

MISO LRTP 1 Midwest Energy Transmission Project Set to Deliver Jobs, Clean Energy



The stakes are too high for our energy system to fail. Our nation's schools, hospitals, emergency services, and military bases all rely on the electric power grid to perform their most basic functions. **We need a high-capacity, long-distance transmission grid to transport electricity from the places where it is produced to electricity users across the country.**

The transmission grid is at its maximum capacity, but more energy is needed to keep homes comfortable during extreme temperatures, to allow critical domestic manufacturing to expand, and to meet growing energy needs overall. Expanding transmission lines frees up capacity—allowing more inexpensive energy to come online, reducing costs for consumers, and letting neighboring regions to share electricity during extreme weather. In addition, to achieve the goal of achieving net-zero greenhouse gas (GHG) emissions by 2050, the U.S. must rapidly expand its existing energy infrastructure. Many studies suggest the need to increase renewable energy deployment at least two to three times current levels.¹

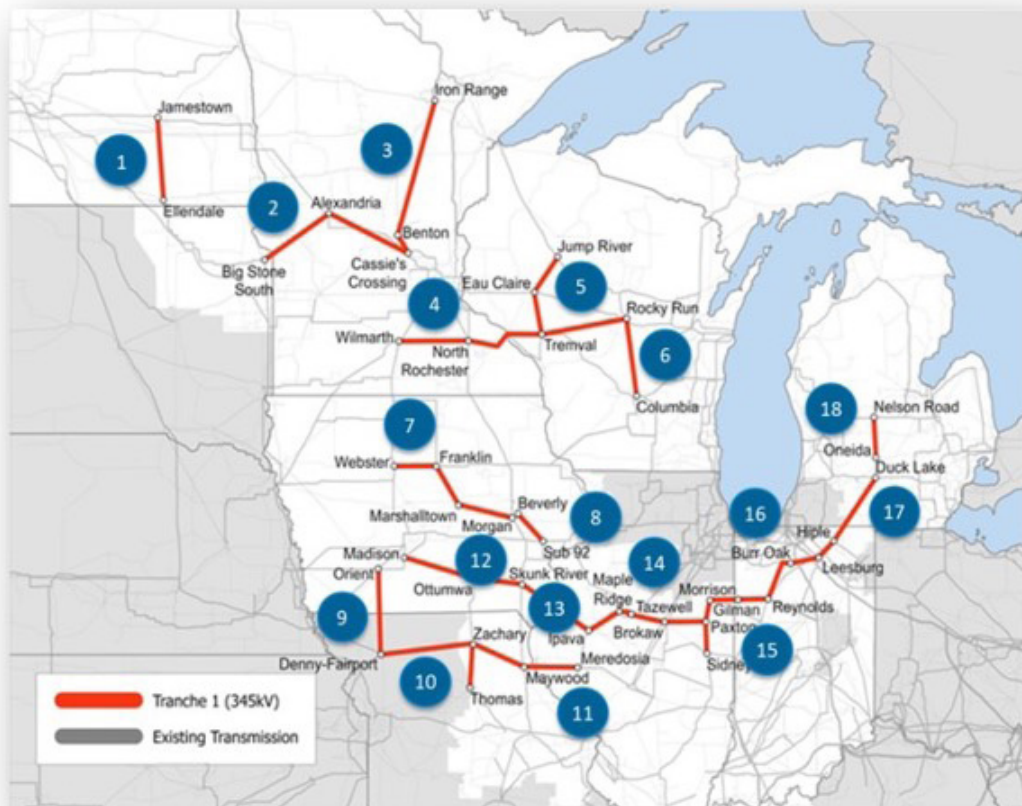
The Midcontinent Independent System Operator (MISO) coordinates, controls, and monitors the sale and use of our electric transmission system across 15 states.² In July 2022—after the largest and most complex study process to date—MISO approved Tranche 1 of Long-Range

Transmission Planning (LRTP). The approved portfolio consists of 18 transmission segments covering more than 2000 miles across nine states at a projected cost of \$10.3 billion. The benefits of LRTP 1 exceed costs with a benefit-to-cost ratio of between 2.6 and 3.8—meaning there are \$2.60 to \$3.80 worth of benefits for each \$1 spent.

The MISO LRTP 1 projects demonstrate a reliable, resilient, and cost-effective transmission system is possible—even as the energy resource mix continues to change.

New clean energy and transmission investments have the potential to deliver millions of high-quality jobs, drastically reduce emissions, and grow our economy. Especially due to labor standards built into the clean energy tax credits in President Biden's Inflation Reduction Act, construction jobs in transmission are high-road, family-sustaining jobs. Additionally, by using domestically sourced and manufactured materials for construction of high-powered transmission lines, substations, distribution centers, circuit breakers, and other associated infrastructure, these investments can support good jobs in our region.

For all these reasons, the BlueGreen Alliance supports the approval and construction of the MISO LRTP 1 portfolio across the upper Midwest.



Map of proposed segments of MISO LRTP Tranche 1.³

LINE NUMBER	DESCRIPTION	STATE	ESTIMATED COST IN 2022 (\$ MILLIONS)	ESTIMATED JOBS ⁴
1	Jamestown - Ellendale	North Dakota	\$439	5,049
2	Big Stone South - Alexandria - Cassie's Crossing (Big Oaks)	South Dakota, Minnesota	\$574	6,601
3	Northland Reliability Project	Minnesota	\$970	11,155
4	Wilmarth - North Rochester - Tremval	Minnesota, Wisconsin	\$689	7,924
5	Tremval - Eau Claire - Jump River	Wisconsin	\$505	5,808
6	Tremval - Rocky Run - Columbia	Wisconsin	\$1,050	12,075
7	Webster - Franklin - Marshaltown - Morgan Valley	Iowa	\$755	8,683
8	Beverly - Sub 92	Iowa	\$231	2,657
9	Orient - Denny - Fairport	Iowa, Missouri	\$390	4,485
10	Denny - Zachary - Thomas Hill - Maywood	Missouri, Illinois	\$769	8,844
11	Maywood - Meredosia	Illinois	\$301	3,462
12	Madison - Ottumwa - Skunk River	Iowa	\$673	7,740
13	Skunk River - Ipava	Iowa, Illinois	\$594	6,831
14	Ipava - Maple Ridge - Tazewell - Brokaw - Paxton East	Illinois	\$572	6,578
15	Sidney - Paxton East - Gilman South - Morrison Ditch	Illinois	\$454	5,221
16	Morrison Ditch - Reynolds - Burr Oak - Leesburg - Hiple	Illinois, Indiana	\$261	3,002
17	Hiple - Duck Lake	Michigan, Indiana	\$696	8,004
18	Oneida - Nelson Rd.	Michigan	\$403	4,635
				118,754

To find out more information, contact Katie Rock at krock@bluegreenalliance.org.

ENDNOTES

1 U.S. Department of Energy, National Transmission Needs. https://www.energy.gov/sites/default/files/2023-12/National%20Transmission%20Needs%20Study%20-%20Final_2023.12.1.pdf

2 The 15 states covered by MISO are: Arkansas, Illinois, Indiana, Iowa, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Montana, North Dakota, South Dakota, Texas and Wisconsin. MISO also serves Manitoba, Canada.

3 MISO, MTEP21. <https://cdn.misoenergy.org/MTEP21%20Addendum-LRTP%20Tranche%201%20Report%20with%20Executive%20Summary625790.pdf>

4 Direct construction job number estimates based on 11.5 direct jobs per \$1M investment in AC lines from American for a Clean Energy Grid