

Basin Electric Overview

Basin Electric Snapshot

139 Members in 9 States

3 million member-owners

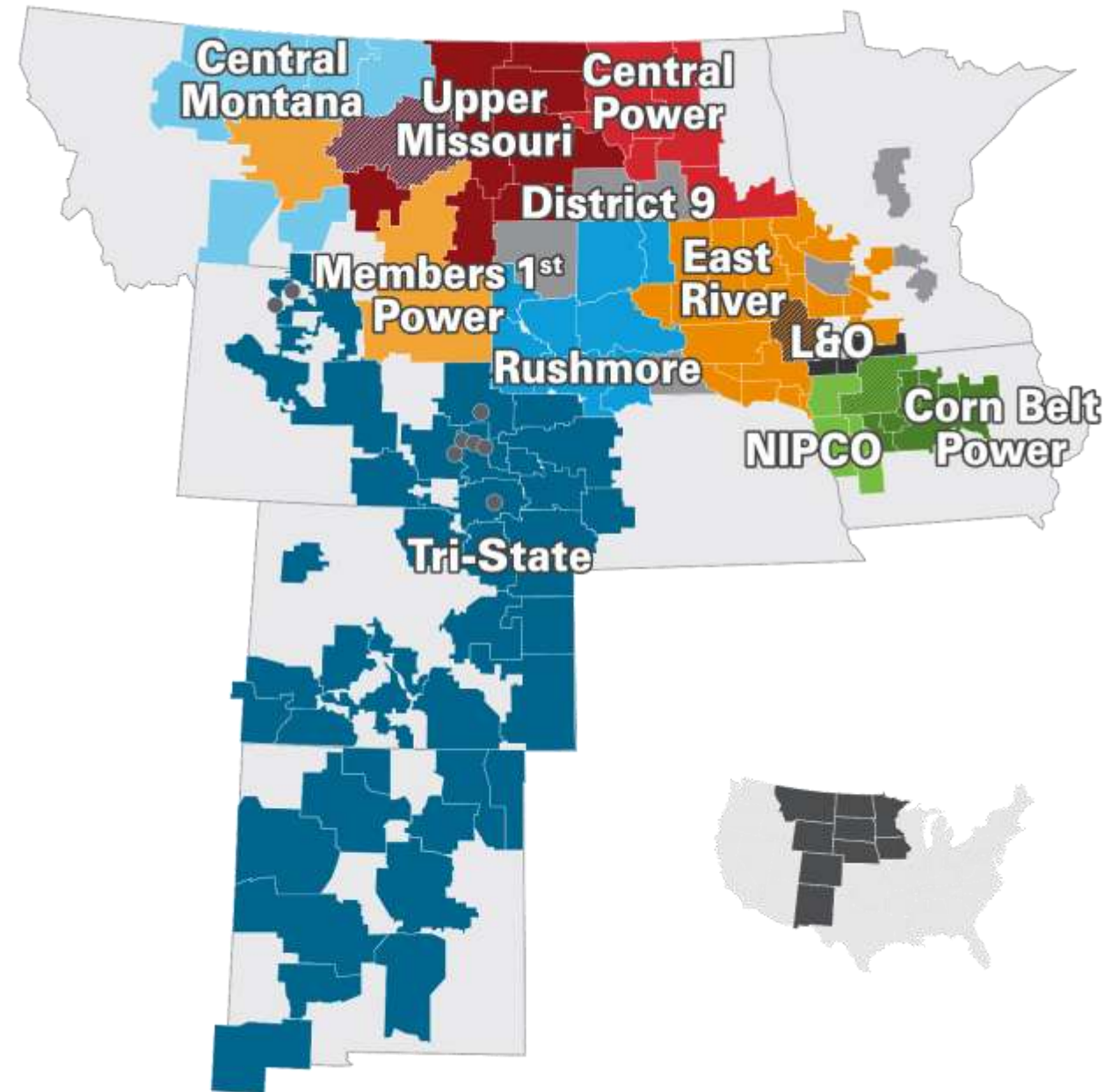
Nearly 8,500 megawatts
of winter capacity

Largest G&T:

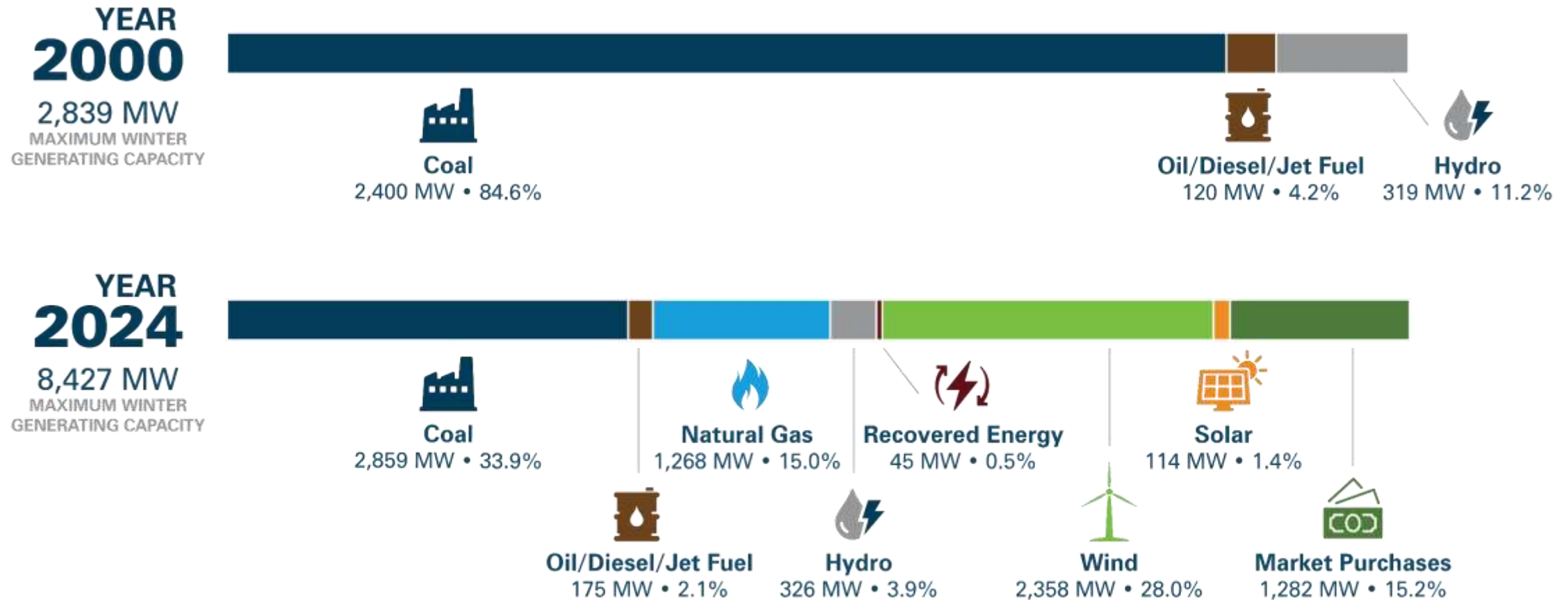
- Total MWh sales
- Member sales
- Total Operating Revenue
- Geographic territory served

