

PLANNING FOR YOUR FUTURE

The Badger Coulee Transmission Line Project



Badger Coulee Line has multiple benefits

THE PROJECT WOULD:

- improve electric system **reliability** locally and regionally
- deliver **economic savings** for Wisconsin utilities and electric consumers
- support public policy for greater use of **renewable energy**

Improving electric reliability

BADGER COULEE LINE WOULD:

- improve Midwest transmission system ability to support wind power
- provide backup capability for the La Crosse area
- maintain reliability in the event of a major transmission event in southern Wisconsin

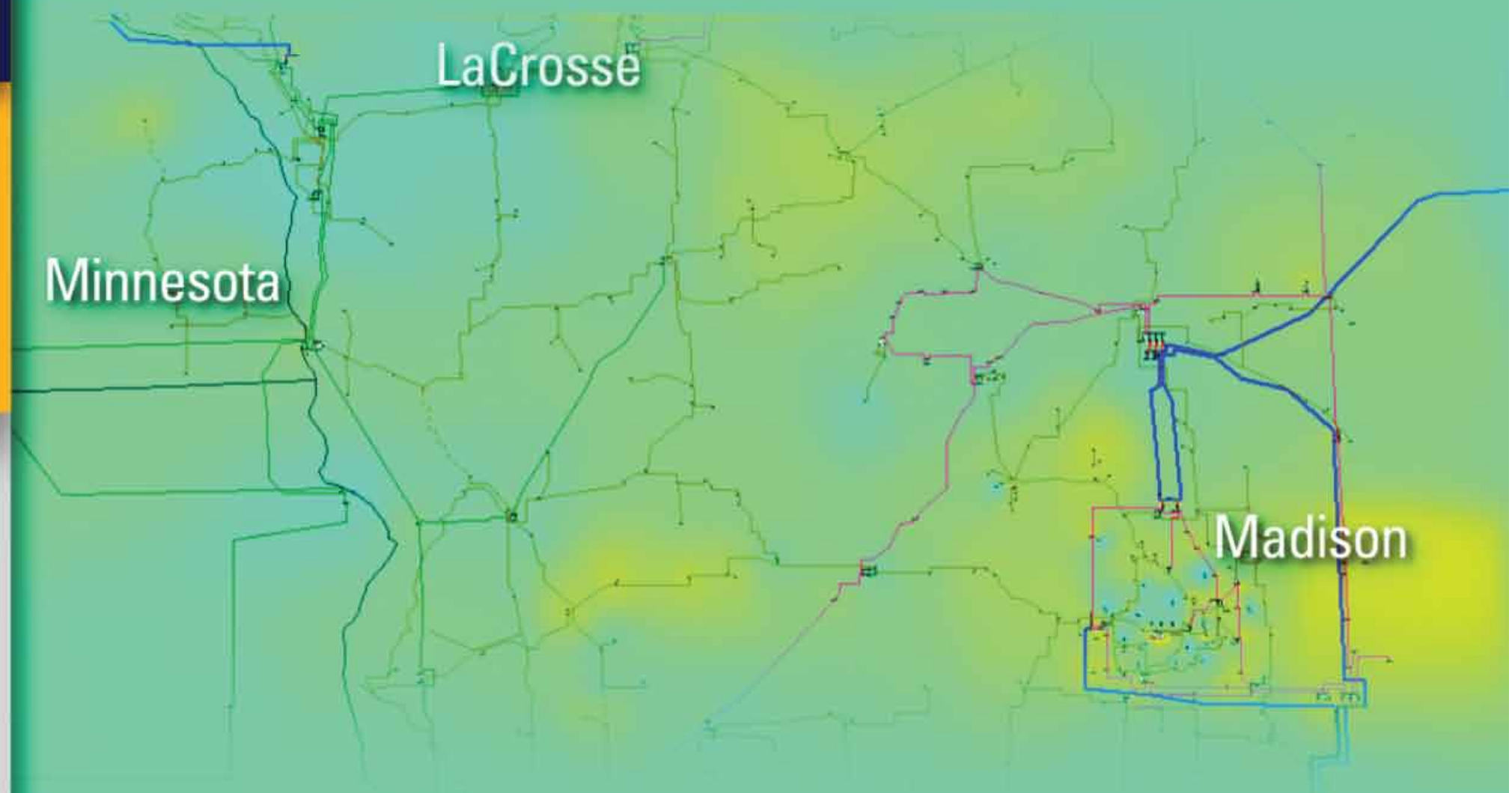


Badger Coulee Line would
improve electric system **reliability**

Transmission system at 70% of peak load

Intact system
operating **without**
Badger Coulee Line

-  Desired levels
-  Levels of concern
-  Unacceptable levels,
blackout concern

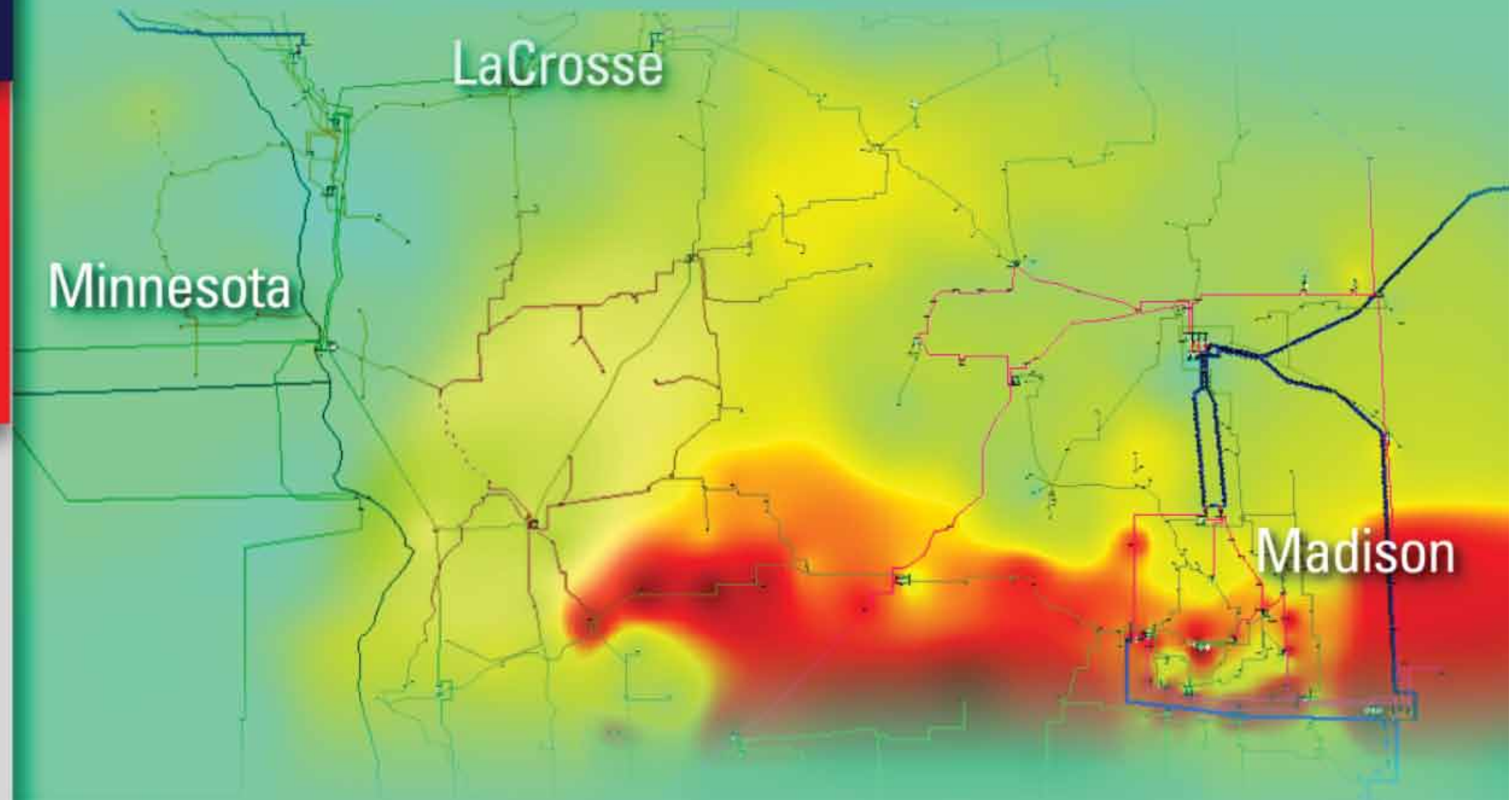


in 2018

Transmission system at 70% of peak load

Transmission outage
without Badger
Coulee Line

-  Desired levels
-  Levels of concern
-  Unacceptable levels,
blackout concern

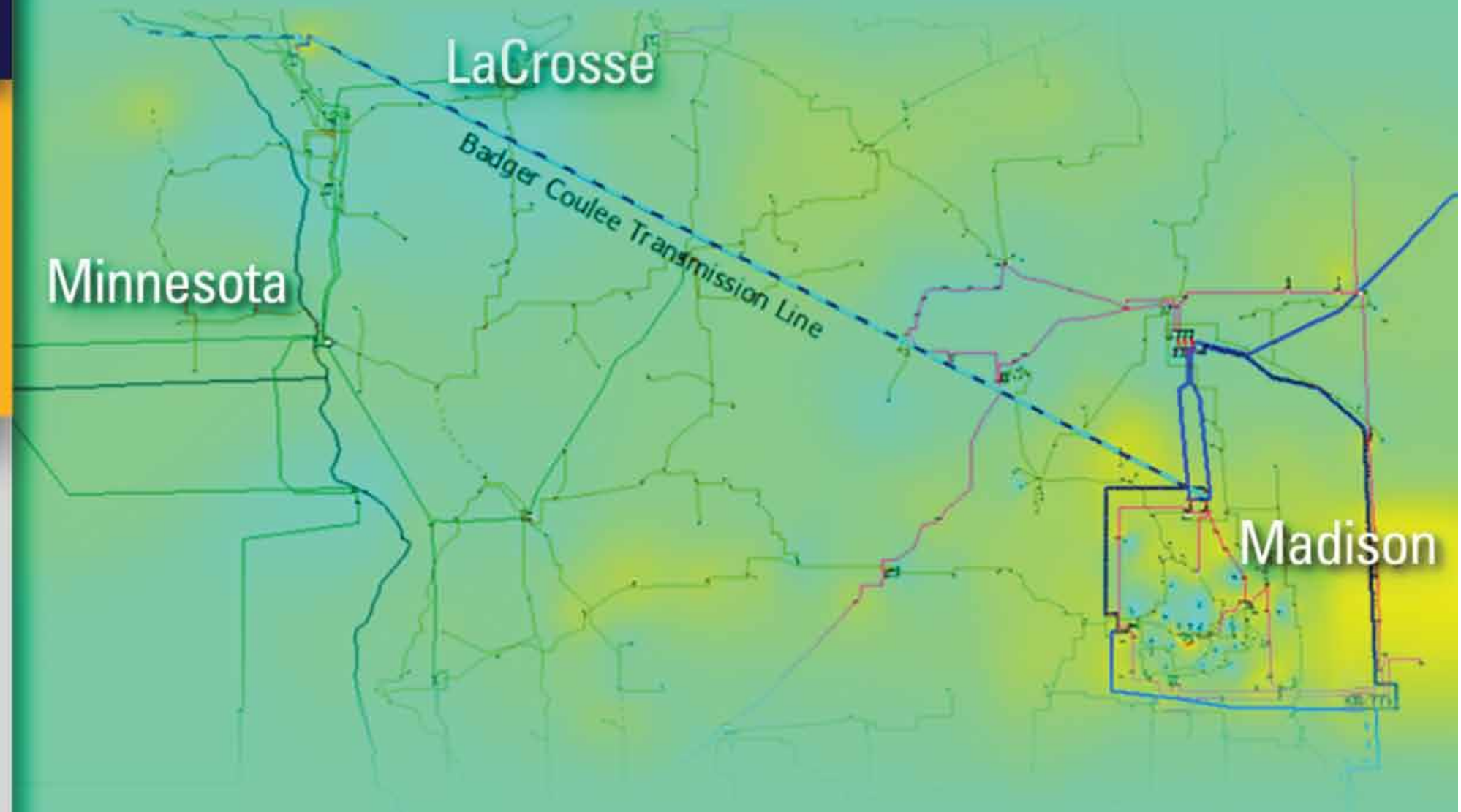


in 2018

Transmission system at 70% of peak load

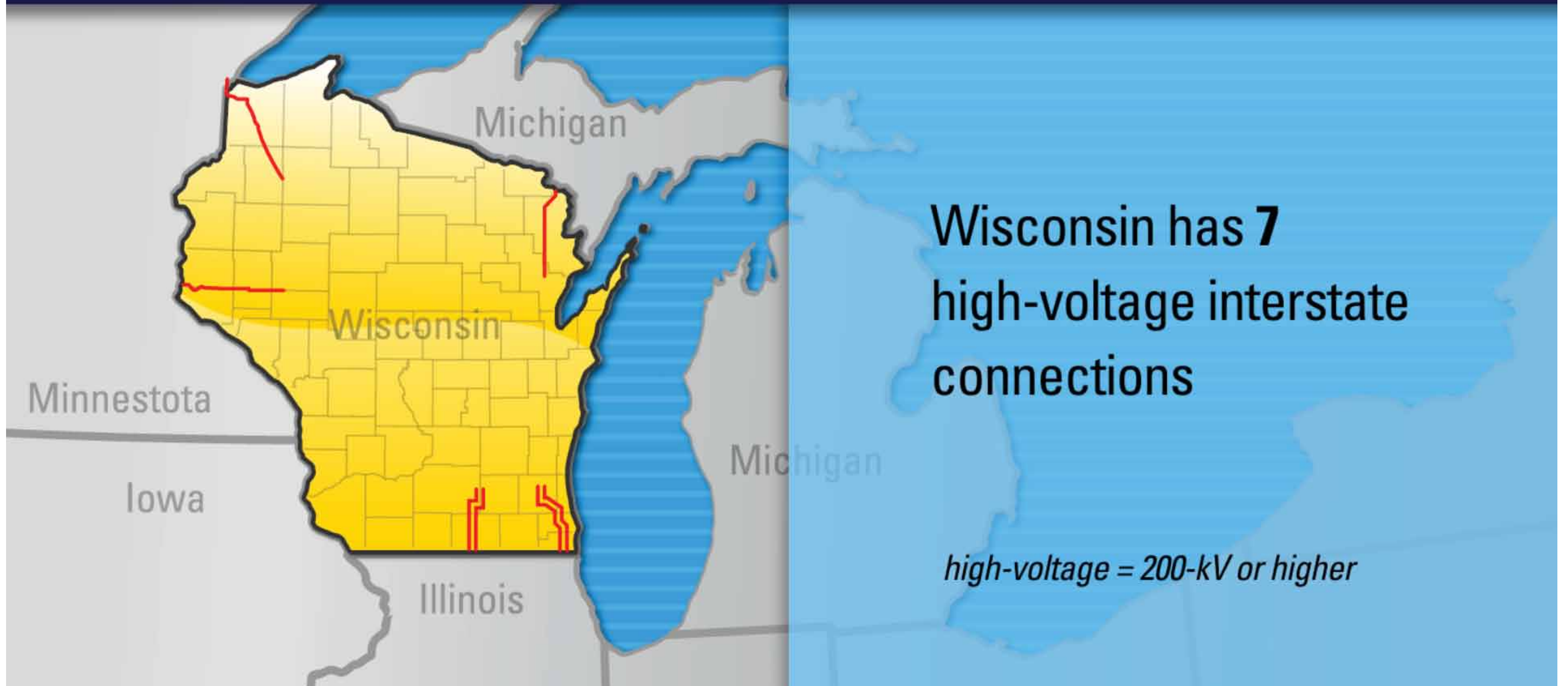
Same transmission
outage **with** Badger
Coulee Line in service

-  Desired levels
-  Levels of concern
-  Unacceptable levels,
blackout concern



in 2018

Having few high-voltage transmission lines limits ability to move power to where it is needed



Having few high-voltage transmission lines limits ability to move power to where it is needed



Having few high-voltage transmission lines limits ability to move power to where it is needed



Having few high-voltage transmission lines limits ability to move power to where it is needed



The line would give Wisconsin utilities access to regional wholesale energy markets to buy and sell power when it is economic to do so

high-voltage = 200-kV or higher



Badger Coulee Line would
deliver economic **savings**

Delivering economic savings

Badger Coulee Line would provide Wisconsin utilities with greater access to regional wholesale electricity market

- potential savings will be passed on to electricity consumers

Delivering economic savings

Badger Coulee Line would improve efficiency of grid

- reduces cost to deliver energy

Delivering economic savings

Badger Coulee Line would connect to high-quality renewable resources in nation's western wind alley

