

**South Dakota Infrastructure Rider
Project List and Descriptions**

Existing Rider Projects

The following project was approved for recovery by the Commission in the Company's Infrastructure Rider in Docket No. EL20-026 and reaffirmed for cost recovery most recently in Docket No. EL23-025:

- A.0001707.001-Dakota Range I
- A.0001707.004-Dakota Range II

The following projects were approved for recovery by the Commission in the Company's Infrastructure Rider in Docket No. EL21-028 and reaffirmed for cost recovery most recently in Docket No. EL23-025:

- A.0001742.001-Northern Wind
- A.0001890.001-Rock Aetna
- A.0001566.172-Nobles Wind

The following projects were approved for recovery by the Commission in the Company's Infrastructure Rider in Docket No. EL23-025:

- A.0001576.022-GDM Grand Meadow Repower

From Rate Case Known and Measurables (K&Ms):

- A.0000035.186-PI CT11,CT12 Transformer
- A.0000035.313-PI 121-128 Intake Transformer
- A.0000035.403-PI 2022 Capital Maintenance
- A.0000040.069-PI U2 Baffle Bolt Replacement
- A.0000045.001-Prairie Island Dry Cask Storage
- A.0000053.006-Prairie Island Wireless Network Expansion
- A.0000073.005-Prairie Island 122 Cooling Tower Rebuild
- A.0001320.007-NSPM Comm Network Program
- A.0001571.023-ANS2 CT Maj OH Replacement
- A.0001575.170-High Bridge Unit 8 Major Combustion Turbine Overhaul

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- A.0006056.002-MN-Distribution Fleet New Unit Purchase
- A.0006056.091-MN Transportation Units Over 50K
- A.0010021.007-SD - Pole Replacement Blanket
- A.0010147.003-Louise Line and Sub
- A.0010174.001-Great Plains Area Sub
- A.0010174.002-LINE Install Great Pl

- D.0001804.355-Critical Infrastructure Program (CIP) Substation Ph2 SW
- D.0001810.118-Chanhassen New SC
- D.0001810.119-Marshall Operations Center
- D.0001810.139-Belle Plaine SC
- D.0001810.144-Grand Forks New Const
- D.0001810.146-Belgrade SC New
- D.0001853.003-ITC-Distributed Intelligence SW
- D.0002533.003-ITC-DI Services Platform
- D.0001900.016-FAN - AGIS - NSPM - M
- D.0001901.008-AGIS Meter Data Management
- D.0001901.057-AMI-DIST-NSPM-SD Full
- D.0001901.071-AMI-SW-License-BS-NSP
- D.0002038.004-Dynamic DEMS Environment Ph4 HW MN-10756
- D.0002181.005-ITC-Strategic Fiber D
- D.0002223.006-ITC-Customer Care IVR
- D.0002240.006-ITC-HCM Core Payroll
- D.0002333.001-ITC Independent System Operators (ISO) Interface & Stlm
- D.0002488.005-ITC-LFCM Operational Technology Modernization

Additional Projects

- A.0000017.165-Monticello 2022 Maintenance Blanket
- A.0000017.203-Monticello 2023 Maintenance Blanket
- A.0000017.215 Monticello Replace Turbine Stop Valves
- A.0000035.456-PI Prairie Island Unit 2 Reactor Vessel Lower Radial Clevis Bolts
- A.0001573.325-BD Black Dog S2 High Pressure Turbine Blades Replacement
- A.0005553.001-COMM Communications Fiber Buildout
- A.0005587.001-South Dakota Major Storm Recovery

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- A.0006056.367-Distribution Fleet ADD Unit Purchase
- A.0006056.369-Fleet ADD Units El Trans >50K
- A.0010013.001-SD - OH Relocation Blanket
- A.0010021.001-SD - OH Rebuild Blanket
- A.0010029.001-SD - URD Cable Replacement Blanket
- A.0010079.003-Rebuild Cherry Creek CHC321

- D.0001856.001-ITC Monitoring Device Management SW 20017
- D.0001927.001-ITC-Marshall Operation Center NP M
- D.0001994.063-ITC-VMWare-200148-MN
- D.0002011.013-ITC-WAN Routine HW NSPMN
- D.0002153.023-ITC-Microsoft License SW 200148
- D.0002350.003-ITC-SAS BookRunner Upgrade SW 200134
- D.0002515.003-ITC-OT Monitoring 2021 NSPW
- D.0002515.034-OT Monitoring 2021 HW
- D.0002515.038-OT Monitoring 2021 SD
- D.0002518.001-ITC-Lifecycle Management (LFCM) Data Storage Rout HW
NP MN

Red Wing (REW)

- A.0001562.051-REW1C Replace Unit 1 Traveling Gate Bed
- A.0001562.139-REW2C Replace Unit 2 Traveling Gate Bed
- A.0001562.149-REW1 Replace Unit 1 Superheater-Secondary-2
- A.0001562.207-REW0 Landfill Liner Phase 1

Wilmarth (WLM)

- A.0001565.077-WLM0C Slaker PLC Replacement
- A.0001565.116-WLM1C Unit 1 Static Exciter
- A.0001565.125-WLM2-Replace Unit 2 Boiler Grates 2022
- A.0001565.129-WLM1-Replace Unit 1 Superheater Bundle -12
- A.0001565.144-WLM99-Replace Walking Floor 2022-17
- A.0001565.160-WLM1New Unit 1 ID Fan Motor and VFD
- A.0001565.163-WLM0-Greensand Filter for Reverse Osmosis Water

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Proposed New Infrastructure Projects

Projects in service in 2024 or later are subject to a threshold of \$250,000 in revenue requirement at the South Dakota jurisdictional level outlined in the Settlement Stipulation in Docket No. EL22-017. The Company has identified five projects meeting the threshold by the time the projects are in-service for an entire year in 2026.

