

Table RS-1
Identified Needs and Transmission Lines Requiring New Right-of-Way

Identified need	Potential solutions	Approx. line mileage		System need year	Projected In-service year	Planning zone	Environmental screening provided?	Comments and/or Corresponding Exhibit Number
		Total	New ROW					
T-D interconnection request	Construct 115-kV line from new Woodmin Substation to the Clear Lake Substation	7.5	7.5	2012	2012	1	No	PSCW Approved
relieve overloads or low voltages under contingency	Construct 345-kV line from Rockdale to West Middleton	32.4	32.4	2013	2013	3	No	PSCW Approved - Under construction
relieve overloads or low voltages under contingency	Construct 18th Road-Chandler double circuit 138-kV lines and operate at 138/69	4	4	2014	2014	2	Yes	
economic benefits	Construct Pleasant Prairie-Zion Energy Center 345-kV line	7	7	2014	2014	5	Yes	
T-D interconnection request	Construct double-circuit 138-kV line to serve Milwaukee County T-D interconnection	2	2	2015	2015	5	Yes	
relieve overloads or low voltages under contingency, T-D interconnection request	Construct new 138-kV line from North Lake Geneva to South Lake Geneva Substation	3.4	3.4	2018	2018	3	Yes	
accommodate new generation	Construct Erdman-Howards Grove-Plymouth #4-Barnhart 138-kV line	18	18	2018	2018	4	Yes	
policy benefits	Construct Badger Coulee 345-kV line	118	118	2018	2018	3	Yes	
relieve overloads or low voltages under contingency	Construct Fairwater-Mackford Prairie 69-kV line	4	4	2018	2018	1	Yes	
T-D interconnection request,relieve overloads or low voltages under contingency	Construct Spring Valley-Twin Lakes-South Lake Geneva 138-kV line	24.0	15	2019	2019	35	Yes	
relieve overloads or low voltages under contingency	Construct a Lake Delton-Birchwood 138-kV line	5	5	2020	2020	31	Yes	
policy benefits	Construct Dubuque-Spring Green-Cardinal 345-kV line	80	80	2020	2020	3	Yes	
relieve overloads or low voltages under contingency	Construct second Dunn Road-Egg Harbor 69-kV line	12.66	12.66	2021	2021	4	Yes	
relieve overloads or low voltages under contingency	Construct a Hubbard-East Beaver Dam 138-kV line	10	10	2022	2022	34	Yes	
relieve overloads or low voltages under contingency, economics	Construct Shoto to Custer 138-kV line	6.9	6.9	2022	2022	4	Yes	