

**ATC 2017 10-Year Assessment (TYA) Preliminary Asset Renewal Solutions**

	A	B	C	D	E	F	G	H	I
1	Asset Renewal Need	Scope	2017 TYA Projected In-Service Year	Planning Zone	Project Status	MISO MTEP 17 Appendix Status	MTEP PRJID	MTEP Cost or Preliminary Cost Range (M\$)	Comment
2	Mount Horeb 69-kV Substation	Replace circuit breaker, install new circuit breaker, replace relays, relocate line terminals	2017	3	Proposed	Targeted A	12903	2.3	
3	Arpin 345/138/115-kV Substation	Replace control building, relays, RTU, instrument transformers, capacitor bank breaker	2019	1	Proposed	--	--	<10	
4	Shoto 138/69-kV T2	Replacement	2020	4	Proposed	--	--	<10	
5	Lost Dauphin 138/69-kV T1	Replacement	2019	4	Proposed	A	9954	6.7	was 2018
6	Ohmstead - Cedar Ridge Wind Generation 138-kV line X2	Rebuild	2019	4	Planned	Targeted A	12150	6.9	was 2018
7	Glenview 138/69-kV T1	Replacement	2020	4	Proposed	--	--	<10	was 2019
8	Erdman 138/69-kV T31	Replacement	2021	4	Proposed	A	9944	6	was 2018
9	East Krok 138/69-kV T1	Replacement	2025	4	Proposed	A	9958	<10	was 2017
10	Whiting Avenue-Plover 115-kV line B-106	Rebuild	2018	1	Planned	A	9423	6.2	
11	North Point - Rocky Run 115-kV line T-20	Partial Rebuild	2019	1	Provisional	--	--	<10	
12	Rocky Run 345/115 kV T1, T2, and T4	Install Transformer Monitoring	2019	1	Proposed	B	8443	<10	
13	Whitcomb 115/69-kV T31	Replacement	2020	1	Proposed	--	--	10-25	
14	Caroline 115/69-kV T31	Replacement	2020	1	Proposed	--	--		
15	Wild Rose Pumping Station - Harrison 69-kV line Y19	Rebuild	2020	1	Provisional	Targeted B	12147	35.2	
16	Coyne - Saratoga 115-kV line T-72	Rebuild	2020	1	Planned	Targeted A	12178	6.6	
17	Petenwell - Saratoga 138-kV line X-43	Replace select poles	2020	1	Provisional	--	--	<10	
18	Coyne - Plover 115-kV line J-114	Replace select poles	2020	1	Provisional	--	--	<10	
19	Lincoln Pump Sta. - Chaffee Creek 69-kV line Y18	Rebuild	2021	1	Provisional	B	10486	10-25	
20	West Wisconsin Rapids – Sigel 69-kV line Y45	Rebuild	2021	1	Provisional	B	8263	18.7	
21	Wautoma – Chaffee Creek 69-kV line Y49	Rebuild	2021	1	Provisional	B	7764	10-25	
22	Lincoln Pump Sta. - McKenna 69-kV line Y145	Rebuild	2023	1	Provisional	B	7765	<10	
23	McKenna - Castle Rock 69-kV line Y47	Rebuild	2023	1	Provisional	B	7763	10-25	
24	Munising-Blanney Park 69-kV line Inland	Partial Rebuild	2017	2	Planned	A	3096	13	
25	Munising - Gwinn 69-kV line (Autrain line) – Double circuited portion with Munising 138	Reinsulate, add arresters, replace select poles	2017	2	Planned	--	--	<10	
26	Munising-Gwinn 69-kV line (Autrain line) – Single circuit portion	Reinsulate, add arresters, replace select poles	2017	2	Planned	--	--	<10	
27	9 Mile-Detour 69-kV line 6950	Partial Rebuild	2017	2	Planned	A	10404	7	
28	Nine Mile 69-kV Substation	Add MOD	2018	2	Proposed	--	--	<10	
29	Pine River-Hiawatha 69-kV line ESE_6908	Replace select poles and cross arms	2018	2	Planned	--	--	<10	
30	North Lake – Greenstone 69-kV line NLKY11	Rebuild	2023	2	Provisional	--	--	10-25	
31	Portage - 9 Mile 69-kV lines 6901/6902	Reinsulate	2023	2	Provisional	--	--	<10	
32	Gwinn- KI Sawyer 69-kV line Sawyer	Reinsulate	2023	2	Provisional	--	--	<10	
33	Chandler-Delta (UPPCO) 69-kV line Delta 1	Replace select poles and reinsulate	2023	2	Provisional	--	--	<10	
34	Conover-Mass 69-kV line 6530	Replace select poles and reinsulate	2025	2	Provisional	--	--	<10	
35	9 Mile SW STA - Pine River 69-kV lines 6921/23	Replace select poles, cross arms, and reinsulate	2025	2	Provisional	--	--	<10	
36	Blanney Park SW STA – Mich. Limestone Quarry Tap 69-kV line 6914	Replace select poles, cross arms, and reinsulate	2025	2	Provisional	--	--	<10	

