ANS Webinar
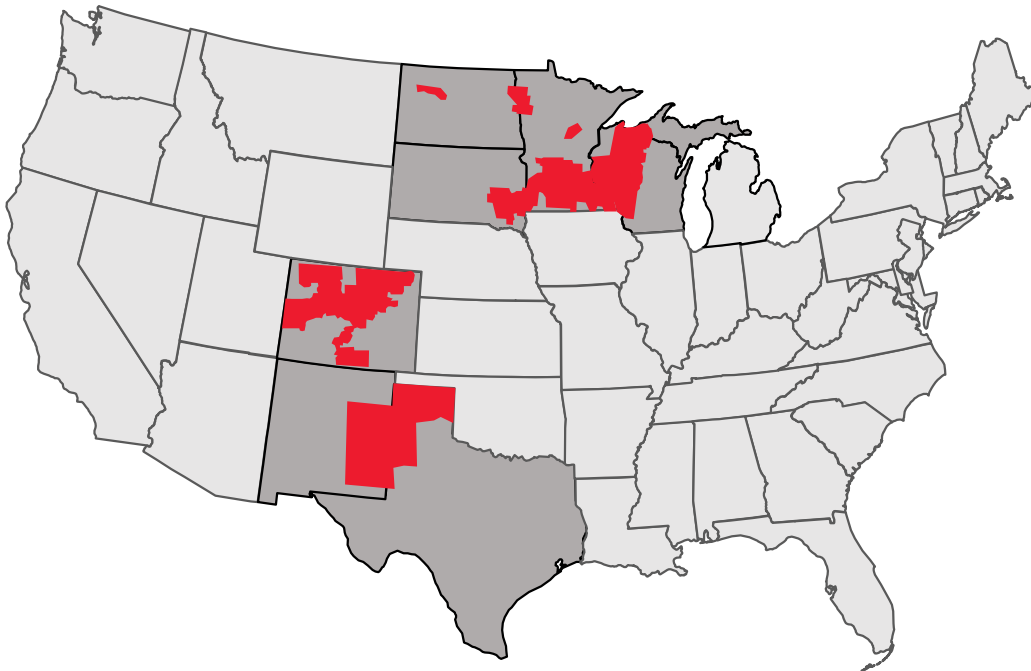**Coal to Nuclear**

Xcel Energy
October 2022

Patrick Burke
VP Nuclear Strategy

Xcel Energy

Serving eight states

3.7 million electricity customers

2.1 million natural gas customers

Nationally recognized leader:

Wind energy

Energy efficiency

Carbon emissions reductions

Innovative technology

Storm restoration

2020 Data

Xcel Energy's Two Nuclear Generating Plants

Prairie Island

- 2 pressurized water reactors
- Unit 1 (1973); Unit 2 (1974)
- Licensed through 2033/2034
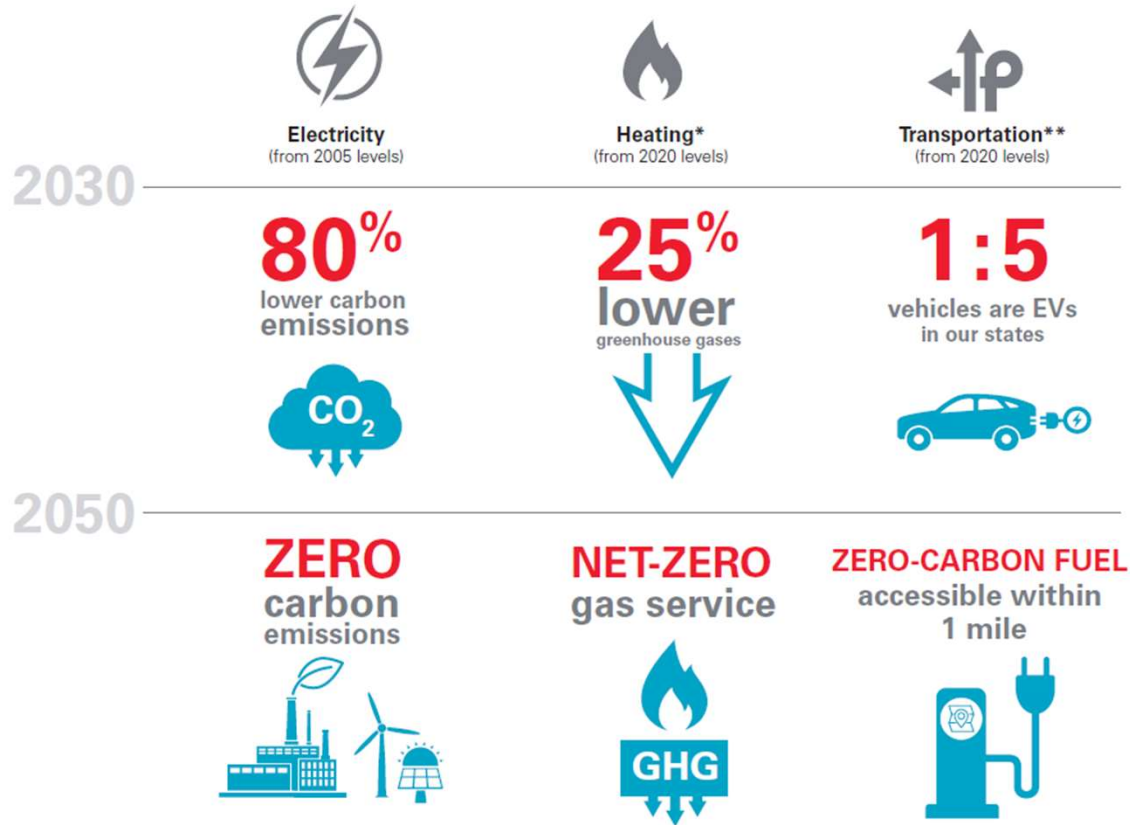- 1,100 MW
- 800 Employees; 1,000 more during refueling

