

	A	B	C	D	E	F	G	H	I	J
1	Project Name	2019 TYA Model Need Year	Estimated In-Service Year	ZONE	Need Category	Planning Event	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
2	Hancock SS, Replace Transformers	2019	2019	1	T-D Interconnection		Planned	<b>A in MTEP18</b>	13774	\$ 4,700,000.00
3	Stratford SS, DIC add 2nd transformer and substation rebuild	2019	2019	1	T-D Interconnection		Planned	<b>A in MTEP18</b>	15044	\$ 3,700,000.00
4	Big Pond SS, Retire Substation	2020	2020	1	Retirement		Planned	<b>A in MTEP18</b>	13831	\$ 500,000.00
5	Hilltop SS, Install 69kV Breakers		2020	1	Condition and Performance		Planned	<b>A in MTEP17</b>	12031	\$ 1,000,000.00
6	Venus SS, Capacitor Bank Retirement	2020	2020	1	Retirement		Planned	<b>A in MTEP18</b>	14806	\$ 100,000.00
7	Wautoma - Wild Rose 69kV (Y-180), Partial Rebuild		2020	1	Condition and Performance		Planned	<b>A in MTEP18</b>	13770	\$ 5,500,000.00
8	Wild Rose - Harrison 69kV (Y-19), Partial Rebuild		2020	1	Condition and Performance		Planned	<b>A in MTEP18</b>	12147	\$ 14,400,000.00
9	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
10	Rocky Run - Whitting Ave (M-91), Add OPGW		2021	1	Communication		Planned	A in MTEP19	14910	\$ 921,000.00
11	Saratoga - Coyne 115kV (T-72), Rebuild		2021	1	Condition and Performance		Planned	<b>A in MTEP17</b>	12178	\$ 6,800,000.00
12	Whitcomb SS, Transformer (T31) 69kV Breaker Asset Renewals		2021	1	Condition and Performance		Planned	<b>A in MTEP18</b>	14987	\$ 5,469,503.00
13	Chaffee Creek SS - Lincoln Pump Station 69kV (Y-18), Rebuild		2023	1	Condition and Performance		Planned	<b>A in MTEP18</b>	10486	\$ 9,560,000.00
14	Wautoma - Chaffee Creek 69kV (Y-49), Rebuild		2023	1	Condition and Performance		Planned	<b>A in MTEP18</b>	7764	\$ 14,500,000.00
15	McKenna - Castle Rock 69kV (Y-47), Rebuild		2025	1	Condition and Performance		Planned	<b>A in MTEP18</b>	7763	\$ 10,740,000.00
16	Homme SS, New DIC	2020	2020	1	T-D Interconnection		Proposed	<b>A in MTEP18</b>	13787	\$ 371,249.00
17	Venus SS, Install 115kV Breakers		2020	1	Condition and Performance		Proposed	<b>A in MTEP17</b>	12466	\$ 900,000.00
18	Baker St SS, Add new 115-kV bus and bus tie breaker	2020	2021	1	T-D Interconnection		Proposed	<b>A in MTEP17</b>	12115	\$ 4,400,000.00
19	Harrison SS, Install 69kV Breakers		2021	1	Condition and Performance		Proposed	<b>A in MTEP17</b>	12051	\$ 760,508.00
20	Waupaca Area Energy Storage Project	2020	2021	1	Operational Flexibility	prior + P1.2	Proposed	A in MTEP19	15947	\$ 8,071,000.00
21	Winneconnie SS, Relay and Breaker Replacement		2021	1	Condition and Performance		Proposed	<b>A in MTEP18</b>	13243	\$ 2,800,000.00
22	Petenwell - Saratoga 138kV (X-43), Line Rebuild		2022	1	Reliability, Economic		Proposed	A in MTEP20	18017	\$ 20,026,000.00
23	Birnamwood SS, DIC replace transformer and substation rebuild	2021	2023	1	T-D Interconnection		Proposed	<b>A in MTEP18</b>	15128	\$ 4,500,000.00
24	Waupaca SS, DIC, transformer addition	2021	2021	1	T-D Interconnection		Provisional	B in MTEP20	18053	\$ 6,000,000.00
25	Coyne - Plover (N-92/J-114), OPGW Installation		2022	1	Communication		Provisional	--	--	\$ 2,200,000.00
26	Wautoma SS - Port Edwards OPGW, Installation		2023	1	Communication		Proposed	A in MTEP19	15935	\$ 7,300,000.00
27	Lincoln Pump Station - McKenna 69kV (Y-145), Rebuild		2025	1	Condition and Performance		Proposed	<b>A in MTEP18</b>	7765	\$ 9,000,000.00
