



Xcel Energy Wind Investment

Xcel Energy
Colorado

Presented by
Ashley Valdez

Area Manager

June 13, 2017



Agenda

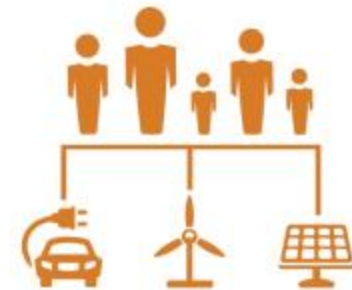
- Xcel Energy Overview
- Carbon Reduction
- Multistate wind strategy and benefits
- Wind in Colorado

About Xcel Energy

- Delivers electric, natural gas to eight states
- Nation's No. 1 utility wind energy provider
- No. 4 nationally for delivering renewable energy
- 2016 Climate Leadership Award for Excellence in Greenhouse Gas Management
- Ranked No. 4 among gas and electric utilities for the Fortune magazine World's Most Admired Company list.
- One of the most valuable employers for military veterans



Powering the Economy



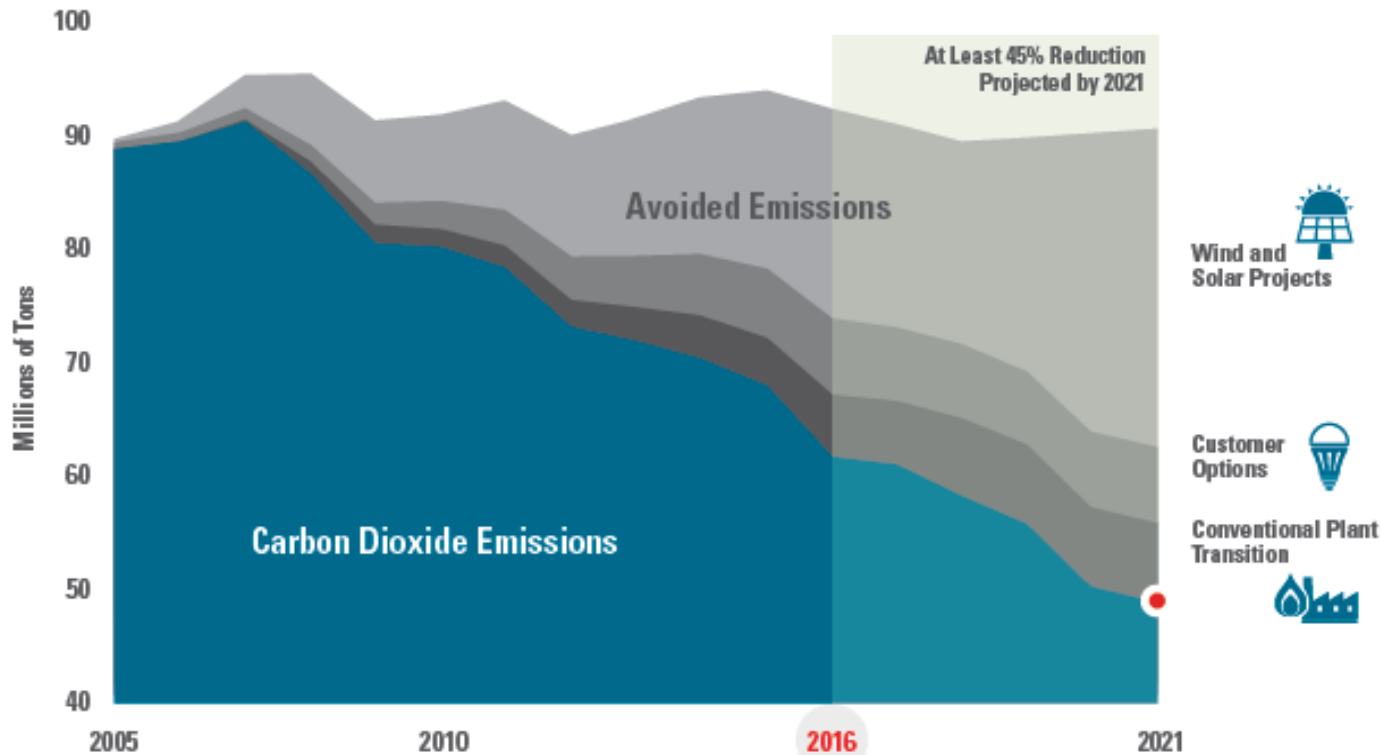
Empowering Customer Choice



Powering Technology

Commitment to Carbon Emissions Reduction

Xcel Energy's Clean Energy Strategy is Driving Reductions in Carbon Emissions



30%
Emissions
Reduction

=

27
Million Tons
per Year

=

Taking **Five Million**
Cars off the Road

Multistate Wind Investment

- Proposed 11 wind farms in seven states
- Would add nearly 3,400 megawatts of new wind on our system by 2020
- Combination of owned wind farms and power purchase agreements
- By 2021 we expect wind to account for almost 35 percent of our energy mix



Economic and Environmental Benefits

- Customers will see a savings of billions of dollars over the life of the wind farms if implemented.
- Xcel Energy service territory is projected to generate nearly \$400 million in property taxes over the life of projects.
- More than 2,000 construction and full-time jobs will be created in communities that are served.

