

ATC 2011 10-Year Assessment Preliminary Solutions

	A	D	E	F	I	J	S	AG
	System Additions	2011 TYA Network Need Year	2010 TYA Projected In-service Year	2011 TYA Projected In-Service Year	Planning Zone	Need Category	Planned, Proposed or Provisional	CA/CPCN ?
1								
2	Upgrade McKenna 6.3 MVAR capacitor bank to 15.3 MVAR and upgrade Chaffee Creek 8.1 MVAR bank to 14.4 MVAR	2011	2011	2011	1	reliability (69B2, 69B3)	Proposed	N
3	Install 69-kV bus tie breaker at Delta Substation		2011	2011	2	reliability (C1), operating flexibility	Proposed	N
4	Reconfigure Kewaunee 345/138-kV switchyard and install a second 500 MVA 345/138-kV transformer		2011	2011	4	reliability (C3), condition	Proposed	Y
5	Construct 115-kV line from new Woodmin Substation to the Clear Lake Substation	2012	2012	2012	1	T-D interconnection	Proposed	Y
6	Uprate overhead portions of Straits-McGulpin 138-kV circuits #1 & #3 to 230 F degree summer emergency ratings		2014	2012	2	reliability (B2)	Proposed	N
7	Install second 138/69-kV transformer and a 138-kV ring bus at Chandler Substation		2012	2012	2	reliability (69B3)	Proposed	N
8	Replace five 69-kV breakers at Delta Substation		2012	2012	2	stability, operating flexibility	Proposed	N
9	Relocate Engadine 69-kV load	2011	2012	2012	2	reliability (69B2)	Proposed	N
10	Rebuild Y-33 Brodhead to South Monroe 69-kV line	2011*	2011	2011	3	reliability (B2, 69B2, 69B3)	Planned	Y
11	Rebuild 2.37 miles of 69 kV from Sunset Point to Pearl Ave with 477 ACSR	2011	2011	2012	4	reliability (69B2, 69B3)	Planned	N
12	Construct Canal-Dunn Road 138-kV line	2012	2012	2012	4	reliability (69A, 69B2, 69B3, 69C3)	Planned	Y
13	Install 100 MVA 138/69-kV transformer at Dunn Road	2012	2012	2012	4	reliability (69A, 69B2, 69B3, 69C3)	Proposed	Y
14	Rebuild part of the Y-8 Dane-Dam Heights 69-kV line*	>2026	2012	2012	3b	reliability, asset renewal, potential T-D interconnection	Planned	N
15	Construct Monroe County-Council Creek 161-kV line and Timberwolf 69-kV switching station	2013	2013	2013	1	economics, reliability (B2, C3)	Proposed	N
16	Install a 161/138-kV transformer at Council Creek Substation	2013	2013	2013	1	economics, reliability (B2, C3)	Proposed	N

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1								
17	Uprate Council Creek-Petenwell 138-kV line	2013	2013	2013	1	economics, reliability (B2)	Proposed	N
18	Rebuild M38-Atlantic 69-kV line	?	TBD	2013	2	reliability (69B2)	Planned	N
19	Construct 345-kV line from Rockdale to Cardinal	2013*	2013	2013	3	reliability (B2, C5)	Planned	Y
20	Construct a 345-kV bus and install a 345/138 kV 500 MVA transformer at Cardinal Substation	2013*	2013	2013	3	reliability (B2, C5)	Planned	Y
21	Install 2-16.33 MVAR 69-kV capacitor banks at Nine Springs Substation	2008*	2013	2013	3	reliability (69B2)	Proposed	N
22	Uprate Fitchburg-Nine Springs 69-kV and Royster-Pflaum 69-kV lines and move AGA load to the Royster-Femrite 69-kV line	2008*	2013	2013	3	reliability (69B2)	Proposed	N
23	Rebuild Pleasant Prairie 345-kV bus	2013	N/A	2013	5	operating flexibility	Proposed	
24	Rebuild Straits-Pine River lines 6904/5 for 138 kV and operate at 69 kV		2014	2014	2	reliability (B2)	Proposed	N
25	Install power flow control at Straits 138-kV Substation	2010	2014	2014	2	reliability (B1)	Proposed	
26	Energize Hiawatha-Indian Lake at 138 kV		2014	2014	2	reliability (B2)	Proposed	
27	Uprate Munising-Seney-Blanney Park 69-kV line to 167 degrees F		2014	2014	2	reliability (69B2)	Provisional	
28	Construct 18th Road-Chandler double circuit 138-kV lines and operate at 138/69		2014	2014	2	reliability (69B3), economics	Proposed	
29	Construct 18th Road 138/69-kV Substation and install two 138/69-kV transformers		2014	2014	2	reliability (69B3)	Proposed	
30	Install 1-8.16 MVAR 69-kV capacitor banks at 18th Road		2014	2014	2	reliability (69B3)	Proposed	
31	Construct Pleasant Prairie-Zion Energy Center 345-kV line	2017	new	2014	5	economics	Provisional	
32	Reconfigure Petenwell 138-kV bus	2011	2013	2015	1	operating flexibility	Provisional	