28	Venus SS, new inductor bank	2022	2025	1	Reliability	P0	Provisional	B in MTEP19	15945	\$ 1,800,000.00
29	M-38 SS, New 138kV Inductor Bank	2019	2019	2	Reliability	P0	Planned	<b>A in MTEP18</b>	14185	\$ 4,100,000.00
30	Nine Mile SS, Install MODs for Sectionalizing		2019	2	Condition and Performance		Planned	<b>A in MTEP18</b>	13788	\$ 3,443,060.00
31	Silver River SS, New 138kV Inductor Bank	2019	2019	2	Reliability	P0	Planned	<b>A in MTEP18</b>	14185	\$ 4,100,000.00
32	Chandler - Masonville(UPPCO) 69kV (Lakehead), Re-insulate		2020	2	Condition and Performance		Planned	A in MTEP19	14908	\$ 2,000,000.00
33	Hiawatha - Pine River 69kV (ESE_6908), Replace select poles, cross arms.		2020	2	Condition and Performance		Planned	<b>A in MTEP18</b>	13773	\$ 5,012,778.00
34	North Lake - M-38 138kV (NLKG31), Rerate		2020	2	Line Clearance		Planned	<b>A in MTEP18</b>	15284	\$ 2,500,000.00
35	Mackinac - McGulpin 138kV (9901 and 9903), submarine cable replacement		2021	2	Condition and Performance		Planned	<b>A in MTEP18</b>	15145	\$ 105,000,000.00
36	Atlantic SS, 138/69kV Bus Reconfiguration and Transformer Addition	2020	2022	2	Operational Flexibility	P5	Planned	A in MTEP19	7586	\$ 6,600,000.00
37	Mackinac HVDC, System Control and Monitoring (SCM) Asset Renewal		2022	2	Condition and Performance		Planned	A in MTEP20	18020	\$ 4,000,000.00
38	Presque Isle - Tilden 138kV, Loop and Uprate	2020	2022	2	Reliability	prior + P1.2	Planned	A in MTEP19	15345	\$ 13,100,000.00
39	Straits SS, Replace 3 138kV Breakers		2022	2	Condition and Performance		Planned	<b>A in MTEP18</b>	13758	\$ 2,000,000.00
40	Straits, Crossing Fiber Optic Communications		2022	2	Communication		Planned	A in MTEP19	14910	\$ 2,000,000.00
41	J928/J849 Indian Lake , Common Use Upgrades	2019	2019	2	G-T Interconnection		Planned	A in MTEP19	17064	\$ 200,000.00
42	Nordic SS, Install 138kV Breakers		2019	2	Condition and Performance		Proposed	<b>A in MTEP17</b>	12062	\$ 5,500,000.00
43	J928 - Garden Corners SS, GIC Network Upgrades	2019	2020	2	G-T Interconnection		Planned	A in MTEP19	16494	\$ 300,000.00
44	Central UP, new DIC	2019	2021	2	T-D Interconnection		Proposed	<b>A in MTEP18</b>	15133	\$ 6,200,000.00

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45	Eastern UP, new DIC	2021	2022	2	T-D Interconnection		Proposed	<b>A in MTEP18</b>	15130	\$ 12,600,000.00
46	J849, Chandler SS, Interconnection Facilities and Network Upgrades	2022	2022	2	G-T Interconnection		Planned	A in MTEP19	16492	\$ 3,036,785.00
47	NLKG31 Tap - Greenstone 138kV, construct new transmission line	2022	2022	2	Condition and T-D Interconnection		Proposed	A in MTEP19	15933	\$ 5,200,000.00
48	Keel Ridge SS, new DIC	2025	2024	2	T-D Interconnection		Proposed	<b>A in MTEP18</b>	13792	\$ 2,600,000.00
49	Arnold SS, 80 MVAR Inductor Bank	2022	2022	2	Reliability	P0	Provisional	B in MTEP18	14187	< 10 M
50	Chandler - Delta (UPPCO) 69kV (Delta 1), Replace select poles, re-insulate		2023	2	Condition and Performance		Provisional	--	--	\$ 1,420,000.00
51	Forsyth SS - Gwinn SS 69kV, new line		2023	2	Operational Flexibility		Provisional	B in MTEP20	18018	\$ 4,000,000.00
52	9 Mile SW STA - Portage 69kV (6901/6902), Partial Rebuild		2024	2	Condition and Performance		Provisional	B in MTEP20	18049	\$ 2,200,000.00
53	Gwinn - KI Sawyer 69kV (6910), Partial Rebuild		2024	2	Condition and Performance		Provisional	--	--	\$ 1,510,000.00
