

Table PR-23**Summary of Cancellations, Deferrals, Changes, Possible Changes and New Projects for the 2010 10-Year Assessment**

PROJECTS CANCELED	Former In-Service Date	Planning Zone	Reason for Removal
Install 1-4.08 MVAR capacitor bank at North Bluff 69-kV Substation	2011	2	Updated load/model information
Rebuild/convert Bayport – Suamico – Sobieski – Pioneer 69-kV line to 138 kV	2020	4	Updated load/model information
Install 28.8 MVAR capacitor bank at Butternut 138-kV Substation	2020	4	Updated load/model information
Uprate the Melissa-Tayco to 229 MVA (300F)	2020	4	Updated load/model information
Install 2-16.33 MVAR 69-kV capacitor banks at Rio	2022	3	Updated load/model information
Install 2-16.33 MVAR 69-kV capacitor banks and 2-24.5 MVAR 138-kV capacitor banks at Femrite Substation	2014	3	Replaced with a similar Femrite capacitor bank project
Install a 12.2 MVAR capacitor bank at Hilltop 69-kV Substation	2023	1	Updated load/model information
Rebuild Pine River-Nine Mile lines 6921 and 6923 to 138/69-kV double-circuit line	2012	2	Uncertain status of Kinross load
Install 138/69-kV 150 MVA transformer at Nine Mile	2012	2	Uncertain status of Kinross load
Install 138/69-kV 150 MVA transformer at Pine River	2012	2	Uncertain status of Kinross load
Construct tap from Kinross load to Pine River/Nine Mile 69-kV line	2012	2	Uncertain status of Kinross load
PROJECTS DEFERRED	New Date	Planning Zone	Reason for Deferral
Install 2-16.33 MVAR 69-kV capacitor banks at Spring Green Substation	2011	3	Was 2010; resource scheduling requirements
Install second 138/69-kV transformer and a 138-kV ring bus at Chandler Substation	2012	2	Was 2011 and a transformer at Lakehead; delay due to resource scheduling requirements
Rebuild Straits-Pine River lines 6904/5 for 138 kV and operate at 69 kV	2014	2	Was 2012; uncertain status of Kinross load

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PROJECTS DEFERRED	New date	Planning Zone	Reason for Deferral
Uprate overhead portions of Straits-McGulpin 138-kV circuits #1 & #3 to 230 F degree summer emergency ratings	2014	2	Was 2012; resource scheduling requirements
Rebuild the Y-119 Verona to Oregon 69-kV line	2014	3	Was 2011; updated load information and pending rating validation
Install 3-75 MVAR capacitor banks at Bluemound Substation	2014	5	Was 2012; updated load/model information
Uprate Arcadian-Waukesha 138-kV lines KK9942/KK9962	2015	5	Was 2013; updated load/model information
Construct a 69-kV line from SW Ripon to the Ripon-Metomen 69-kV line	2015	1	Was 2014; customer postponed interconnection
Replace two existing 345/138-kV transformers at Arcadian Substation with 1-500 MVA transformer	2015	5	Was 2013; updated load/model information
Install 2-24.5 Mvar 138-kV capacitor bank and 1-18 Mvar 69-kV capacitor bank at Brick Church substation	2017	3	Was 2011; updated study results
Install a second 100 MVA 138/69 kV transformer at Hillman Substation	2018	3	Was 2015 replace existing xfmr; updated load/model information
Rebuild Y-32 Colley Road-Brick Church 69-kV line	2018	3	Was 2013; updated study results
Install a second 138/69-kV transformer at Spring Green with a 100 MVA summer normal rating	2018	3	Was 2016; updated load/model information
Install 1-16.33 MVAR 69-kV capacitor bank at Verona Substation	2018	3	Was 2014; updated load/model information
Construct second Dunn Road-Egg Harbor 69-kV line	2018	4	Was 2016; updated load/model information
Uprate Y159 Brick Church-Walworth 69-kV line to 115 MVA	2019	3	Was 2017; updated load/model information
Uprate the 6986 Royster to Sycamore 69-kV line to 115 MVA	2019	3	Was 2016; updated load/model information
Install 2-16.33 MVAR 69-kV capacitor banks at Dam Heights	2019	3	Was 2017; updated load/model information
Install 4-49 MVAR 138-kV capacitor banks at Concord Substation	2019	3	Was 2016; updated load/model information

