

Table PF-2*Projects included in the 2028 Project -Deficient 10-Year Assessment Model**

System Changes	Planning Zone
Kelly 115/46-kV Bank1 Transformer Replacement	1
Superior 345-kV Switching Station	1
Y-145 (Lincoln Pumping Station – McKenna) 69-kV Line Rebuild	1
Y-47 (McKenna – Castle Rock) 69-kV Line Rebuild	1
Y-70 (Iola – Harrison Tap) 69-kV Line Rebuild	1
U-11 Maine-Hilltop 115-kV & S-97 Maine – Pine) 115-kV Rebuild as Double Circuit and Reconfigure Lines	1
Greenwood 50 MVAR STATCOM	2
Winona69 (Winona – Atlantic) 69-kV Line Rebuild	2
Empire 138-kV Substation Asset Renewal and Reconfiguration	2
Keel Ridge T-D Interconnection	2
J1374 White Tail Wind G-T Interconnection	3
Columbia 80 MVAR 345-kV Shunt Reactor	3
Kittyhawk 138-kV Bus	3
Kittyhawk 345/138-kV T1 Transformer	3
Kittyhawk 345/138-kV T2 Transformer	3
X-95 (Bass Creek – Townline Rd) 138-kV loop in to Kittyhawk	3
X-155 (Big Hill Park – Townline Rd) 138-kV loop in to Kittyhawk	3
X-126 (Kittyhawk – Townline Rd) 138-kV Line	3
X-23 (Rock River – Marine Tap) 138-kV Line Uprate	3
X-74 (Rock River -Townline Rd) 138-kV Line Uprate	3
Lancaster 138/69-kV T31 Transformer Retirement	3
Bonnie Rd T-D Interconnection	3
Y-21 (Academy – Columbus) 69-kV Rebuild	3
6937 (Huiskamp - Ruskin) 69-kV Partial Rebuild	3
Y-184 (Nelson - Bloomington) 69-kV Rebuild	3
Y-109 (Darlington – Rock Branch) 69-kV Rebuild	3
Stoughton T41 T-D Interconnection Retirement	3
Y-134 (South Beaver Dam – Horicon) 69-kV Rebuild	3
Kirkwood 138/69-kV Substation Asset Renewal	3
Kirkwood 138/69-kV T31 Transformer Replacement	3
North Beaver Dam 138/69-kV Substation Asset Renewal	3
Y-25 (South Fond du Lac -Waupun) 69-kV Line Rebuild	3
Y-155 (South Monroe - Browntown) 69-kV Line Rebuild	3
McCue 138/69-kV Substation Asset Renewal	3
Y-59 (South Beaver Dam -North Beaver Dam) 69-kV Line Rebuild	3
R-44 (Wesmark – Kellnersville - Rapids) 69-kV Rebuild	4
North Appleton 345/138-kV T7 Transformer Replacement	4
North Appleton 34.5-kV Reactor R7 & R8 Replacement with 24.9-kV units	4
Eaton T-D Interconnection	4
Oconto Falls Municipal T-D Interconnection	4
P-16 (Pulliam – Danz Ave) 69-kV Partial Rebuild	4

R-70 (Pulliam – Van Buren St) 69-kV Partial Rebuild	4
Fitzgerald 345/138-kV T1 Transformer Replacement	4
Z-26 (Oak St – Nicolet Paper – Highway V) 69-kV Line Rebuild	4
Shoto 138/69-kV T1 Transformer Replacement	4
5053 (Bluemound – Lincoln) 138-kV Underground Cable Replacement	5
X-132 (Port Washington – Saukville) 138-kV Line Reconductor	5
X-133 (Port Washington – Saukville) 138-kV Line Reconductor	5
3462 (Granville – Cornell) & 61453 (Granville – Rangeline) 138-kV Granville Bus Swap	5
Granville 345-kV Straight Bus Conversion to a Ring Bus	5
Branch 138-kV Substation Asset Renewal	5
Oak Creek 138-kV Substation Asset Renewal	5
Mt Pleasant Tech T-D Interconnection	5
Everett 138-kV GIS Asset Renewal	5
893K11 (Norwich – Harbor) 138-kV Underground Cable Replacement	5
Parkhill 138-kV Substation Relocation	5

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