54	North Lake - Greenstone 69kV (NLKY11), Rebuild		2024	2	Condition and Performance		Provisional	--	--	\$ 14,000,000.00
55	9 Mile SW STA - Pine River 69kV (6921/23), Replace select poles , x-arms, re-insulate		2025	2	Condition and Performance		Provisional	B in MTEP19	16496	\$ 5,870,000.00
56	Blaney Park SW STA - Mich Limestone Quarry Tap 69kV (6914), Replace select poles , x-arms, re-insulate		2025	2	Condition and Performance		Provisional	--	--	\$ 1,410,000.00
57	Empire SS, Control House Replacement and Breaker & Relay Asset Renewal		2025	2	Condition and Performance		Provisional	B in MTEP19	16489	\$ 6,732,000.00
58	Mass - Conover 69kV (6530), Replace select poles, reinsulate		2025	2	Condition and Performance		Provisional	B in MTEP19	16495	\$ 8,560,000.00
59	Tilden SS, Control House Replacement and Breaker & Relay Asset Renewal		2025	2	Condition and Performance		Provisional	B in MTEP19	16488	\$ 5,484,000.00
60	Winona - Atlantic 69kV (Winona69), rebuild	2022	2025	2	Reliability	P6	Provisional	A in MTEP20	4727	\$ 30,400,000.00
61	Boscobel - Lone Rock 69kV (Y-124), Rebuild		2019	3	Condition and Performance		Planned	<b>A in MTEP16</b>	7583	\$ 32,500,000.00
62	Huiskamp SS - Waunakee SS (Y-132), Switch Replacement	2019	2019	3	Reliability	P6	Planned	<b>A in MTEP18</b>	13824	\$ 288,500.00
63	Kilbourn SS, Bus Reconfiguration and Relay Replacement		2019	3	Condition and Performance		Planned	<b>A in MTEP18</b>	13789	\$ 6,900,000.00
64	Nelson Dewey SS, Transformer Addition and Asset Renewal		2019	3	Condition and Performance		Planned	<b>A in MTEP16</b>	9961	\$ 5,375,625.00
65	Spring Valley SS - North Lake Geneva SS 138kV, Construct	2019	2019	3	T-D Interconnection, Reliability	P1.2	Planned	<b>A in MTEP14</b>	3808	\$ 70,500,000.00
66	Dam Heights SS, DIC and new radial line	2020	2020	3	T-D Interconnection		Planned	<b>A in MTEP18</b>	15045	\$ 3,300,000.00
67	Husikamp SS, Relay and Breaker Replacement		2020	3	Condition and Performance		Planned	<b>A in MTEP18</b>	13717	\$ 506,490.00
68	Koshkonong SS, new DIC	2019	2020	3	T-D Interconnection		Planned	<b>A in MTEP18</b>	14905	\$ 1,000,000.00
69	Muscoda SS, DIC add 2nd transformer and substation rebuild	2020	2020	3	T-D Interconnection		Planned	<b>A in MTEP18</b>	15124	\$ 3,300,000.00
70	Portage - Staff 138kV (X-6), Rebuild		2020	3	Condition and Performance		Planned	<b>A in MTEP17</b>	9968	\$ 17,720,000.00
71	Portage - Trienda 138kV (X-67), uprate	2022	2020	3	Reliability	P1.2	Planned	<b>A in MTEP14</b>	1624	\$ 2,000,000.00
72	Staff - North Randolph 138kV (X-98), Rebuild		2020	3	Condition and Performance		Planned	<b>A in MTEP17</b>	9974	\$ 5,000,000.00
73	Waupun SS, Rebuild Substation		2020	3	Condition and Performance		Planned	<b>A in MTEP17</b>	12100	\$ 4,200,000.00
74	West Towne SS, Relay Replacements		2020	3	Condition and Performance		Planned	<b>A in MTEP18</b>	13749	\$ 3,185,723.00
75	Dane - Waunakee 69kV (Y-143), Rebuild		2021	3	Condition and Performance		Planned	<b>A in MTEP17</b>	12177	\$ 6,600,000.00
76	Hillside SS, Relay and Breaker Replacements		2021	3	Condition and Performance		Planned	<b>A in MTEP18</b>	13802	\$ 670,000.00
77	Milton Lawns SS, DIC add 2nd transformer and line breakers	2020	2021	3	T-D Interconnection		Planned	<b>A in MTEP18</b>	15131	\$ 3,000,000.00