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37	Portage - Dam Heights 69-kV line Y16	Rebuild	2017	3	Planned	A	3813	33.7	
38	Kegonsa - Sun Prairie 69-kV line Y81	Partial Rebuild	2017	3	Planned	A	10403	5	
39	Nelson Dewey 138/69 kV T31 & T32	Replace T31; Retire T32	2019	3	Proposed	A	9961	6	
40	Boscobel - Lone Rock 69-kV line Y124	Rebuild	2019	3	Planned	A	7583	41.9	
41	Portage – Staff 138-kV X6	Rebuild	2019	3	Planned	Targeted A	9968	17.1	
42	Staff – North Randolph 138-kV X98	Rebuild	2019	3	Planned	Targeted A	9974	7.4	
43	Sheepskin – Stoughton 69-kV line Y12	Rebuild	2020	3	Planned	Targeted A	7600	10.8	
44	Dane - Waunakee 69-kV line Y143	Rebuild	2020	3	Planned	Targeted A	12177	7	
45	Academy – North Randolph 138-kV line X5	Reinsulate	2021	3	Provisional	--	--	<10	
46	Darlington – Hillman 138-kV line X14	Rebuild	2023	3	Provisional	--	4726	16.7	
47	South Fond Du Lac SW YD – Spring Brook Road 69-kV line Y133	Rebuild	2023	3	Provisional	--	--	>25	
48	Academy – Columbus 69-kV line Y21	Rebuild	2023	3	Provisional	B	10590	<10	
49	South Beaver Dam - Horicon 69-kV line Y134	Rebuild	2024	3	Provisional	--	--	10-25	
50	Lone Rock 69-kV Phase Shifter	Retire	2026	3	Proposed	--	--	<10	
51	Waupun 69-kV Substation	Add line terminal	2018	4	Proposed	Targeted A	12100	4.2	
52	Howard - Pulliam 138-kV line D-82	Replace select poles	2019	4	Proposed	--	--	<10	
53	Cedar Ridge Wind Generation - Mullet River 138-kV line X97	Rebuild	2019	4	Planned	Targeted A	12148	22.8	
54	Edgewater 345-kV Substation	Bus reconfigure	2020	4	Proposed	--	--	10-25	
55	Goodman - Caldron Falls 69-kV line J-88	Rebuild	2020	4	Planned	A	9977	35	
56	Redwood – First Ave line 69-kV line T-46	Replace underground cable	2020	4	Provisional	--	--	<10	
57	Lodestar – Erdman line 138-kV line X-48	Replace underground cable	2021	4	Provisional	--	--	<10	
58	Finger Road -Canal 69-kV line J-10	Rebuild	2021	4	Planned	A	8841	60.7	
59	Neevin - Butte Des Morts 138-kV line 43021	Rebuild	2021	4	Planned	Targeted A	12185	20.6	Cost is for all lines associated with MTEP PID 12185
60	Pioneer - Sobieski 69-kV line E-83 Tap	Rebuild	2021	4	Provisional	Targeted B	12144	14.4	
61	Sobieski - Bayport 69-kV line T-98	Rebuild	2021	4	Provisional	Targeted B	12143	15	
62	Sunset Point - Mears - Woodenshoe - Neevin 138-kV lines A-79, MCRG21 and 80952	Rebuild	2021	4	Planned	Targeted A	12185	20.6	Cost is for all lines associated with MTEP PID 12185
63	Edgewater – Erdman line 69kV line Y-31	Replace underground cable	2022	4	Provisional	--	--	<10	
64	Danz - Finger Road 69-kV line L-64	Rebuild	2022	4	Planned	Targeted B	12141	4.2	
65	Finger Road - Highway V 69-kV line U-47	Rebuild	2022	4	Planned	Targeted B	12140	1.5	
66	Highway V - Oak Street 69-kV line Z-26	Rebuild	2022	4	Planned	Targeted B	12137	12	
67	Custer - New Holstein 69-kV line P-68	Rebuild	2022	4	Provisional	B	7584	16	
68	Manrap - Wesmark 69-kV line R-44	Rebuild	2022	4	Provisional	Targeted B	12135	17	
69	Finger Road SW STA – Wesmark 69-kV line FIRY11	Rebuild	2022	4	Provisional	Targeted B	12134	12.8	
70	Danz Ave – University (WPS) 69-kV line O-15	Replace underground cable	2023	4	Provisional	--	--	10-25	
71	Racine 345-kV Substation	Bus reconfigure	2019	5	Proposed	B	9991	10-25	
72	St. Martins - Edgewood 138-kV line 3013	Rebuild	2019	5	Planned	A	3510	23.1	Cost is for all lines associated with MTEP PID 3510
73	Edgewood - Mukwonago 138-kV line 671K61	Rebuild and add breaker	2019	5	Planned	A	3510	23.1	Cost is for all lines associated with MTEP PID 3510
74	Granville 345/138-kV T3	Bus reconfigure	2021	5	Proposed	--	--	10-25	

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75	Paris – Burlington 138-kV line 8962	Rebuild	2021	5	Provisional	--	--	10-25	
76	Arcadian 345/138-kV T2&T3	Bus reconfigure	2022	5	Provisional	--	--	10-25	
77	St. Lawrence – Barton 138-kV line 8032	Rebuild	2022	5	Provisional	--	--	<10	
78	Barton – Auburn 138-kV line 9752	Rebuild	2022	5	Provisional	--	--	<10	
79	Summit -Cooney 138-kV line 6431	Rebuild	2023	5	Provisional	--	--	<10	
80	Mukwonago-Whitewater 138-kV line 77353	Rebuild	2025	5	Provisional	--	--	>25	
81									
82									
83	<b>Legend</b>								
84	No Shading = No change to project since previous Assessment								
85	Orange Shading = new project, was not in previous Assessment project list								
86	Gray Shading = In-service year change								