

ATC 2020 10-Year Assessment Network Project List

Project Name	2020 Estimated In-Service Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
Big Pond SS, Retire Substation	2020	1	Retirement	Planned	<b>A in MTEP18</b>	13831	\$ 454,000.00
Eagle River Cranberry SS, DIC, 2nd Transformer	2020	1	T-D Interconnection	Planned	<b>A in MTEP19</b>	14906	\$202,000.00
Homme SS, New DIC	2020	1	T-D Interconnection	Planned	<b>A in MTEP18</b>	13787	\$ 371,249.00
Lyndon Station SS, Replace Transformer and Substation Rebuild	2020	1	T-D Interconnection	Planned	<b>A in MTEP18</b>	14905	\$870,000.00
J821 Zenith SS Generator Interconnection Facilities and Network Upgrades	2021	1	G-T Interconnection	Planned	A in MTEP20	18567	\$ 7,235,132.00
Waupaca Area Energy Storage Project	2021	1	Operational Flexibility	Planned	A in MTEP19	15947	\$ 8,071,000.00
Baker St SS, Add new 115-kV bus and bus tie breaker	2021	1	T-D Interconnection	Planned	<b>A in MTEP17</b>	12115	\$ 5,800,000.00
Birnamwood SS, DIC replace transformer and substation rebuild	2021	1	T-D Interconnection	Planned	<b>A in MTEP18</b>	15128	\$ 130,000.00
Pine SS, DIC, Transformer Replacement	2021	1	T-D Interconnection	Planned	A in MTEP20	14907	\$165,000.00
Petenwell - Saratoga 138kV (X-43), Line Rebuild	2022	1	Reliability, Economic	Planned	A in MTEP20	18017	\$ 24,500,000.00
Mudwater SS, DIC, New Substation	2022	1	T-D Interconnection	Planned	<b>A in MTEP18</b>	14906	\$391,500.00
Waupaca SS, DIC, transformer addition	2022	1	T-D Interconnection	Planned	A in MTEP20	18053	\$ 6,900,000.00
J732 Superior SS Generator Interconnection Facilities and Network Upgrades	2023	1	G-T Interconnection	Planned	A in MTEP20	19729	\$ 21,245,605.00
Birnamwood SS, DIC new substation	2023	1	T-D Interconnection	Planned	<b>A in MTEP18</b>	15128	\$ 4,500,000.00
Petenwell - Council Creek (X-40), OPGW Installation	2024	1	Communication	Planned	A in MTEP21	19587	\$ 9,000,000.00
Weston - Sherman Street, 115kV line (Z-52), uprate	2023	1	Reliability	Proposed	A in MTEP20	14909	\$ 997,000.00
Maine - Hilltop 115kV line (U-11), uprate	2023	1	Reliability	Proposed	A in MTEP20	14909	\$ 835,000.00
Venus SS, new inductor bank	2024	1	Reliability	Provisional	B in MTEP19	15945	\$ 1,800,000.00
J928 - Garden Corners SS, GIC Network Upgrades	2020	2	G-T Interconnection	Planned	<b>A in MTEP19</b>	16494	\$ 304,855.00
North Lake - M-38 138kV (NLKG31), Rerate	2020	2	Line Clearance	Planned	<b>A in MTEP18</b>	15284	\$ 1,500,000.00
Forsyth SS, DIC, Add 1st Transformer	2021	2	T-D Interconnection	Planned	<b>A in MTEP18</b>	14905	\$ 45,000.00
Garden Corners SS, DIC, add 1st Transformer	2021	2	T-D Interconnection	Planned	<b>A in MTEP18</b>	14904	\$ 1,900,000.00
NLKG31 Tap - Greenstone 138kV, construct new transmission line	2022	2	Condition and T-D Interconnection	Planned	<b>A in MTEP19</b>	15933	\$ 5,200,000.00
J849, Chandler SS, Interconnection Facilities and Network Upgrades	2022	2	G-T Interconnection	Planned	<b>A in MTEP19</b>	16492	\$ 3,036,785.00
Atlantic SS, 138/69kV Bus Reconfiguration and Transformer Addition	2022	2	Operational Flexibility and Condition and Performance	Planned	<b>A in MTEP19</b>	7586	\$ 11,600,000.00
Presque Isle - Tilden 138kV, Loop and Uprate	2022	2	Reliability	Planned	<b>A in MTEP19</b>	15345	\$ 15,300,000.00