78	Sheepskin - Stoughton 69kV (Y-12), Rebuild		2021	3	Condition and Performance		Planned	<b>A in MTEP17</b>	7600	\$ 13,500,000.00
79	Academy - North Randolph 138kV (X-5), Re-insulate		2023	3	Condition and Performance		Planned	<b>A in MTEP18</b>	13822	\$ 1,170,000.00
80	Cardinal SS - Hickory Creek SS 345kV, Line Construction	2023	2023	3	Reliability, Economic and Policy		Planned	<b>A in MTEP11</b>	3127	\$ 492,200,000.00
81	Pflaum SS, Replace Failed 69kV Underground Cable		2025	3	Condition and Performance		Planned	<b>A in MTEP18</b>	13768	\$ 2,075,688.00
82	J870/J871 GIC Highland, Generator Interconnection Facilities and Network Upgrades	2020	2020	3	G-T Interconnection		Proposed	B in MTEP20	17525	\$ 2,300,000.00
83	Mount Horeb SS, Install 69kV Breakers		2020	3	Condition and Performance		Proposed	<b>A in MTEP17</b>	12903	\$ 4,300,000.00
84	Sycamore SS, Install 69kV Breakers		2020	3	Condition and Performance		Proposed	<b>A in MTEP17</b>	12183	\$ 2,755,829.00
85	J584 GIC Jordan SS, Generator Interconnection Facilities and Network Upgrades Information	2021	2021	3	G-T Interconnection		Planned	A in MTEP19	16493	\$ 6,200,000.00
86	Northern Lights Substation, new T-D Interconnection	2020	2021	3	T-D Interconnection		Proposed	<b>A in MTEP17</b>	12346	\$ 26,000,000.00
87	Portage Industrial Park SS, DIC, replace transformers and substation rebuild	2021	2021	3	T-D Interconnection		Proposed	<b>A in MTEP18</b>	15127	\$ 3,000,000.00

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88	Green County, new DIC	2021	2022	3	T-D Interconnection		Proposed	<b>A in MTEP18</b>	15129	\$ 4,500,000.00
89	Colley Road SS, Transformer Replacement and Asset Renewal		2023	3	Condition and Performance		Proposed	A in MTEP20	17585	\$ 3,150,000.00
90	West Middleton SS - Stagecoach SS 69kV (6927), Partial Rebuild	2023	2023	3	Reliability	P1.2, P1.3	Proposed	A in MTEP20	12175	\$ 2,800,000.00
91	Portage SS - Columbia SS 138kV (X-13/X-20), rebuild existing double circuit	2024	2024	3	Reliability	P1.2	Planned	A in MTEP19	4730	\$ 10,000,000.00
92	Hillman - Darlington 138kV (X-14/X-101), Rebuild		2026	3	Condition and Performance		Proposed	<b>A in MTEP18</b>	4726	\$ 21,090,000.00
93	Barneveld SS, DIC, new substation	2023	2023	3	T-D Interconnection		Provisional	<b>B in MTEP20</b>	18052	\$ 6,000,000.00
94	Academy - Columbus 69kV (Y-21), Rebuild		2024	3	Condition and Performance		Provisional	A in MTEP20	10590	\$ 3,150,000.00
95	Darlington - Rock Branch 69kV (Y-109), Rebuild		2025	3	Condition and Performance		Provisional	B in MTEP20	18046	\$ 16,600,000.00
96	Gran Grae SS, Install a second 161/69kV transformer	>2029	2026	3	Reliability	P1.3	Provisional	--	--	\$ 8,200,000.00
97	South Beaver Dam - Horicon 69kV (Y-134), Rebuild		2026	3	Condition and Performance		Provisional	B in MTEP20	18047	\$ 14,000,000.00
98	Rock Branch SS - Dodgeville SS 69kV (Y-35), Partial Rebuild		2027	3	Condition and Performance		Provisional	--	--	\$ 9,000,000.00
99	West Middleton SS - Pheasant Branch SS 69kV, Construct		2028	3	Condition and Performance		Provisional	C	3487	\$ 22,710,000.00
100	Blount - East Campus 69kV (6906), Replace with XLPE in existing HPFF pipe		2029	3	Condition and Performance		Provisional	--	--	\$ 9,900,000.00
101	South Fond du Lac - Spring Brook 69kV (Y-133), Rebuild		2029	3	Condition and Performance		Provisional	B in MTEP18	13739	\$ 31,000,000.00
102	Cardinal SS - Blount SS 138kV, construct	>2029	2031	3	Reliability	P6	Provisional	C	1730	\$ 109,000,000.00
