



**BASIN ELECTRIC
POWER COOPERATIVE**

A Touchstone Energy® Cooperative 



A CASE STUDY: **Pioneer Generation Station Phase IV**

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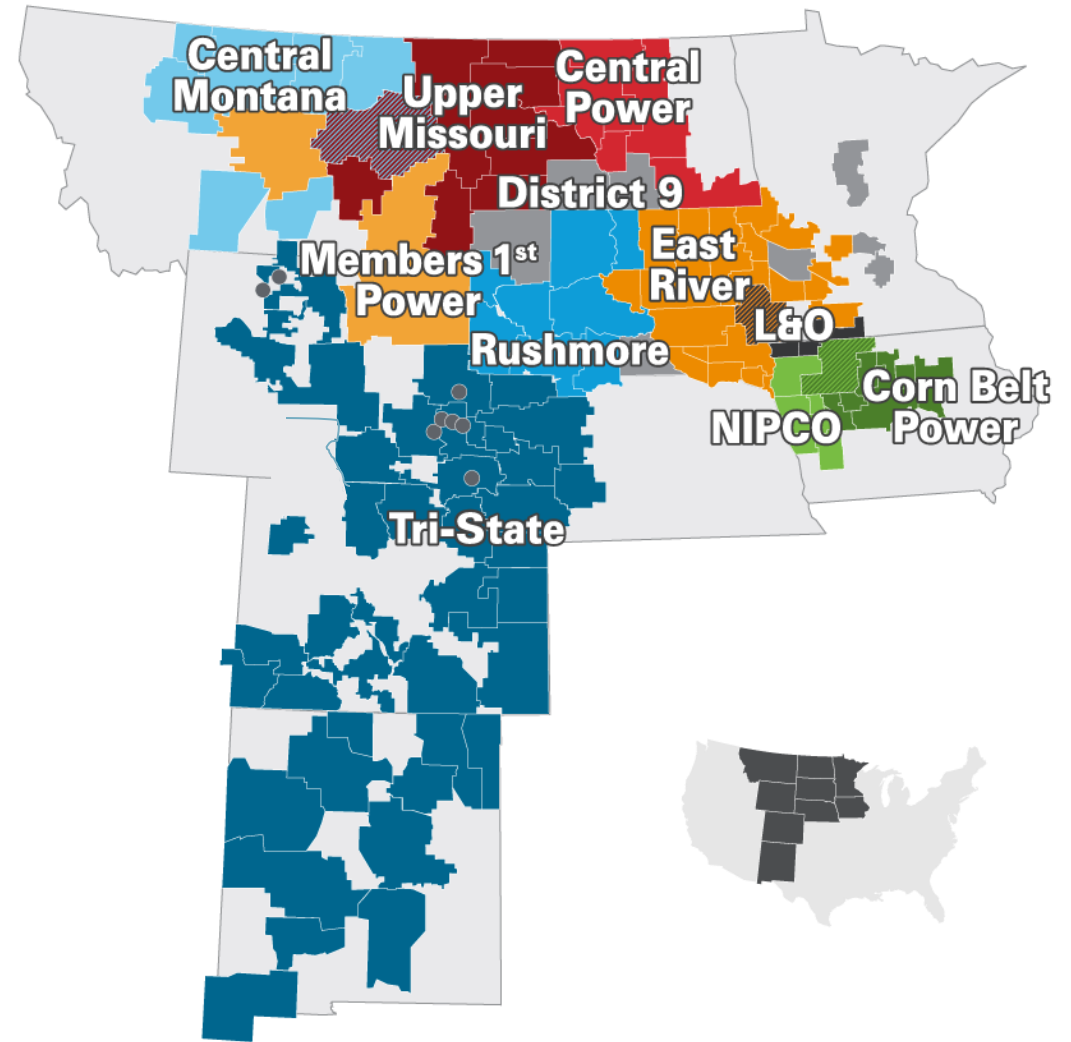
Basin Electric Snapshot