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33	Upgrade 4.1 MVAR capacitor bank to 8.2 MVAR and install a new 8.2 MVAR capacitor bank at Ripon 69-kV Substation	>2026	2015	2015	1	reliability (69B2)	Provisional	N
34	Replace Petenwell 138/69-kV transformer	2018	2015	2015	1	reliability (A, 69B2)	Provisional	
35	Construct a new Arnold 345-kV Substation and install a 345/138-kV transformer		2015	2015	2	reliability (B1)	Proposed	
36	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	>2026	2019	2015	3	reliability (69B2)	Provisional	
37	Uprate 6927 West Middleton-Stage Coach 69-kV line to 106 MVA SE	>2026	2015	2015	3	reliability (69B2, 69B3)	Provisional	
38	Install 3-75 MVAR capacitor banks at Bluemound Substation	>2026	2014	2015	5	reliability (B1)	Provisional	N
39	Construct double-circuit 138-kV line to serve Milwaukee County T-D interconnection	2015	new	2015	5	T-D interconnection	Proposed	
40	Replace existing 56 MVA Harrison 138/69-kV transformer with a 100 MVA transformer	>2026	2016	2016	1	reliability (A)	Provisional	
41	Uprate Pine River-Nine Mile 69-kV line 6923 to 167 degrees F and asset renewal for 6921/3		2016	2016	2	reliability (69B2), condition	Proposed	
42	Rebuild Arcadian-Waukesha 138-kV lines KK9942/KK9962	2016	2015	2016	5	reliability (B2)	Proposed	N
43	Replace 138/69-kV transformer at Metomen Substation	2017	2017	2017	1	reliability (A, 69B3)	Proposed	N
44	Uprate Castle Rock-Mckenna 69-kV line	2024	2017	2017	1	reliability (69B2, 69B3)	Provisional	N
45	Construct Fairwater-Mackford Prairie 69-kV line	>2026	2018	2017	1	economics, reliability (69B2)	Provisional	

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46	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	>2026	2018	2017	1	economics, reliability (69B2)	Provisional	Y
47	Construct 69-kV double-circuit line between McCue and Lamar substations	>2026	2017	2019	3	reliability (A, 69B2)	Provisional	N
48	Install 2-24.5 Mvar 138-kV capacitor bank and 1-18 Mvar 69-kV capacitor bank at Brick Church substation	>2026	2017	2017	3b	reliability (69B2)	Provisional	
49	Install a second 138/69-kV transformer at Wautoma Substation	>2026	2018	2018	1	reliability (A, 69B2)	Provisional	N
50	Convert Necedah distribution substation from 69 kV to 138 kV	>2026	2018	2018	1	reliability (69B2, 69B3)	Provisional	N
51	Replace existing Caroline 115/69-kV transformer	>2026	2018	2018	1	reliability (69B3)	Provisional	N
52	Uprate the 6986 Royster to Sycamore 69-kV line to 115 MVA	2018	2019	2018	3	reliability (69B3)	Provisional	N
53	Install a second 100 MVA 138/69 kV transformer at Hillman Substation	>2026	2018	2018	3	reliability (69B2, 69B3)	Provisional	
54	Install a second 138/69-kV transformer at Spring Green with a 100 MVA summer normal rating	>2026	2018	2018	3	reliability (69B3)	Provisional	N
55	Uprate Y87 North Monroe-South Monroe 69-kV line to 115 MVA SE	>2026	2018	2018	3	reliability (69B2)	Provisional	
56	Construct Badger Coulee 345-kV line	2018*	new	2018	3	policy benefits	Provisional	
57	Convert Forest Junction - Howards Grove and a portion of the Howards Grove - Holland 138-kV circuits to 345-kV	2018	N/A	2018	4	new generation	Proposed	Y
58	Barnhart Substation: Construct new 345/138-kV substation with new 500 MVA 345/138-kV transformer	2018	N/A	2018	4	new generation	Proposed	Y
59	Branch River Substation: Construct new 345-kV switching station	2018	N/A	2018	4	new generation	Proposed	Y

