

ATC 2017 10-Year Assessment Network Project List

System Addition	2017 TYA Network Need Year	2017 TYA In-Service Year	Planning Zone	Need Category	Planned, Proposed or Provisional	MISO MTEP Appendix Status	MTEP PRJID	MTEP Cost or Cost Range	Reason for Change since Previous TYA (Gray items only)
Y-121: re-rate 1.2 miles of 69 kV line between Council Creek and Tomah Industrial Park	2015*	2017	1	reliability (P1), operating flexibility	Proposed	targeted A 17	9928	0.6	
White Lake Substation: Install line breaker to sectionalize	2017***	2017	1	T-D Interconnection	Proposed	A	11224	0.9	
J395: Falcon Substation, new G-T interconnection	2017***	2017	3	G-T Interconnection	Proposed	targeted A 17	12284	18.6	
Town Hall Substation, new T-D Interconnection	2017***	2017	3	T-D Interconnection	Proposed	A	11223	1.6	
Cardinal - North Madison 345 kV line	2018***	2017	3	reliability, economics and policy benefits	Planned	A	3127	1054.8	
Birchwood Substation: Install a bus tie breaker	2019***	2017	3	T-D interconnection	Proposed	A	9921	0.7	
Creekview Substation: 138 kV line construction to serve T-D interconnection	2017***	2017	4	T-D interconnection	Planned	A	4353	25.0	
South Fond du Lac Substation, motor operator installation	2017***	2017	4	operating flexibility	Planned	--	--	<10	
Verona Substation, breaker installation	2017***	2017	3	T-D Interconnection	Proposed	targeted A 17	12097	0.4	
Mukwonago Substation: Install line breaker on line 671K61	2018***	2018	5	operating flexibility	Proposed	A	9923	0.6	was 2017
Okray Substation, breaker installation	2018***	2018	1	T-D Interconnection	Proposed	--	--	2.4	
McMillan - Wildwood 115-kV line N-144, uprate	ASAP***	2018	1	Economics	Proposed	targeted A 17	13064	0.2	
Plover Substation, Reconfiguration	2018***	2018	1	T-D Interconnection	Proposed	--	--	<10	
Springwater Substation, new T-D Interconnection	2018***	2018	1	T-D Interconnection	Proposed	A	10603	<10	
Arcadian - Waukesha 138 kV lines, Uprate (9942/9962)	2018	2018	5	reliability (P3.2, P1.2)	Proposed	targeted A 17	12463	0.3	
Spare Reactor Purchase	2020	2018	1, 3	P0	Proposed	target A 18	--	<10	was 2017
Pershing Substation: Loop Stone Lake - Gardner Park 345-kV line into new Pershing 345/115-kV Substation	2018***	2018	1	T-T interconnection	Proposed	B	9925	15.0	
Stoughton West Substation, new T-D Interconnection	2018***	2018	3	T-D Interconnection	Proposed	targeted A 17	12347	1.8	
Tripp Rd Substation, breaker installation	2018***	2018	3	T-D Interconnection	Proposed	targeted A 17	13068	2.9	
Oakview Substation: loop line 836 in and out and install 138-kV bus tie breaker	2018***	2018	5	T-D Interconnection	Planned	A	10563	<10	Scope change
St Martins Substation: Add new 138 kV bus and bus tie breaker	2018***	2018	5	T-D Interconnection	Proposed	A	10643	<10	
North Madison - Briggs Road 345 kV line	2018***	2018	1, 3	reliability, economics and policy benefits	Planned	A	3127	1054.8	
Oak Creek - Hayes 138-kV line 811 uprate and reconfiguration	ASAP***	2018	5	reliability (P7)	Proposed	A	9934	21.0	
Plymouth 4 Substation, breaker installation	2018***	2018	4	T-D Interconnection	Proposed	targeted A 17	13065	1.7	
West Marinette Substation: Add high side protection to 138/69-kV transformers	2014***	2018	4	reliability (various TPL categories)	Proposed	A	9080	4.5	Scope change
Lawn Rd Substation: Install 138-kV breakers to sectionalize 138-kV circuit 6851	2018***	2018	4	operating flexibility	Proposed	targeted A 17	12174	2.5	
Forest Junction 138kV Substation: Install 25 Mvar inductor	2018***	2018	4	system intact (P0)	Provisional	targeted A 17	7581	1.8	
Ogden St. Networking Project: Ogden St. - Bayshore 69-kV line construction	2018***	2018	4	T-D interconnection	Proposed	A	4732	10.4	
Lost Dauphin - Red Maple 138 kV line uprate Q-147	2020***	2018	4	reliability (various TPL categories)	Planned	targeted A 17	9930	0.04	