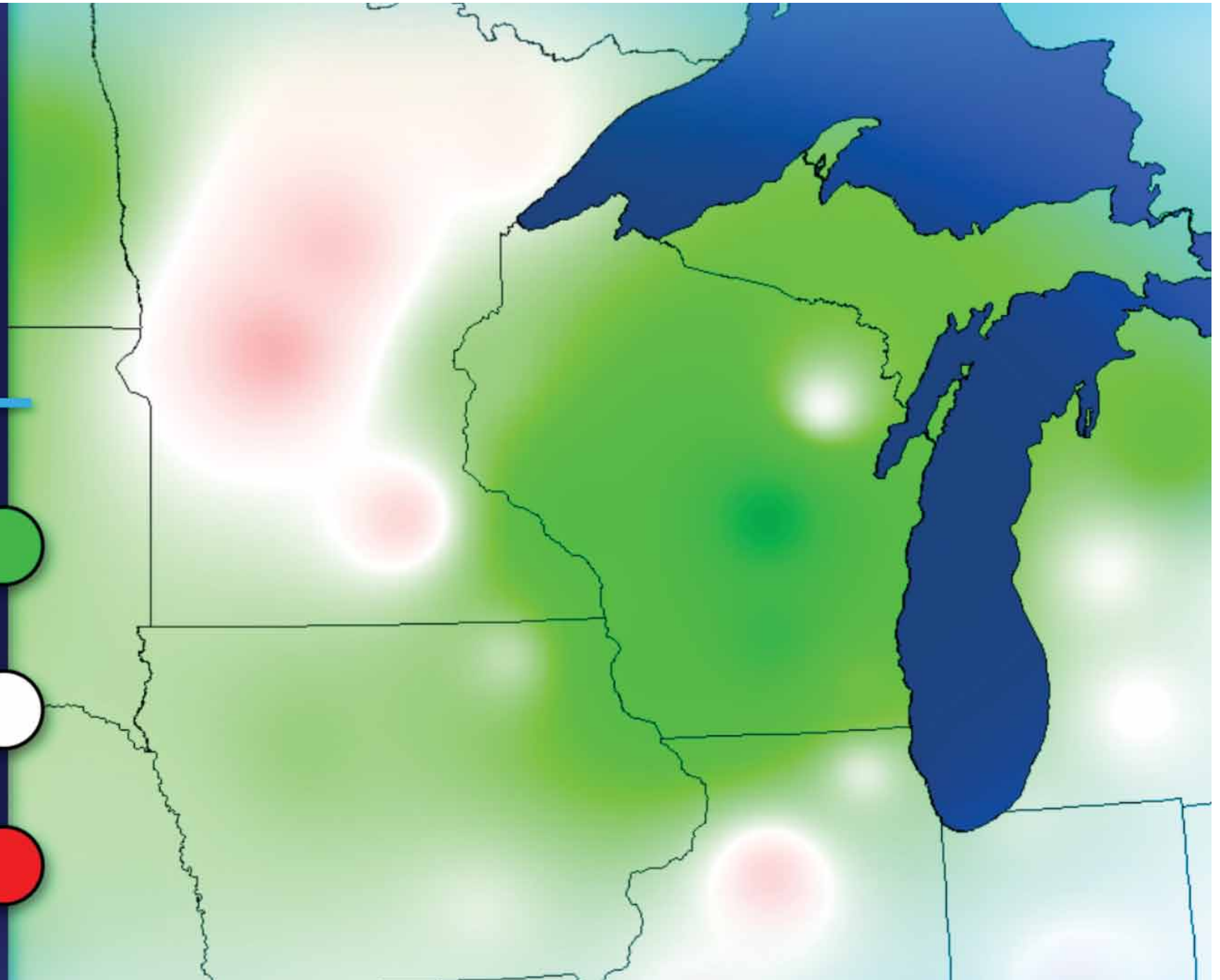
- translates into hundreds of millions of dollars in potential savings

Utility cost savings created by Badger Coulee Line

Areas where utilities
experience cost savings

Areas where there
is little to no impact

Areas where utilities
experience cost increases



Projects Avoided with Badger Coulee Line

The Badger Coulee Line will eliminate the need to upgrade 10 transmission lines and 5 substations