2nd largest G&T by assets

January 2025 Billing Peak Demand
Record – 5,150 MW

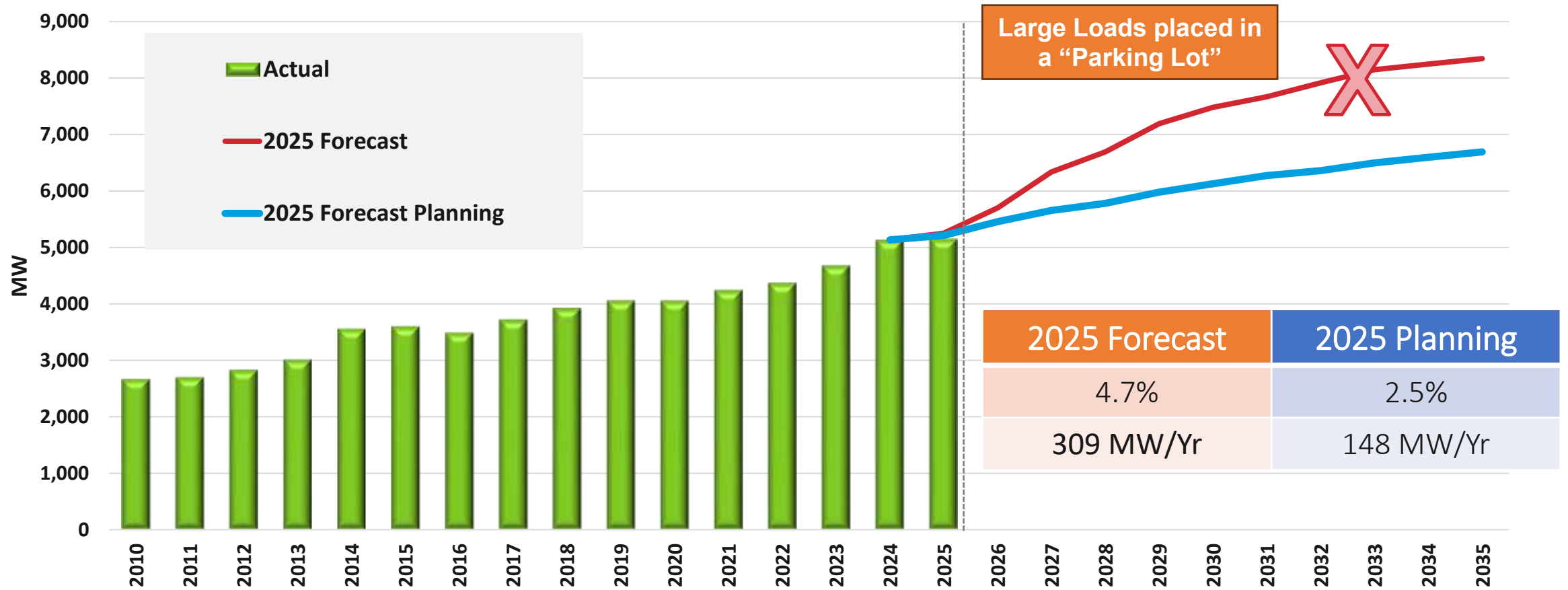


Annual Generating Capacity



2025 Basin Electric Load Forecast

Winter Season



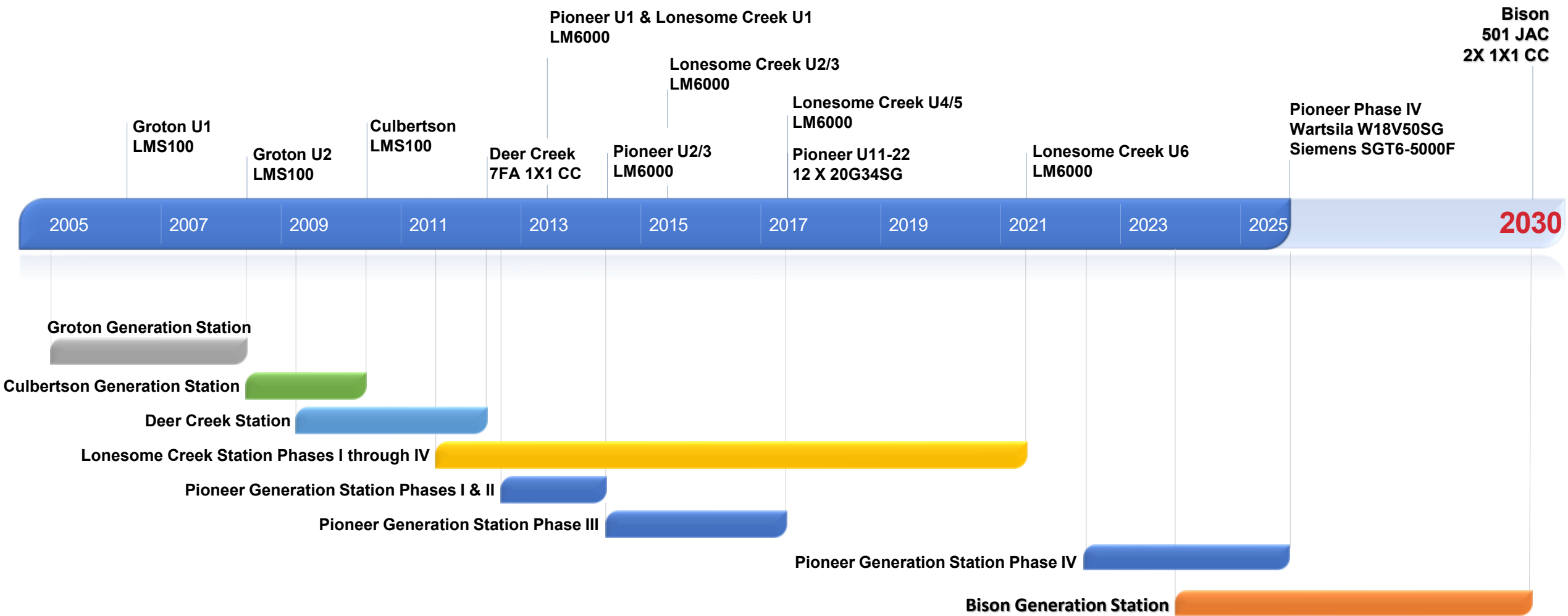
Western North Dakota Buildout

- 2009
 - Culberson Station Unit 1 (95 MW)
- 2013
 - Pioneer Generation Station – Phase 1, Unit 1 (45 MW)
 - Lonesome Creek Station – Unit 1 (45 MW)
- 2014
 - Pioneer Generation Station – Phase 2, Unit 2 & 3 (135 MW Total)
- 2015
 - Lonesome Creek Station – Phase 2, Units 2 & 3 (135 MW Total)
 - AVS – Judson 345-kV Transmission



- 2016
 - Pioneer Generation Station – Phase 3 (Recip Units) (250 MW Total)
 - Patent Gate – Kummer Ridge 345-kV Transmission
- 2017
 - Judson – Tande 345-kV Transmission
 - Lonesome Creek Station – Phase 2, Units 4 & 5 (225 MW Total)
- 2018
 - Blaisdell – Plaza 115-kV Transmission
- 2021
 - Lonesome Creek Station – Phase 4, Unit 6 (270 MW total)
- 2022
 - Neset-Northshore 230kV Transmission
- 2024
 - Roundup-Kummer Ridge 345-kV Transmission
- 2025
 - Pioneer Generation Station – Phase 4 (840 MW Total)

