

Project area and preliminary routes

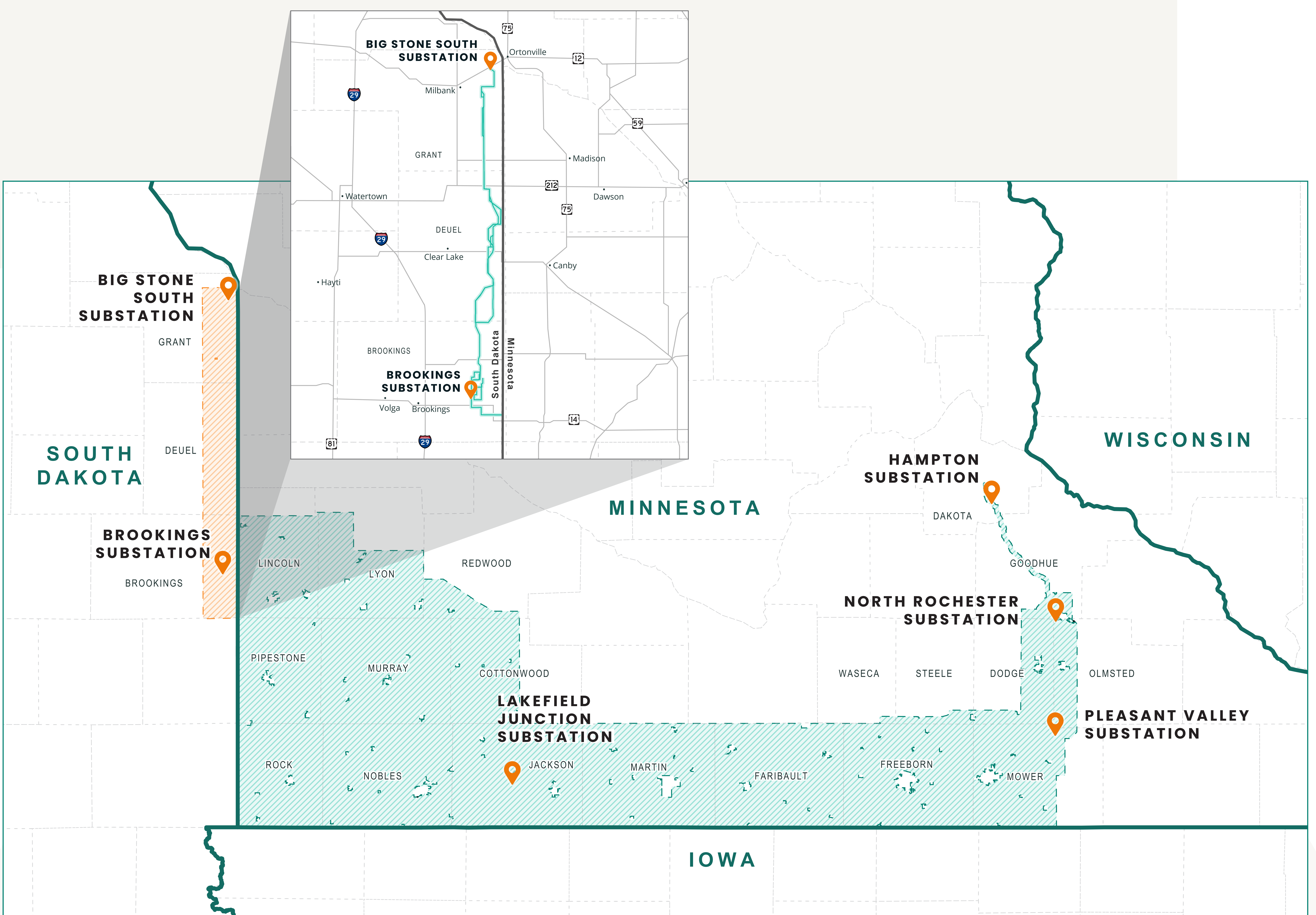
PowerOn Midwest segments include:

Big Stone South–Brookings County–
Lakefield Junction 765 kV (MISO LRTP #22)

Lakefield Junction–MN/IA border 765 kV
(MISO LRTP #23)

Lakefield Junction–Pleasant Valley–
North Rochester 765 kV (MISO LRTP #24)

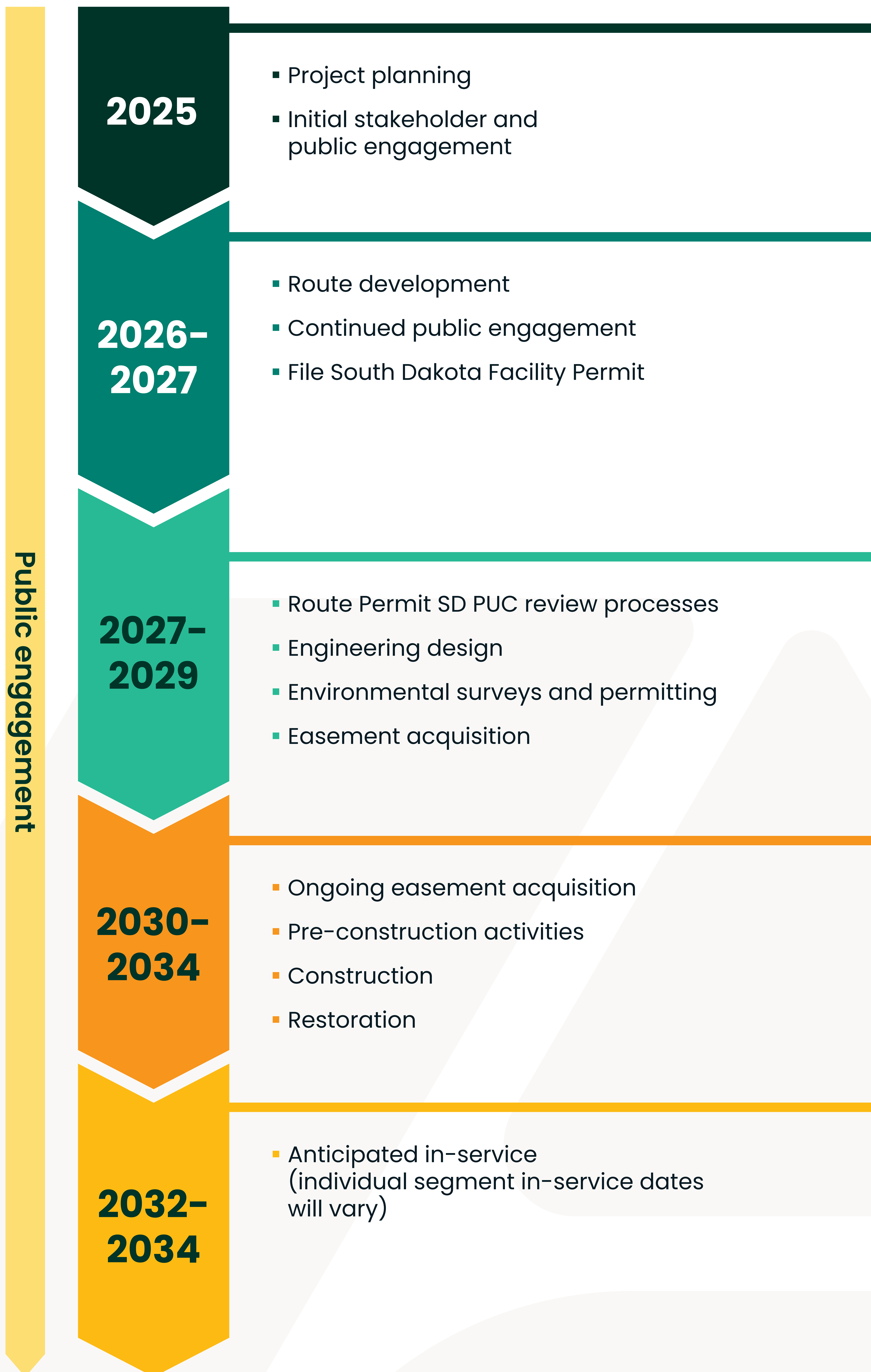
Pleasant Valley–North Rochester–
Hampton 345 kV (MISO LRTP #25)



This map shows the project area and preliminary routes that were studied in the route development process.

