

2014 10-Year Assessment Preliminary Network Project List

	A	B	C	D	E
1	System Addition	Preliminary Network Need Year	Preliminary Projected In-Service Year	Planning Zone	Comment
2	Install power flow control near Straits 138-kV Substation	2010	2014	2	U.P. Collaborative
3	Construct Old Mead Rd-Chandler double circuit 138-kV lines and operate at 138/69	2014	2014	2	Part of Old Mead Rd - Chandler project (Old Mead Rd fka 18th Road)
4	Construct Old Mead Rd 138/69-kV Substation and install one 138/69-kV transformer	2014	2014	2	Part of Old Mead Rd - Chandler project (Old Mead Rd fka 18th Road)
5	Install 2-4.08 Mvar 69-kV capacitor banks at Old Mead Rd	2014	2014	2	Part of Old Mead Rd - Chandler project (Old Mead Rd fka 18th Road)
6	Rebuild Straits-Pine River lines 6904/5 for 138 kV and operate at 69 kV	2014	2014	2	U.P. Collaborative
7	Paddock - Town Line Road 138-kV single circuit rebuild X-39	2014	2014	3	
8	Omro - Berlin 69-kV line rebuild Y-80	2014**	2014	1	SBRM Project
9	Kenosha - Lakeview 138-kV line rebuild 9341	2014**	2014	5	SBRM Project
10	Nicholson - Barland 138-kV line rebuild OACG48	2014**	2014	5	SBRM Project
11	Oak Creek - Ramsey 138-kV line re-conductor 824	2014**	2014	5	SBRM Project
12	Albers - Kenosha 138-kV line re-conductor 9352	2014**	2014	5	SBRM Project
13	Branch - Kansas 138-kV line uprate 42152	2014**	2014	5	SBRM Project
14	Paddock - Shaw 69-kV line rebuild Y-54	2014**	2014	3	SBRM Project
15	Presque Isle Substation: Install redundant bus differentials on 138-kV buses	2014***	2014	2	Project developed as a result of the NERC Category C.9 analysis
16	Saukville Substation: Install redundant bus differentials on 138-kV buses	2014***	2014	5	Project developed as a result of the NERC Category C.9 analysis
17	Portage Substation: Install redundant bus differentials on 138-kV buses	2014***	2014	3	Project developed as a result of the NERC Category C.9 analysis
18	Reconfigure 138-kV bus and replace 138/69-kV transformer at Petenwell	2015*	2014	1	
19	Install 1-8.16 Mvar capacitor bank at Boscobel 69-kV Substation and upgrade existing 5.4 Mvar bank with an 8.16 Mvar bank	2015*	2014	3	
20	Katzenberg Substation: Install two circuit breakers	2014	2014	3	
21	Construct Monroe County-Council Creek 161-kV line and Timberwolf 69-kV switching station	2013	2015	1	
22	Install a 161/138-kV transformer at Council Creek Substation	2013	2015	1	Part of Monroe County-Council Creek project
23	Uprate Council Creek-Petenwell 138-kV line	2013	2015	1	Part of Monroe County-Council Creek project
24	Construct a new Arnold 345-kV Substation and install a 345/138-kV transformer	2015	2015	2	U.P. Collaborative
25	Blaney Park 69-kV Substation: Reconfiguration	2015	2015	2	UP Collaborative
26	Construct 138-kV lines to serve Milwaukee County T-D interconnection	2015	2015	5	T-D interconnection
27	96th St Substation: Construct a 138-kV 8-position ring bus	2015*	2015	5	Part of the Zoo Interchange Project
28	Castle Rock-Mckenna 69-kV line uprate Y-47	2015**	2015	1	SBRM Project
29	Chaffee Creek - ACEC Coloma Tap 69-kV line rebuild Y-18	2015**	2015	1	SBRM Project
30	Empire - Presque Isle 138-kV line uprate Goose Lake	2015**	2015	2	SBRM Project
31	Rock Springs - Artesian 138-kV line rebuild X-70	2016**	2015	3	SBRM Project
32	Crystal Falls - Aspen 69-kV line re-conductor ASPY51	2016**	2015	2	SBRM Project
33	Uprate the 6986 Royster to Sycamore 69-kV line	2016**	2015	3	SBRM Project