Basin Electric Fleet Gas Additions



Pioneer Generation Station Phase IV

INVESTMENT IN RELIABILITY



580 MEGAWATTS (MW)

Serves nearly 500,000 homes



110 MW TOTAL

Six reciprocating engines



235 MW EACH

Two simple-cycle
combustion turbines



15 MILES

345-kilovolt
transmission line

- \$794 million
- In service Aug. 2025
- 825 MW total
- 30 employees



Pioneer Generation Station Phase IV



June 2023



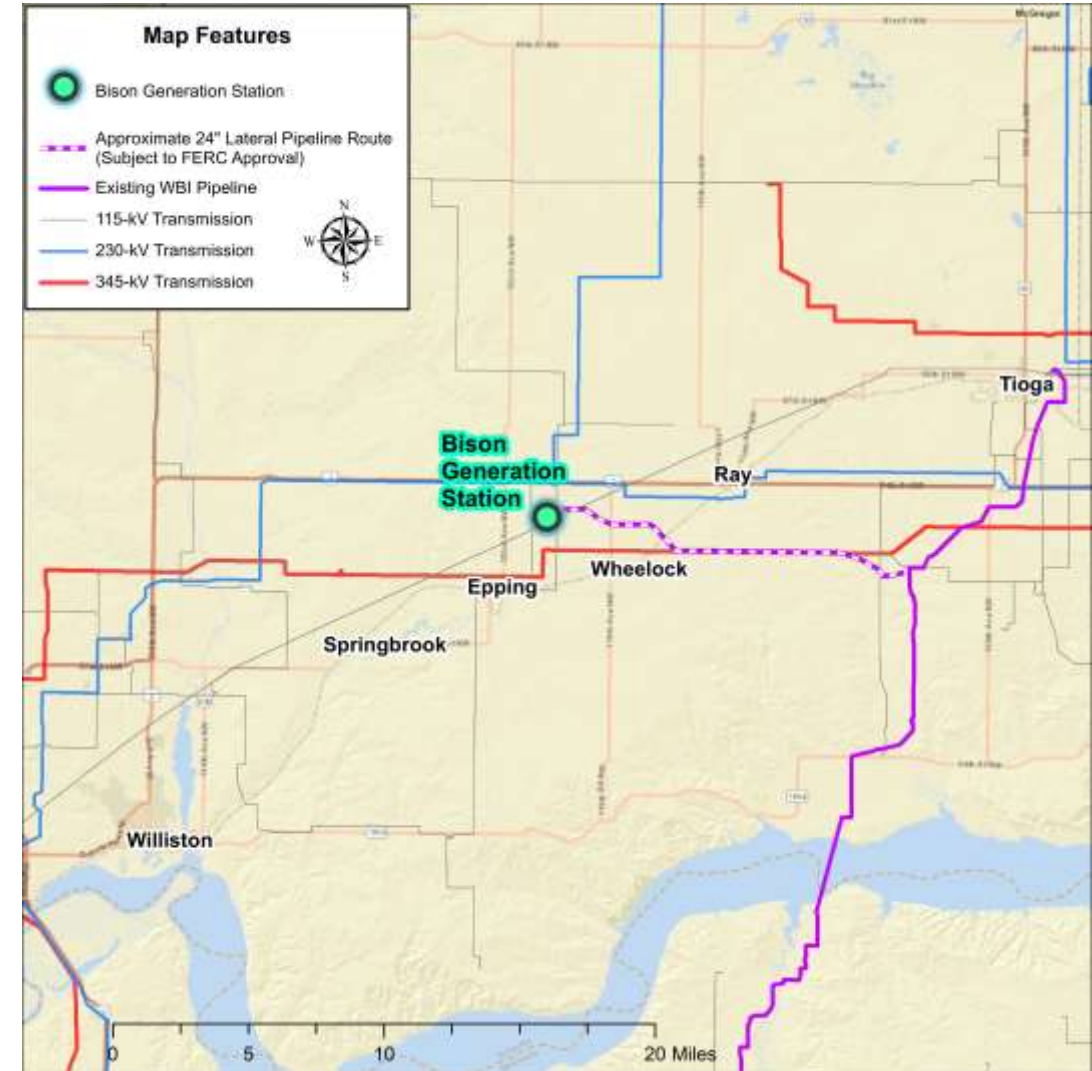
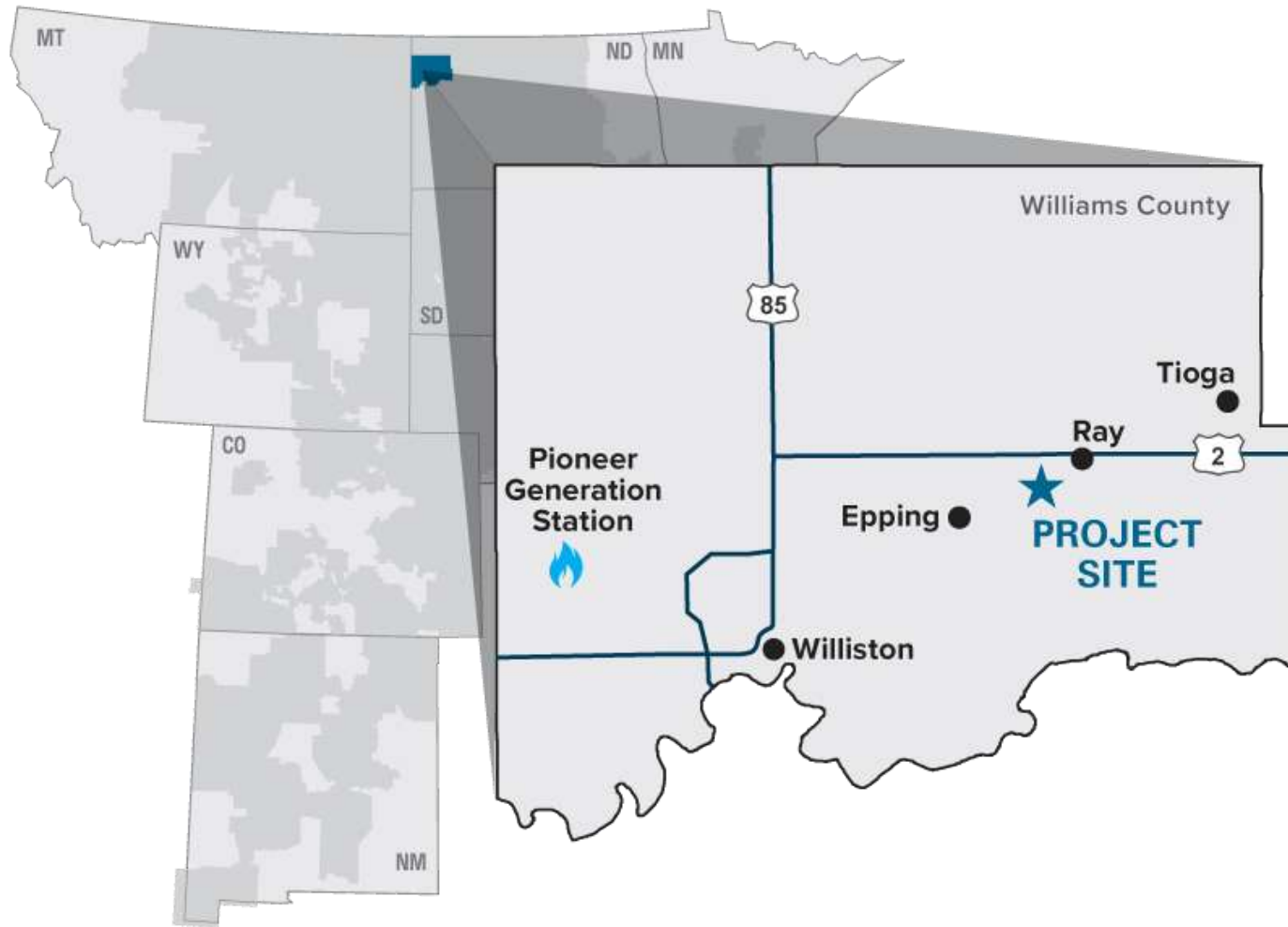
August 2025