139 Members in 9 States

3 million member-owners

Nearly 8,500 megawatts
of winter capacity

Largest G&T by operating
revenues, MWhs and geographic
territory served



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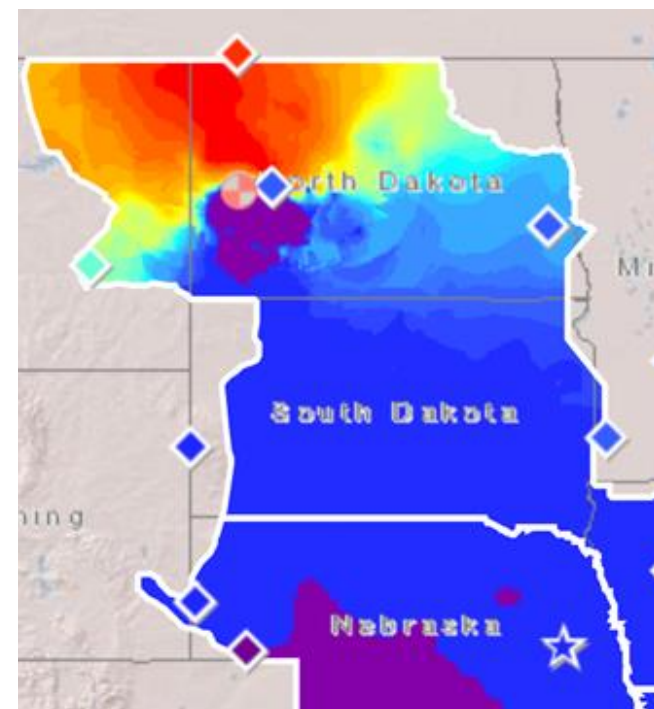
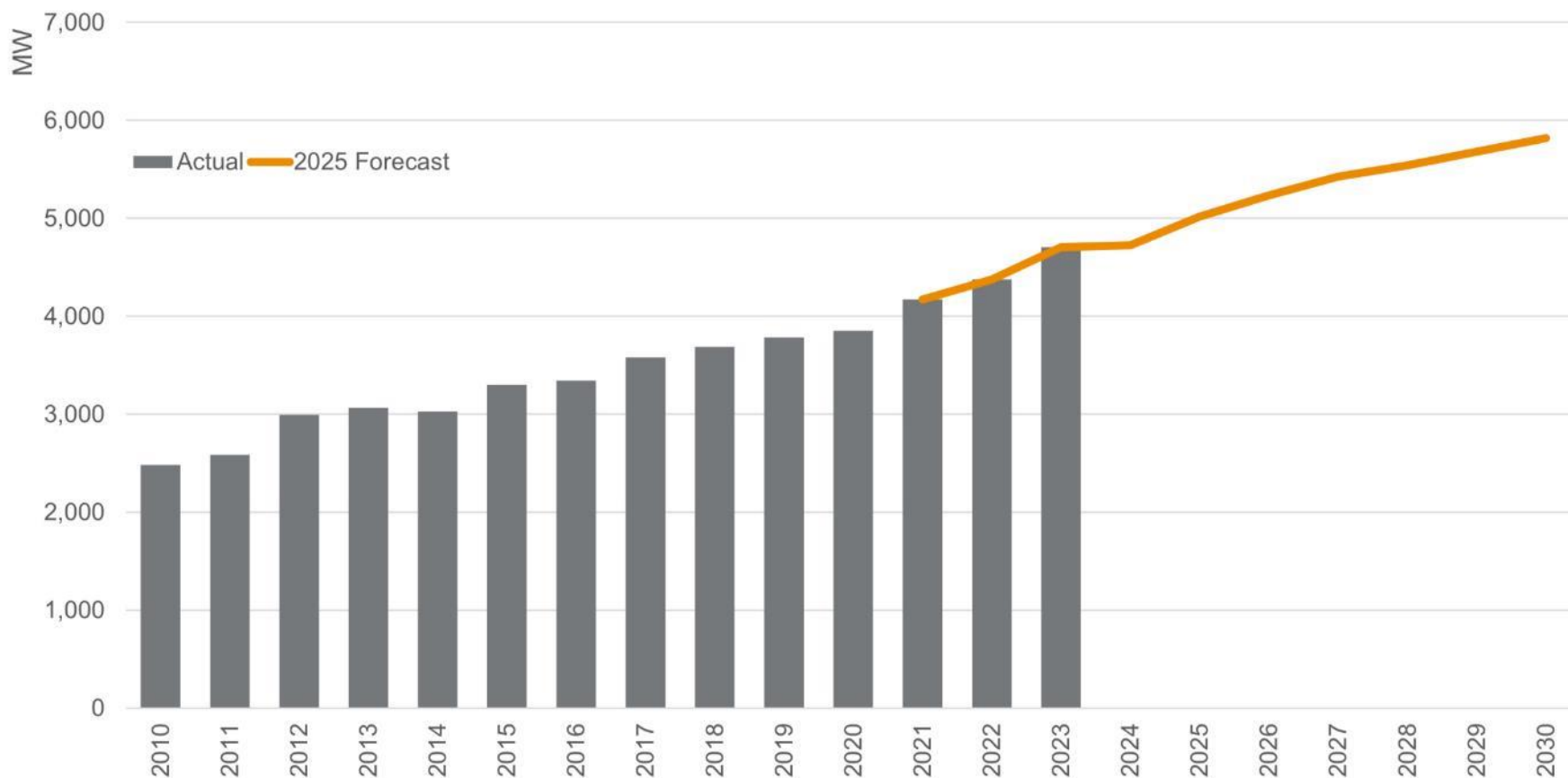


