

**Table PR-19**  
**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
		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
relieve overloads or low voltages under contingency (B2, C5)	Construct 345-kV line from Rockdale to Cardinal	32.4	32.4	2013	2013	3
relieve overloads or low voltages under contingency (69B3), economics	Construct 18th Road-Chandler double circuit 138-kV lines and operate at 138/69	4	4	2014	2014	2
economics	Construct Pleasant Prairie-Zion Energy Center 345-kV line	7	7	2014	2014	5
T-D interconnection request	Construct 138-kV lines to serve Milwaukee County T-D interconnection request	2	2	2015	2015	5
economics, relieve overloads or low voltages under contingency (69B2)	Construct Fairwater-Mackford Prairie 69-kV line	4	4	>2026	2017	1
policy benefits	Construct Badger Coulee 345-kV line	118	118	2018	2018	3
accommodate new generation	Construct a new Barnhart - Plymouth - Howards Grove - Erdman 138-kV circuit	18	18	2018	2018	4
relieve overloads or low voltages under contingency (69B2), T-D interconnection request	Construct new 138-kV line from North Lake Geneva to South Lake Geneva Substation	3.4	3.4	>2026	2018	3
T-D interconnection request,relieve overloads or low voltages under contingency (69B2)	Construct Spring Valley-Twin Lakes-South Lake Geneva 138-kV line	24	15	2019	2019	3 & 5
policy benefits	Construct Dubuque-Spring Green-Cardinal 345-kV line	80	80	2020	2020	3
relieve overloads or low voltages under contingency (B2)	Construct a Lake Delton-Birchwood 138-kV line	5	5	>2026	2020	3
relieve overloads or low voltages under contingency (69B2)	Construct second Dunn Road-Egg Harbor 69-kV line	12.66	12.66	>2026	2021	4
relieve overloads or low voltages under contingency (69B2, 69B3)	Construct Shoto to Custer 138-kV line	6.9	6.9	>2026	2022	4
relieve overloads or low voltages under contingency (B2)	Construct a Hubbard-East Beaver Dam 138-kV line	10	10	>2026	2022	3