Bison Generation Station

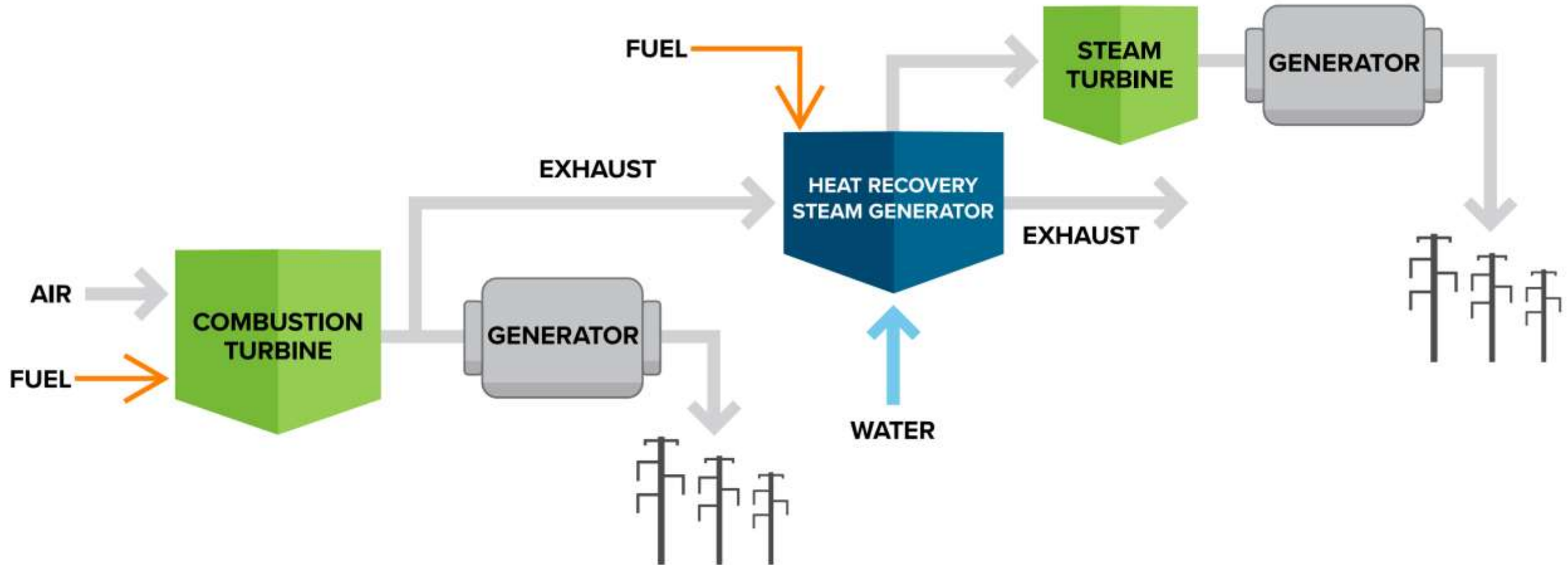
Project Scope

- 2-(1x1) Combined Cycle configuration, advanced class combustion turbines.
- Closed cycle air-cooled condenser (ACC) for cooling.
- Supporting systems common to both units (air, water, etc.)
- Total plant output: 1,360 MW to 1,490 MW.
- New Substation on project site for transmission interconnections.
- Transmission interconnections to 230-kV and 345-kV systems
 - 230-kV interconnection at Wheelock Substation
 - 345-kV interconnection by bisecting the Judson-to-Tande 345-kV line
- Fuel supply via 24" diameter steel pipeline.
- Road and water infrastructure improvements to site.
- Target commercial operation date of 2030
- Project budget: \$3.9B

