

Committee Meeting
April 16, 2024

- Standing Bear Lake Station & Turtle Creek Station
- Solar
- Energy Storage
- New Generation Update & Next Steps
- North Omaha Station Refuel & Retire





# Standing Bear Lake Station & Turtle Creek Station



#### **Turtle Creek Station**

- Site Progress: 84.2%
- Activities
  - Generation: Equipment assembly, wiring, and piping continue, OPPD staff trained on Facility Response Plan.
  - Commissioning: Component and sub-system commissioning has commenced.
  - Focus: Preparing to energize the generator step-up transformer #1.



Facing South - Power Block Progress



Control Panel Terminations in Fuel Building



Distributed Control System Cabinet



Water Treatment Building Laboratory



#### **Standing Bear Lake Station**

- Site Progress: 92.4%
- Activities
  - Generation: Wartsila completed last assembly phase. Finishing equipment assembly with an emphasis on wiring. MUD will complete final fuel gas piping install.
  - Commissioning: Preparing for component and sub-system commissioning.
  - Focus: Electrical work supporting commissioning preparations.



Sample Ports on Exhaust Run



Wartsila Cabinets in Control Room



Distributed Control System Panels/Room



13.8kV Cable Terminations







Facing Southeast - SBLS, March 2024

Facing Southeast - TCS, March 2024





# **Solar Update**



### **Platteview Solar**

- OPPD Substation Progress: 100% (tied to AES facility)
- AES (Blue Ridge Power EPC) Construction Progress: 95%
  - All major equipment has arrived and been installed
- Ongoing Activities
  - Continuing discussions on educational and contractual obligations
  - Planning for ribbon-cutting event
  - Test Energy ongoing
  - Awaiting Capacity Test and Availability Test notification



Platteview Solar - Racking & Module Installation



OPPD Substation - Bus Extension to AES Collector Substation

Design & Engineering Construction Operation

As of March 25, 2024



### **Platteview Solar**





Aerial of North Parcel

Aerial of South Parcel



### **K Junction Solar**

- Generation Interconnection Agreement between OPPD, NPPD, and SPP effective August 2023
- Project Team evaluating documentation and project schedule
- Continuing community engagement and communication
- Supporting York County and the Village of McCool Junction on the development of reasonable solar regulations
- Efforts ongoing with NPPD on the timeline of the associated transmission/facility upgrades









# **Energy Storage Update**



### **Energy Storage Update**

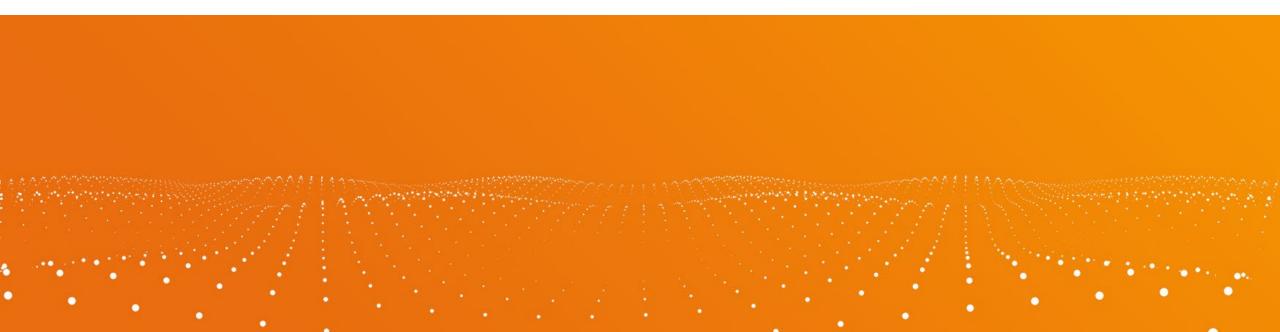
- Near Term Generation Resource Plan
  - Approximately 125 MW of energy storage at 4-hours equivalent
- Benefits of Energy Storage
  - High resource adequacy for summer and winter
  - Energy market arbitrage
  - Transmission congestion relief
  - Frequency regulation
  - Voltage support
- Progress Update
  - Strategic Partner Energy Storage Team engaged to scope siting and feasibility study







# **New Generation Update and Next Steps**



### **Ongoing Project Activities**

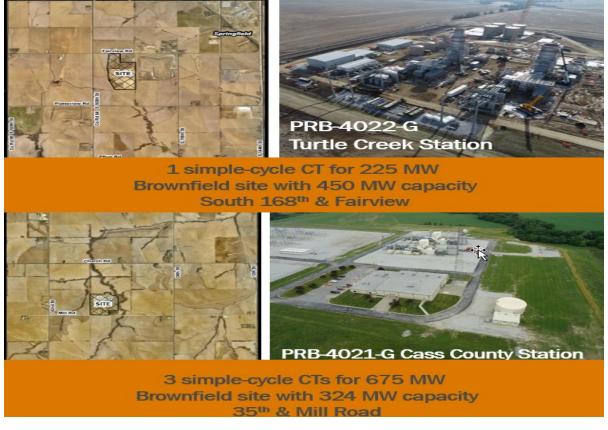
- Nebraska Power Review Board approval received on March 15, 2024
- Request for qualifications (RFQ) sent to potential EPC vendors

Scoping definition activities for Engineer, Procure, Construct (EPC) request for

proposals in progress

Geotechnical contract execution





### **Next Steps**

Near term activities and timeline

Issue RFP Bid Document July '24 Negotiate EPC contract
Sep '24

Award EPC Q4 '24





### North Omaha Station Refuel & Retirement



### North Omaha Station Refuel/Retire Project

#### Design/Procurement:

- NO5 burner replacement
- 316(b) intake travelling screens
- Electrical connections for the auxiliary boiler

#### Construction / In progress:

- NO5 boiler and turbine outage
- Ash landfill closure
- Equipment relocation for NO5 burners

#### Completed:

Auxiliary boiler set in place





In progress equipment relocation for NO5 burners – before and after

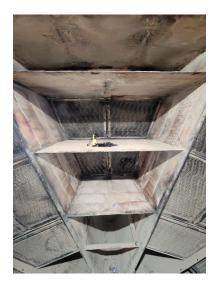


Auxiliary Boiler upending





Auxiliary Boiler set in place



Preheater basket replacement