Please provide feedback to the PowerOn Midwest – South Dakota team about preliminary route options.

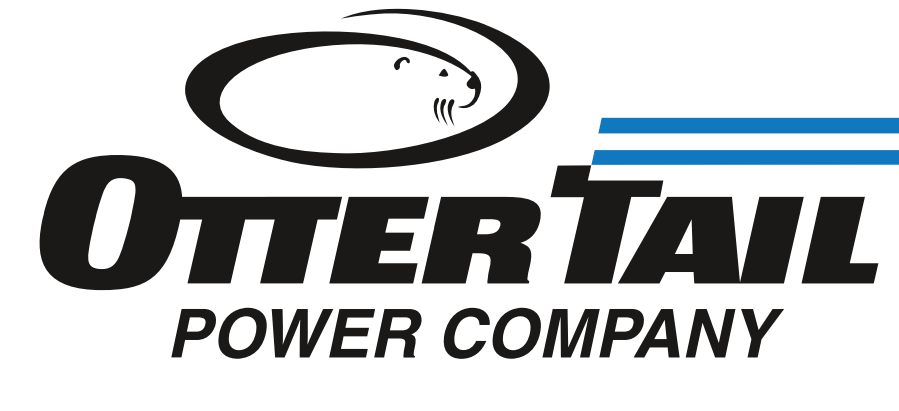
Preliminary schedule





PowerOn Midwest™

Big Stone South to Brookings



**Tomorrow's reliability
starts today**





Working together to continue providing reliable power to the communities we serve



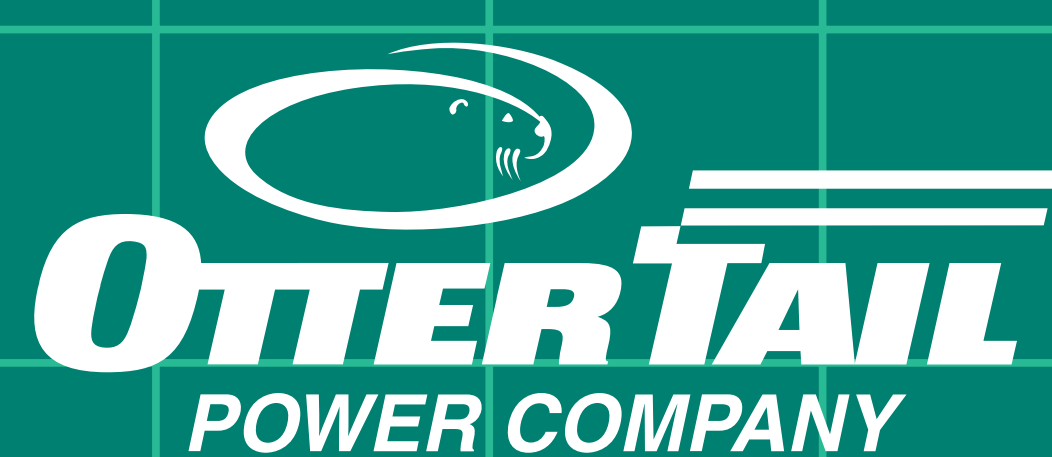
Otter Tail Power Company

Otter Tail Power Company is a subsidiary of investor-owned Otter Tail Corporation. It generates, transmits, and distributes electricity to approximately 133,900 customers in 422 communities across 70,000 square miles of Minnesota, North Dakota, and South Dakota.



