

*Table PF-1
Projects included in the 2011 10-Year Assessment Model*

System additions	Planning zone
Construct Crane Creek G551 wind farm	1
Construct Brandon-Fairwater 69-kV line	1
Rebuild Arpin-Rocky Run 345-kV line	1
Construct MEWD CT G588 generator	1
Uprate P-120 Hume-Arpin 115-kV line	1
Construct Green Lake wind farm G376	1
Construct ACEC Badger West T-D 138-kV Substation	1
Construct Warrens T-D 69-kV Substation	1
Uprate Chandler-Delta # 2 69-kV line to 167 degrees	2
Construct ring bus at the Pine River 69-kV Substation and replace 1-5.4 MVAR capacitor bank with 2-4.08 MVAR banks	2
Install one 8.16 MVAR 138-kV capacitor bank at Hiawatha Substation	2
Install one 4.08 MVAR 138-kV capacitor bank at Osceola Substation	2
Uprate Chandler-Delta # 1 69-kV line to 167 degrees	2
Uprate Chandler-Lakehead Tap-Masonville 69 kV line to 167 degrees	2
Uprate Autrain 69-kV line to 293 Amps all season	2
Uprate Winona-M38 138-kV line to 125 degrees	2
Install a 4.08 MVAR 69-kV capacitor bank at the L'Anse Substation	2
Construct Centennial T-D 69-kV Substation	2
Uprate Forsyth-Munising 138 kV line to 200 degrees	2
Install Iron Grove 138/69-13.8 kV transformer	2
Install 2-8.16 MVAR 69-kV capacitor banks at Indian Lake Substation	2
Tap new Sun Valley 69-kV T-D Substation into the Y-119 Verona-Oregon line	3
Rebuild Hillsboro-Dayton 69-kV line	3
Construct 138-kV line from Oak Ridge to Verona with a 138/69 kV transformer at Verona	3
Tap Mazomanie West T-D 69-kV Substation into line Y-62	3
Uprate Walworth-North Lake Geneva 69-kV line	3
Construct Paddock-Rockdale 345-kV line	3
Upgrade existing Sheepskin 10.8 MVAR capacitor bank to 16.2 MVAR	3
Install 2-9.6 MVAR capacitor banks at Dickinson 138-kV Substation	3
Rebuild Verona-Oregon 69 kV line Y-119	3
Uprate Royster-Femrite 69-kV line	3
Install Walnut 69/13.8-kV transformer # 3	3
Uprate Colley Road-Marine 138-kV line	3
Rebuild the Blanchardville-Forward 69-kV line	3
Construct LaMar T-D 69-kV Substation	3
Construct Lafayette wind farm G282	3
Install new Milton DIC T-D 69 kV Substation on the LaMar-Harmony Tap 69 kV line	3
Construct Randolph-EC wind farm G706	3
Construct Bowers Road wind farm G546	3
Install 2-16.33 MVAR 69-kV capacitor bank at Spring Green Substation	3
Construct Beloit Gateway T-D 138-kV Substation	3
Replace Femrite transformer # 4 with a 20 MVA transformer	3

Table PF-1 (continued)
Projects included in the 2011 10-Year Assessment Model

System additions	Planning zone
Construct Schofield T-D 69-kV Substation	3
Tap new Greenleaf T-D Substation into Forest Junction-Rockland 138-kV line	4
Uprate Point Beach-Sheboygan 345-kV line to 167 degrees	4
Tap new SBU Michigan T-D 69 kV Substation into Dunn Road-First Avenue 69-kV line	4
Uprate Cypress-Arcadian 345-kV line to 125 degrees	4
Uprate Point Beach generator #1	4
Construct Stony Brook wind farm G590	4
Install a second 345/138-kV transformer at Kewaunee Substation	4
Uprate Point Beach generator #2	4
Install a second 138/26.2-kV transformer at Maple Substation	5
Rebuild Oak Creek-Root River 138-kV line	5
Install third 345/138-kV transformer at Granville Substation	5
Construct Oak Creek generation (Phase I)	5
Install 2x32.4 MVAR capacitor banks at Summit 138-kV Substation	5
Uprate Bain-Albers 138-kV line	5
Uprate Oak Creek-Nicholson 138-kV line	5
Construct Oak Creek generation (Phase II)	5
Install a second 138-kV parallel underground line from Humboldt terminal to Shorewood Substation	5
Install three new Harbor T-D transformers	5
Install second Pleasant Valley 138/24.9-kV transformer	5
Construct Barland T-D 138-kV Substation on the Ramsey-Norwich 138 kV line	5
Uprate Bain-Kenosha 138-kV line	5
Rebuild/convert Twin Falls-Plains 69-kV double-circuit line to 138/69-kV double-circuit	1 & 2

*Table PF-2
Projects included in the 2015 10-Year Assessment Model**

System additions	Planning zone
Construct Woodmin T-D 115-kV Substation	1
Rebuild Brodhead-South Monroe 69-kV line	3
Construct Southwest Verona T-D 69-kV Substation	3
Construct Hawk T-D 138-kV Substation	3
Construct Rockdale-West Middleton 345-kV line	3
Construct Hanson Road T-D Substation	3
Upgrade West Middleton transformer # 7	3
Construct EcoMet wind farm G611-G927 and related uprates	4
Construct Ledge Wind G773	4
Construct Lake Breeze wind farm G427	4
Install a second T-D transformer at the Tosa 138-kV Substation	5

**Projects included in addition to those listed in Tables PF-1*

*Table PF-3
Projects included in the 2020 10-Year Assessment Model**

System additions	Planning zone
Install second Blackhawk T-D transformer	3

**Projects included in addition to those listed in Tables PF-1 and PF-2*

*Table PF-4
Projects included in the 2025 10-Year Assessment Model**

System additions	Planning zone
None	

**Projects included in addition to those listed in Tables PF-1, PF-2 and PF-3*