Depere - Glory Rd 138-kV overhead line rebuild	2020***	2018	4	reliability (various TPL categories)	Proposed	A	9081	0.7	
Bay Lake: Morgan Substation -- reconfigure and expand 345-kV and 138-kV switchyards	ASAP***	2018	4	reliability (various TPL categories)	Planned	A	3679	356.8	
Bay Lake: North Appleton - Morgan 138 kV line construction	ASAP***	2018	4	reliability (various TPL categories)	Planned	A	3952	76.7	
Bay Lake: North Appleton - Morgan 345 kV line construction	ASAP***	2018	4	reliability (various TPL categories)	Planned	A	3679	356.8	
Bay Lake: North Appleton Substation -- Construct new 345-kV switchyard and reconfigure 138-kV switchyard	ASAP***	2018	4	reliability (various TPL categories)	Planned	A	3679	356.8	

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Branch River Substation: Construct new 345-kV switching station	2018*	2018	4	new generation	Planned	A	3206	46.6	
City Limits 138-kV bus reconductor	2018***	2018	4	reliability (P3.2)	Proposed	A	8640	0.5	Was 2019
Somers Substation: loop Racine - Kenosha 138-kV line 1651 in and out	2018***	2018	5	T-D interconnection	Planned	A	8660	4.7	Scope change/was 2019
Atlantic Substation: Reconfiguration	2019	2019	2	operating flexibility, reliability (69P5)	Provisional	B	7586	9	
Bain - Spring Valley 138-kV uprate 63141	2019	2019	3 & 5	T-D interconnection, reliability (69P1.2)	Planned	A	3808	70.5	
Construct a new 138/69-kV substation on Spring Valley - North Lake Geneva 138-kV circuit	2019	2019	3 & 5	T-D interconnection, reliability (69P1.2)	Planned	A	3808	70.5	
Construct a new 69-kV circuit from Twin Lakes to the new substation	2019	2019	3 & 5	T-D interconnection, reliability (69P1.2)	Planned	A	3808	70.5	
Construct a new Spring Valley-North Lake Geneva 138-kV circuit	2019	2019	3 & 5	T-D interconnection, reliability (69P1.2)	Planned	A	3808	70.5	
Twin Lakes - Katzenberg 69-kV rebuild Y-102	2019	2019	3 & 5	T-D interconnection, reliability (69P1.2)	Planned	A	3808	70.5	
J395: Darlington - North Monroe 138 kV line X-49, uprate	2017***	2019	3	G-T Interconnection	Proposed	targeted A 17	12284	18.6	
M13-Reinforcement-Bunker Hill-Blackbrook	2019**	2019	1	reliability (P1.2)	Planned	A	7602/7603	30.0	
Walker Tap Underground Cable Removal	2019***	2019	5	no T-D Need	Proposed	target A 18	--	<10	
Williams Bay Substation: Loop X-44 in and out	2019***	2019	3	T-D interconnection	Proposed	A	4421	4.4	
J390: Kittyhawk Substation, new G-T interconnection	2019***	2019	3	G-T Interconnection	Proposed	targeted A 17	13103	49.5	
Paddock - NW Beloit 138 kV line X-53, install series reactor	2019***	2019	3	reliability (various TPL categories)	Proposed	targeted A 17	13004	1.4	
Highway V Substation: Install 138-kV breakers and 69-kV circuit switchers on 138/69-kV transformers	2019***	2019	4	operating flexibility, reliability (prior + 69P1.3)	Proposed	targeted A 17	7986	7.4	Was 2018
Pulliam 138-kV Substation: Install redundant bus differential	2019***	2019	4	reliability (stability P5.5)	Proposed	target A 18	--	<10	
Ellinwood 138-kV Bus Rerate	2019*	2019	4	reliability (P6)	Proposed	targeted A 17	12103	2.4	
Plains - Arnold 138-kV uprate	2019***	2019	2	NITS Request	Proposed	targeted A 17	--	<10	
J703: Huron Substation, new G-T interconnection	2019***	2019	2	G-T Interconnection	Provisional	target B 18	--	10-25	
J704/J711: Silver River Substation, new G-T interconnection	2019***	2019	2	G-T Interconnection	Provisional	target B 18	--	10-25	
J704/J711: North Lake - Silver River 138 kV line NLKG31, uprate	2019***	2019	2	G-T Interconnection	Provisional	target B 18	--	10-25	
J704/J711: Perch Lake - Silver River 138 kV line M38, uprate	2019***	2019	2	G-T Interconnection	Provisional	target B 18	--	<10	
Northern WI/UP High Voltage Control	2019***	2019	1,2	P0	Provisional	target B 18	--	<10	
Presque Isle - Tilden 138 kV line loop into National and uprate National - Tilden 138 kV line	2019	2020	2	reliability (prior + P1.2)	Provisional	--	--	<10	