**BURNS
MCDONNELL**

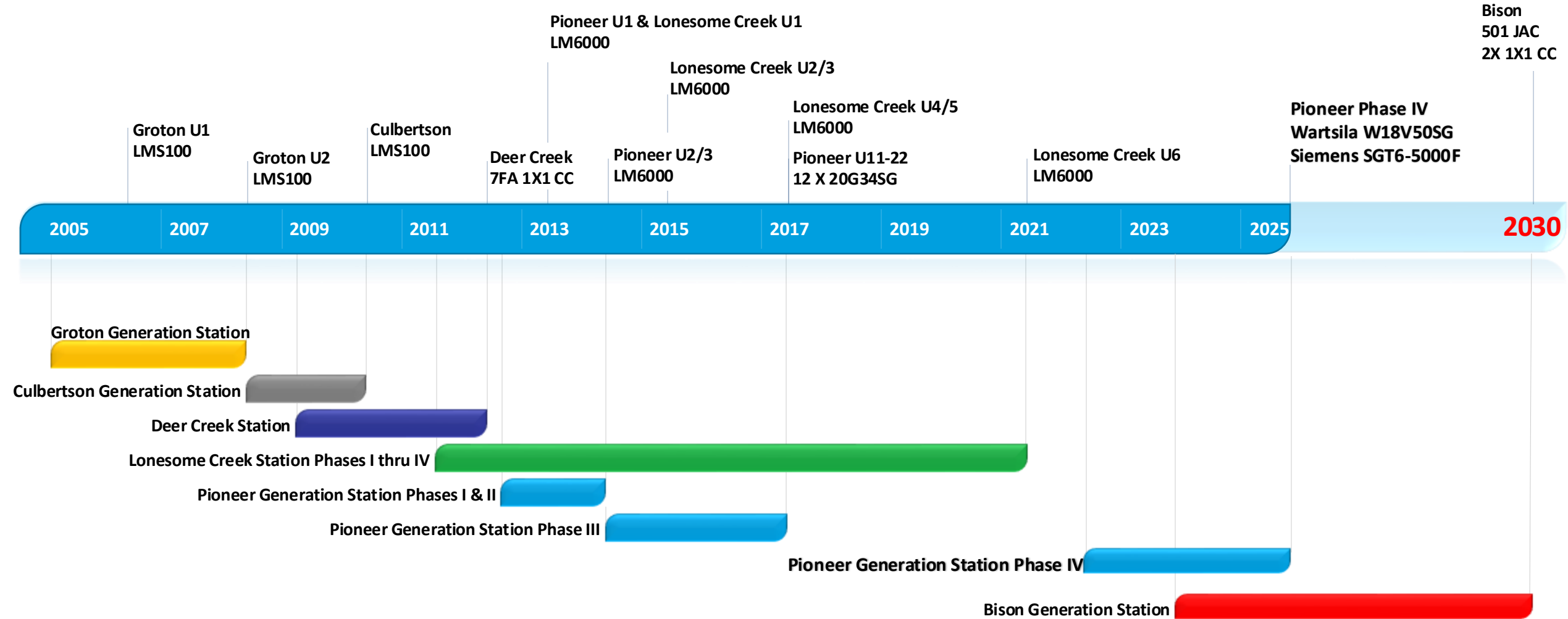
Generation NEEDS

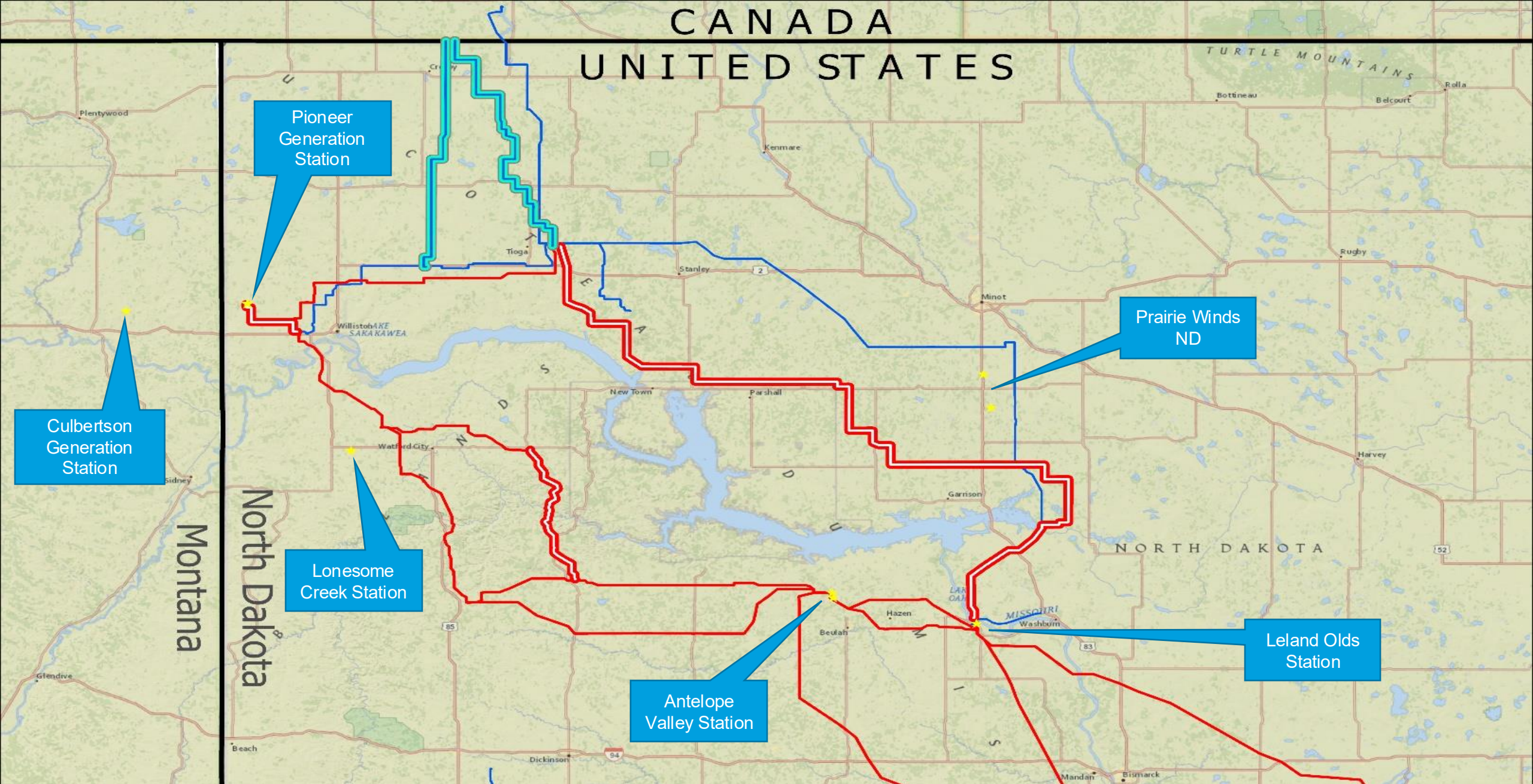
Total Basin Electric Load Growth

