

Project Name	2019 Estimated In-Service Year	2020 Estimated In-Service Year	ZONE	Need Category	Planning Event	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost	Explanation
20th Street SS, Install two 138kV 8.16 MVAR Capacitor Banks	2020	2021	4	Reliability	prior + P1.2	Planned	A in MTEP19	14908	\$ 2,500,000.00	ISY Changed / Updated Cost Estimate
Huebner SS, Install two 138kV 8.16 MVAR Capacitor Banks	2021	2021	4	Reliability	prior + P1.2	Planned	A in MTEP19	14908	\$ 2,400,000.00	Certified by MISO in MTEP19
Riverside SS, Bus Uprate	2022	2022	4	Reliability	prior + P1	Planned	A in MTEP18	13832	\$ 80,000.00	
Ellinwood SS, Upgrade 138kV Bus	2019		4	Reliability	prior + P1	Planned	A in MTEP17	12103	\$ 2,400,000.00	In-Service
Forest Junction SS, Install 25 MVAR Inductor	2019		4	Reliability	system intact P0	Planned	A in MTEP17	7581	\$ 1,800,000.00	In-Service
Sheboygan County SS, DIC, substation rebuild	2022	2023	4	T-D Interconnection		Proposed	A in MTEP20	18051	\$ 8,000,000.00	Provisional to Proposed / Target A in MTEP20
30th Avenue SS, DIC, replace transformer	2020	2020	4	T-D Interconnection		Planned	A in MTEP18	14905	\$ 2,200,000.00	
Ogden St SS, Network Project: Ogden St - Bayshore 69kV Line Construction	2020	2020	4	T-D Interconnection		Planned	A in MTEP15	4732	\$ 17,100,000.00	Cost Estimated Updated
Packaging SS, new DIC	2020	2020	4	T-D Interconnection		Planned	A in MTEP18	15132	\$ 9,800,000.00	In-Service
Bayridge SS, new T-D Interconnection	2025	2022	4	T-D Interconnection		Planned	A in MTEP16	10485	\$ 2,122,335.00	ISY Changed
Preble SS, DIC, add 4th transformer and substation rebuild	2022	2022	4	T-D Interconnection		Planned	A in MTEP20	17628	\$ 3,498,694.00	Proposed to Planned Status
Roosevelt SS, Construct	2022	2022	4	T-D Interconnection		Planned	A in MTEP16	10686	\$ 1,102,365.00	Proposed to Planned Status
Edgewater SS, DIC, replace transformer and substation rebuild	2023	2024	4	T-D Interconnection		Planned	A in MTEP18	15126	\$ 5,100,000.00	ISY Changed / Proposed to Planned Status / Cost Estimate Updated
Eaton SS, new T-D Interconnection	2022	2024	4	T-D Interconnection		Planned	A in MTEP16	10484	\$ 2,500,000.00	ISY Changed / Proposed to Planned Status
Lincoln - Bluemound (43rd St) 138kV (5053), replace underground cable	2024	2024	5	Condition and Performance		Provisional	B in MTEP20	18048	\$ 30,000,000.00	
Burlington SS, Install 138kV Breakers	2021	2021	5	Condition and Performance		Planned	A in MTEP17	12058	\$ 2,000,000.00	Proposed to Planned Status
Bain SS, Control House and Breaker Asset Renewal	2021	2021	5	Condition and Performance		Planned	A in MTEP19	15932	\$ 8,500,000.00	Certified by MISO in MTEP19
Paris - Burlington 138kV (8962), Rebuild	2021	2021	5	Condition and Performance		Planned	A in MTEP18	13732	\$ 12,560,000.00	
Barton - Auburn 138kV (9752), Partial Rebuild	2022	2022	5	Condition and Performance		Planned	A in MTEP18	13743	\$ 7,050,000.00	ISY Changed
St. Lawrence - Barton 138kV (8032), Partial Rebuild	2021	2022	5	Condition and Performance		Planned	A in MTEP18	13735	\$ 8,400,000.00	ISY Changed
Range Line SW STA, Control House Replacement and Asset Renewal	2022	2022	5	Condition and Performance		Planned	A in MTEP19	15928	\$ 7,100,000.00	Certified by MISO in MTEP19
Summit - Cooney 138kV (6431), Rebuild	2023	2022	5	Condition and Performance		Planned	A in MTEP19	15457	\$ 4,100,000.00	Updated ISY / Certified by MISO in MTEP19
Norwich - Barland 138kV (NWHG41), Re-insulate	2019		5	Condition and Performance		Planned	A in MTEP18	13821	\$ 310,000.00	In-Service
St Lawrence SS, Breaker replacement and asset renewal	2019		5	Condition and Performance		Planned	A in MTEP18	13746	\$ 253,393.00	In-Service
Waukesha SS, Relay and Breaker Replacements	2019		5	Condition and Performance		Planned	A in MTEP18	13742	\$ 836,447.00	In-Service
Granville SS, Control House and Relay Replacement and Asset Renewal	2024	2024	5	Condition and Performance / Reliability	stability E2.D	Provisional	B in MTEP19	16490	\$ 24,000,000.00	
Arcadian SS, Power Transformer and Control House Replacement and Asset Renewal	2023	2023	5	Condition and Performance / Reliability	stability E2.D	Planned	A in MTEP20	16486	\$ 40,000,000.00	Cost Estimated Updated
J850/J878 MPFCA East Paris New SS		2022	5	G-T Interconnection		Proposed	A in MTEP20	18985	\$ 25,525,101.00	MPFCA Signed
Port Washington SS - Sauville SS 138kV (762), Rebuild to a double circuit	2021	2021	5	Reliability	P2.4, P7.1	Planned	A in MTEP16	9986	\$ 21,000,000.00	Cost Estimated Updated
