Infrastructure Rider
Project List and Descriptions

Existing Rider Projects

The following projects were 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. EL24-029:

- 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. EL24-029:

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

The following project was approved for recovery by the Commission in the Company's Infrastructure Rider in Docket No. EL23-025 and reaffirmed for cost recovery most recently in Docket No. EL24-029:

- A.0001576.022-GDM Grand Meadow Repower

The following projects were approved for recovery by the Commission in the Company's Infrastructure Rider in Docket No. EL24-029:

- A.0001610.013 - Border Winds Repower
- A.0001611.014 - Pleasant Valley Wind Repower
- A.0001559.052 - Black Start Conversion
- A.0001810.162 - St. Cloud New Service Center
- 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

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
- 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
- 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

Proposed New Infrastructure Projects

Projects in service in 2024 or later are subject to a minimum threshold of $250,000 in revenue requirement at the South Dakota jurisdictional level outlined in the 2022 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 2027.

Wildfire Risk Mitigation

The Company's planned investments to mitigate wildfire risk are an important on-going and multi-faceted project that impacts the distribution system. The Company anticipates making some investments during 2025 and then increasing those investments in 2026. Given that timing, those planned investments are not reflected in the 2024 historic test year of our currently pending rate case. After conferring with Staff, the Company is seeking cost recovery for qualifying investments through the Infrastructure Rider, subject to the processes and Commission oversight provided for in Section 5-74 of the Company's Rate Book. More detailed information on our efforts to mitigate wildfire risk is provided in Attachment 13.

A.0001523.077 Black Start 2

This project will construct a new natural gas combustion turbine and five Reciprocating Internal Combustion Engine (RICE) units **[PROTECTED DATA BEGINS**

PROTECTED DATA ENDS] as Black Start trigger units for the NSPM system. Black Start capability is the ability to restart the entire electric system in the event the whole system goes down. The project is needed to provide needed capacity, stability support, and transmission system reliability, particularly at times of peak energy demand. The necessary regulatory approvals have been issued, and the project is planned to be in service in December 2025.

The Company needs more black start capability in order to move to a proposed zonal plan from our existing two-island plan as we retire our traditional generation sources and build more dispersed renewable generation plants. In addition, the existing black start generation is planned to be retired in the next 5 years. The existing black start units in Minnesota will be retired in 2026. The existing black start units in Wisconsin will no longer be capable of supporting the restoration plan in Wisconsin after 2025.

The Company is undertaking a new multi-zonal plan to reliably restart the system in the event of system-wide disruption. The new multi-zonal plan will leverage existing

and anticipated future renewable assets as our system transitions to be more reliant on decentralized generation assets. The new multi-zonal approach involves utilizing regional islands to provide a more diversified, and therefore resilient, approach to system restoration.

As we install more dispersed generation, we will need the ability to start up additional islands, allowing us to reconnect generation and loads in a timely manner across a bigger geographic region than we are able to do with the two-island plan, which will have reduced capabilities due to unit retirements.

The new multi-zonal approach utilizing regional islands to provide a more diversified, resilient, and responsive approach to system restoration will require additional firm dispatchable generation to leverage existing and anticipated future renewable assets as our system transitions to be more reliant on decentralized generation.

[PROTECTED DATA BEGINS

PROTECTED DATA ENDS]. This process would set up an island, as discussed above, where part of the transmission and distribution systems would begin serving at least part of the customer load in that area. Once the Company determines an area is stable, the Company can synchronize and reconnect/restore additional generators and load, expanding the island and restoring our interconnections with other utilities until the system is fully restored.

D.0001813.154 Chestnut Service Center Redevelopment

Service centers provide a home base for the Xcel Energy teams that perform essential maintenance on energy infrastructure and quickly respond to any issues that might arise, such as outages from storms. The Chestnut Service Center Redevelopment project consists of two main phases and is located in downtown Minneapolis. The first phase is the selective demolition of an existing 2-story building that will be fully remodeled into material storage areas and laboratory spaces. The second phase consists of the full demolition of an existing 3-story building and the construction of a new 3-story precast concrete building in its place. This building will be used for office spaces along with service and storage areas for all the Xcel Energy service trucks for the downtown Minneapolis region. During the construction, the entire utility infrastructure is also being renovated throughout the complex to better serve Xcel Energy's needs.

Advanced Grid Intelligence and Security (AGIS)

The Company is continuing implementation of various components of the Advanced Grid Intelligence and Security (AGIS) Initiative to modernize the distribution system. These investments are making the grid smarter and more responsive, increasing system visibility and control, and enabling expanded customer options. In 2022, we began deploying Advanced Metering Infrastructure (AMI) meters across our service territory and plan to complete deployment in 2025, as well as deployment of the associated Field Area Network (FAN) that provides wireless communications to and from meters, substations, intelligent field devices, and our information systems. These AMI meters provide value to our customers by increasing visibility and information that allow for greater energy usage insights, reliability improvements, and enhanced rate and demand side management (DSM) offerings. AMI will also provide benefits for the Company by enhancing utility planning and improving operational capabilities. We are also continuing deployment of Fault Location, Isolation, and Service Restoration (FLISR) to reduce the duration of customer outages. FLISR works by detecting faults on overhead feeders, isolating the fault, and restoring power to the unfaulted portions of the feeder. These AGIS investments, in concert with future investments, will provide cumulative benefits that will help to modernize the distribution system while also providing improved customer experience. The Company includes AGIS related capital from 2022-2025 not already being recovered. AGIS expenses will roll into Base Rates January 1, 2026.

D.0001810.174 St. Paul Service Center

Service centers provide a home base for the Xcel Energy teams that perform essential maintenance on energy infrastructure and quickly respond to any issues that might arise, such as outages from storms. The new facility will house field crews, dispatchers and design teams working on the Company's electrical and natural gas systems, along with the expanded office spaces, equipment storage and maintenance shops. The site will also include room for 50 percent more fleet vehicles. The new service center will provide a larger space to fit the needs of crews and improve safety by enhancing safety communications and providing technology support for employees and contractors. The Service Center will also be in an area with easier access to freeways and better proximity to expected future work that will improve response times. The 375 employees currently based at the Rice Street service center will move to the new facility once the site becomes operational in late 2026.