

ATC 2019 10-Year Assessment Project List  
AR-3 Substation and Other Work

	A	B	C	D	E	F	G	H
1	Project Name	Estimated In-Service Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
2	Hilltop SS, Install 69kV Breakers	2020	1	Condition and Performance	Planned	<b>A in MTEP17</b>	12031	\$ 1,000,000.00
3	Caroline SS, Transformer (T31) 69kV Breaker and Relay Asset Renewals	2021	1	Condition and Performance	Planned	<b>A in MTEP18</b>	14986	\$ 4,488,625.00
4	Rocky Run - Whitting Ave (M-91), Add OPGW	2021	1	Communication	Planned	A in MTEP19	14910	\$ 921,000.00
5	Whitcomb SS, Transformer (T31) 69kV Breaker Asset Renewals	2021	1	Condition and Performance	Planned	<b>A in MTEP18</b>	14987	\$ 5,469,503.00
6	Venus SS, Install 115kV Breakers	2020	1	Condition and Performance	Proposed	<b>A in MTEP17</b>	12466	\$ 900,000.00
7	Harrison SS, Install 69kV Breakers	2021	1	Condition and Performance	Proposed	<b>A in MTEP17</b>	12051	\$ 760,508.00
8	Winneconnie SS, Relay and Breaker Replacement	2021	1	Condition and Performance	Proposed	<b>A in MTEP18</b>	13243	\$ 2,800,000.00
9	Coyne - Plover (N-92/J-114), OPGW Installation	2022	1	Communication	Provisional	--	--	\$ 2,200,000.00
10	Wautoma SS - Port Edwards OPGW, Installation	2023	1	Communication	Proposed	A in MTEP19	15935	\$ 7,300,000.00
11	Nine Mile SS, Install MODs for Sectionalizing	2019	2	Condition and Performance	Planned	<b>A in MTEP18</b>	13788	\$ 3,443,060.00
12	Mackinac HVDC, System Control and Monitoring (SCM) Asset Renewal	2022	2	Condition and Performance	Planned	A in MTEP20	18020	\$ 4,000,000.00
13	Straits SS, Replace 3 138kV Breakers	2022	2	Condition and Performance	Planned	<b>A in MTEP18</b>	13758	\$ 2,000,000.00
14	Straits, Crossing Fiber Optic Communications	2022	2	Communication	Planned	A in MTEP19	14910	\$ 2,000,000.00
15	Nordic SS, Install 138kV Breakers	2019	2	Condition and Performance	Proposed	<b>A in MTEP17</b>	12062	\$ 5,500,000.00
16	Empire SS, Control House Replacement and Breaker & Relay Asset Renewal	2025	2	Condition and Performance	Provisional	B in MTEP19	16489	\$ 6,732,000.00
17	Mass - Conover 69kV (6530), Replace select poles, reinsulate	2025	2	Condition and Performance	Provisional	B in MTEP19	16495	\$ 8,560,000.00
18	Tilden SS, Control House Replacement and Breaker & Relay Asset Renewal	2025	2	Condition and Performance	Provisional	B in MTEP19	16488	\$ 5,484,000.00
19	Kilbourn SS, Bus Reconfiguration and Relay Replacement	2019	3	Condition and Performance	Planned	<b>A in MTEP18</b>	13789	\$ 6,900,000.00
20	Nelson Dewey SS, Transformer Addition and Asset Renewal	2019	3	Condition and Performance	Planned	<b>A in MTEP16</b>	9961	\$ 5,375,625.00
21	Husikamp SS, Relay and Breaker Replacement	2020	3	Condition and Performance	Planned	<b>A in MTEP18</b>	13717	\$ 506,490.00
22	Waupun SS, Rebuild Substation	2020	3	Condition and Performance	Planned	<b>A in MTEP17</b>	12100	\$ 4,200,000.00
23	West Towne SS, Relay Replacements	2020	3	Condition and Performance	Planned	<b>A in MTEP18</b>	13749	\$ 3,185,723.00
24	Hillside SS, Relay and Breaker Replacements	2021	3	Condition and Performance	Planned	<b>A in MTEP18</b>	13802	\$ 670,000.00
25	Pflaum SS, Replace Failed 69kV Underground Cable	2025	3	Condition and Performance	Planned	<b>A in MTEP18</b>	13768	\$ 2,075,688.00
26	Mount Horeb SS, Install 69kV Breakers	2020	3	Condition and Performance	Proposed	<b>A in MTEP17</b>	12903	\$ 4,300,000.00
27	Sycamore SS, Install 69kV Breakers	2020	3	Condition and Performance	Proposed	<b>A in MTEP17</b>	12183	\$ 2,755,829.00
28	Colley Road SS, Transformer Replacement and Asset Renewal	2023	3	Condition and Performance	Proposed	A in MTEP20	17585	\$ 3,150,000.00
29	Cloverleaf SS, Replace Dead End and Switches	2021	4	Condition and Performance	Planned	<b>A in MTEP18</b>	13728	\$ 1,062,784.00
30	Erdman SS, Transformer and Breaker Asset Renewal	2021	4	Condition and Performance	Planned	A in MTEP19	15931	\$ 7,000,000.00
31	Maes - Lake Park (20341), Add OPGW	2021	4	Communication	Planned	A in MTEP19	14910	\$ 1,200,000.00
32	Shoto SS, Transformer (T1) and Breaker Asset Renewal	2021	4	Condition and Performance	Planned	<b>A in MTEP18</b>	14988	\$ 5,700,000.00
33	East Krok SS - Kewaunee SS (F-84), OPGW Installation	2022	4	Communication	Planned	A in MTEP20	14911	\$ 1,560,000.00
34	Edgewater SS, Bus Reconfiguration	2022	4	Condition and Performance	Planned	<b>A in MTEP18</b>	13756	\$ 9,800,000.00
35	Wesmark SS, Relay and Breakers	2022	4	Condition and Performance	Planned	<b>A in MTEP18</b>	13747	\$ 811,572.00
36	Glenview SS, Transformer Retirement and Breaker & Relay Asset Renewal	2023	4	Condition and Performance	Planned	A in MTEP20	18019	\$ 4,799,000.00
37	Morgan SS, Breaker Asset Renewal and Facility Upgrades	2023	4	Condition and Performance	Planned	A in MTEP20	16606	\$ 5,000,000.00
38	Stiles SS - West Marinette SS (M117/L142), OPGW Installation	2023	4	Communication	Planned	A in MTEP19	15936	\$ 5,275,932.00