Summer Peak



Basin Electric Fleet Gas Additions





Team Decision



Engineering &
Construction



Environmental



Operations



Right of Way



Procurement



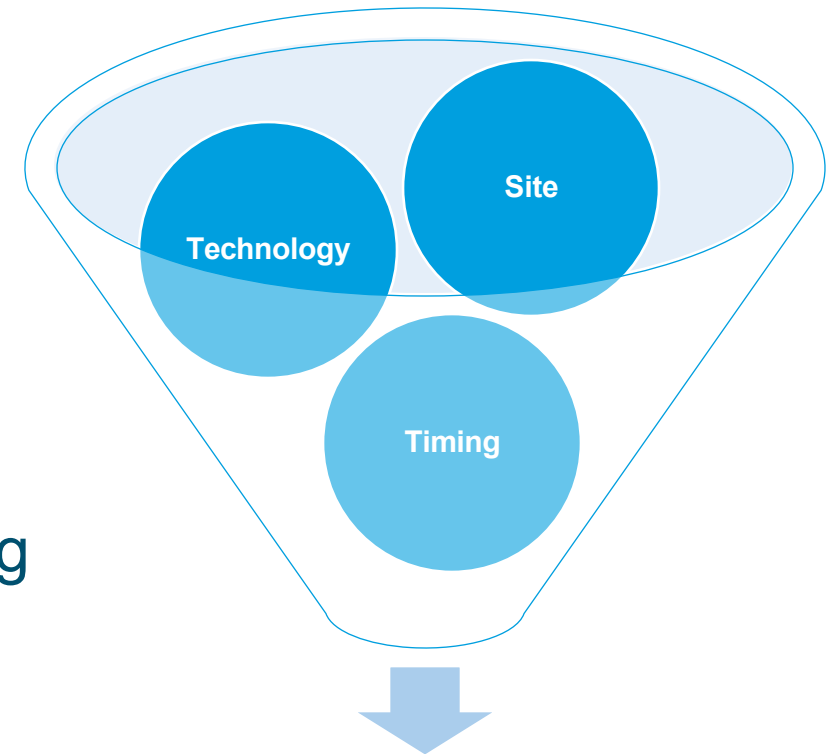
Transmission



Resource Planning

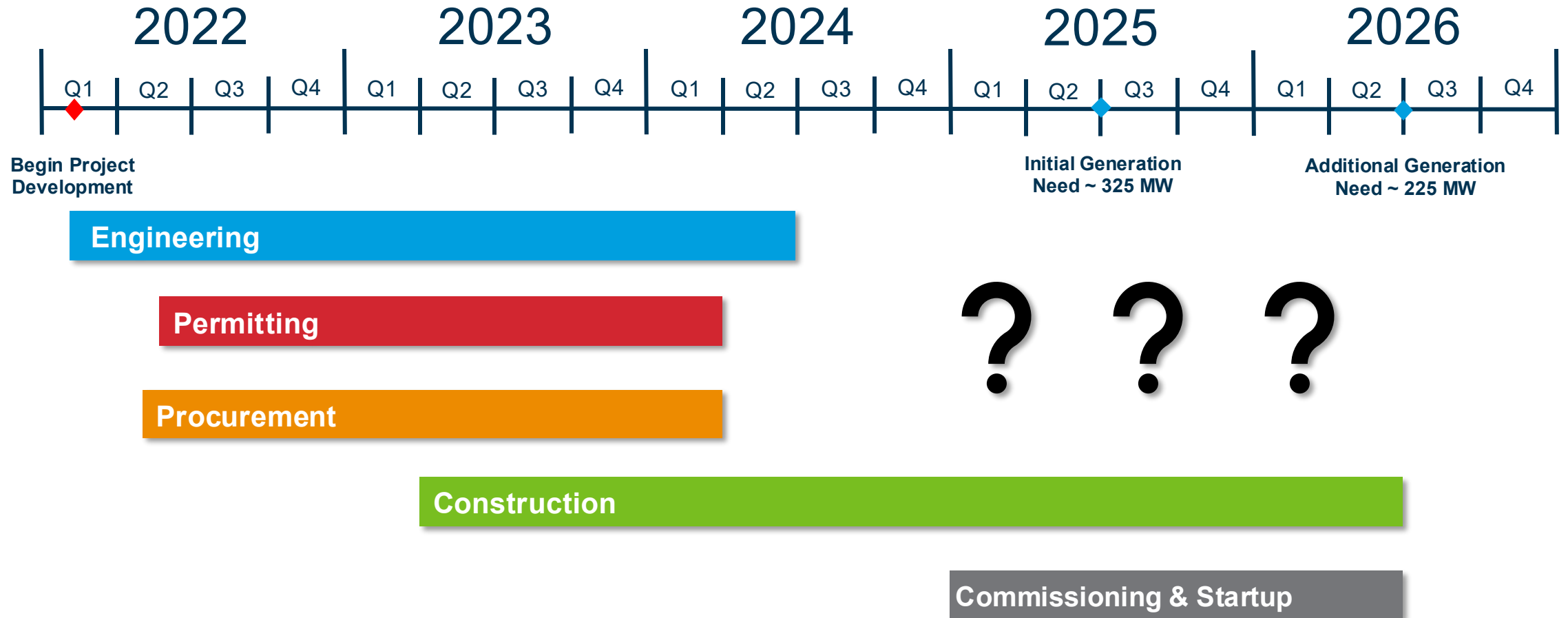


Marketing