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PROJECTS DEFERRED (continued)	New date	Planning Zone	Reason for Deferral
Install 2-16.33 MVAR 69-kV capacitor banks at Eden Substation	2019	3	Was 2016; updated load/model information
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	2019	3	Was 2015; updated load/model information
Construct a Lake Delton-Birchwood 138-kV line	2020	3	Was 2017; updated load/model information
Construct Cardinal-Blount 138-kV line	2020	3	Was 2017; updated load/model information
Install 2-16.33 MVAR 69-kV capacitor banks at Sun Prairie	2020	3	Was 2016; updated load/model information
Install 2-12.25 MVAR 69-kV capacitor banks at Mazomanie Substation	2020	3	Was 2017; updated load/model information
Replace two existing 138/69-kV transformers at Glenview Substation with 100 MVA transformers	2020	4	Was 2016; updated load/model information
Upgrade Oak Creek-Pennsylvania 138-kV line	2020	5	Was 2015; updated load/model information
Install 2-32 MVAR capacitor banks at Mukwonago 138-kV Substation	2020	5	Was 2019; updated load/model information
Construct a Hubbard-East Beaver Dam 138-kV line	2022	3	Was 2019, was Horicon-East Beaver Dam; updated load/model information
Uprate X-67 Portage-Trienda 138-kV line to 373 MVA	2022	3	Was 2016; updated load/model information
Construct Shoto to Custer 138-kV line	2022	4	Was 2020; updated load/model information
Install 138/69-kV transformer at Custer Substation	2022	4	Was 2020; updated load/model information
Replace two existing 138/69-kV transformers at Sunset Point Substation with 100 MVA transformers	2024	4	Was 2018; updated load/model information

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PROJECTS DEFERRED (continued)	New date	Planning Zone	Reason for Deferral
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	2025	3	Was 2021; updated load/model information
Increase ground clearance of M38-Atlantic 69-kV line from 120 to 167 degrees F and minimum asset renewal	TBD	2	Was 2013; updating study results
Construct Gwinn-Forsyth second 69-kV line	TBD	2	Was 2014; updating study results
Uprate Columbia 345/138-kV transformer T-22 to 527 MVA	TBD	3	Was 2015; updated load/model information
OTHER PROJECT CHANGES AND POSSIBLE CHANGES	Date	Planning Zone	Nature of Change or Update
Uprate Y-40 Gran Grae-Boscobel 69-kV line to achieve a 99 MVA summer emergency rating	2010	3	Was 2017; advanced to uprate in conjunction with another project
Uprate Y-61 Sheepskin-Dana 69-kV line to 95 MVA	2010	3	Was 2017; advanced to uprate in conjunction with another project
Upgrade McKenna 6.3 MVAR capacitor bank to 15.3 MVAR and upgrade Chaffee Creek 8.1 MVAR bank to 14.4 MVAR	2011	1	Was two banks at McKenna in 2013; advanced due to updated scope of project and related study results
Upgrade 4.1 MVAR capacitor bank to 8.2 MVAR and install a new 8.2 MVAR capacitor bank at Ripon 69-kV Substation	2015	1	Was 2016; updated load/model information
Install 2-8.0 MVAR capacitor bank at Indian Lake 69-kV Substation	2010	2	Was 1-16.33 MVAR capacitor banks
Rebuild part of the Y-8 Dane-Dam Heights 69-kV line	2012	3	Was provisional status, now proposed

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NEW PROJECTS	In-Service Date	Planning Zone	Reason for Project
Install reactors at Straits Substation	2010	2	reliability
Install 1-32.66 MVAR 138-kV capacitor bank at Femrite Substation	2011	3	reliability
Install 1-32.66 MVAR 138-kV capacitor bank at Kegonsa Substation	2011	3	reliability
Upgrade 69-kV equipment at Delta Substation	2012	2	reliability, operating flexibility
Relocate Engadine 69-kV load	2012	2	reliability
Reconfigure Petenwell 138-kV bus	2013	1	reliability, operating flexibility
Install power flow control at Straits 138-kV Substation	2014	2	reliability
Energize Hiawatha-Indian Lake at 138 kV	2014	2	reliability
Construct 18th Road-Chandler double circuit 138-kV lines and operate at 138/69	2014	2	reliability
Construct 18th Road 138/69-kV Substation and install two 138/69-kV transformers	2014	2	reliability
Install 1-8.16 MVAR 138-kV capacitor banks at 18th Road	2014	2	reliability
Replace Petenwell 138/69-kV transformer	2015	1	reliability
Construct a new Arnold 345-kV Substation and install a 345/138-kV transformer	2015	2	reliability
Uprate 6927 West Middleton-Stage Coach 69-kV line to 106 MVA SE	2015	3	reliability
Replace existing 56 MVA Harrison 138/69-kV transformer with a 100 MVA transformer	2016	1	reliability
Uprate Pine River-Nine Mile 69-kV line 6923 to 167 degrees F and asset renewal for 6921/3	2016	2	reliability, condition
Replace existing Caroline 115/69-kV transformer	2018	1	reliability

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NEW PROJECTS (continued)	In-Service Date	Planning Zone	Reason for Project
Uprate Y87 North Monroe-South Monroe 69-kV line to 115 MVA SE	2018	3	reliability
Uprate Winneconne-Sunset Point 69-kV line Y-103	2019	1	reliability
Uprate Ripon-Northwest Ripon 69-kV line Y-93	2019	1	reliability