Masonville SS, DIC, Substation Rebuild and Transformer Additions	2022	2	T-D Interconnection	Planned	<b>A in MTEP19</b>	14906	\$ 1,500,000.00
Central UP, new DIC	2023	2	T-D Interconnection	Proposed	<b>A in MTEP18</b>	15133	\$ 6,200,000.00
Eastern UP, new DIC	2023	2	T-D Interconnection	Proposed	<b>A in MTEP18</b>	15130	\$ 12,593,000.00
Winona - Atlantic 69kV (Winona69), rebuild	2024	2	Reliability	Proposed	A in MTEP20	4727	\$ 13,900,000.00
Keel Ridge SS, new DIC	2025	2	T-D Interconnection	Proposed	<b>A in MTEP18</b>	13792	\$ 2,600,000.00
Marquette County Reactive Power Project	2023	2	Reliability	Provisional	B in MTEP21	19965	\$ 8,000,000.00
Munising Area Reactive Power Project	2023	2	Reliability	Provisional	B in MTEP21	19966	\$ 5,000,000.00
Forsyth - Gwinn 69kV, new line	2024	2	Operational Flexibility	Provisional	B in MTEP20	18018	\$ 4,000,000.00
Arnold SS, 80 MVAR Inductor Bank	2027	2	Reliability	Provisional	B in MTEP18	14187	\$ 6,300,000.00
Blount - East Campus, 69kV, (6907), underground cable replacement	2020	3	Damage	Planned	A in MTEP20	18848	\$ 9,000,000.00
Dam Heights SS, DIC and new radial line	2020	3	T-D Interconnection	Planned	<b>A in MTEP18</b>	15045	\$ 4,200,000.00
Darlington SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19268	\$ 202,295.00
Dodgeville SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19226	\$ 220,000.00
Eden - Lands End 69kV, Loop into Highland SS	2021	3	G-T Interconnection	Planned	A in MTEP20	17525	\$ 13,674,246.00
Eden - Highland (X-147) 138kV, uprate	2021	3	G-T Interconnection	Planned	A in MTEP20	19269	\$ 695,243.00
Eden SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19246	\$ 794,591.00
Elkhorn - North Lake Geneva (X-55) 138 kV, uprate	2021	3	G-T Interconnection	Planned	A in MTEP20	19245	\$ 372,880.00
Falcon SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19268	\$ 147,624.00
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	3	G-T Interconnection	Planned	A in MTEP20	19246	\$ 611,927.00
Hillman SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19248	\$ 181,784.00
Hillman SS, Upgrade Transformer	2021	3	G-T Interconnection	Planned	A in MTEP20	19268	\$ 3,132,719.00
J584 GIC Jordan SS, Generator Interconnection Facilities and Network Upgrades	2021	3	G-T Interconnection	Planned	<b>A in MTEP19</b>	16493	\$ 6,200,858.00
J807 Falcon SS Generator Interconnection Facilities and Network Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	18566	\$ 870,186.00
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	3	G-T Interconnection	Planned	A in MTEP20	19145	\$ 5,608,810.00

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Nelson Dewey SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19267	\$ 537,753.00
North Monroe - Bass Creek (X-12) 138 kV, uprate	2021	3	G-T Interconnection	Planned	A in MTEP20	19268	\$ 402,454.00
North Monroe SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19247	\$ 199,855.00
Rock Branch SS Grounding System Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	19226	\$ 220,000.00
Rock River SS, Bus Switch Upgrade	2021	3	G-T Interconnection	Planned	A in MTEP20	19268	\$ 182,621.00
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	\$ 630,000.00