103	Forest Junction SS, Install 25 MVAR Inductor	2020	2019	4	Reliability	system intact P0	Planned	<b>A in MTEP17</b>	7581	\$ 1,800,000.00
104	30th Avenue SS, DIC, replace transformer	2021	2020	4	T-D Interconnection		Planned	<b>A in MTEP18</b>	14905	\$ 2,200,000.00
105	Caldron Falls - Goodman 69kV (J-88), Rebuild		2020	4	Condition and Performance		Planned	<b>A in MTEP16</b>	9977	\$ 25,206,000.00
106	Cedar Ridge Wind Generation - Mullet River 138kV (X-97), Rebuild		2020	4	Condition and Performance		Planned	<b>A in MTEP17</b>	12148	\$ 22,800,000.00
107	Edgewater SS - Erdmann SS 69kV (Y-31), rerate	2020	2020	4	Reliability	prior + P1.2	Planned	<b>A in MTEP18</b>	13824	\$ 2,000,000.00
108	Finger Road - Canal 69kV (J-10), Rebuild		2020	4	Condition and Performance		Planned	<b>A in MTEP16</b>	8841	\$ 56,639,999.00
109	Ogden St SS, Network Project: Ogden St - Bayshore 69kV Line Construction	2021	2020	4	T-D Interconnection		Planned	<b>A in MTEP15</b>	4732	\$ 10,400,000.00
110	Packaging SS, new DIC	2020	2020	4	T-D Interconnection		Planned	<b>A in MTEP18</b>	15132	\$ 6,500,000.00
111	Pulliam SS, Install redundant bus differential	2019	2020	4	Reliability	stability P5.5	Planned	<b>A in MTEP18</b>	13727	\$ 1,900,000.00
112	Redwood - First Ave 69kV (T-46), Replace the submarine cable		2020	4	Condition and Performance		Planned	<b>A in MTEP18</b>	8444	\$ 11,300,000.00
113	Butte Des Morts - Sunset Point 138kV, Rebuild		2021	4	Condition and Performance		Planned	<b>A in MTEP17</b>	12185	\$ 20,600,000.00
114	Cloverleaf SS, Replace Dead End and Switches		2021	4	Condition and Performance		Planned	<b>A in MTEP18</b>	13728	\$ 1,062,784.00
115	Erdman SS, Transformer and Breaker Asset Renewal		2021	4	Condition and Performance		Planned	A in MTEP19	15931	\$ 7,000,000.00
116	J505 GIC Apollo SS, Generator Interconnection and Network Facilities	2021	2021	4	G-T Interconnection		Planned	<b>A in MTEP18</b>	14925	\$ 8,300,000.00
117	Maes - Lake Park (20341), Add OPGW		2021	4	Communication		Planned	A in MTEP19	14910	\$ 1,200,000.00
118	Shoto SS, Transformer (T1) and Breaker Asset Renewal		2021	4	Condition and Performance		Planned	<b>A in MTEP18</b>	14988	\$ 5,700,000.00
119	East Krok SS - Kewaunee SS (F-84), OPGW Installation		2022	4	Communication		Planned	A in MTEP20	14911	\$ 1,560,000.00
120	Edgewater SS, Bus Reconfiguration		2022	4	Condition and Performance		Planned	<b>A in MTEP18</b>	13756	\$ 9,800,000.00
121	Finger Rd - Danz 69kV (L-64), Rebuild		2022	4	Condition and Performance		Planned	<b>A in MTEP18</b>	12141	\$ 4,230,000.00
122	Hwy V - Finger Rd 69kV (U-47), Rebuild		2022	4	Condition and Performance		Planned	<b>A in MTEP18</b>	12140	\$ 1,520,000.00
123	New Holstein - Custer 69kV (P-68), Rebuild		2022	4	Condition and Performance		Planned	<b>A in MTEP18</b>	7584	\$ 27,000,000.00
124	Riverside SS, Bus Uprate	2022	2022	4	Reliability	prior + P1	Planned	<b>A in MTEP18</b>	13832	\$ 80,000.00
125	Wesmark SS, Relay and Breakers		2022	4	Condition and Performance		Planned	<b>A in MTEP18</b>	13747	\$ 811,572.00
126	Finger Road SW STA - Wesmark 69kV (FIRY11), Rebuild		2023	4	Condition and Performance		Planned	<b>A in MTEP18</b>	12134	\$ 14,400,000.00
127	Glenview SS, Transformer Retirement and Breaker & Relay Asset Renewal		2023	4	Condition and Performance		Planned	A in MTEP20	18019	\$ 4,799,000.00
