

Project Name	2020 Estimated In-Service Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
Forest Junction SS, Relieve Market Congestion	2020	4	Economic	Planned	A in MTEP18	16164	\$ 2,000,000.00
Edgewater - Erdmann 69kV (Y-31), rerate	2020	4	Reliability	Planned	A in MTEP18	13824	\$ 2,350,000.00
Pulliam SS, Install redundant bus differential	2020	4	Reliability	Planned	A in MTEP18	13727	\$ 1,900,000.00
30th Avenue SS, DIC, replace transformer	2020	4	T-D Interconnection	Planned	A in MTEP18	14905	\$ 2,200,000.00
Kaukauna Utilities Combine Locks SS, DIC, replace transformer	2020	4	T-D Interconnection	Planned	A in MTEP18	14905	\$ 232,000.00
Ogden St SS, Network Project: Ogden St - Bayshore 69kV Line Construction	2020	4	T-D Interconnection	Planned	A in MTEP15	4732	\$ 17,100,000.00
Butte Des Morts - Sunset Point 138kV, Rebuild	2021	4	Condition and Performance	Planned	A in MTEP17	12185	\$ 20,600,000.00
Cloverleaf SS, Replace Dead End and Switches	2021	4	Condition and Performance	Planned	A in MTEP18	13728	\$ 1,062,784.00
Kewaunee SS, Retire Transformer	2021	4	Condition and Performance	Planned	A in MTEP20	14909	\$ 866,000.00
Menominee SS, DIC, Retire Transformer	2021	4	Condition and Performance	Planned	A in MTEP20	14909	\$ 417,000.00
Redwood - First Ave 69kV (T-46), Replace the submarine cable	2021	4	Condition and Performance	Planned	A in MTEP18	8444	\$ 12,500,000.00
Shoto SS, Transformer (T1) and Breaker Asset Renewal	2021	4	Condition and Performance	Planned	A in MTEP18	14988	\$ 5,700,000.00
J505 GIC Apollo SS, Generator Interconnection and Network Facilities	2021	4	G-T Interconnection	Planned	A in MTEP18	14925	\$ 8,300,000.00
20th Street SS, Install two 138kV 8.16 MVAR Capacitor Banks	2021	4	Reliability	Planned	A in MTEP19	14908	\$ 2,500,000.00
Huebner SS, Install two 138kV 8.16 MVAR Capacitor Banks	2021	4	Reliability	Planned	A in MTEP19	14908	\$ 2,400,000.00
Ryan St SS, DIC, Retire Substation	2021	4	T-D Interconnection	Planned	A in MTEP18	14904	\$ 476,000.00
Bayport - Pioneer 138kV, rebuild as a double-circuit	2022	4	Condition and Performance	Planned	A in MTEP18	14706	\$ 47,400,000.00
Edgewater SS, Bus Reconfiguration	2022	4	Condition and Performance	Planned	A in MTEP18	13756	\$ 9,800,000.00
Erdman SS, Transformer and Breaker Asset Renewal	2022	4	Condition and Performance	Planned	A in MTEP19	15931	\$ 7,000,000.00
Finger Rd - Danz 69kV (L-64), Rebuild	2022	4	Condition and Performance	Planned	A in MTEP18	12141	\$ 4,230,000.00
Hwy V - Finger Rd 69kV (U-47), Rebuild	2022	4	Condition and Performance	Planned	A in MTEP18	12140	\$ 1,520,000.00
New Holstein - Custer 69kV (P-68), Rebuild	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	4	Condition and Performance	Planned	A in MTEP18	14926	\$ 20,400,000.00
Pulliam SS, Transformer Retirement and Bus Reconfiguration	2022	4	Condition and Performance	Planned	A in MTEP20	15930	\$ 4,000,000.00
Wesmark SS, Relay and Breakers	2022	4	Condition and Performance	Planned	A in MTEP18	13747	\$ 811,572.00
Riverside SS, Bus Uprate	2022	4	Reliability	Planned	A in MTEP18	13832	\$ 80,000.00
Bayridge SS, new T-D Interconnection	2022	4	T-D Interconnection	Planned	A in MTEP16	10485	\$ 2,122,335.00
Construct T-D Roosevelt Road Substation	2022	4	T-D Interconnection	Planned	A in MTEP16	10686	\$ 1,102,365.00
Henry St. SS, DIC, Retire Substation	2022	4	T-D Interconnection	Planned	A in MTEP20	14907	\$ 96,000.00
Preble SS, DIC, add 4th transformer and substation rebuild	2022	4	T-D Interconnection	Planned	A in MTEP20	17628	\$ 3,498,694.00
Stiles SS - West Marinette SS (M117/L142), OPGW Installation	2023	4	Communication	Planned	A in MTEP19	15936	\$ 5,600,000.00
Finger Road SW STA - Wesmark 69kV (FIRY11), Rebuild	2023	4	Condition and Performance	Planned	A in MTEP18	12134	\$ 14,400,000.00
Glenview SS, Transformer Retirement and Breaker & Relay Asset Renewal	2023	4	Condition and Performance	Planned	A in MTEP20	18019	\$ 2,200,000.00
Lost Dauphin - Red Maple 138kV (Q-147), uprate	2023	4	Reliability	Planned	A in MTEP21	14964	\$ 635,000.00
Sheboygan County SS, DIC, substation rebuild	2023	4	T-D Interconnection	Planned	A in MTEP20	18051	\$ 8,000,000.00
Crivitz SS - Transformer Replacement and Asset Renewal	2024	4	Condition and Performance	Planned	A in MTEP21	19705	\$ 4,344,701.00
North Appleton SS - Transformer Replacement and Asset Renewal	2024	4	Condition and Performance	Planned	A in MTEP21	19706	\$ 7,811,645.00
Wesmark - Rapids 69kV (R-44), Rebuild	2024	4	Condition and Performance	Planned	A in MTEP18	12135	\$ 21,500,000.00
Eaton SS, new T-D Interconnection	2024	4	T-D Interconnection	Planned	A in MTEP16	10484	\$ 2,500,000.00
Edgewater SS, DIC, replace transformer and substation rebuild	2024	4	T-D Interconnection	Planned	A in MTEP18	15126	\$ 5,100,000.00
Oak St - Hwy V 69kV (Z-26), Rebuild	2025	4	Condition and Performance	Planned	A in MTEP18	12137	\$ 9,000,000.00
Danz Ave SW STA - University (WPS) 69kV (O-15), underground rebuild & OPGW	2023	4	Condition and Performance	Proposed	A in MTEP19	15924	\$ 14,800,000.00
Edgewater - Lodestar 138kV (X-48/Y-31), Underground cable rebuild	2023	4	Condition and Performance	Proposed	A in MTEP19	15925	\$ 11,400,000.00
East Krok - Beardsley, (EAKY11), 69kV, uprate	2023	4	Reliability	Proposed	A in MTEP21	14964	\$ 2,300,000.00
Howards Grove - Erdman 138kV, new line	2023	4	Reliability	Proposed	A in MTEP20	18568	\$ 25,000,000.00
12th Avenue SS, DIC, Transformer Replacement	2023	4	T-D Interconnection	Proposed	A in MTEP20	14907	\$ 1,778,000.00
Wells St. DIC - new West Marinette-Wells St. 69 kV line	2023	4	T-D Interconnection	Provisional	A in MTEP21	19961	\$ 14,500,000.00

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 MTEP19 and prior are Certified in MISOs' Regional Plan for A projects (**BOLDED**), MTEP20 and future cycles are not yet certified at the time of publication (9/2020).