Project Location

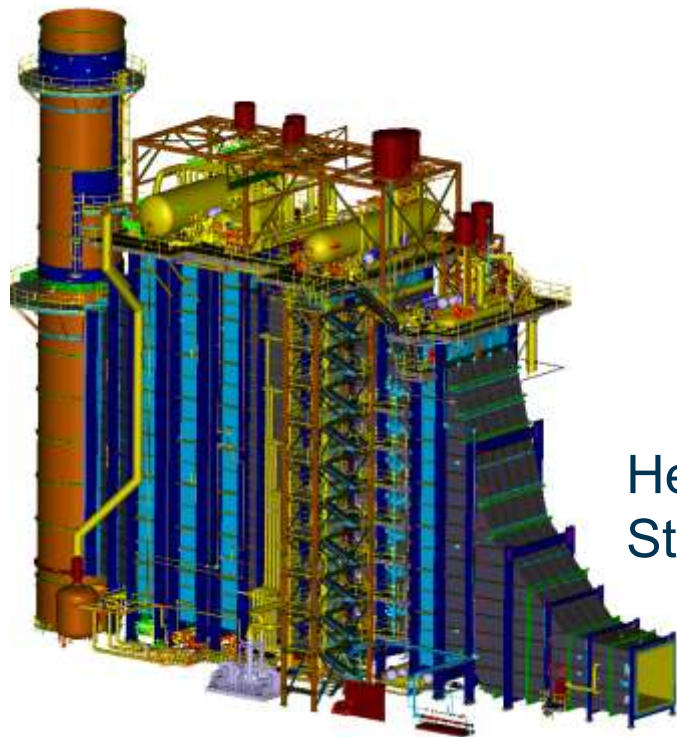


Station Overview



Project Details

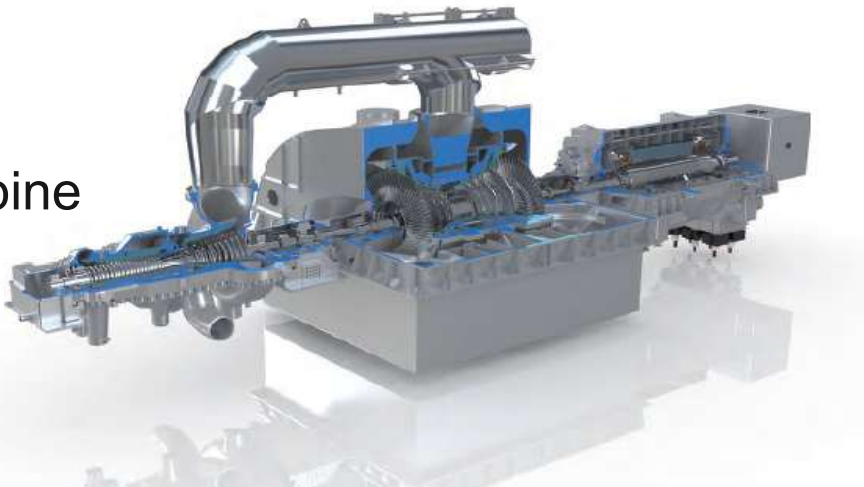
- Design Engineer & Balance of Plant Procurement: Burns & McDonnell
- Location: Williams County, North Dakota
- Combustion Turbine Generator (CTG): Mitsubishi 501JAC gas turbines (2)
- Heat Recovery Steam Generator (HRSG): Vogt (2 x triple wide with supplemental firing)
- Steam Turbine Generator (STG): Toshiba (2)
- Air Cooled Condenser (ACC): Evapco Dry Cooling (2 x 32 cell)
- Generator Step Up Transformer (GSU): Fortune (2 x 345-kV)
- Substation: 345/230-kV (2 x 230-kV and 2 x 345-kV terminals)
- CTG/HRSG/STG fully enclosed in buildings



Heat Recovery
Steam Generator



Combustion Turbine



Steam Turbine



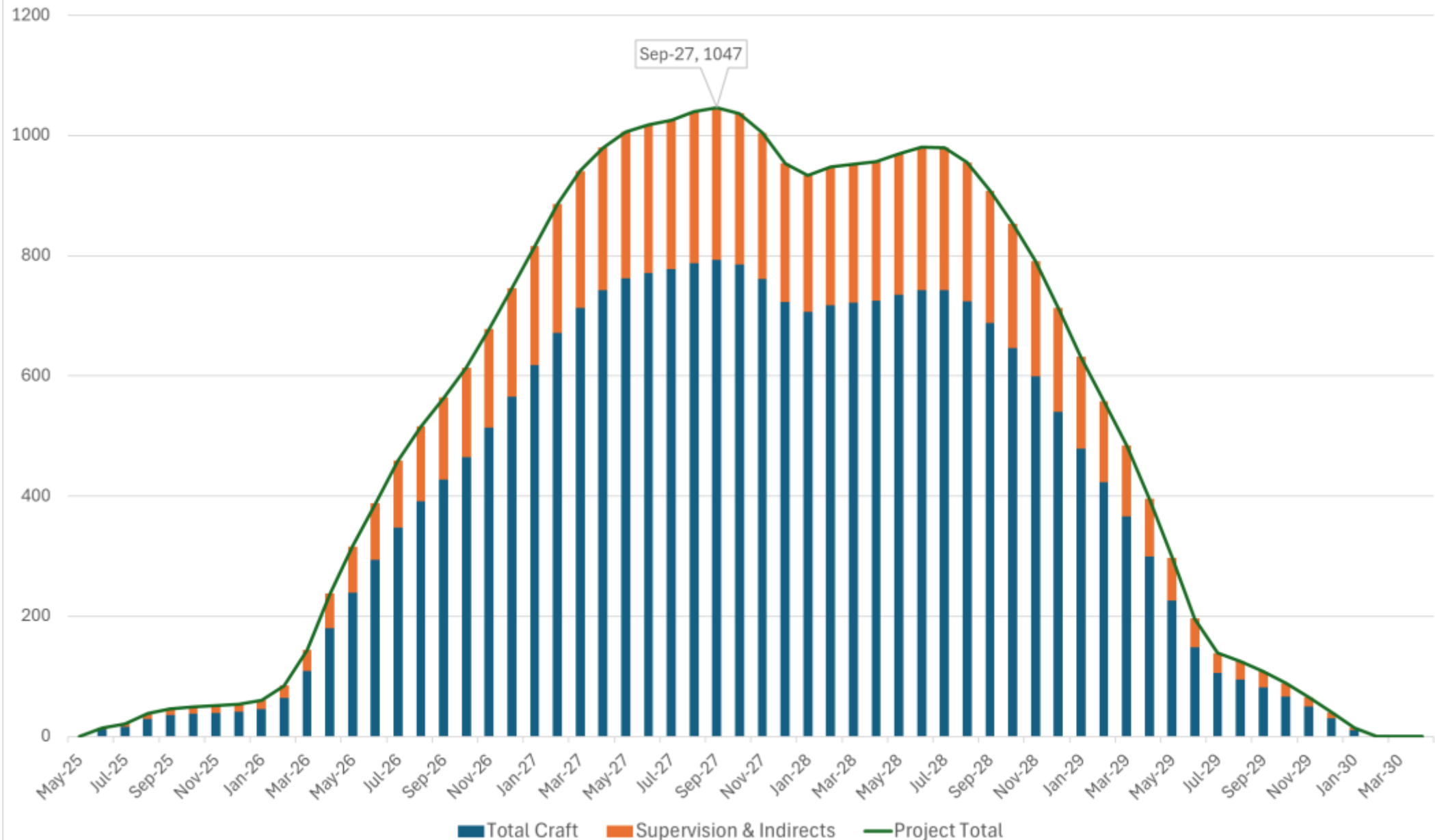
Air Cooled Condenser

Project Timeline

- Project schedule developed to reduce peak workforce requirements
- Commercial operation dates staggered by approximately one year



