

Table RS-3
Transmission Line Projects on Existing Right-of-Way

Identified need	Lines to be rebuilt/reconducted on existing ROW	Approx. mileage of rebuilt, reconducted or uprated lines	System need year	Projected In-service	Planning zone	Environmental screening provided?
asset renewal	Partial rebuild Nine Mile-Roberts 69-kV line	54.6	2011	2012	2	Yes
relieve overloads or low voltages under contingency	Rebuild M38-Atlantic 69-kV line	22	2011	2013	2	Yes
asset renewal	Rebuild Doylestown-Rio Pumping Station 69-kV line	11.5	2013	2013	3	Yes
asset renewal	Rebuild Russell-McCue 138-kV line	2.7	2013	2013	3	Yes
economics, relieve overloads or low voltages under contingency	Construct Monroe County-Council Creek 161-kV line	17.9	2013	2014	1	Yes
economics, relieve overloads or low voltages under contingency	Uprate Council Creek-Petenwell 138-kV line	32	2013	2014	1	Yes
economics, relieve overloads, asset renewal	Rebuild Paddock-Town Line Road 138-kV line	7.0	2014	2014	3	Yes
relieve overloads under contingency	Rebuild Paddock-Shaw 69-kV line	7.0	2014	2014	3	Yes
relieve overloads under contingency	Rebuild Omro-Berlin 69-kV line	14.2	2014	2014	1	Yes
relieve overloads under contingency	Rebuild Nicholson-Barland 138-kV line	1.4	2014	2014	5	Yes
relieve overloads under contingency	Rebuild Kenosha-Lakeview 138-kV line	4.4	2014	2014	5	Yes
relieve overloads under contingency	Re-conductor Albers-Kenosha 138-kV line	4.0	2014	2014	5	Yes
relieve overloads or low voltages under contingency	Rebuild Straits-Pine River lines 6904/5 for 138 kV and operate at 69 kV	25.3	2014	2014	2	Yes
asset renewal	Rebuild St. Lawrence-Hartford 138-kV line	5.2	2014	2014	5	Yes
asset renewal	Underground cable replacement Redwood-First Avenue 69-kV line	0.8	2015	2015	4	Yes
asset renewal	Rebuild Concord-Cooney 138-kV line	10.9	2014	2015	5	Yes
asset renewal	Partial rebuild Merrill Hills-Waukesha 138-kV line	12.3	2015	2015	5	Yes
asset renewal	Rebuild North Point-Rocky Run 115-kV line	3.7	2016	2016	1	Yes
asset renewal	Rebuild Concord-Rubicon 138-kV line	13	2013	2016	3	Yes
asset renewal	Rebuild Rubicon-Butler Ridge 138-kV line	3.1	2016	2016	3	Yes
asset renewal	Rebuild Butler Ridge-Hartford 138-kV line	2.5	2016	2016	3	Yes
asset renewal	Rebuild Dam Heights-Portage 69-kV line	23.5	2018	2016	3	Yes
asset renewal	Rebuild Darlington-Hillman 138-kV line	18.7	2016	2016	3	Yes
asset renewal	Rebuild Dyckesville-Sawyer 69-kV line	24.8	2016	2016	4	Yes
asset renewal	Rebuild Paris-Albers 138-kV line	12.4	2018	2016	5	Yes
relieve overloads or low voltages under contingency	Uprate Royster to Sycamore 69-kV line	3.35	2016	2016	3	Yes
relieve overloads or low voltages under contingency, replace aging facilities	Rebuild Sun Valley Tap to Oregon 69-kV line	11	2016	2016	3	Yes
asset renewal	Partial rebuild Montello-Wautoma 69-kV line	20	2017	2017	1	Yes

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asset renewal	Underground cable replacement Danz-University 69-kV line	2.7	2017	2017	4	Yes
asset renewal	Rebuild Edgewood-St. Martins 138-kV line	7.2	2014	2017	5	Yes
asset renewal	Rebuild Edgewood-Mukwonago 138-kV line	7	2014	2017	5	Yes
asset renewal	Partial rebuild Summit-Merrill Hills 138-kV line	14.7	2017	2017	5	Yes
asset renewal	Rebuild Hillman-Eden 69-kV line	28	2018	2018	3	Yes
relieve overloads or low voltages under contingency, replace aging facilities	Rebuild Colley Road-Brick Church 69-kV line	19.7	2021	2018	3	Yes
asset renewal	Rebuild Pioneer-Sobieski 69-kV line	10.7	2018	2018	4	Yes
asset renewal	Rebuild Sobieski-Bayport 69-kV line	10.2	2018	2018	4	Yes
asset renewal	Rebuild Oak Street-Highway V 69-kV line	6	2016	2018	4	Yes
asset renewal	Rebuild Finger Road-Danz 69-kV line	3.7	2016	2018	4	Yes
accommodate new generation	Convert Forest Junction-Howards Grove and part of Howards Grove-Holland 138-kV lines to double-circuit 345-kV operation	51	2018	2018	4	Yes
asset renewal	Rebuild Plover-Whiting 115-kV line	5.7	2019	2019	1	Yes
asset renewal	Underground cable replacement West Middleton-Stagecoach 69-kV line	4.3	2019	2019	3	Yes
asset renewal	Rebuild Goodman-Caldron Falls 69-kV line	21.3	2019	2019	4	Yes
asset renewal	Rebuild New Holstein-Custer 69-kV line	21.8	2019	2019	4	Yes
asset renewal	Underground cable replacement Lodestar-Erdman 69-kV line	5.3	2019	2019	4	Yes
asset renewal	Underwater cable replacement Straits-McGulpin 69-kV line	6.2	2020	2020	2	Yes
relieve overloads or low voltages under contingency	Construct Cardinal-Blount 138-kV line	5	2020	2020	3	Yes
asset renewal	Rebuild Butte des Morts-Neevin 138-kV line	3	2015	2020	4	Yes
asset renewal	Rebuild Mears Corners-Sunset Point 138-kV line	4.1	2016	2020	4	Yes
asset renewal	Rebuild Woodenshoe-Mears Corners 138-kV line	2.7	2016	2020	4	Yes
asset renewal	Rebuild Wesmark-Manrap 69-kV line	19.7	2016	2020	4	Yes
asset renewal	Rebuild Neevin-Woodenshoe 138-kV line	3.4	2016	2020	4	Yes
asset renewal	Rebuild North Appleton-Butte Des Morts 138-kV line	11.9	2017	2020	4	Yes
asset renewal	Underground cable replacement Erdman-Edgewater 69-kV line	0.7	2021	2021	4	Yes
relieve overloads or low voltages under contingency, economic benefits	Construct 69-kV double-circuit line between McCue and Lamar substations	4.0	>2027	2022	3	Yes
relieve overloads or low voltages under contingency	Rebuild West Middleton-Pheasant Branch 69-kV line with double circuit	5	>2027	2022	3	Yes