



New Generation & Transmission Update

Committee Meeting

October 15, 2024



New Generation & Transmission Update

Agenda

- Standing Bear Lake Station & Turtle Creek Stations 1 and 2
- Solar Facilities
- Energy Storage
- Cass County Station Units 3, 4 and 5 & Turtle Creek Station Unit 3
- Cass County Station 1 and 2 Dual Fuel Conversion

Standing Bear Lake Station and Turtle Creek Station Units 1 and 2



New Generation & Transmission Update

Standing Bear Lake Station



- Site Progress: 96.7%
- Commissioning Continues
- Next Milestone:
 - Final Deliveries
 - Admin. Building & Warehouse Move-in
 - Engine 9 First Fire
- Substantial Completion: Q4, 2024

Turtle Creek Station Units 1 and 2



- Site Progress: 94.1%
- Commissioning Continues
- Next Milestone:
 - Admin. Building & Warehouse Move-in
 - Turbine 1 First Fire
- Substantial Completion: Q4, 2024

Solar Update



Pierce County Energy Center

New Generation

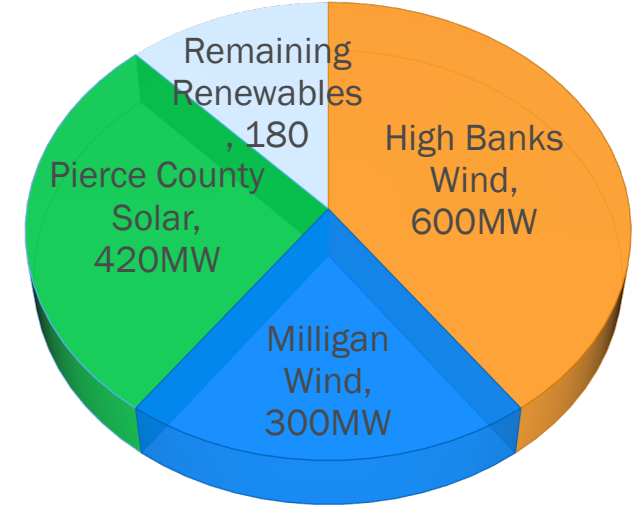
PROJECT OVERVIEW

- Nameplate: 420 MW Solar & 170MW Storage
- Location: Pierce Co, NE
- Developer: NextEra

STATUS

- Unique partnership between Google and OPPD
- Contingent on a number of items, including:
 - Generation Interconnection Agreement study
 - Firm network transmission service study
- Construction began September 2024
- Estimated commercial operation in 2027

OPPD RENEWABLE SOURCING



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



★ General solar facility location

Energy Storage Update



Energy Storage Update

- Near Term Generation Resource Plan
 - Approximately 125 MW of energy storage at 4-hours equivalent
 - Pierce County Energy Center materially satisfies the required storage volumes in SD-9 but the feasibility study at North Omaha will continue
- Feasibility Study
 - In progress with results expected Q4 2024
 - Evaluate:
 - Location
 - Estimated site preparation
 - Layout of equipment
 - Interconnection considerations
 - Major equipment supply
 - Construction timelines
 - Budgetary estimates



Cass County Station Units 3, 4, 5 and Turtle Creek Station Unit 3

New Cass County and Turtle Creek Generation

- 900MW total
- Four Siemens, 225MW turbines under contract
- Site Selection:
 - Cass County Station Units 3, 4 and 5
 - Turtle Creek Station Unit 3
- Air permit application submitted
- Request for construction contractor qualifications
 - Received responses and completed review
- Efforts advancing to secure a contractor to Engineer, Procure, Construct (EPC)
 - Anticipated by end of 2024



Cass County Stations 1 and 2 Dual Fuel Conversion

Cass County 1-2 Dual Fuel Conversion

- 324 MW
- Executed Siemens dual fuel retrofit contract
- Siemens to perform turbine work and EPC contractor to perform fuel oil tank and associated upgrades
- Air permit application submitted
- Request for construction contractor qualifications
 - Received responses and completed review
- Efforts advancing to secure a contractor to Engineer, Procure, Construct (EPC)
 - Anticipated by end of 2024