Bison Generation Station - Estimated Construction Workforce



Project Status

- PSC site compatibility application approved August 7th.
- Local permitting also completed to allow site grading work to began on August 18th.
 - Mass grading and test piling on-going
- Roadway improvement work started and expected to be complete by early November.
- PSD air permit application submitted and review by North Dakota Department of Environmental Quality ongoing.

August 18, 2025





Bison Generation Station



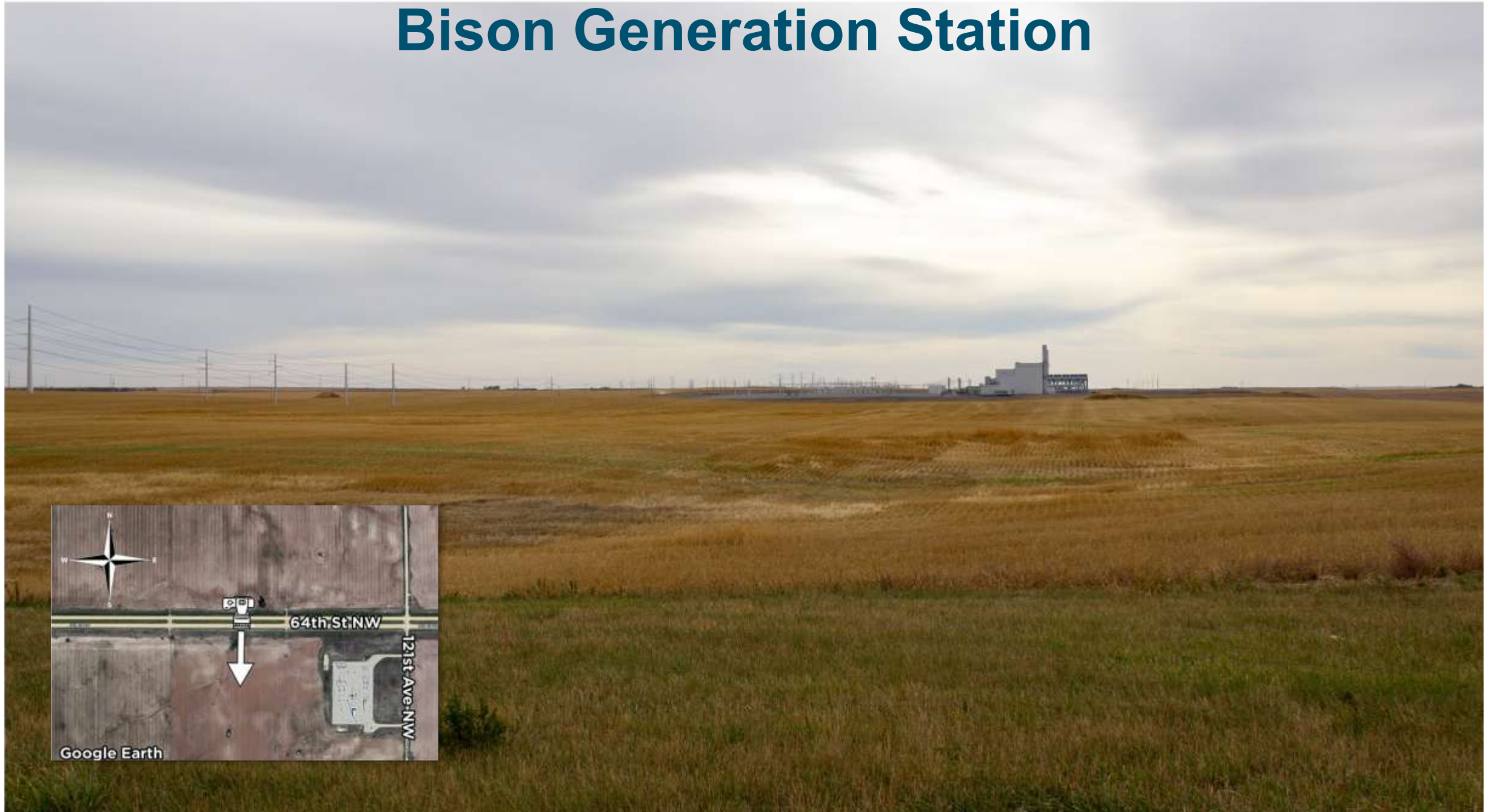
Bison Generation Station



Bison Generation Station



Bison Generation Station



Thank You!

<https://www.basinelectric.com/about-us/Generation/Bison-Generation-Station>

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