planned	<b>A in MTEP20</b>	16486	\$ 40,000,000.00	
Granville SS, Control House and Relay Replacement and Asset Renewal	2024		5	Condition and Performance / Reliability	stability E2.D	Proposed	<b>A in MTEP21</b>	16490	\$ 28,950,000.00	
Lincoln - 43rd Street Terminal 138 kV (5053), Replace with double circuit duct bank and XLPE cab	2024		5	Condition and Performance		Provisional	<b>A in MTEP21</b>	18048	\$ 35,800,000.00	Updated Cost Estimate
Communication Reliability Upgrades Current Cycle	2021	2020	various	Communication		Planned	<b>A in MTEP18</b>	13823	\$ 14,871,090.00	In-Service
Small Capital Project and Asset Renewal Current Cycle	2021	2022	various	Condition and Performance		Planned	<b>A in MTEP18</b>	13821	\$ 38,457,451.00	Updated ISY
Line Clearance Mitigation Project Current Cycle	2021	2021	various	Line Clearance		Planned	<b>A in MTEP18</b>	13824	\$ 19,570,719.00	In-Service
Physical Security Current Cycle	2021	2024	various	Physical Security		Planned	<b>A in MTEP18</b>	13826	\$ 67,198,396.00	Updated ISY
Distribution Interconnection Current Cycle	2021	2024	various	T-D Interconnection		Planned	<b>A in MTEP18</b>	14904	\$ 6,436,258.00	Updated ISY
Communication Reliability Upgrades 2019	2022		various	Communication		Planned	<b>A in MTEP18</b>	13829	\$ 1,422,500.00	
Small Capital Project and Asset Renewal 2019	2022		various	Condition and Performance		Planned	<b>A in MTEP18</b>	13822	\$ 8,007,814.00	
Line Clearance Mitigation Project 2019	2022		various	Line Clearance		Planned	<b>A in MTEP18</b>	13825	\$ 5,832,204.00	
Physical Security 2019	2022		various	Physical Security		Planned	<b>A in MTEP18</b>	13828	\$ 3,000,000.00	
Distribution Interconnection 2019	2022		various	T-D Interconnection		Planned	<b>A in MTEP18</b>	14905	\$ 10,570,000.00	
Communication Reliability Upgrades 2020	2023		various	Communication		Planned	<b>A in MTEP19</b>	14910	\$ 11,344,615.00	
Small Capital Project and Asset Renewal 2020	2023		various	Condition and Performance		Planned	<b>A in MTEP19</b>	14908	\$ 35,906,079.00	
Line Clearance Mitigation Project 2020	2023		various	Line Clearance		Planned	<b>A in MTEP19</b>	14912	\$ 12,062,247.00	
Physical Security 2020	2023		various	Physical Security		Planned	<b>A in MTEP19</b>	14914	\$ 21,603,965.00	
Load Interconnection 2020	2023		various	T-D Interconnection		Planned	<b>A in MTEP19</b>	14906	\$ 26,774,954.00	
Communication Reliability Program 2021	2024		various	Communication		Planned	<b>A in MTEP20</b>	14911	\$ 10,927,208.00	
Small Capital Project and Asset Renewal Program 2021	2024		various	Condition and Performance		Planned	<b>A in MTEP20</b>	14909	\$ 38,913,412.00	
Line Clearance Mitigation Program 2021	2024		various	Line Clearance		Planned	<b>A in MTEP20</b>	14913	\$ 3,791,502.00	
Physical Security Program 2021	2024		various	Physical Security		Planned	<b>A in MTEP20</b>	14915	\$ 17,908,909.00	
Load Interconnection Program 2021	2024		various	T-D Interconnection		Planned	<b>A in MTEP20</b>	14907	\$ 20,124,594.00	
Communication Reliability Program 2022	2025		various	Communication		Proposed	<b>A in MTEP21</b>	14965	\$ 19,000,000.00	Updated Cost Estimate
Small Capital Project and Asset Renewal Program 2022	2025		various	Condition and Performance		Proposed	<b>A in MTEP21</b>	14964	\$ 49,000,000.00	Updated Cost Estimate
Line Clearance Mitigation Program 2022	2025		various	Line Clearance		Proposed	<b>A in MTEP21</b>	14966	\$ 7,500,000.00	
Physical Security Program 2022	2025		various	Physical Security		Proposed	<b>A in MTEP21</b>	14967	\$ 13,600,000.00	Updated Cost Estimate
Load Interconnection Program 2022	2025		various	T-D Interconnection		Proposed	<b>A in MTEP21</b>	14968	\$ 26,400,000.00	Updated Cost Estimate

**LEGEND**

- No Shading = No change to project since previous Assessment
- Green Shading = Project In-Service (Interim Updates Only)
- 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      GIC - Generator Interconnection
- GIA - Generator Interconnection Agreement      MPFCA - Multi-Party Facility Agreement

MISO MTEP Appendix - Indicates MTEP Cycle, Cycles MTEP20 and prior are Certified in MISOs' Regional Plan for A projects (**BOLDED**), MTEP21 and future cycles are not yet certified at the time of publication (1/2021).