Narrowing Project Scope

Early Target Schedule



Partnership Engagement

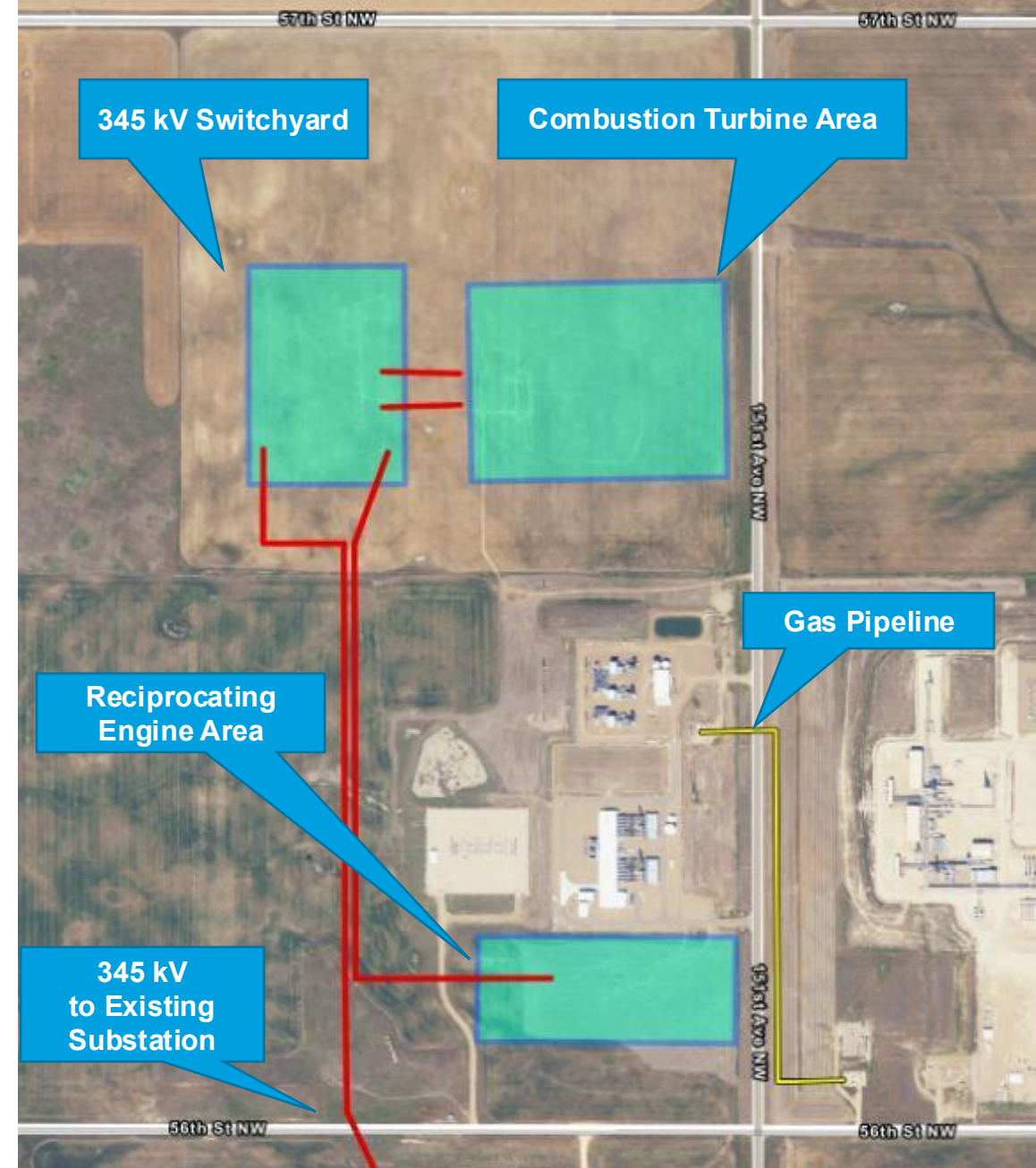
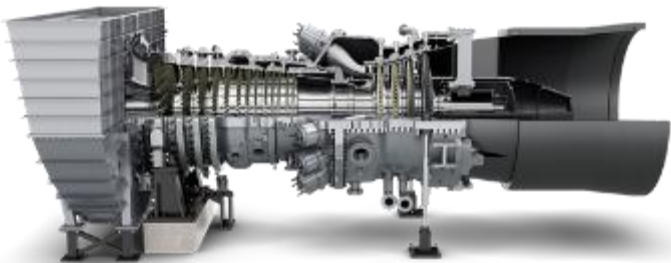


