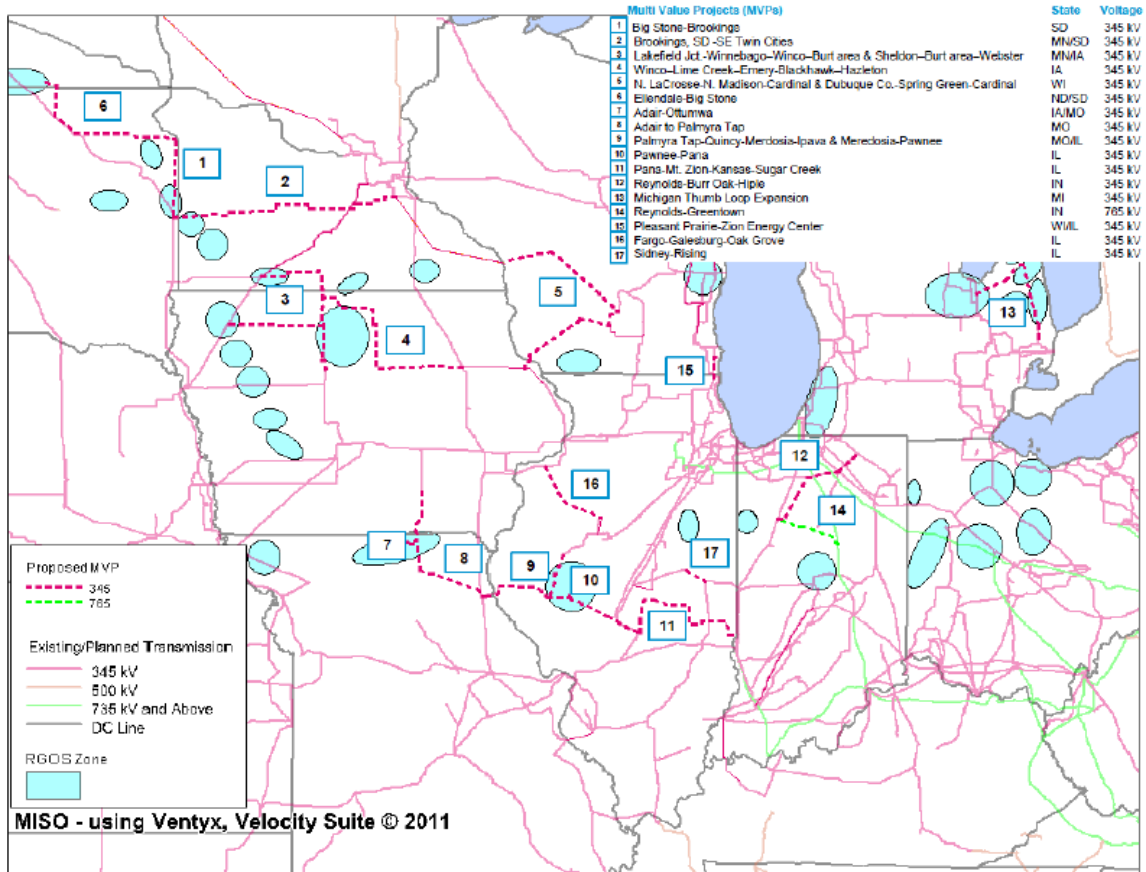
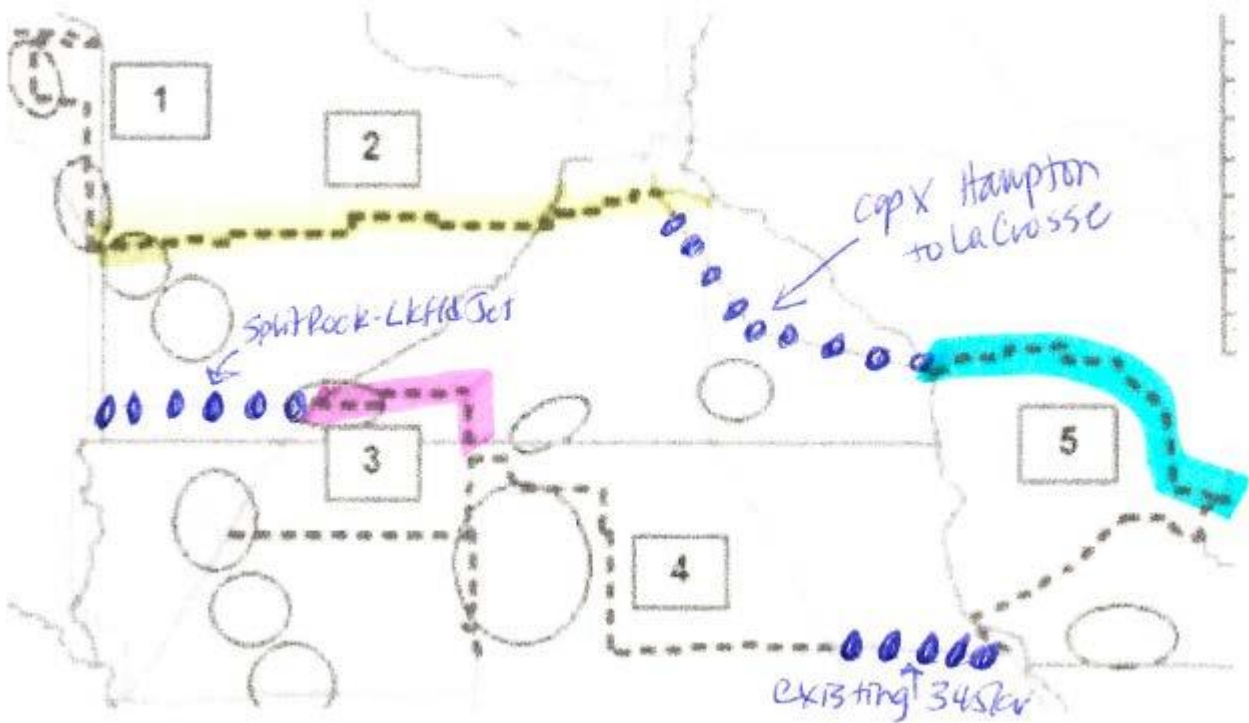


