

Midwestern Governor's Association

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THE “WHY” TO PURSUE

Grid Transformation

Energy Resource Transformation

Concerns about Grid Reliability and Resilience

North American Electric Reliability Council NERC Winter 2022-2023 Reliability Risk



Figure 1: Winter Reliability Risk Area Summary

NERC Summer 2023 Reliability Risk



Seasonal Risk Assessment Summary	
High	Potential for insufficient operating reserves in normal peak conditions
Elevated	Potential for insufficient operating reserves in above-normal conditions
Low	Sufficient operating reserves expected

Figure 1: Summer Reliability Risk Area Summary

COLLABORATION...ND OFFICE OF THE GOVERNOR

Holding Monthly Coordination Calls with all Agencies with IIJA Opportunities

Enabling resource and information sharing

Helping prioritize projects important to the State

Giving visibility on matching fund challenges or other constrained resources

Communicating with external partners/political subdivisions/tribal entities

Providing support for smaller communities (grant writing capacity etc)

North Dakota wants to punch above its weight in terms of funding awarded but with so many grants available, our strategy is to coordinate among agencies to ensure the programs we're prioritize will prop up our most important industry: energy and agriculture. That includes surface transportation grants to make sure that these products don't have any problems getting to market.

COLLABORATION...WITH NEIGHBORS

Supporting the Minnesota Department of Commerce

Joint Integrated Transmission Queue (MISO and SPP Seams Project)

Seeking 50% cost share of 345kV transmission in Eastern ND/SD

ND Rural Electric Cooperatives

Participant in the multi-state consortium lead by MN Dept of Commerce

Minnesota, South Dakota, Iowa and North Dakota

\$240 million dollar potential

ND TRANSMISSION AUTHORITY-FORMULA GRANT

IIJA Grid Resilience Grant Award

May 23,2023	\$7,499,037
ND State Match	<u>\$1,124,856</u>
	\$8,623,893

ND TRANSMISSION AUTHORITY GRANT GOALS/OBJECTIVES

1. To **reduce the magnitude and duration of grid outages** caused by major disruptive (storm/non-storm) events and ensure that the North Dakota grid infrastructure is less impacted by these events.
2. To **reduce the frequency and impacts** of grid outages caused by major disruptive events (storm/non-storm)
3. To implement grid modernization projects to develop energy solutions that provide **lower-cost energy access to disadvantages/underserved communities** and promote energy sufficiency and energy justice in these communities while providing clean energy opportunities.

TIMELINE

Award procedures before the ND Industrial Commission next week.

Notification to potential applicants in October

Solicitation late October

Awards prior to year end

DOE SUPPORT AND RELATIONSHIP

Very pleased with our DOE Support - responsive & helpful

Federal Project Officer – **Lucas Greza**

Project Manager – Grid Resilience – **Cory Felder**

OTTERTAIL POWER COMPANY

March 2023 - filed an application for IIJA funding under the Grid Resilience and Innovation Partnership program, or GRIP. The first application seeks over grant funding for **enhanced grid visibility**. Among other things, it would enable system intelligence that assists with situational awareness through various smart grid products.

April 2023 - second IIJA application was submitted. It seeks approximately grant support in GRIP funds for what Ottertail Power is calling their **rural reliability investment**, or RRI. In general, its goals are to reduce grid impacts from extreme weather.

Ottertail Power has also submitted **concept papers** for several additional funding topic areas.



NORTH DAKOTA ELECTRIC COOPERATIVES

NDAREC hosted a **Project Development Workshop in May 2023** to solicit input from NDAREC members about the types of projects they'd like to compete for federal funding from Bipartisan Infrastructure Law (BIL) programs.

NDAREC, consultant and members have been sifting through the feedback and brainstorming options and concepts that provide the highest potential to compete for grant funding.

Project tracts have been narrowed to:

OURND: Overhead-to-Underground project

POWER: Transmission project – to improve redundancy, resilience and increase economic opportunity in rural places

This ambitious resilience effort is open to all NDAREC members. NDAREC will work with members this fall to complete applications and plans to be prepared to submit applications to the Department of Energy early next year 2024.

Also, a participant in the multi-state consortium led by Minnesota Department of Commerce

MINNKOTA POWER COOPERATIVE

Participating in a **consortium of multi-state cooperatives** as it relates to the GRIP program in the IIJA. Between several G&Ts, led by their state's commerce department, the group is applying for federal funds.

A proposal by the Minnesota Department of Commerce, along with regional electric co-op and municipal utility partners, for over **\$240 million in federal energy funds** has received the U.S. Department of Energy (DOE) nod of approval to move forward with a full application. The funds would come from the Grid Resilience and Innovation Partnerships program (GRIP) if the DOE approves the final application, which was submitted May 19. The DOE is expected to announce awards later in 2023.

Interest in New ERA opportunities

Confidential yet

BASIN ELECTRIC POWER COOPERATIVE

New ERA \$9.7 Billion earmarked for electric cooperatives

10% single cooperative cap

Possibilities for Basin

Carbon capture technology for coal-fired power plants

Solar & Wind Projects

XCEL ENERGY

Partner in the ND Heartland **Hydrogen Hub**.

Submitted two applications for Grid Resilience projects (Xcel NDSPM, the “prime” applicant)

Expansion of Xcel’s Private LTE network

Activities to harden the grid against extreme weather

Operating companies will receive funds as sub awardees if we are successful. Hope to hear on all three of these applications in the next month or two.

N O R T H
Dakota

Be Legendary.