128	Morgan SS, Breaker Asset Renewal and Facility Upgrades		2023	4	Condition and Performance		Planned	A in MTEP20	16606	\$ 5,000,000.00
129	Stiles SS - West Marinette SS (M117/L142), OPGW Installation		2023	4	Communication		Planned	A in MTEP19	15936	\$ 5,275,932.00
130	Wesmark - Rapids 69kV (R-44), Rebuild		2024	4	Condition and Performance		Planned	<b>A in MTEP18</b>	12135	\$ 21,500,000.00

ATC 2019 10-Year Assessment Project List

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131	Bayridge SS, new T-D Interconnection	2024	2025	4	T-D Interconnection		Planned	<b>A in MTEP16</b>	10485	\$ 2,000,000.00
132	Oak St - Hwy V 69kV (Z-26), Rebuild		2025	4	Condition and Performance		Planned	<b>A in MTEP18</b>	12137	\$ 9,000,000.00
133	Ellinwood SS, Upgrade 138kV Bus	2019	2019	4	Reliability	prior + P1	Proposed	<b>A in MTEP17</b>	12103	\$ 2,400,000.00
134	New Holstein SS, Install 69kV Breaker		2019	4	Condition and Performance		Proposed	<b>A in MTEP18</b>	13791	\$ 537,221.00
135	20th Street SS, Install two 138kV 8.16 MVAR Capacitor Banks	2019	2020	4	Reliability	prior + P1.2	Planned	A in MTEP19	14908	\$ 2,500,000.00
136	Forest Junction SS, Relieve Market Congestion	2018	2020	4	Economic	prior + P1.2	Proposed	<b>A in MTEP18</b>	16164	\$ 1,300,000.00
137	J886 GIC Kewaunee SS, Interconnection Facilities and Network Upgrades	2020	2020	4	G-T Interconnection		Proposed	B in MTEP20	17526	\$ 2,300,000.00
138	Manrap SS, Install 69kV Breakers		2020	4	Condition and Performance		Proposed	<b>A in MTEP17</b>	12184	\$ 1,336,964.00
139	Bayport SS - Pioneer SS 138kV, rebuild as a double-circuit	2021	2021	4	Condition and Performance		Proposed	<b>A in MTEP18</b>	14706	\$ 51,700,000.00
140	Huebner SS, Install two 138kV 8.16 MVAR Capacitor Banks	2019	2021	4	Reliability	prior + P1.2	Planned	A in MTEP19	14908	\$ 2,400,000.00
141	Eaton SS, new T-D Interconnection	2022	2022	4	T-D Interconnection		Proposed	<b>A in MTEP16</b>	10484	\$ 2,500,000.00
142	Edgewater SS - Lodestar SS 138kV (X-48/Y-31), Underground cable rebuild		2022	4	Condition and Performance		Planned	A in MTEP19	15925	\$ 11,400,000.00
143	Pioneer SS - Crivitz SS 138kV (E-83/B-2), retire 69kV and reconfigure load to 138kV	2022	2022	4	Condition and Performance		Proposed	<b>A in MTEP18</b>	14926	\$ 20,400,000.00
144	Preble SS, DIC, add 4th transformer and substation rebuild	2022	2022	4	T-D Interconnection		Proposed	A in MTEP20	17628	\$ 3,498,694.00
145	Pulliam SS, Transformer Retirement and Bus Reconfiguration		2022	4	Condition and Performance		Proposed	A in MTEP20	15930	\$ 3,260,000.00
146	Roosevelt SS, Construct	2022	2022	4	T-D Interconnection		Proposed	<b>A in MTEP16</b>	10686	\$ 1,102,365.00
147	Danz Ave SW STA - University (WPS) 69kV (O-15), underground rebuild & OPGW		2023	4	Condition and Performance		Planned	A in MTEP19	15924	\$ 14,800,000.00
148	Edgewater SS, DIC, replace transformer and substation rebuild	2023	2023	4	T-D Interconnection		Proposed	<b>A in MTEP18</b>	15126	\$ 3,000,000.00
149	Sheboygan County SS, DIC, substation rebuild	2022	2022	4	T-D Interconnection		Provisional	B in MTEP20	18051	\$ 8,000,000.00
150	East Krok SS, Replace T1 Transformer		2025	4	Condition and Performance		Provisional	--	--	< \$10,000,000
151	Howards Grove SS - Erdman SS 138kV, new line		2026	4	Reliability	P6	Provisional	--	--	\$ 25,000,000.00