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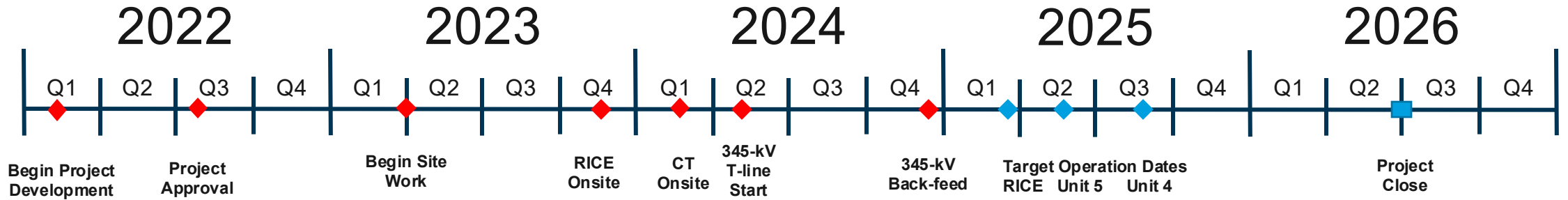
Scope

- Basin hired BMcD under an Open-to-Close book EPC model
- Adjacent to existing Pioneer Generation Station
- Approx. 580 MW of New Generation
 - 2 x Siemens SGT6-5000F Combustion Turbines
 - 6 x Wartsila W18V50SG Reciprocating Engines
- 345-kV Switchyard & Transmission (~15 Miles)
- Natural Gas Pipeline (~0.5 Mile)