Xcel Energy

Xcel Energy is a leading energy provider, dedicated to serving millions of customers with reliable, affordable energy. We make energy work better for customers, helping them thrive every day. Headquartered in Minneapolis, we work every day to generate and distribute electricity and gas to customers across eight states.

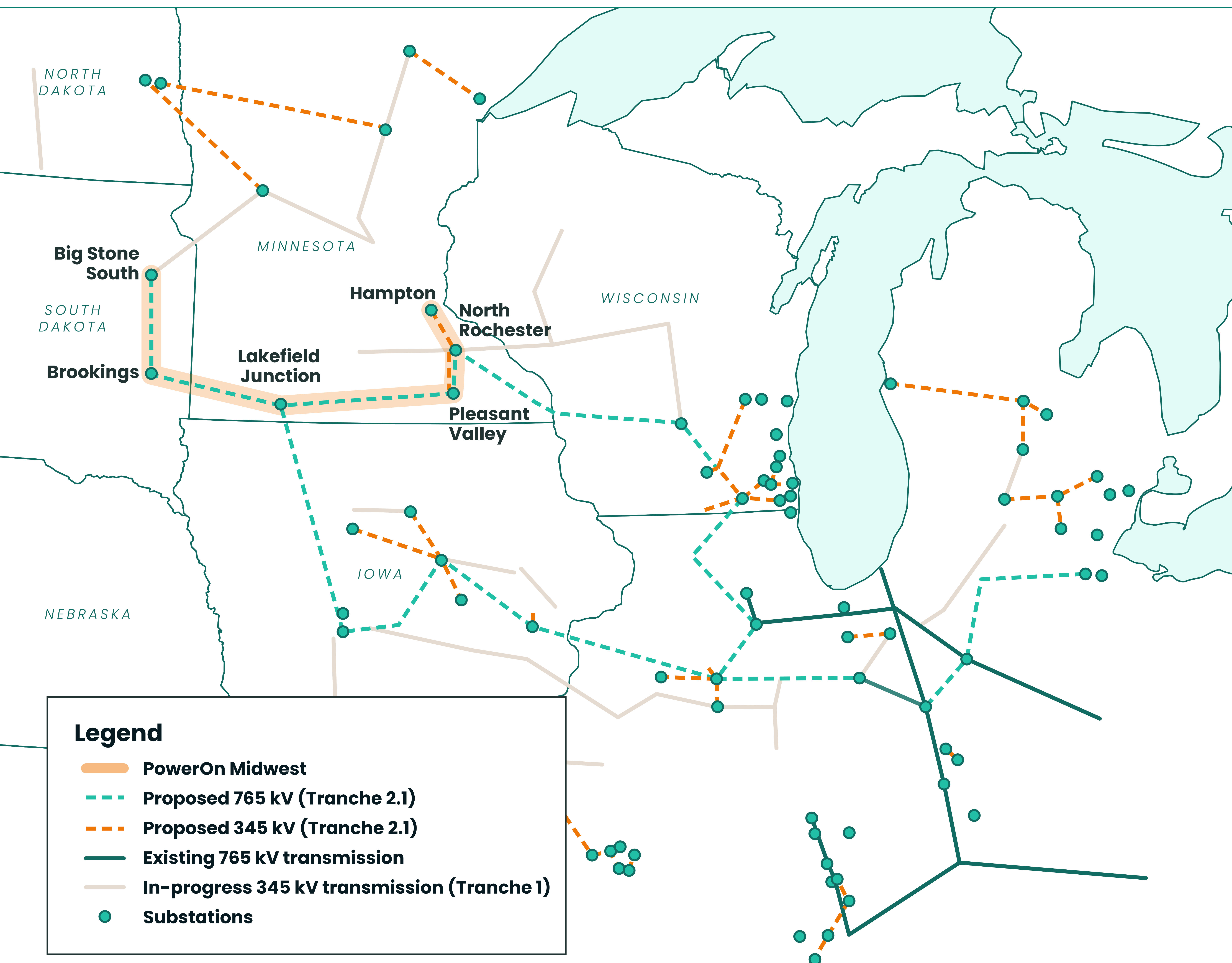


Upgrading our regional energy grid

Electricity use is growing throughout the Upper Midwest. Demand is expected to increase significantly over the next two decades due to:

- New and expanded manufacturing Technology
- Devices in our homes and businesses that use more electricity
- Growth in new industries

This increase, combined with the changing ways electricity is generated, requires long-term planning and solutions to meet the needs of our communities, states, and region to continue delivering the reliable service needed to power our daily lives.



MISO, the regional grid operator, approved this project as part of a portfolio of Long Range Transmission Projects in December 2024.

Learn more at:

misoenergy.org 

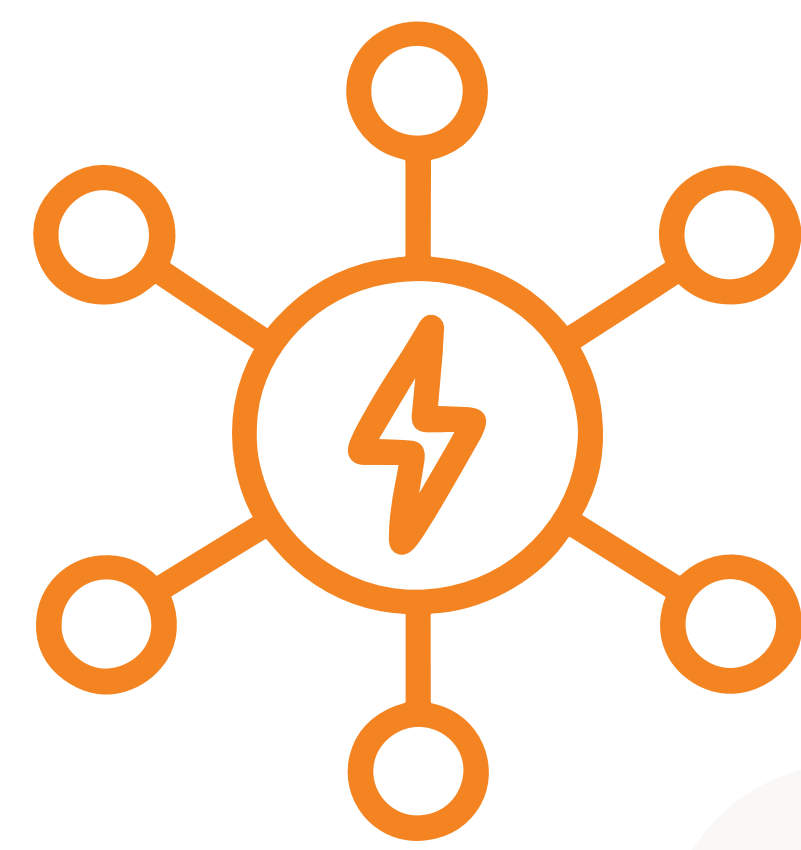


Studied solution maintains reliability and delivers key benefits



Reliable electricity

Delivers on our commitment to customers that electricity is delivered where and when it's needed—regardless of the weather, electric generation source, or demand.