Lincoln SS, Bus Reconfiguration	2019		5	Reliability	prior + P1.2	Planned	A in MTEP18	13738	\$ 4,100,000.00	In-Service
Juneautown SS, new T-D Interconnection	2020	2020	5	T-D Interconnection		Planned	A in MTEP18	13104	\$ 33,884,000.00	
State Line SS, new DIC	2020	2020	5	T-D Interconnection		Planned	A in MTEP18	14604	\$ 6,300,000.00	In-Service / Cost Estimated Updated
Arcadian SS, Construct D-T	2020	2021	5	T-D Interconnection		Planned	A in MTEP17	13067	\$ 514,000.00	ISY Changed / Updated Cost Estimate
J878 GIC Paris SS, Generator Interconnection Facilities and Network Upgrades		2022	5	G-T Interconnection		Planned	A in MTEP20	19265	\$ 2,353,840.00	GIA Signed
Mount Pleasant Tech Interconnection	2019		5	T-D Interconnection		Planned	A in MTEP18	14073	\$ 117,000,000.00	In-Service
Communication Reliability Upgrades 2022	2025	2025	various	Communication		Proposed	B in MTEP18	14965	\$ 8,851,667.00	
Communication Reliability Upgrades Current Cycle	2021	2021	various	Communication		Planned	A in MTEP18	13823	\$ 34,461,836.00	
Communication Reliability Upgrades 2019	2022	2022	various	Communication		Planned	A in MTEP18	13829	\$ 1,422,500.00	
Communication Reliability Upgrades 2020	2023	2023	various	Communication		Planned	A in MTEP19	14910	\$ 11,344,615.00	Certified by MISO in MTEP19
Communication Reliability Upgrades 2021	2024	2024	various	Communication		Planned	A in MTEP20	14911	\$ 10,927,208.00	Target A in MTEP20 / Cost Estimated Updated
Small Capital Project and Asset Renewal 2022	2025	2025	various	Condition and Performance		Proposed	B in MTEP18	14964	\$ 30,489,835.00	
Small Capital Project and Asset Renewal Current Cycle	2021	2021	various	Condition and Performance		Planned	A in MTEP18	13821	\$ 38,457,451.00	
Small Capital Project and Asset Renewal 2019	2022	2022	various	Condition and Performance		Planned	A in MTEP18	13822	\$ 8,007,814.00	
Small Capital Project and Asset Renewal 2020	2023	2023	various	Condition and Performance		Planned	A in MTEP19	14908	\$ 35,906,079.00	Certified by MISO in MTEP19
Small Capital Project and Asset Renewal 2021	2024	2024	various	Condition and Performance		Planned	A in MTEP20	14909	\$ 38,913,412.00	Proposed to Planned / Target A in MTEP20 / Cost Estimated Updated
Line Clearance Mitigation Project 2022	2025	2025	various	Line Clearance		Proposed	B in MTEP18	14966	\$ 7,100,000.00	
Line Clearance Mitigation Project Current Cycle	2021	2021	various	Line Clearance		Planned	A in MTEP18	13824	\$ 18,718,669.00	
Line Clearance Mitigation Project 2019	2022	2022	various	Line Clearance		Planned	A in MTEP18	13825	\$ 5,832,204.00	
Line Clearance Mitigation Project 2020	2023	2023	various	Line Clearance		Planned	A in MTEP19	14912	\$ 12,062,247.00	Certified by MISO in MTEP19
Line Clearance Mitigation Project 2021	2024	2024	various	Line Clearance		Planned	A in MTEP20	14913	\$ 3,791,502.00	Target A in MTEP20 / Cost Estimated Updated
Physical Security 2022	2025	2025	various	Physical Security		Proposed	B in MTEP18	14967	\$ 9,165,536.00	
Physical Security Current Cycle	2021	2021	various	Physical Security		Planned	A in MTEP18	13826	\$ 67,198,396.00	
Physical Security 2019	2022	2022	various	Physical Security		Planned	A in MTEP18	13828	\$ 3,000,000.00	
Physical Security 2020	2023	2023	various	Physical Security		Planned	A in MTEP19	14914	\$ 21,603,965.00	Certified by MISO in MTEP19
Physical Security 2021	2024	2024	various	Physical Security		Planned	A in MTEP20	14915	\$ 17,908,909.00	Target A in MTEP20 / Cost Estimated Updated
Load Interconnection 2022	2025	2025	various	T-D Interconnection		Proposed	B in MTEP18	14968	\$ 38,475,000.00	
Distribution Interconnection Current Cycle	2021	2021	various	T-D Interconnection		Planned	A in MTEP18	14904	\$ 6,436,258.00	
Distribution Interconnection 2019	2022	2022	various	T-D Interconnection		Planned	A in MTEP18	14905	\$ 10,570,000.00	
Load Interconnection 2020	2023	2023	various	T-D Interconnection		Planned	A in MTEP19	14906	\$ 26,774,954.00	Certified by MISO in MTEP19
Load Interconnection 2021	2024	2024	various	T-D Interconnection		Planned	A in MTEP20	14907	\$ 20,124,594.00	Target A in MTEP20 / Cost Estimated Updated

LEGEND	
Green Shading	= Project In-Service (Interim Updates Only)
No Shading	= No change to project since previous Assessment
Orange Shading	= new project, was not in previous Assessment project list
Gray Shading	= some change (e.g. In-service year or scope) since previous Assessment
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 MTEP18 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 (3/2020).	