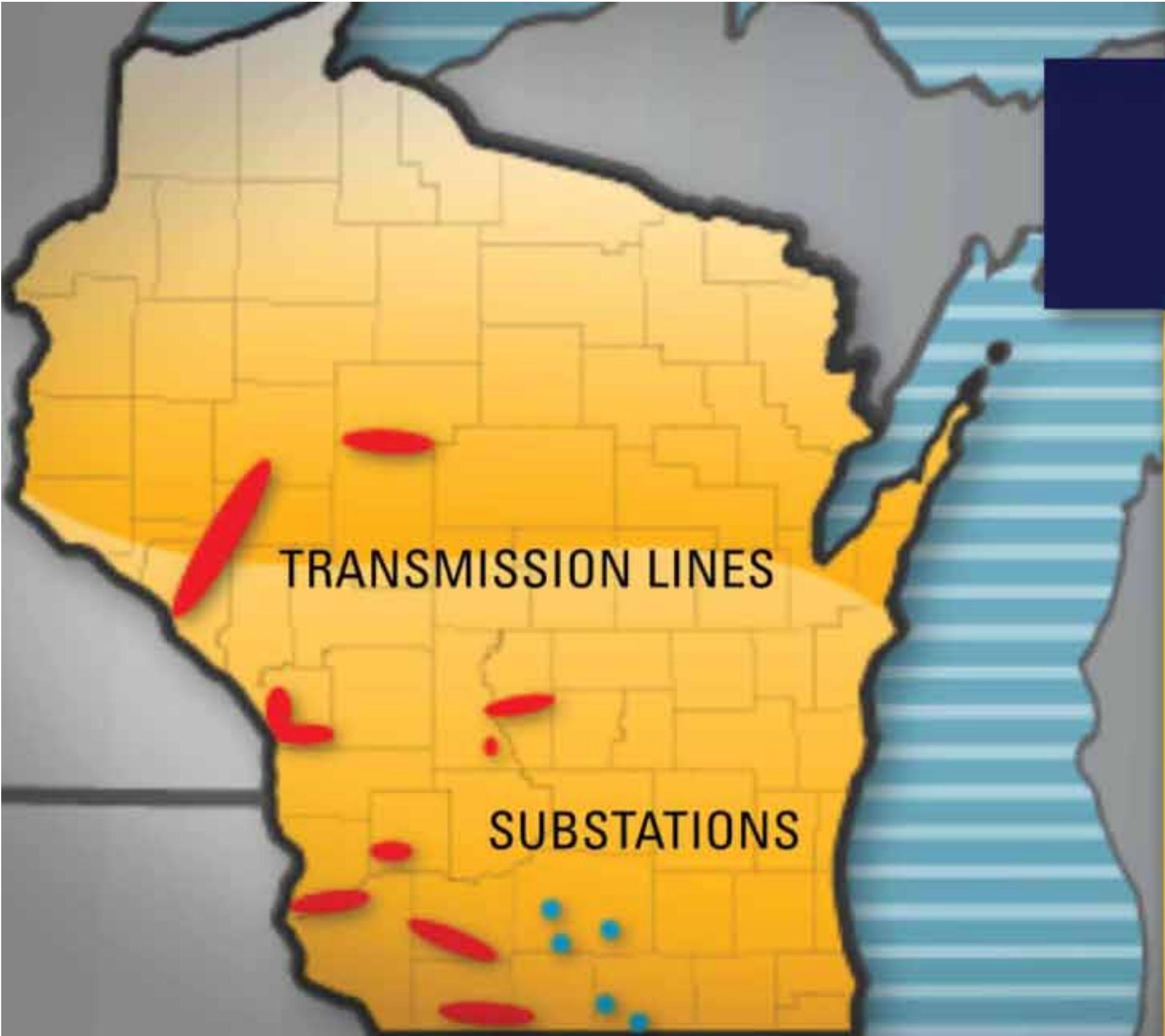
A map of Wisconsin with county boundaries. Red ovals represent transmission lines, and blue dots represent substations. The map is overlaid with a semi-transparent yellow box containing text.

TRANSMISSION LINES

SUBSTATIONS

Projects Avoided with Badger Coulee Line

Avoiding **\$160 million**
in transmission
upgrade costs



A map of Minnesota with county boundaries. Red elongated shapes represent transmission lines, and small blue dots represent substations. The map is set against a background of grey land and blue water with horizontal stripes.