The Big Picture

Map and Cost Chart of MISO's 17 Multi Value Portfolio (MVP)



The recommended MVP portfolio includes the Brookings Project, conditionally approved in June 2011, and the Michigan Thumb Loop project, approved in August 2010. It also includes 15 additional projects which, when integrated into the transmission system, provide multiple kinds of benefits under all future scenarios studied².

	Project	State	Voltage (kV)	In Service Year	Cost (M, 2011\$) ³
1	Big Stone–Brookings	SD	345	2017	\$191
2	Brookings, SD–SE Twin Cities	MN/SD	345	2015	\$695
3	Lakefield Jct. –Winnebago–Winco–Burt area & Sheldon–Burt area–Webster	MN/IA	345	2016	\$506
4	Winco–Lime Creek–Emery–Black Hawk–Hazleton	IA	345	2015	\$480
5	N. LaCrosse–N. Madison–Cardinal & Dubuque Co. –Spring Green–Cardinal	WI	345	2018/2020	\$714
6	Ellendale–Big Stone	ND/SD	345	2019	\$261
7	Adair–Ottumwa	IA/MO	345	2017	\$152
8	Adair–Palmyra Tap	MO/IL	345	2018	\$98
9	Palmyra Tap–Quincy–Merdosia–Ipava & Merdosia–Pawnee	IL	345	2016/2017	\$392
10	Pawnee–Pana	IL	345	2018	\$88
11	Pana–Mt. Zion–Kansas–Sugar Creek	IL/IN	345	2018/2019	\$284
12	Reynolds–Burr Oak–Hiple	IN	345	2019	\$271
13	Michigan Thumb Loop Expansion	MI	345	2015	\$510
14	Reynolds–Greentown	IN	765	2018	\$245
15	Pleasant Prairie–Zion Energy Center	WI/IL	345	2014	\$26
16	Fargo-Galesburg–Oak Grove	IL	345	2018	\$193
17	Sidney–Rising	IL	345	2016	\$90
Total					\$5,197

Table 1.1: MVP portfolio⁴

² More information on these scenarios may be found in the business case description.

³ Costs shown are inclusive of transmission underbuild upgrades and upgrades driven by short circuit requirements.

⁴ In-service dates represent the best information available at the time of publication. These dates may shift as the projects progress through the state regulatory processes.