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34	Fitchburg - Nine Springs 69-kV line rebuild 6943	2016**	2015	3	SBRM Project
35	Pflaum - Royster 69-kV line rebuild 6934	2016**	2015	3	SBRM Project
36	Rock Springs Tap - Kirkwood 138-kV line uprate X-70	2016**	2015	3	SBRM Project
37	Uprate Y87 North Monroe-South Monroe 69-kV line	2018**	2015	3	SBRM Project
38	Fitzgerald Substation: Install 2nd 345/138-kV transformer	2016*	2016	4	
39	Fitzgerald - Sunset Point 138-kV uprate C-107	2016*	2016	4	Part of Fitzgerald 2nd Transformer Project
40	Fitzgerald - Ellinwood 138-kV uprate W-101	2016*	2016	4	Part of Fitzgerald 2nd Transformer Project
41	Morrison Ave - Sherman 115-kV line re-conductor Z-52	2016**	2016	1	SBRM Project
42	Wautoma - Wild Rose Pumping 69-kV line rebuild Y-19	2016**	2016	1	SBRM Project
43	Rocky Run - Plover 115-kV line uprate S-45	2016**	2016	1	SBRM Project
44	Rebuild the Y-119 Sun Valley Tap to Oregon 69-kV line	2016**	2016	3	SBRM Project
45	Danz Ave - University 69-kV line rebuild O-15	2016**	2016	4	SBRM Project
46	Oak Creek-Pennsylvania 138-kV line re-conductor 837	2016**	2016	5	SBRM Project
47	Oak Creek-Bluemound 230-kV line re-conductor 873	2016**	2016	5	SBRM Project
48	Oak Creek - St. Rita 138-kV line re-conductor 885	2016**	2016	5	SBRM Project
49	Ramsey - Barland 138-kV line re-conductor NWHG41	2016**	2016	5	SBRM Project
50	Port Washington - Saukville 138-kV line re-conductor 742	2016**	2016	5	SBRM Project
51	Port Washington - Saukville 138-kV line re-conductor 762	2016**	2016	5	SBRM Project
52	Racine - St. Rita 138-kV line uprate 8531	2016**	2016	5	SBRM Project
53	Racine - Oak Creek 138-kV line re-conductor 812	2016**	2016	5	SBRM Project
54	Bain - Albers 138-kV line uprate 63143	2016**	2016	5	SBRM Project
55	Granville - Tamarack 138-kV line rebuild 3444	2016**	2016	5	SBRM Project
56	Oak Creek-Bluemound 230-kV line re-conductor 862	2016**	2016	5	SBRM Project
57	McCue - Lamar 69-kV line rebuild Y-171	2016**	2016	3	SBRM Project
58	Stagecoach - Wick Drive 69-kV line rebuild Y-62	2016**	2016	3	SBRM Project
59	Pulliam - Glory Road 138-kV line conversion K-115	2016***	2016	4	Conversion project consists of network upgrades needed for Green Bay load increase
60	Pulliam Substation: Install a new 138/69-kV transformer	2016***	2016	4	Part of Pulliam - Glory Road Conversion
61	Glory Road Substation: Install a new 138/69-kV transformer	2016***	2016	4	Part of Pulliam - Glory Road Conversion
62	Beardsley St. Substation: Install 3 69-kV line breakers to sectionalize 69-kV circuit J-10	2016***	2016	4	Enhance operational flexibility
63	Brillion Iron Works: 138/69-kV Substation construction and Glenview-Brillion Iron Works 69-kV line extension	2016*	2016	4	
64	Bay Lake: Holmes - Old Mead Road 138-kV project	ASAP***	2016	2	
65	Munising-Seney-Blaney Park 69-kV uprate and asset renewal	2016***	2016	2	UP Collaborative