Monticello

- 1 Boiling water reactor (1971)
- Licensed through 2030
- 671 MW
- 650 employees; 800 more during refueling

Net-Zero Energy Provider by 2050
Goals that cover all the ways our customers use energy

	Electricity (from 2005 levels)	Heating* (from 2020 levels)	Transportation** (from 2020 levels)
2030	**80%** lower carbon emissions — CO_2	**25% lower** greenhouse gases	**1:5** vehicles are EVs in our states
2050	**ZERO** carbon emissions	**NET-ZERO** gas service — GHG	**ZERO-CARBON FUEL** accessible within 1 mile

*Spans natural gas supply, distribution and customer use
**Includes the Xcel Energy fleet; zero-carbon fuel is electricity or other clean energy
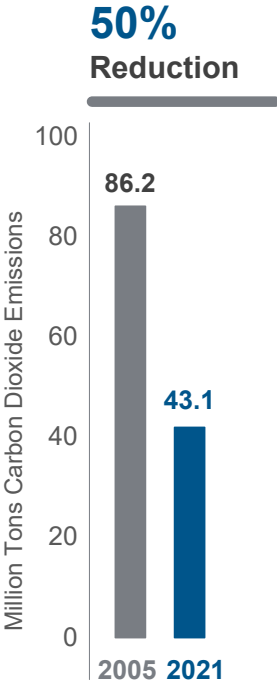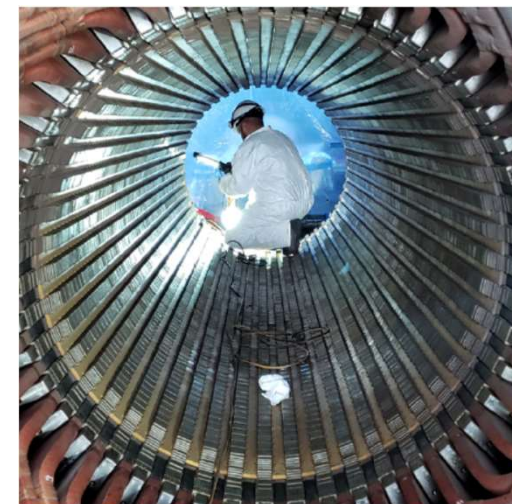
Leading the Clean Energy Transition

2005

21% Carbon-free

Nuclear, Wind, Solar
and Other Renewables

Coal and Natural Gas

2021

49% Carbon-free

Nuclear, Wind, Solar
and Other Renewables

Coal and Natural Gas

2030 Estimate

79% Carbon-free

Nuclear, Wind, Solar
and Other Renewables

Coal and Natural Gas

50%
Reduction

Million Tons Carbon Dioxide Emissions

100

86.2

80

60

43.1

40

20

0

2005   2021

Coal Transition Plan

- Announced plant retirements
    - Hayden 2 in 2027
    - Hayden 1 in 2028
    - Craig 1 in 2025*
    - Craig 2 in 2028*
- Other actions through CEP
    - Pawnee conversion to natural gas by 2026
    - Comanche 3 to retire by 2031; reduce operations 2025
- Workforce transition and community assistance plans for host communities

* Public Service has a 9.8% ownership share in both Craig 1 and 2
**Comanche 1 to retire in 2022 and Comanche 2 in 2025 per the Colorado Energy Plan

NuScale Technology and Xcel Energy

- Explore feasibility of Xcel Energy serving as plant operator for NuScale reactors

- Creates framework for negotiated agreements on how Xcel Energy and NuScale might work together.

- Xcel Energy is providing services related to certification and developing plans for serving as plant operator.