



Reporting Item

May 16, 2023

ITEM

Power with Purpose; Natural Gas Generation, Energy Delivery and Solar Updates

PURPOSE

Provide updates on Power with Purpose projects for May 2023.

TURTLE CREEK STATION & STANDING BEAR LAKE STATION FACTS

- a. Engineering, procurement, and construction activities are in progress. As all procurement and material receipt is not complete, the teams continue to monitor and work through supply chain, resource, and schedule challenges including delays.
- b. At Standing Bear Lake Station, preparations are underway on the site heavy haul road and in the engine hall for the upcoming move of engines and generators into the engine hall. In the substation area, horizontal bus fabrication is in progress and yard compaction is being verified to support installation of rock.
- c. At Turtle Creek Station, exhaust and stack parts for units one and two are being assembled and set and cable tray supports for the electrical packages are being installed. In the substation area, fencing is being erected and work continues on duct bank runs, jumpers, and potential and current transformers.

ENERGY DELIVERY FACTS

- a. All construction associated with the Sarpy Southwest Transmission Project has been completed and is ready for energization. Property restoration and landowner settlements are the next steps for project close-out activities.


SOLAR FACTS

- a. The 81-megawatt Platteview Solar facility in Saunders County continues to make progress. AES and their engineering, procurement, and construction (EPC) contractor, Blue Ridge Power, are working on various civil work activities to including site access, cut and fill, laydown and office areas, and perimeter fence erection. Solar field build out is expected to begin this summer. Construction on the interconnection substation also continues to progress.
- b. The industry continues to seek further details and guidance for the Inflation Reduction Act (IRA) from the Department of Treasury and Internal Revenue Service (IRS). In light of this, OPPD staff continue to work with industry experts, including financial, tax, legal, and suppliers, to evaluate these policies and understand how to optimize the pursuit of solar deployment for customer owners.
- c. Staff continue to track and maintain a development pipeline of potential projects, informed by ongoing discussions with project developers, suppliers, and other industry experts.
- d. OPPD staff continue to engage with local jurisdictions to support the development of solar regulations and provide education on solar technology.

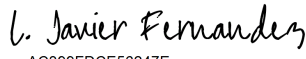
NORTH OMAHA CONVERSION AND EXTENSION PROJECT FACTS

- a. Fabrication of the North Omaha Station Unit 5 natural gas and fuel oil capable burners is in progress at the manufacturing facilities. Preparations for receipt and storage of the burners and associated components began during the March 2023 planned outage.
- b. The Title 132 landfill permit revision for the North Omaha Station ash landfill closure was submitted to the Nebraska Department of Environment and Energy. The submittal included the 90% design package for the landfill closure.
- c. Fabrication of the electric aux boiler is in progress. The designated area in the turbine building is being prepared to support installation of the boiler.

RECOMMENDED:

DocuSigned by:

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Troy R. Via
Chief Operating Officer & Vice President
Utility Operations

APPROVED FOR REPORTING TO BOARD:

DocuSigned by:

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L. Javier Fernandez
President and Chief Executive Officer

TRV:maw



Power with Purpose Update

Committee Meeting

May 16, 2023



Power with Purpose Update

Agenda

- Standing Bear Lake Station & Turtle Creek Station
- Solar
- North Omaha Conversion and Extension Project

Standing Bear Lake Station & Turtle Creek Station



Power with Purpose Update

Standing Bear Lake Station

- Site Progress: 54%
- Construction activities
 - Substation: horizontal bus fabrication is in progress and yard compaction is being verified to support installation of rock
 - Generation: preparations are underway on the site heavy haul road and in the engine hall for the upcoming move of engines/generators into the engine hall



Substation – Horizontal Bus Installation



Facing North – Engine Hall Preparations & Installations



Facing South – On Site Heavy Haul Prep



Substation – Horizontal Bus Installation

Power with Purpose Update

Standing Bear Lake Station – Facing South



Power with Purpose Update

Turtle Creek Station

- Site Progress: 52.7%
- Construction activities
 - Substation: fencing is being erected and work continues on duct bank runs, jumpers, and potential and current transformers
 - Generation: exhaust and stack parts for units one and two are being assembled and set and cable tray supports for the electrical packages are being installed



Substation Work



Facing West – Unit #1 Inlet, Turbine, Exhaust, & Stack



Facing East – Unit #1 Stack



Unistrut for Cable Tray – Electrical Package

Power with Purpose Update

Turtle Creek Station – Facing North



Solar Update



Platteview Solar

May Project Status Update

- OPPD Substation Progress: 75%
- AES Progress: 33%
- Ongoing Activities
 - OPPD substation construction is ongoing. Foundations, ducts, grounding and fence expansion work complete. Structural buildout in progress. Breaker installation in progress
 - Electrical and Structural 90% design comments sent for review
 - Civil design packages Issued For Construction
 - AES (Developer) and Blue Ridge Power (EPC) have mobilized to site
 - Various civil activities in progress to include site access, laydown and office areas, and perimeter fence erection
 - Racking and Module delivery Q2 2023
 - Project team has regular meetings with Saunders County leaders and the community providing project updates



Platteview Solar

May Project Status Update



Platteview Solar – Site Readiness

North Omaha Conversion Project Update



NOS Natural Gas Conversion Milestones