A.0001610.013 - Border Winds Repower: Border Winds is a 150 MW wind facility located on approximately 24,640 acres of land in Rolette County, North Dakota. The facility was originally placed into service in 2015, interconnecting at the Peace Garden 230 kV substation, where NSP is also the Transmission Owner. The proposed project will repower the full capacity of the facility, **[PROTECTED DATA BEGINS**

PROTECTED DATA ENDS], and it will continue to use the existing interconnection. We expect the repowered project will commence operation in 2024, and that the repowering work will extend Border Winds' useful life, to 25 years from the repowered project's COD.

The Border Winds Repower is expected to achieve a net capacity factor (NCF) of approximately **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]**, resulting in an average annual production of approximately **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]** per year, depending on final layout and turbine selection. This represents an efficiency gain of nearly **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]** over the existing facility's average annual gross energy production levels. Total capital costs for the Border Winds Repower are currently estimated at approximately **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]** including AFUDC, which also covers the decommissioning expenses for the removed components. Given the estimated COD of 2024, we believe the project will qualify for **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]** PTCs over its first ten years of repowered operation. The estimated LCOE for the project is **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]**, which represents a **[PROTECTED DATA BEGINS** **PROTECTED DATA ENDS]** reduction relative to the existing facility.

Over the repowered project's expected 25 years of useful life (from the date of the repower project's COD), the local area will benefit from extended average landowner

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payments of approximately **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** per year, and average local property tax revenue of approximately **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** per year. In total, these benefits amount to nearly \$1.4 million per year.

See Attachment 12A for a cost-benefit analysis of the Border Winds Repower project.

A.0001611.014 - Pleasant Valley Wind Repower: Pleasant Valley is a 200 MW wind facility located on approximately 72,740 acres of land in Mower County, Minnesota. The facility was originally placed into service in 2015, interconnecting at the Pleasant Valley 161 kV substation, via a GIA between the Company and Great River Energy (GRE). The proposed project will repower the full capacity of the facility, **[PROTECTED DATA BEGINS**

PROTECTED DATA ENDS], and it will continue to use the existing interconnection under our GIA. We expect the repowered project will commence operation in 2024, and that the repowering work will extend Pleasant Valley's useful life, to 25 years from the repowered project's COD.

The Pleasant Valley Repower is expected to achieve a net capacity factor (NCF) of approximately **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]**, resulting in an average annual production of approximately **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** per year, depending on final layout and turbine selection. This represents an efficiency gain of **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]**, relative to the existing facility's estimated average annual gross energy production. Total capital costs for the Pleasant Valley Repower are currently estimated at approximately **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** including AFUDC, which also covers decommissioning expenses for the removed components. Given the estimated COD of 2024, we believe the project will qualify for **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** PTCs over its first ten years of repowered operation. The estimated LCOE for the project is **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]**, which represents a **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** reduction relative to the existing facility.

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Over the repowered project's expected 25 years of useful life (from the date of the repower project's COD), the local area will benefit from extended average landowner payments of approximately [PROTECTED DATA BEGINS PROTECTED DATA ENDS] per year, and average local property tax revenue of approximately [PROTECTED DATA BEGINS PROTECTED DATA ENDS] per year. In total, these benefits amount to over \$3.1 million per year

See Attachment 12B for a cost-benefit analysis of the Pleasant Valley Repower project.

A.0001559.052 - Black Start Conversion: This project will install backup power generation, switchgear, controls upgrades, and other equipment required to operate [PROTECTED DATA BEGINS PROTECTED DATA ENDS] as Black Start trigger units for the NSPM system. Conceptual design includes the installation of 28 MW of new reciprocating internal combustion engine (RICE) capacity sized for starting and operating the plant with no external power supply. Installation or modification of medium voltage switchgear with upgraded or new controls allowing for complete automation of emergency site power. Installation of a redundant CT starting system. The reciprocating engines will utilize the existing site infrastructure including natural gas supply and 115 kV interconnecting facilities. Provisions will be included for future remote operation. RICEs will be dual fuel with 48 hours of onsite fuel oil storage. This project is anticipated to go in-service in December 2025.

A.0001810.162 - St. Cloud New Service Center: A new service center in Waite Park, Minnesota will be constructed to replace the existing St. Cloud Service Center. The new facility is being built on a 19-acre parcel and will include a 63,960 square foot service center, 30,000 square foot fleet building, and 34,000 square foot vehicle storage building. The facility, expected to be completed by the end of 2025, will support the Company's electric and gas operations.

A.0000017.305, A.0000017.306, A.0000033.050, A.0000033.051, A.0000033.053 & A.0000033.059 - Monticello Nuclear Generating Plant Ground Water Mitigation: This project will increase the storage capacity of stored ground water. The increased volume creates more availability of water for use in emergent situations, which gives Monticello Nuclear Generating Plant greater plant resiliency. This project is expected to be fully completed by September 2025.