Milton Lawns SS, DIC add 2nd transformer and line breakers	2021	3	T-D Interconnection	Planned	A in MTEP18	15131	\$ 3,000,000.00
Muscoda SS, DIC add 2nd transformer and substation rebuild	2021	3	T-D Interconnection	Planned	A in MTEP18	15124	\$ 3,290,000.00
Northern Lights Substation, new T-D Interconnection	2021	3	T-D Interconnection	Planned	A in MTEP17	12346	\$ 21,235,700.00
Orfordville SS, DIC, Capacitor Retirement and Transformer Replacement	2021	3	T-D Interconnection	Planned	A in MTEP19	14906	\$ 182,000.00
Portage Industrial Park SS, DIC, replace transformers and substation rebuild	2021	3	T-D Interconnection	Planned	A in MTEP18	15127	\$ 3,000,000.00
Waterloo SS, DIC, New 138kV Substation	2021	3	T-D Interconnection	Planned	A in MTEP19	14906	\$ 3,600,000.00
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	3	G-T Interconnection	Planned	A in MTEP20	18925	\$ 3,363,101.00
J818 Jefferson SS Generator Interconnection Facilities and Network Upgrades	2022	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	\$ 6,104,293.00
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
J819 Darlington SS Generator Interconnection Facilities and Network Upgrades	2023	3	G-T Interconnection	Planned	--	--	\$ 1,655,059.00
Rock River SS (X-74) Terminal Upgrade	2023	3	G-T Interconnection	Planned	--	--	--
South Monroe - Browntown (Y-155) 69kV, rebuild	2023	3	G-T Interconnection	Planned	--	--	\$ 9,785,195.00
Cardinal - Hickory Creek 345kV, Line Construction	2023	3	Reliability, Economic and Policy	Planned	A in MTEP11	3127	\$ 492,200,000.00
Barneveld SS, DIC, new substation	2023	3	T-D Interconnection	Planned	A in MTEP20	18052	\$ 12,300,000.00
Portage - Columbia 138kV (X-13/X-20), rebuild existing double circuit	2024	3	Reliability	Planned	A in MTEP19	4730	\$ 11,500,000.00
Gateway - Sycamore (6902), 69kV, rebuild	2023	3	Reliability	Proposed	A in MTEP21	14964	\$ 2,900,000.00
South Beaver Dam - North Beaver Dam (Y-59), 69kV, uprate	2023	3	Reliability	Proposed	A in MTEP20	14909	\$ 70,000.00
West Middleton - Stagecoach 69kV (6927), Partial Rebuild	2023	3	Reliability	Proposed	A in MTEP20	12175	\$ 2,735,023.00
Tokay SS, DIC, Add Transformer	2023	3	T-D Interconnection	Proposed	A in MTEP20	14907	\$ 500,000.00
Spring Green - Wick Drive (Y-170), 69kV, uprate	2024	3	Reliability	Proposed	A in MTEP21	14964	\$ 1,500,000.00
Drumlin SS, DIC, New Substation	2023	3	T-D Interconnection	Provisional	A in MTEP21	19806	\$ 3,500,000.00
Nelson Dewey - Bloomington (Y-184), 69kV, rebuild & OPGW	2025	3	Reliability, Condition and Performance	Provisional	B in MTEP21	19962	\$ 15,250,000.00
Gran Grae SS, Install a second 161/69kV transformer	2026	3	Reliability	Provisional	--	--	\$ 8,200,000.00
Cardinal - Blount 138kV, construct	2031	3	Reliability	Provisional	B in MTEP21	1730	\$ 109,000,000.00
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
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
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

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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
Eaton SS, new T-D Interconnection	2024	4	T-D Interconnection	Planned	<b>A in MTEP16</b>	10484	\$ 2,500,000.00