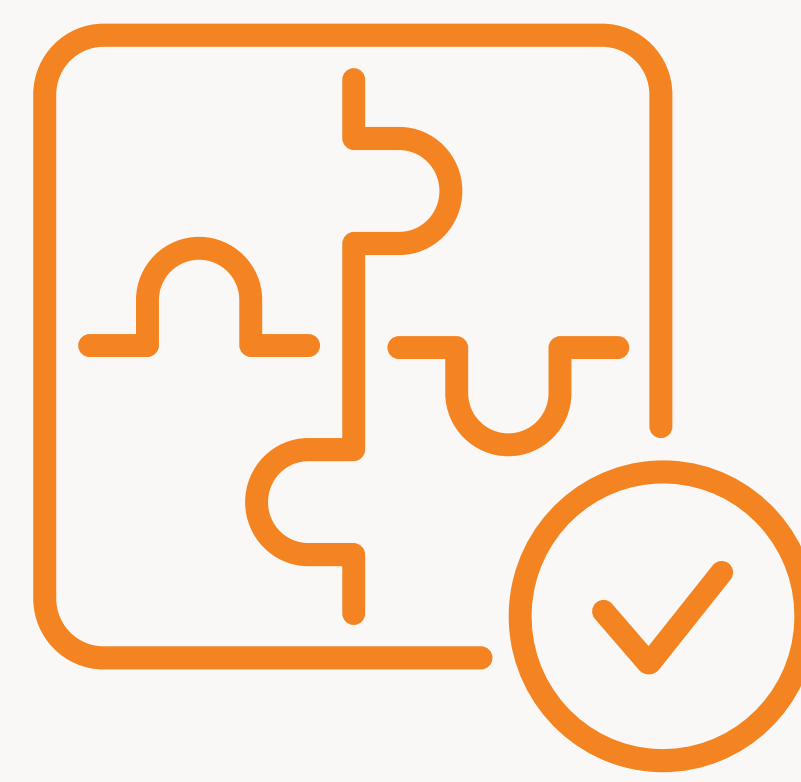
Future-ready grid

Addresses rising electricity demand, which is projected to grow significantly over the next two decades.



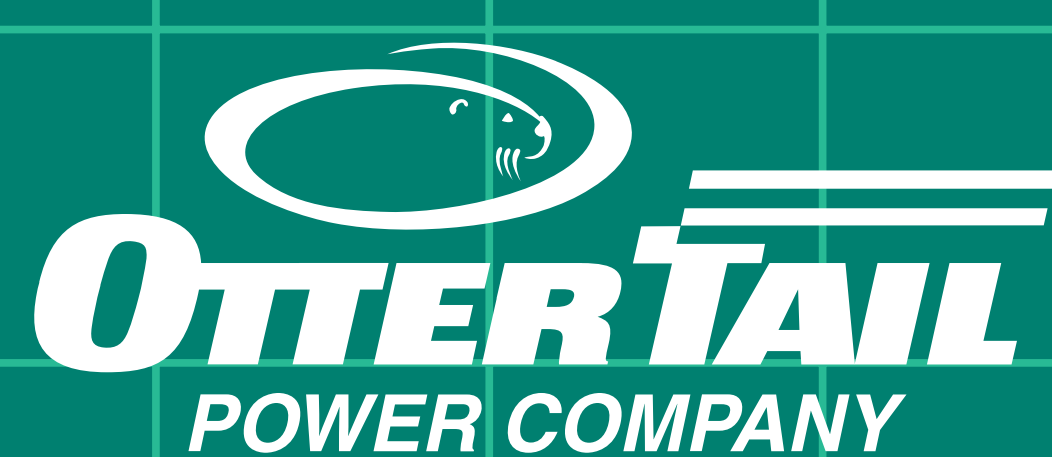
Customer and economic benefits

Enabling cost-effective generation while improving reliability, opening doors for future economic growth across the region.



Access to new electric generation

Supports a range of energy sources added to the grid, providing a balanced and reliable power supply for the future.