Baker St Substation: Add new 115-kV bus and bus tie breaker	2020***	2020	1	T-D Interconnection	Proposed	targeted A 17	12115	4.4	
Northern Lights Substation, new T-D interconnection	2020***	2020	3	T-D Interconnection	Proposed	targeted A 17	12346	26.0	
Juneautown Substation, new T-D interconnection	2020***	2020	5	T-D Interconnection	Proposed	targeted B 17, target A 18	13104	43.0	
Saukville Substation: Install parallel breaker on line 8222	2020	2020	5	reliability (P2.1)	Provisional	--	--	<10	
SE WI Economic Development Interconnection Project	2020***	2020	5	T-D Interconnection	Proposed	target B 18	--	TBD	
Southeastern Wisconsin Northeastern Illinois Reinforcement Project	ASAP***	2021	5	reliability(P7.1)	Proposed	A	8065	52.0	Was 2020
Port Washington - Saukville: Rebuild Line 762 to a double circuit	2021	2021	5	reliability (P2.4, P7.1)	Proposed	A	9986	18.0	
Lakota Rd to Winona 138-kV Conversion	2021***	2021	2	reliability (prior + P1.2), condition	Provisional	B	8089	100.0	
Eaton Substation, new T-D interconnection	2022***	2022	4	T-D Interconnection	Proposed	A	10484	<10	

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Shoto - Mirro - Northeast 69 kV line K-11, uprate	2022***	2022	4	reliability (69P1.2)	Proposed	target A 18	--	<10	
Portage-Trienda 138-kV uprate X-67	2022**	2022	3	reliability (69P1.2)	Planned	A	1624	2.0	Was 2018
Arcadian Substation: install redundant bus differentials on 345-kV and 138-kV buses	2023	2023	5	reliability (stability E2.D)	Provisional	--	--	<10	
Granville Substation: install redundant bus differentials on 345-kV and 138-kV buses	2023	2023	5	reliability (stability E2.D)	Provisional	--	--	<10	
West Middleton - Stagecoach 69 kV line rebuild 6927	2023**	2023	3	reliability (P1.2, P1.3)	Provisional	targeted B 17	12175	3.8	
Plains - National 138-kV project	2023***	2023	2	reliability (various TPL categories)	Provisional	A	8071	124.6	
Plains 345/138-kV project (2-500 MVA replace existing)	2023***	2023	2	reliability (various TPL categories)	Provisional	B	8073	43.7	
Cardinal - Hickory Creek 345-kV line construction	2023***	2023	3	reliability, economics and policy benefits	Proposed	A	3127	1054.8	
Highway V - Preble 138-kV line uprate	>2032	2023	4	reliability (various TPL categories)	Provisional	B	8082	6.0	Was 2020
Morgan - Plains 345-kV loop into new Thunder 345-kV substation.	2023***	2023	4	reliability (various TPL categories)	Provisional	B	8076	105.0	
Morgan - Thunder 138-kV project	2023***	2023	4	reliability (various TPL categories)	Provisional	B	8076	105.0	
Thunder Substation: install 345/138-kV and 138/69-kV transformers, convert 1 ckt of Thunder to Crivitz to 138-kV	2023***	2023	4	reliability (various TPL categories)	Provisional	B	8076	105.0	
Bayridge Substation, new T-D interconnection	2024***	2024	4	T-D Interconnection	Proposed	A	10485	<10	
Winona - Atlantic 69-kV line rebuild Winona69	>2032	2024	2	reliability (69 prior + P1.2)	Provisional	--	4727	28.1	
Colley Road Substation: Install 2nd 100 MVA 138/69kV transformer	>2032	2025	3	reliability (69P1.2, 69P2.1, 69P1.3)	Provisional	B	7585	9.9	Was 2023
Aviation - North Fond du Lac 138-kV rebuild G-111	>2032	2025	4	reliability (P3.2)	Provisional	--	--	10-25	
Gran Grae Substation: Install a second 161/69 kV transformer	2026	2026	3	reliability (69P1.3)	Provisional	--	--	<10	
Portage - Columbia 138-kV line rebuild X-13	2018	2027	3	reliability (P1.2)	Provisional	--	4730	5.9	
Portage - Columbia 138-kV line rebuild X-20	2018	2027	3	reliability (P1.2)	Provisional	--	4730	5.9	
Construct Cardinal-Blount 138-kV line	2032	2029	3	reliability (P6)	Provisional	--	1730	60.8	
<b>Legend</b>									
* = dates based on approved project scope ISDs									
** = SBRM Study Need Year									
*** = Other Major Project Study need year									
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									