Edgewater SS, DIC, replace transformer and substation rebuild	2024	4	T-D Interconnection	Planned	<b>A in MTEP18</b>	15126	\$ 5,100,000.00
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
Juneautown SS, new T-D Interconnection	2020	5	T-D Interconnection	Planned	<b>A in MTEP18</b>	13104	\$ 33,884,000.00
Port Washington - Saukville 138kV (762), Rebuild to a double circuit	2021	5	Reliability	Planned	<b>A in MTEP16</b>	9986	\$ 21,000,000.00
Arcadian SS, Construct T-D	2021	5	T-D Interconnection	Planned	<b>A in MTEP17</b>	13067	\$ 514,000.00
River Bend SS, Add 2nd Transformer	2021	5	T-D Interconnection	Planned	<b>A in MTEP19</b>	14906	\$ 717,000.00
Tamarack SS, DIC, Replace Transformer	2021	5	T-D Interconnection	Planned	<b>A in MTEP19</b>	14906	\$ 2,000,000.00
Berryville SS Grounding System Upgrades	2022	5	G-T Interconnection	Planned	A in MTEP20	18985	\$ 328,807.00
Elkhorn SS Grounding System Upgrades	2022	5	G-T Interconnection	Planned	A in MTEP20	18985	\$ 223,683.00
J850/J878 East Paris SS, new 345/138kV transformer	2022	5	G-T Interconnection	Planned	A in MTEP20	18985	\$ 24,972,611.00
J878 Paris SS Generator Interconnection Facilities and Network Upgrades	2022	5	G-T Interconnection	Planned	A in MTEP20	19265	\$ 1,973,438.00
Paris SS Grounding System Upgrades	2022	5	G-T Interconnection	Planned	A in MTEP20	19265	\$ 380,402.00
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
Germantown SS DIC, Install additional transformer	2022	5	T-D Interconnection	Provisional	A in MTEP20	14907	\$ 6,000,000.00
Sussex to Bark River (46143/2661), 138kV, OPGW Installation	2023	5	Communication	Provisional	B in MTEP21	19959	\$ 4,250,000.00
Communication Reliability Upgrades Current Cycle	2021	various	Communication	Planned	<b>A in MTEP18</b>	13823	\$ 34,461,836.00
Line Clearance Mitigation Project Current Cycle	2021	various	Line Clearance	Planned	<b>A in MTEP18</b>	13824	\$ 18,718,669.00
Physical Security Current Cycle	2021	various	Physical Security	Planned	<b>A in MTEP18</b>	13826	\$ 67,198,396.00
Distribution Interconnection Current Cycle	2021	various	T-D Interconnection	Planned	<b>A in MTEP18</b>	14904	\$ 6,436,258.00
Communication Reliability Upgrades 2019	2022	various	Communication	Planned	<b>A in MTEP18</b>	13829	\$ 1,422,500.00
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
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 Upgrades 2021	2024	various	Communication	Planned	A in MTEP20	14911	\$ 10,927,208.00
Line Clearance Mitigation Project 2021	2024	various	Line Clearance	Planned	A in MTEP20	14913	\$ 3,791,502.00
Physical Security 2021	2024	various	Physical Security	Planned	A in MTEP20	14915	\$ 17,908,909.00
Load Interconnection 2021	2024	various	T-D Interconnection	Planned	A in MTEP20	14907	\$ 20,124,594.00
Communication Reliability Upgrades 2022	2025	various	Communication	Proposed	A in MTEP21	14965	\$ 8,500,000.00
Line Clearance Mitigation Project 2022	2025	various	Line Clearance	Proposed	A in MTEP21	14966	\$ 7,500,000.00
Physical Security 2022	2025	various	Physical Security	Proposed	A in MTEP21	14967	\$ 15,000,000.00
Load Interconnection 2022	2025	various	T-D Interconnection	Proposed	A in MTEP21	14968	\$ 32,500,000.00

**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).