152	Lincoln SS, Bus Reconfiguration	2019	2019	5	Reliability	prior + P1.2	Planned	<b>A in MTEP18</b>	13738	\$ 4,100,000.00
153	Mount Pleasant Tech Interconnection	2019	2019	5	T-D Interconnection		Planned	<b>A in MTEP18</b>	14073	\$ 117,000,000.00
154	Norwich - Barland 138kV (NWHG41), Re-insulate		2019	5	Condition and Performance		Planned	<b>A in MTEP18</b>	13821	\$ 310,000.00
155	St Lawrence SS, Breaker replacement and asset renewal		2019	5	Condition and Performance		Planned	<b>A in MTEP18</b>	13746	\$ 253,393.00
156	Waukesha SS, Relay and Breaker Replacements		2019	5	Condition and Performance		Planned	<b>A in MTEP18</b>	13742	\$ 836,447.00
157	Arcadian SS, Construct D-T	2019	2020	5	T-D Interconnection		Planned	<b>A in MTEP17</b>	13067	\$ 300,000.00
158	Juneautown SS, new T-D Interconnection	2020	2020	5	T-D Interconnection		Planned	<b>A in MTEP18</b>	13104	\$ 34,600,000.00
159	State Line SS, new DIC	2019	2020	5	T-D Interconnection		Planned	<b>A in MTEP18</b>	14604	\$ 8,200,000.00
160	Bain SS, Control House and Breaker Asset Renewal		2021	5	Condition and Performance		Planned	A in MTEP19	15932	\$ 8,500,000.00
161	Paris - Burlington 138kV (8962), Rebuild		2021	5	Condition and Performance		Planned	<b>A in MTEP18</b>	13732	\$ 12,560,000.00
162	Port Washington SS - Saukville SS 138kV (762), Rebuild to a double circuit	2021	2021	5	Reliability	P2.4, P7.1	Planned	<b>A in MTEP16</b>	9986	\$ 16,000,000.00
163	St. Lawrence - Barton 138kV (8032), Partial Rebuild		2021	5	Condition and Performance		Planned	<b>A in MTEP18</b>	13735	\$ 8,400,000.00
164	Barton - Auburn 138kV (9752), Partial Rebuild		2022	5	Condition and Performance		Planned	<b>A in MTEP18</b>	13743	\$ 7,050,000.00
165	Range Line SW STA, Control House Replacement and Asset Renewal		2022	5	Condition and Performance		Planned	A in MTEP19	15928	\$ 7,100,000.00
166	Arcadian SS, Install redundant bus differentials on 345-kV and 138-kV buses	2023	2023	5	Reliability	stability E2.D	Planned	A in MTEP20	16486	\$ 600,000.00
167	Summit - Cooney 138kV (6431), Rebuild		2023	5	Condition and Performance		Planned	A in MTEP19	15457	\$ 4,100,000.00
168	Burlington SS, Install 138kV Breakers		2021	5	Condition and Performance		Proposed	<b>A in MTEP17</b>	12058	\$ 1,400,000.00
169	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
170	Granville SS, Control House and Relay Replacement and Asset Renewal		2024	5	Condition and Performance		Provisional	B in MTEP19	16490	\$ 24,000,000.00
171	Granville SS, Install redundant bus differentials on 345-kV and 138-kV buses	2023	2024	5	Reliability	stability E2.D	Provisional	B in MTEP19	16490	\$ 600,000.00
172	Lincoln - Bluemound (43rd St) 138kV (5053), Replace with new duct bank and XLPE cable		2024	5	Condition and Performance		Provisional	B in MTEP20	18048	\$ 30,000,000.00
173	Substation Router Replacement Program 2020		2020	various	Communication		Planned	A in MTEP19	14910	\$ 4,223,665.00

	A	B	C	D	E	F	G	H	I	J
1	Project Name	2019 TYA Model Need Year	Estimated In-Service Year	ZONE	Need Category	Planning Event	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
174	Communication Reliability Upgrades Current Cycle		2021	various	Communication		Planned	<b>A in MTEP18</b>	13823	\$ 34,461,836.00
175	Line Clearance Mitigation Project Current Cycle		2021	various	Line Clearance		Planned	<b>A in MTEP18</b>	13824	\$ 18,718,669.00
