

ATC 2018 10-Year Assessment (TYA) Preliminary Asset Renewal Continuing Solutions

Continuing Asset Renewal Condition Need	Scope	2017 Projected In-Service Year	2018 Projected In-Service Year	Project Status	Planning Zone	MISO MTEP 18 Appendix Status	MTEP PRJID	MTEP Cost or Cost Range (M\$)	Length (Miles)	Connected Load (MW)	Network Type
Pine River-Hiawatha 69kV line (ESE_6908) Partial Rebuild	Replace select poles and cross arms	2019	2020	Planned	2	Targeted A	13773	<10	10.9/48.2	<10	Network
Whitcomb 115/69-kV T31 & Caroline 115/69-kV T31 Transformers	Replacement	2020	2021	Provisional	1	Targeted A	14987 / 14986	10-25	--	<10	--
Sheepskin - Stoughton 69 kV line (Y12) Rebuild	Rebuild	2020	2021	Planned	3	A	7600	10.8	6.2/8.3	0	Network
Plover - Whiting Avenue 115kV line (B-106) Rebuild	Rebuild	2018	2018	Planned	1	A	9423	6.2	4.5/5.8	20-30	Network
Rebuild Waupun 69 kV Substation	Add line terminal	2018	2018	Planned	3	A	12100	4.2	--	20-30	--
Munising-Blanney Park 69kV line (Inland) Rebuild	Partial Rebuild	2019	2019	Planned	2	A	3096	17	21.9/52.9	<10	Radial
Replace Nelson Dewey 138/69 kV T31/T32 Transformers	Replacement	2019	2019	Planned	3	A	9961	4.8	--	<10	--
Lone Rock - Boscobel 69kV line (Y124) Rebuild	Rebuild	2019	2019	Planned	3	A	7583	32.4	28.8/28.8	20-30	Network
Ohmstead - Cedar Ridge 138kV line (X-2) Rebuild	Rebuild	2019	2019	Planned	4	A	12150	6.9	4.5/4.5	0	Network
Replace Lost Dauphin 138/69 kV T1 Transformer	Replacement	2019	2019	Planned	4	A	9954	6.7	--	<10	--
Rebuild Racine 345kV Bus	Bus reconfigure	2019	2019	Planned	5	Targeted A	9991	12	--	>50	--
Edgewood -St Martins 138 kV line (3013) Rebuild	Rebuild	2019	2019	Planned	5	A	3510	23.1	7.1/7.1	30-40	Network
Edgewood - Mukwonago 138kV line (671K61) Rebuild	Rebuild and add breaker	2019	2019	Planned	5	A	3510	23.1	7.1/7.1	30-40	Network
Wild Rose - Harrison 69kV (Y19) Partial Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles and cross-arms show decay, deterioration and woodpecker activity. -Rebuild 15.0 miles of 21.0 mile line. -1950's vintage original construction.	2020	2020	Planned	1	Targeted A	12147	10-25	15/21.0	10-20	Network
Wautoma - Wild Rose 69kV (Y180) Partial Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles and cross-arms show decay, deterioration and woodpecker activity. -Rebuild 6.0 miles of 10.5 mile line. -1950's vintage original construction.	2020	2020	Planned	1	Targeted A	13770	5.5	6.0/10.5	10-20	Network
Saratoga - Coyne 115kV line (T-72) Rebuild	Rebuild	2020	2020	Planned	1	A	12178	6.6	6.3/6.3	10-20	Network
Portage - Staff 138kV line (X-6) Rebuild	Rebuild	2020	2020	Planned	3	A	9968	17.1	14/16.5	<10	Network
Staff - North Randolph 138kV line (X-98) Rebuild	Rebuild	2020	2020	Planned	3	A	9974	7.4	5.7/6.3	10-20	Network
Rebuild 69kV Dane - Waunakee SW Station 69kV line (Y143) Rebuild	Rebuild	2020	2020	Planned	3	A	12177	7	4.7/6.8	10-20	Network
Cedar Ridge Wind - Mullet River 138kV line (X-97) Rebuild	Rebuild	2020	2020	Planned	4	A	12148	22.8	17/23.6	<10	Network
Edgewater SS, 345 kV Bus Reconfiguration	Bus Reconfigure	2020	2020	Planned	4	Targeted B	13756	10.3	--	10-20	--
Goodman - Caldron Falls 69kV line (J-88) Rebuild	Rebuild	2020	2020	Planned	4	A	9977	35	21.8/23.9	<10	Radial
Redwood - First Ave 69-kV line (T-46), Underground Transmission Section	Replace underground cable	2020	2020	Planned	4	--	--	<10	0.4/0.84	0	Network