TRANSMISSION LINES

SUBSTATIONS

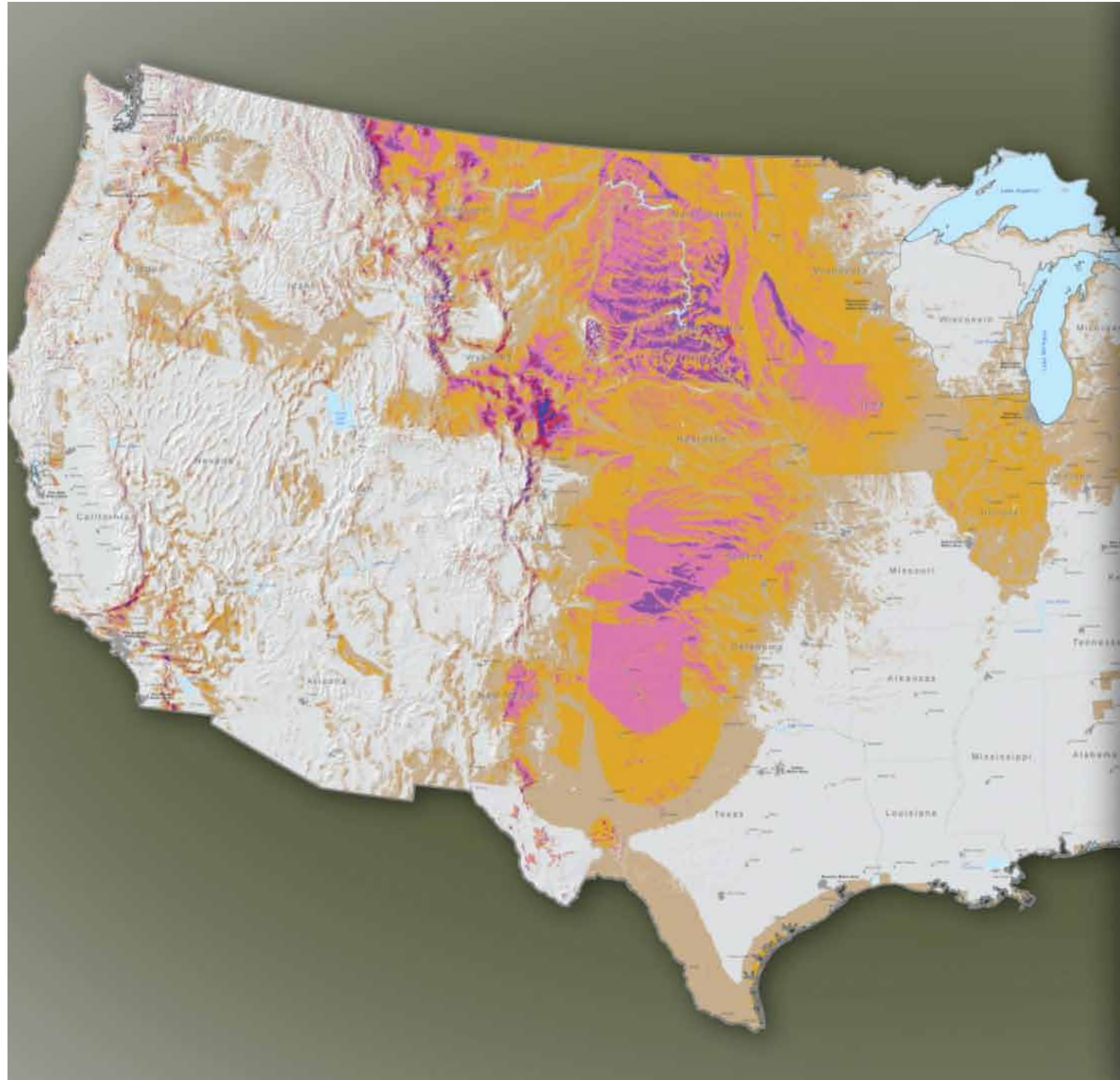


Badger Coulee Line would
support public policy for greater
use of **renewable energy**

Line would improve access to renewable energy

BADGER COULEE LINE WOULD:

- help deliver wind generation to load centers in Wisconsin
- create access to high-quality wind resources located to the west
- improve generation stability in Minnesota to support regional wind generation



**Some of the best U.S.
wind resources are in
North Dakota, South
Dakota, Nebraska,
Minnesota and Iowa**

high-quality
wind resources



**The Badger Coulee Line
would help move
high-quality wind power
into the region**

**Wind turbines:
Existing and potential
wind farms**

