

Project Name	2020 Estimated In-Service Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
Hilltop SS, Install 69kV Breakers	2020	1	Condition and Performance	Planned	A in MTEP17	12031	\$ 1,000,000.00
Harrison North SS, Breaker Addition	2021	1	Condition and Performance	Planned	A in MTEP18	13821	\$2,000,000.00
Harrison SS, Install 69kV Breakers	2021	1	Condition and Performance	Planned	A in MTEP17	12051	\$ 2,700,000.00
Whitcomb SS, Transformer (T31) 69kV Breaker Asset Renewals	2021	1	Condition and Performance	Planned	A in MTEP18	14987	\$ 5,469,503.00
Winneconne SS, Relay and Breaker Replacement	2023	1	Condition and Performance	Planned	A in MTEP18	13243	\$ 2,150,000.00
Saratoga SS - Control House and Breaker Asset Renewal	2024	1	Condition and Performance	Proposed	B in MTEP21	19525	\$6,319,095.00
Mackinac HVDC, System Control and Monitoring (SCM) Asset Renewal	2022	2	Condition and Performance	Planned	A in MTEP20	18020	\$ 4,000,000.00
Atlantic SS, 138/69kV Bus Reconfiguration and Transformer Addition	2022	2	Operational Flexibility and Condition and Performance	Planned	A in MTEP19	7586	\$ 11,600,000.00
Tilden SS, Control House Replacement and Breaker & Relay Asset Renewal	2023	2	Condition and Performance	Planned	A in MTEP20	16488	\$ 5,880,000.00
Dead River SS - Control House and Breaker Replacement Asset Renewal	2024	2	Condition and Performance	Planned	A in MTEP21	19346	\$4,847,000.00
Empire SS, Control House Replacement and Breaker & Relay Asset Renewal	2024	2	Condition and Performance	Provisional	A in MTEP21	16489	\$ 6,732,000.00
Huiskamp SS, Relay and Breaker Replacement	2020	3	Condition and Performance	Planned	A in MTEP18	13717	\$ 506,490.00
Sycamore SS, Install 69kV Breakers	2020	3	Condition and Performance	Planned	A in MTEP17	12183	\$ 2,755,829.00
Columbia SS, Breaker Replacement Asset Renewal	2021	3	Condition and Performance	Planned	A in MTEP18	13821	\$ 1,778,000.00
Hillside SS, Relay and Breaker Replacements	2021	3	Condition and Performance	Planned	A in MTEP18	13802	\$ 1,600,000.00
McCue SS, Circuit Breaker Asset Renewal	2022	3	Condition and Performance	Planned	A in MTEP19	14908	\$ 1,775,000.00
Colley Road SS, Transformer Replacement and Asset Renewal	2023	3	Condition and Performance	Planned	A in MTEP20	17585	\$ 3,150,000.00
Nelson Dewey SS - Control House, Relay Asset Renewal	2024	3	Condition and Performance	Planned	A in MTEP21	19105	\$ 6,170,000.00
Pflaum SS, Asset Renewal	2025	3	Condition and Performance	Planned	A in MTEP18	13768	\$ 2,075,688.00
Kirkwood SS, Control House, Transformer and Breaker Asset Renewal	2024	3	Condition and Performance	Provisional	A in MTEP21	19963	\$ 7,571,000.00
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
Shoto SS, Transformer (T1) and Breaker Asset Renewal	2021	4	Condition and Performance	Planned	A in MTEP18	14988	\$ 5,700,000.00
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
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
Glenview SS, Transformer Retirement and Breaker & Relay Asset Renewal	2023	4	Condition and Performance	Planned	A in MTEP20	18019	\$ 2,200,000.00
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
Pennsylvania SS, Relay, Breaker and Disconnect Switch Asset Renewal	2020	5	Condition and Performance	Planned	A in MTEP18	13821	\$ 1,115,352.00
Bain SS, Control House and Breaker Asset Renewal	2021	5	Condition and Performance	Planned	A in MTEP19	15932	\$ 8,500,000.00
Burlington SS, Install 138kV Breakers	2021	5	Condition and Performance	Planned	A in MTEP17	12058	\$ 2,000,000.00
Kenosha SS, Breaker, Relay, RTU and Disconnect Asset Renewal	2023	5	Condition and Performance	Planned	A in MTEP20	14909	\$ 1,878,000.00
Arcadian SS, Power Transformer and Control House Replacement and Asset Renewal	2023	5	Condition and Performance / Reliability	Planned	A in MTEP20	16486	\$ 40,000,000.00
Granville SS, Control House and Relay Replacement and Asset Renewal	2024	5	Condition and Performance / Reliability	Proposed	A in MTEP21	16490	\$ 28,949,044.00

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).