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66	Waunakee - Westport 69-kV line rebuild Y-131	2017**	2017	3	SBRM Project
67	Canal Substation: Install redundant bus differentials on 138-kV buses	2017***	2017	4	Project developed as a result of the NERC Category C.9 analysis
68	Canal Substation: Install 138-kV and 69-kV breakers on 138/69-kV transformers	2017***	2017	4	
69	Highway V Substation: Install 138-kV and 69-kV breakers on 138/69-kV transformers	2017***	2017	4	
70	Branch River Substation: Construct new 345-kV switching station	2018	2018	4	
71	Point Beach Substation: Install new series 345-kV breaker for circuit Q-303	2018	2018	4	
72	Construct Fairwater-Mackford Prairie 69-kV line	>2029	2018	1	
73	Reconfigure the North Randolph-Ripon 69-kV line to form a second Ripon-Metomen 69-kV line and retire the circuit between Metomen and the Mackford Prairie tap	>2029	2018	1	
74	Rebuild Y-32 Colley Road-Brick Church 69-kV line	2018*	2018	3	
75	North Fond Du Lac - Metomen 69-kV line uprate Y-27	2018**	2018	1	SBRM Project
76	Uprate 6927 West Middleton-Stage Coach 69-kV line	2018**	2018	3	
77	Uprate X-67 Portage-Trienda 138-kV line	2018**	2018	3	SBRM Project
78	Badger Coulee: La Crosse area - North Madison - Cardinal 345-kV line construction	2018***	2018	3	
79	University/Whitewater line reconfiguration	2018**	2018	3	
80	Ogden St. Networking Project: Ogden St. - Bayshore 69-kV line construction	2018*	2018	4	
81	Forest Junction 138kV Substation: Install 25 Mvar inductor	2015	2018	4	
82	Werner West 138kV Substation: Install 25 Mvar inductor	2015	2018	4	
83	Bay Lake: North Appleton - Morgan 345 kV line construction	ASAP***	2019	4	
84	Bay Lake: Morgan - Stiles 138-kV circuit de-bifurcate to form 2 separate 138-kV lines	ASAP***	2019	4	
85	Bay Lake: North Appleton Substation -- Construct new 345-kV switchyard and reconfigure 138-kV switchyard	ASAP***	2019	4	
86	Bay Lake: Morgan Substation -- reconfigure and expand 345-kV and 138-kV switchyards	ASAP***	2019	4	
87	Bay Lake: North Appleton - Morgan 138 kV line construction	ASAP***	2019	4	
88	Uprate Winneconne-Sunset Point 69-kV line Y-103	>2029	2019	1	
89	Presque Isle - Tilden 138 kV line loop into National and uprate National - Tilden 138 kV line	2019	2019	2	
90	Victoria-Winona 69 kV line construction	2019	2019	2	
91	Atlantic Substation: Reconfiguration	2019	2019	2	
92	Construct a new Spring Valley-North Lake Geneva 138-kV circuit	2019	2019	3 & 5	
93	Construct a new 138/69-kV substation on Spring Valley - North Lake Geneva 138-kV circuit	2019	2019	3 & 5	Part of Spring Valley-Lake Geneva Project
94	Construct a new 69-kV circuit from Twin Lakes to the new substation	2019	2019	3 & 5	Part of Spring Valley-Lake Geneva Project
95	Uprate the Bain - Spring Valley 138-kV circuit	2019	2019	3 & 5	Part of Spring Valley-Lake Geneva Project
96	Uprate the Twin Lakes - Katzenberg 69-kV circuit	2019	2019	3 & 5	Part of Spring Valley-Lake Geneva Project

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97	Bunker Hill-Black Brook 115-kV line rebuild	2019**	2019	1	SBRM Project
98	Bay Lake: Benson Lake Substation -- Construct new 138-kV substation and install 150 Mvar SVC (near Amberg Substation)	ASAP	2019	2	
99	Cardinal Bluffs: Dubuque County area - Cardinal 345-kV line construction	2020***	2020	3	
100	Wesmark Substation: Install 2-8 Mvar 69-kV capacitor banks	2020	2020	4	
101	Pine River-9 Mile 6921/6923 Minimum Asset Renewal and Uprate	***	2020	2	
102	Pleasant Prairie - Zion 345-kV line rebuild 2221	2020**	2020	5	SBRM Project
103	Winona - Atlantic 69-kV line rebuild Winona69	2022	2022	2	
104	Install 138/69-kV transformer at Custer Substation	>2029	2022	4	
105	Construct Shoto to Custer 138-kV line	>2029	2022	4	
106	Colley Road substation: Install 2nd 100 MVA 138/69kV transformer	2023	2023	3	
107	Install a second 138/69-kV transformer at Spring Green with a 100 MVA summer normal rating	2025	2024	3	
108	Install 2-24.5 Mvar 138-kV capacitor bank and 1-18 Mvar 69-kV capacitor bank at Brick Church substation	>2029	2025	3	
109	Construct Cardinal-Blount 138-kV line	>2029	2025	3	
110	Portage - Columbia 138-kV line rebuild X-13	2028	2025	3	
111	Portage - Columbia 138-kV line rebuild X-20	2028	2025	3	
112	Rebuild Arcadian-Waukesha 138-kV lines KK9942/KK9962	>2029	2025	5	
113	Center St - South Beaver Dam 69-kV line uprate Y-59	>2029	2026	3	
114	Rebuild West Middleton-Pheasant Branch 69-kV line with double circuits to achieve a 240 MVA SE on each circuit	>2029	2028	3	
115					
116					
117					
118	Legend				
119	* = dates based on approved project scope ISDs				
120	** = SBRM Study Need Year				
121	*** = Other Major Project Study need year				
122					
123	No Shading = No change to project since previous Assessment				
124	Orange Shading = new project, was not in previous Assessment project list				
125	Gray Shading = some change (e.g. In-service year or scope) since previous Assessment				

2014 10-Year Assessment Preliminary Cancellations

System Addition	Previous Assessment Projected In-Service Year	Planning Zone
Whitewater - University 138-kV line uprate 4453	2016	3
University - Sugar Creek 138-kV line uprate 6552	2018	3
Install a second 100 MVA 138/69 kV transformer at Hillman Substation	2018	3
Replace two existing 345/138-kV transformers at Arcadian Substation with 2-500 MVA transformers	2020	5
Replace two existing 138/69-kV transformers at Glenview Substation with 100 MVA transformers	2025	4