176	Distribution Interconnection Current Cycle	2021	2021	various	T-D Interconnection		Planned	<b>A in MTEP18</b>	14904	\$ 6,436,258.00
177	Physical Security Current Cycle		2021	various	Physical Security		Planned	<b>A in MTEP18</b>	13826	\$ 67,198,396.00
178	Small Capital Project and Asset Renewal Current Cycle		2021	various	Condition and Performance		Planned	<b>A in MTEP18</b>	13821	\$ 38,457,451.00
179	Communication Reliability Upgrades 2019		2022	various	Communication		Planned	<b>A in MTEP18</b>	13829	\$ 1,422,500.00
180	Line Clearance Mitigation Project 2019		2022	various	Line Clearance		Planned	<b>A in MTEP18</b>	13825	\$ 5,832,204.00
181	Distribution Interconnection 2019	2022	2022	various	T-D Interconnection		Planned	<b>A in MTEP18</b>	14905	\$ 10,570,000.00
182	Physical Security 2019		2022	various	Physical Security		Planned	<b>A in MTEP18</b>	13828	\$ 3,000,000.00
183	Small Capital Project and Asset Renewal 2019		2022	various	Condition and Performance		Planned	<b>A in MTEP18</b>	13822	\$ 8,007,814.00
184	Communication Reliability Upgrades 2020		2023	various	Communication		Planned	A in MTEP19	14910	\$ 11,344,615.00
185	Line Clearance Mitigation Project 2020		2023	various	Line Clearance		Planned	A in MTEP19	14912	\$ 12,062,247.00
186	Load Interconnection 2020	2020	2023	various	T-D Interconnection		Planned	A in MTEP19	14906	\$ 26,774,954.00
187	Physical Security 2020		2023	various	Physical Security		Planned	A in MTEP19	14914	\$ 21,603,965.00
188	Small Capital Project and Asset Renewal 2020		2023	various	Condition and Performance		Planned	A in MTEP19	14908	\$ 35,906,079.00
189	Communication Reliability Upgrades 2021		2024	various	Communication		Proposed	B in MTEP18	14911	\$ 15,390,000.00
190	Line Clearance Mitigation Project 2021		2024	various	Line Clearance		Proposed	B in MTEP18	14913	\$ 14,800,000.00
191	Load Interconnection 2021	2024	2024	various	T-D Interconnection		Proposed	<b>B in MTEP18</b>	14907	\$ 20,934,210.00
192	Physical Security 2021		2024	various	Physical Security		Proposed	B in MTEP18	14915	\$ 14,299,341.00
193	Small Capital Project and Asset Renewal 2021		2024	various	Condition and Performance		Proposed	B in MTEP18	14909	\$ 31,828,256.00
194	Communication Reliability Upgrades 2022		2025	various	Communication		Proposed	B in MTEP18	14965	\$ 8,851,667.00
195	Line Clearance Mitigation Project 2022		2025	various	Line Clearance		Proposed	B in MTEP18	14966	\$ 7,100,000.00
196	Load Interconnection 2022	2025	2025	various	T-D Interconnection		Proposed	<b>B in MTEP18</b>	14968	\$ 38,475,000.00
197	Physical Security 2022		2025	various	Physical Security		Proposed	B in MTEP18	14967	\$ 9,165,536.00
198	Small Capital Project and Asset Renewal 2022		2025	various	Condition and Performance		Proposed	B in MTEP18	14964	\$ 30,489,835.00
199	Substation Router Replacement Program 2021		2021	various	Communication		Provisional	B in MTEP18	14911	\$ 10,000,000.00
200	Substation Router Replacement Program 2022		2022	various	Communication		Provisional	B in MTEP18	14965	\$ 10,000,000.00
201										
202	<b>Legend</b>									
203	No Shading = No change to project since previous Assessment									
204	Orange Shading = new project, was not in previous Assessment project list									
205	Gray Shading = some change (e.g. In-service year or scope) since previous Assessment									
206	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).									
207										