

**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			
relieve overloads or low voltages under contingency	Construct a Jefferson-Lake Mills-Stony Brook 138-kV line	12	12	2006	2009	3
relieve overloads or low voltages under contingency	Construct a new 138-kV line from North Madison to Huiskamp	5	5	2008	2009	3
relieve overloads or low voltages under contingency, reduce service limitations	String a new 138-kV line from Clintonville-Werner West primarily on Morgan-Werner West 345-kV line structures	16	2	2004	2009	4
relieve overloads or low voltages under contingency, reduce service limitations	Construct Morgan-Werner West 345-kV line	47	47	2004	2009	4
T-D interconnection request	Construct 69-kV line from new Warrens Substation to the Council Creek-Tunnel City 69-kV line	4.5	4.5	2010	2010	1
T-D interconnection request	Construct Brandon-Fairwater 69-kV line	4	4	2010	2010	1
relieve overloads or low voltages under contingency	Construct new Oak Ridge-Verona 138-kV line and install a 138/69-kV transformer at Verona with a 100 MVA summer normal rating	9	3	2009	2010	3
T-D interconnection request	Construct 115-kV line from new Arnett Road Substation to the Clear Lake Substation	7	7	2012	2012	1
relieve overloads or low voltages under contingency	Construct 345-kV line from Rockdale to West Middleton	35	35	2013	2013	3
T-D interconnection request	Construct a 69-kV line from SW Ripon to the Ripon-Metomen 69-kV line	1.5	1.5	2014	2014	1
relieve overloads or low voltages under contingency	Construct a Horicon-East Beaver Dam 138-kV line	9	9	2014	2014	3
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	3	2014	2014	3
relieve overloads or low voltages under contingency	Construct a Lake Delton-Birchwood 138-kV line	5	5	2015	2015	3
relieve overloads or low voltages under contingency	Construct Shoto to Custer 138-kV line	9.94	9.94	2016	2016	4
relieve overloads or low voltages under contingency	Construct second Dunn Road-Egg Harbor 69-kV line	12.66	12.66	2016	2016	4
relieve overloads or low voltages under contingency	Construct Fairwater-Mackford Prairie 69-kV line	5	5	2018	2018	1

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request,relieve overloads or low voltages	Construct Spring Valley-Twin Lakes-South Lake Geneva 138-kV line	26.5	15	2018	2018	3 & 5
relieve overloads or low voltages under contingency	Construct Evansville-Brooklyn 69-kV line	8	8	TBD	TBD	3
relieve overloads or low voltages under contingency	Construct Verona-North Monroe 138-kV line	20	20	TBD	TBD	3