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60	Uprate the Edgewater-Cedarsauk 345-kV circuit	2018	N/A	2018	4	new generation	Proposed	Y
61	Construct a new Barnhart - Plymouth - Howards Grove - Erdman 138-kV circuit	2018	N/A	2018	4	new generation	Proposed	Y
62	Point Beach Substation: Install new series 345-kV breaker for circuit Q-303	2018	N/A	2018	4	new generation	Proposed	Y
63	Construct new 138-kV bus and install a 138/69-kV 100 MVA transformer at South Lake Geneva Substation	>2026	2016	2018	3b	reliability (69B2)	Proposed	N
64	Construct new 138-kV line from North Lake Geneva to South Lake Geneva Substation	>2026	2016	2018	3b	reliability (69B2), T-D interconnection	Proposed	N
65	Rebuild Y-32 Colley Road-Brick Church 69-kV line	>2026	2018	2018	3b	reliability (B2, 69B3, 69C5, C3) condition	Provisional	Y
66	Uprate Winneconne-Sunset Point 69-kV line Y-103	>2026	2019	2019	1	reliability (69B2)	Provisional	N
67	Uprate Ripon-Northwest Ripon 69-kV line Y-93	>2026	2019	2019	1	reliability (69B2)	Provisional	N
68	Install 2-16.33 MVAR 69-kV capacitor banks at Eden Substation	>2026	2019	2019	3	reliability (A, B2)	Provisional	N
69	Construct Spring Valley-Twin Lakes-South Lake Geneva 138-kV line		2018	2019	3 & 5	T-D interconnection, reliability (69B2)	Provisional	N
70	Install 2-16.33 Mvar 69-kV capacitor banks at Dam Heights	>2026	2019	2019	3b	reliability (69B2)	Provisional	Y
71	Rebuild the Y-119 Sun Valley Tap to Oregon 69-kV line	>2026	2014	2020	3	reliability, condition (69B3, 69C3)	Provisional	N
72	Construct Dubuque-Spring Green-Cardinal 345-kV line	2020*	new	2020	3	policy benefits	Provisional	

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73	Construct Cardinal-Blount 138-kV line	>2026	2020	2020	3	reliability (C5)	Provisional	
74	Replace two existing 345/138-kV transformers at Arcadian Substation with 1-500 MVA transformer	2023	2015	2020	5	reliability (B3)	Provisional	
75	Install 4-49 MVAR 138-kV capacitor banks at Concord Substation	>2026	2019	2020	3b	reliability (B2)	Provisional	N
76	Construct a Lake Delton-Birchwood 138-kV line	>2026	2020	2020	3b	reliability (B2)	Provisional	
77	Install 2-16.33 Mvar 69-kV capacitor banks at North Monroe	>2026	2018	2021	3	reliability (B2)	Provisional	
78	Install 1-16.33 MVAR 69-kV capacitor bank at Verona Substation	>2026	2018	2021	3	reliability (A, B2, B3)	Provisional	N
79	Construct second Dunn Road-Egg Harbor 69-kV line	2026+	2018	2021	4	reliability (69B2)	Provisional	Y
80	Uprate Oak Creek-Bluemound 230-kV line	2021	new	2021	5	operating flexibility?	Provisional	N
81	Uprate Y159 Brick Church-Walworth 69-kV line to 115 MVA	>2026	2021	2021	3b	reliability (69B2)	Provisional	N
82	Install 2-16.33 Mvar 69-kV capacitor banks at Sun Prairie	>2026	2020	2022	3	reliability (69B2, 69B3)	Provisional	
83	Rebuild West Middleton-Pheasant Branch 69-kV line with double circuits to achieve a 240 MVA SE on each circuit	2022	new	2022	3	reliability (69B2)		
84	Construct Shoto to Custer 138-kV line	2026+	2022	2022	4	reliability (69B2, 69B3)	Provisional	Y

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85	Install 138/69-kV transformer at Custer Substation	2026+	2022	2022	4	reliability (69B2, 69B3)	Provisional	N
86	Upgrade Oak Creek-Pennsylvania 138-kV line	>2026	2022	2022	5	reliability (B2)	Provisional	N
87	Construct a Hubbard-East Beaver Dam 138-kV line	>2026	2022	2022	3b	reliability (B2)	Provisional	N
88	Uprate X-67 Portage-Trienda 138-kV line to 373 MVA	>2026	2022	2022	3b	reliability (69B2)	Provisional	N
89	Install 2-12.25 MVAR 69-kV capacitor banks at Mazomanie Substation	>2026	2020	2023	3	reliability (69B2)	Provisional	N
90	Replace two existing 138/69-kV transformers at Sunset Point Substation with 100 MVA transformers	2026+	2024	2024	4	reliability (69B3)	Provisional	N
91	Replace two existing 138/69-kV transformers at Glenview Substation with 100 MVA transformers	2026+	2020	2025	4	reliability (69B3)	Provisional	Y
92	Construct a 345-kV bus, install a 345/138-kV 500 MVA transformer at North Randolph and loop the Columbia to South Fond Du Lac 345-kV line into the substation	>2026	2025	2025	3b	reliability (B2)	Provisional	Y
93	Reconductor Harbor-Kansas 138-kV line	2021	TBD	TBD	5	reliability	Provisional	
94	Uprate Columbia 345/138-kV transformer T-22 to 527 MVA	>2026	TBD	TBD	3b	reliability (B3)	Provisional	N
95	Zoo Interchange projects	TBD			5		Placeholder	
96								
97								
98								
99								
100	* = dates based on approved project scope ISDs							