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39	New Holstein SS, Install 69kV Breaker	2019	4	Condition and Performance	Proposed	<b>A in MTEP18</b>	13791	\$ 537,221.00
40	Manrap SS, Install 69kV Breakers	2020	4	Condition and Performance	Proposed	<b>A in MTEP17</b>	12184	\$ 1,336,964.00
41	Pulliam SS, Transformer Retirement and Bus Reconfiguration	2022	4	Condition and Performance	Proposed	A in MTEP20	15930	\$ 3,260,000.00
42	East Krok SS, Replace T1 Transformer	2025	4	Condition and Performance	Provisional	--	--	< \$10,000,000
43	St Lawrence SS, Breaker replacement and asset renewal	2019	5	Condition and Performance	Planned	<b>A in MTEP18</b>	13746	\$ 253,393.00
44	Waukesha SS, Relay and Breaker Replacements	2019	5	Condition and Performance	Planned	<b>A in MTEP18</b>	13742	\$ 836,447.00
45	Bain SS, Control House and Breaker Asset Renewal	2021	5	Condition and Performance	Planned	A in MTEP19	15932	\$ 8,500,000.00
46	Range Line SW STA, Control House Replacement and Asset Renewal	2022	5	Condition and Performance	Planned	A in MTEP19	15928	\$ 7,100,000.00
47	Burlington SS, Install 138kV Breakers	2021	5	Condition and Performance	Proposed	<b>A in MTEP17</b>	12058	\$ 1,400,000.00
48	Arcadian SS, Power Transformer and Control House Replacement and Asset Renewal	2023	5	Condition and Performance	Proposed	A in MTEP20	16486	\$ 45,000,000.00
49	Granville SS, Control House and Relay Replacement and Asset Renewal	2024	5	Condition and Performance	Provisional	B in MTEP19	16490	\$ 24,000,000.00
50	Substation Router Replacement Program 2020	2020	various	Communication	Planned	A in MTEP19	14910	\$ 4,223,665.00
51	Communication Reliability Upgrades Current Cycle	2021	various	Communication	Planned	<b>A in MTEP18</b>	13823	\$ 34,461,836.00
52	Physical Security Current Cycle	2021	various	Physical Security	Planned	<b>A in MTEP18</b>	13826	\$ 67,198,396.00
53	Small Capital Project and Asset Renewal Current Cycle	2021	various	Condition and Performance	Planned	<b>A in MTEP18</b>	13821	\$ 38,457,451.00
54	Communication Reliability Upgrades 2019	2022	various	Communication	Planned	<b>A in MTEP18</b>	13829	\$ 1,422,500.00
55	Physical Security 2019	2022	various	Physical Security	Planned	<b>A in MTEP18</b>	13828	\$ 3,000,000.00
56	Small Capital Project and Asset Renewal 2019	2022	various	Condition and Performance	Planned	<b>A in MTEP18</b>	13822	\$ 8,007,814.00
57	Communication Reliability Upgrades 2020	2023	various	Communication	Planned	A in MTEP19	14910	\$ 11,344,615.00
58	Physical Security 2020	2023	various	Physical Security	Planned	A in MTEP19	14914	\$ 21,603,965.00
59	Small Capital Project and Asset Renewal 2020	2023	various	Condition and Performance	Planned	A in MTEP19	14908	\$ 35,906,079.00
60	Communication Reliability Upgrades 2021	2024	various	Communication	Proposed	B in MTEP18	14911	\$ 15,390,000.00
61	Physical Security 2021	2024	various	Physical Security	Proposed	B in MTEP18	14915	\$ 14,299,341.00
62	Small Capital Project and Asset Renewal 2021	2024	various	Condition and Performance	Proposed	B in MTEP18	14909	\$ 31,828,256.00
63	Communication Reliability Upgrades 2022	2025	various	Communication	Proposed	B in MTEP18	14965	\$ 8,851,667.00
64	Physical Security 2022	2025	various	Physical Security	Proposed	B in MTEP18	14967	\$ 9,165,536.00
65	Small Capital Project and Asset Renewal 2022	2025	various	Condition and Performance	Proposed	B in MTEP18	14964	\$ 30,489,835.00
66	Substation Router Replacement Program 2021	2021	various	Communication	Provisional	B in MTEP18	14911	\$ 10,000,000.00
67	Substation Router Replacement Program 2022	2022	various	Communication	Provisional	B in MTEP18	14965	\$ 10,000,000.00
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69	<b>Legend</b>							
70	MISO MTEP Appendix - Indicates MTEP Cycle. Cycles MTEP18 and prior are Certified in MISOs' Regional Plan for A projects ( <b>BOLDED</b> ), MTEP19 and future cycles are not yet certified at the time of publication (10/2019).							
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