Chaffee Creek - Lincoln Pump Station 69 kV line (Y18) Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles and cross-arms show decay, deterioration and woodpecker activity. -Rebuild 9.0 miles of 13.6 mile line. -1950's vintage original construction.	2021	2021	Planned	1	Targeted A	10486	12.5	9.0/13.6	<10	Network
Wautoma - Chaffee Creek 69kV line (Y49) Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles and cross-arms show decay, deterioration and woodpecker activity. -Rebuild 11.7 miles of 13.1 mile line. -1950's vintage original construction.	2021	2021	Planned	1	Targeted A	7764	15.7	11.7/13.1	<10	Network
Academy - North Randolph 138kV line (X-5) Re-insulate	Re-insulate	2021	2021	Provisional	3	--	--	<10	TBD/3.9	<10	Network
Lodestar - Erdman 138kV line (X-48), Underground Transmission Section	Replace underground cable	2021	2021	Provisional	4	--	--	<10	TBD/4	0	Network
Finger Rd - Canal 69kV line (J-10) Rebuild	Rebuild	2021	2021	Planned	4	A	8841	60.7	54.8/61.7	30-40	Network
Butte des Morts - Sunset Point 138kV lines (40321), (80952),(A-79), (MCRG21) Rebuild	Rebuild	2021	2021	Planned	4	A	12185	20.6	12.2/13.2	>50	Network
Granville 345/138 kV T3 Transformer	Bus reconfigure	2021	2021	Provisional	5	--	--	<10	--	>50	--
Paris - Burlington 138kV line (8962) Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles show decay, deterioration. -Rebuild 13.5 mile line. -1950's vintage original construction.	2021	2021	Planned	5	Targeted A	13732	12.6	13.5/13.5	10-20	Network
Replace Erdman 138/69 kV T31 Transformer	Replacement	2022	2022	Planned	4	A	9944	1.3	--	10-20	--
Edgewater - Erdman 69kV line (Y31) Underground Transmission Section	Replace underground cable	2022	2022	Provisional	4	--	--	<10	TBD/9.4	0	Network
Danz - Finger Rd 69 kV line (L64) Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles show decay and deterioration. -Rebuild 3.1 miles of 3.3 mile line. -1940's and 1950's vintage original construction.	2022	2022	Planned	4	Targeted A	12141	4.2	3.1/3.3	10-20	Network

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Finger Rd - Hwy V 69kV line (U-47) Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles show decay, deterioration and woodpecker damage. -Rebuild 0.81 miles. -1940's vintage original construction.	2022	2022	Planned	4	Targeted A	12140	1.5	0.81/0.81	0	Network
Hwy V - Oak St 69kV line (Z-26) Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles and cross-arms show decay and deterioration. -Rebuild 6.2 miles. -1950's vintage original construction.	2022	2022	Planned	4	Targeted A	12137	12	6.2/6.2	<10	Network
New Holstein - Custer 69 kV line (P-68) Rebuild	Rebuild	2022	2022	Provisional	4	Targeted A	7584	26	21.6/21.6	10-20	Network
Manrap - Wesmark 69KV line (R-44) Rebuild	Rebuild	2022	2022	Provisional	4	Targeted A	12135	21	19.7/19.7	20-30	Network
Finger Rd SW Station - Wesmark 69KV line (FIRY11) Rebuild	Rebuild	2022	2022	Provisional	4	Targeted A	12134	14.5	11/11	10-20	Network
Arcadian 345/138 kV T2 & T3 Transformers	Bus reconfigure	2022	2022	Provisional	5	--	--	10-25	--	>50	--
St. Lawrence – Barton 138kV line (8032) Partial Rebuild	-Line inspection reports indicate line requires rebuild to continue reliable operation. -Wood poles show decay, deterioration. -Rebuild 8.3 miles of 13.1 mile line. -1950's vintage original construction.	2022	2022	Planned	5	Targeted A	13735	9.8	8.3/13.1	10-20	Network