Schedule



Engineering

Permitting

Procurement

Construction

Commissioning,
Startup & Punchlist

Top Project Challenges



Accelerated
Planning Phase



Compressed
COD Schedule



Workforce
Availability



Supply Chain
Quality/Deliveries



Hand-to-Mouth
Engineering Philosophy

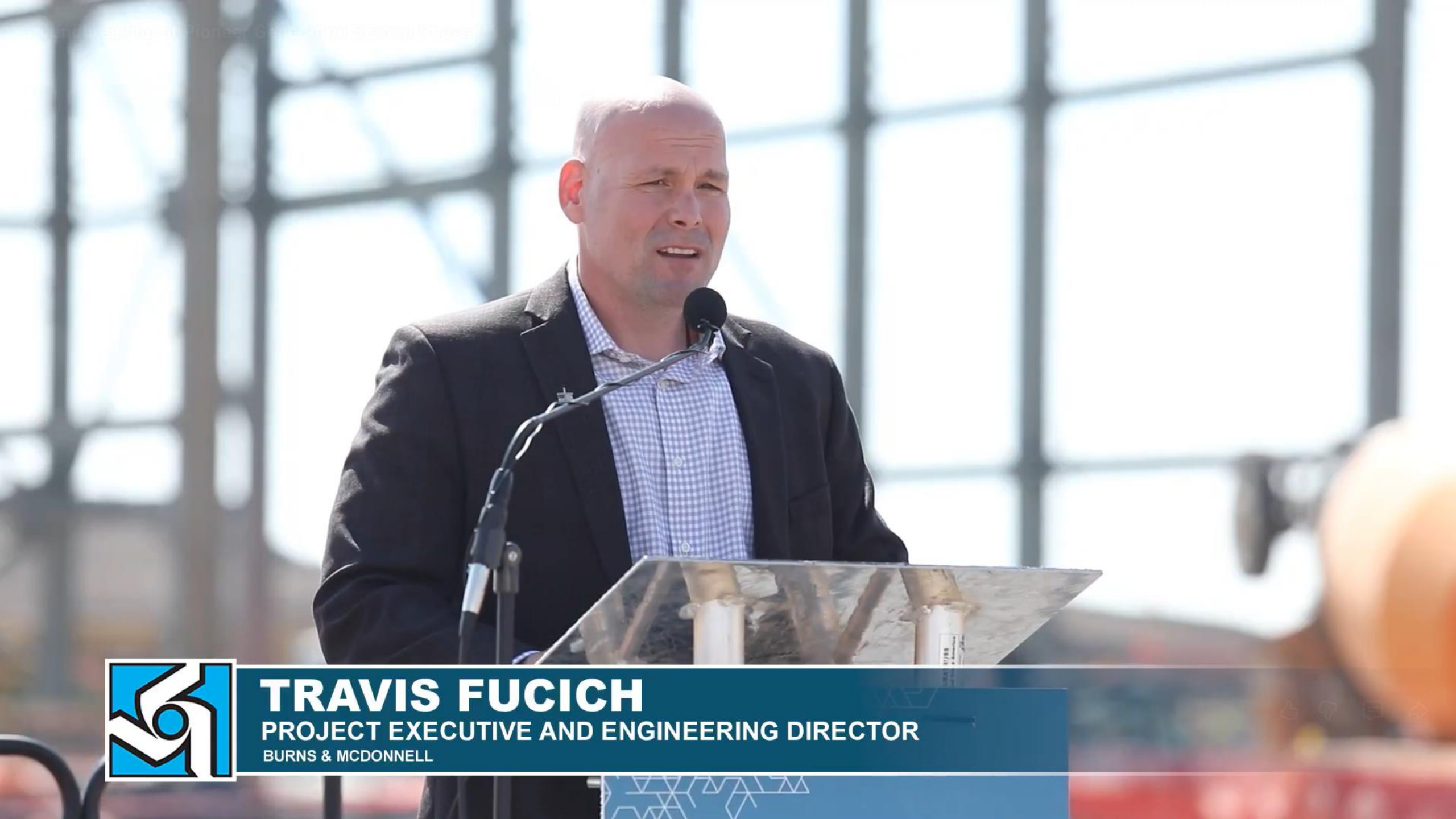


Project Cost
Containment

Budget / COD

- Target On-Line Dates
 - RICE: April 11, 2025
 - Unit 5: June 16, 2025
 - Unit 4: July 29, 2025
- Budget: \$805MM
 - Projected Final Expenditures: \$794MM





TRAVIS FUCICH

PROJECT EXECUTIVE AND ENGINEERING DIRECTOR

BURNS & MCDONNELL



Q & A