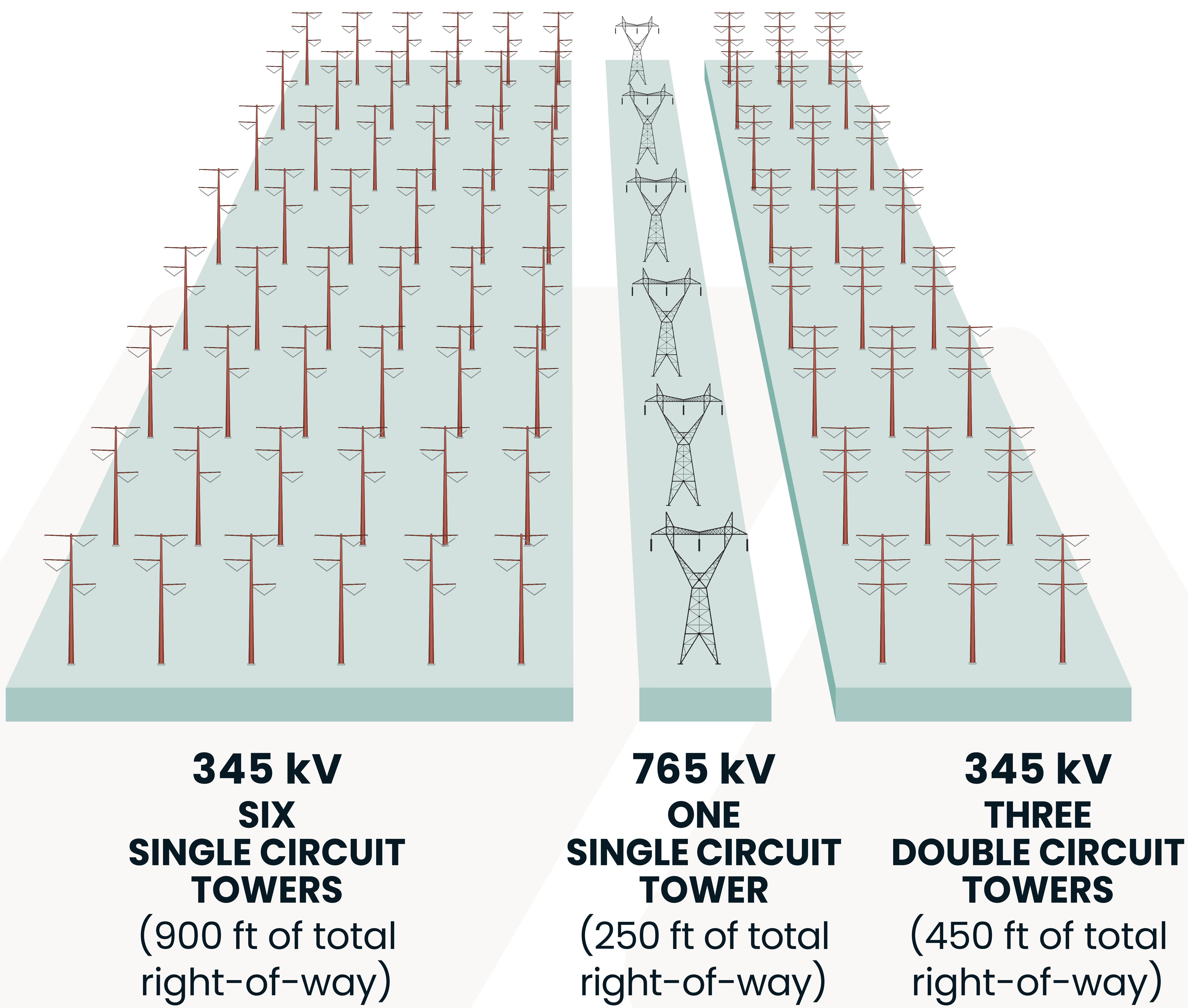


765 kV technology

765 kilovolt (kV) technology was identified in the planning process as the preferred solution for the region, presenting several advantages:

- Efficiently carries power over long distances
- Fewer transmission lines needed to carry the same amount of power
- Fewer structures reduce impact on land, communities, and the environment

- Resilient infrastructure that can consistently deliver power
- Provides backup power pathways



A 765 kV transmission line can carry as much power as six 345 kV single circuit lines or three 345 kV double circuit lines.

**Not to scale.*



Connect with us



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