Barton – Auburn 138kV line (9752) Partial Rebuild	-Line inspection reports indicate wood H-Frame segment of the line requires rebuild to continue reliable operation. -Wood poles show decay and deterioration. -Rebuild 6.9 miles of 11.7 mile line. -1950's vintage original construction.	2022	2022	Planned	5	Targeted A	13743	8.1	6.9/11.7	0	Network
Lincoln - McKenna 69kV line (Y145) Rebuild	Rebuild	2023	2023	Provisional	1	Initiating request to be Targeted A	7765	<10	TBD/12.1	10-20	Network
Mckenna - Castle Rock 69kV line (Y47) Rebuild	Rebuild	2023	2023	Provisional	1	Initiating request to be Targeted A	7763	10-25	TBD/8.5	<10	Network
North Lake – Greenstone 69kV line (NLKY11) Rebuild	Rebuild	2023	2023	Provisional	2	--	--	10-25	TBD/9.7	<10	Radial
Portage - 9 Mile 69kV lines (6901/6902) Re-insulate	Re-insulate	2023	2023	Provisional	2	--	--	<10	TBD/9	10-20	Network
Gwinn- KI Sawyer 69kV line (Sawyer) Re-insulate	Re-insulate	2023	2023	Provisional	2	--	--	<10	TBD/5.6	<10	Radial
Chandler-Delta (UPPCO) 69kV line (Delta 1) Partial Rebuild	Replace select poles and re-insulate	2023	2023	Provisional	2	--	--	<10	TBD/5.6	0	Network
Hillman - Falcon 138kV line (X-14) Rebuild	Rebuild	2023	2023	Provisional	3	Initiating request to be Targeted A	4726	16.7	12.4/12.4	0	Network
Falcon - Darlington 138kV line (X101) Rebuild	Rebuild	2023	2023	Provisional	3	Initiating request to be Targeted A	4726	16.7	6.4/6.4	0	Network
South Fond Du Lac SW YD – Spring Brook Road 69kV line (Y133) Rebuild	Rebuild	2023	2023	Provisional	3	Targeted B	13739	>25	TBD/23.7	20-30	Network
Academy - Columbus 69kV line (Y21) Rebuild	Rebuild	2023	2023	Provisional	3	B	10590	<10	TBD/16.5	<10	Network
Danz Ave – University (WPS) 69-kV line (O-15) Underground Transmission Section	Replace underground cable	2023	2023	Provisional	4	--	--	10-25	TBD/13.3	<10	Network
Summit -Cooney 138kV line (6431) Rebuild	Rebuild	2023	2023	Provisional	5	--	--	<10	TBD/3.6	0	Network
South Beaver Dam - Horicon 69kV line (Y134) Rebuild	Rebuild	2024	2024	Provisional	3	--	--	10-25	TBD/20.8	10-20	Network
Conover-Mass 69kV line (6530) Partial Rebuild	Rebuild	2025	2025	Provisional	2	--	--	<10	TBD/57.6	10-20	Network
9 Mile SW STA - Pine River 69kV lines (6921/23) Partial Rebuild	Replace select poles, cross arms, and reinsulate	2025	2025	Provisional	2	--	--	<10	TBD/19.6	<10	Network
Blaney Park SW STA – Mich. Limestone Quarry Tap 69kV line (6914) Partial Rebuild	Replace select poles, cross arms, and reinsulate	2025	2025	Provisional	2	--	--	<10	TBD/3.6	<10	Radial
Replace East Krok 138/69 kV T1 Transformer	Replacement	2025	2025	Provisional	4	A	9958	<10	--	10-20	--
University-Whitewater 138kV line (UNIG51) Rebuild	Rebuild	2025	2025	Provisional	5	--	--	10-25	TBD/6.3	0	Network
University - Mukwonago 138kV line (UNIG52) Rebuild	Rebuild	2025	2025	Provisional	5	--	--	>25	TBD/22.8	0	Network
Darlington – Rock Branch 69kV line (Y109) Rebuild	Rebuild	2026	2026	Provisional	3	--	--	10-25	TBD/14.1	0	Network
Retire Lone Rock 69-kV Phase Shifter	Retirement	2026	2026	Provisional	3	--	--	<10	--	<10	--

Legend
No Shading = No change to project since previous Assessment
Gray Shading = some change (e.g. In-service year or scope) since previous Assessment