Investing in Economically Viable Energy Mix

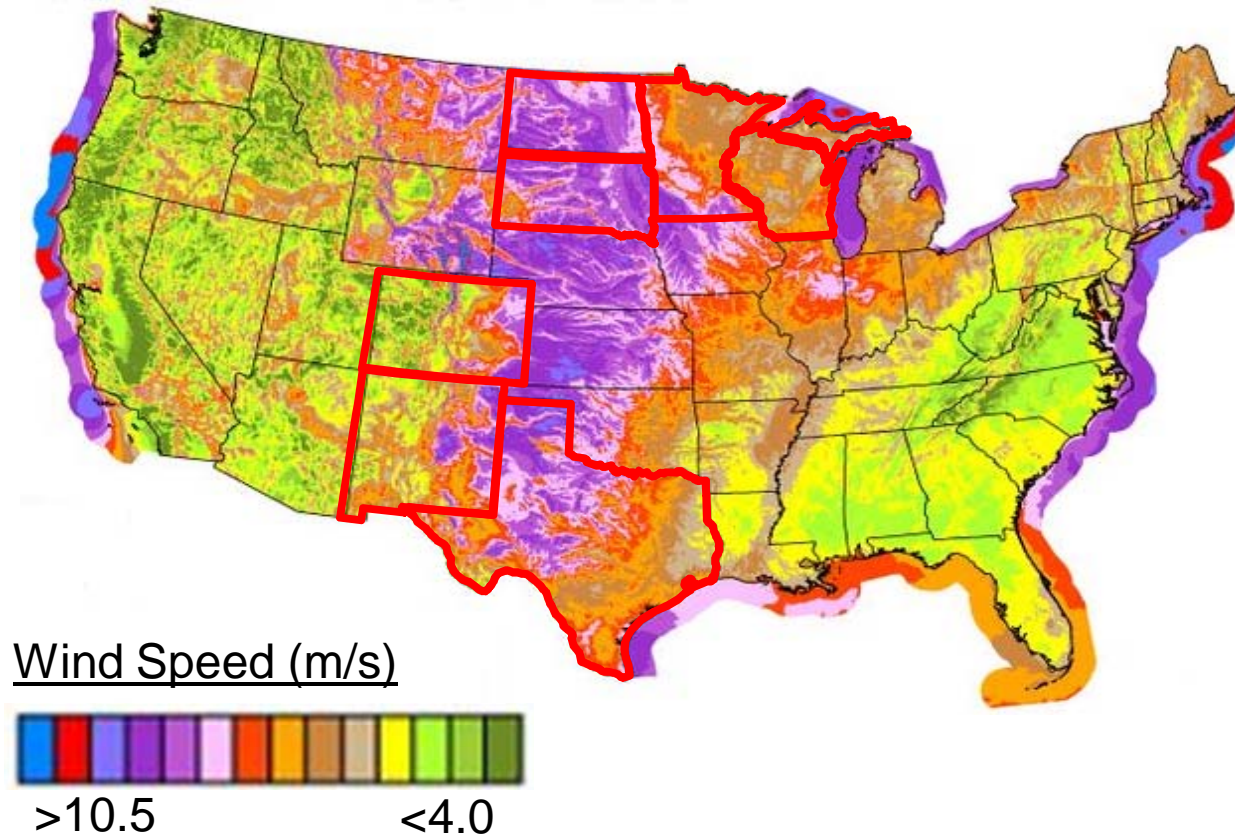
- Capitalizes on our most abundant natural resources
- Integrates wind and solar to save on fossil fuel costs
- Incorporates technology to reduce emissions
- Increases efficiency in our fossil fuel generation fleet



Invest in Renewables

Advantaged Geography

Wind Resource
Annual Average Wind Speed*



Source: NREL (with modifications)

*At 100 meters

Invest in Renewables

Wind Ownership Plans



600 MW **\$1.1 Billion** ***Rush Creek, Co***

- Approved by CPUC
- Construction has started
- In service 2018

750 MW ***Upper Midwest***

- Filing made 2016
- Decision mid-2017
- In service by 2020
- Three sites in Minnesota, one in North Dakota

\$1.5 Billion

- Undisclosed projects
- Potential location across jurisdictions

Potential investment of \$3.5 billion for 2017-2021

Upper Midwest Investment

Minnesota

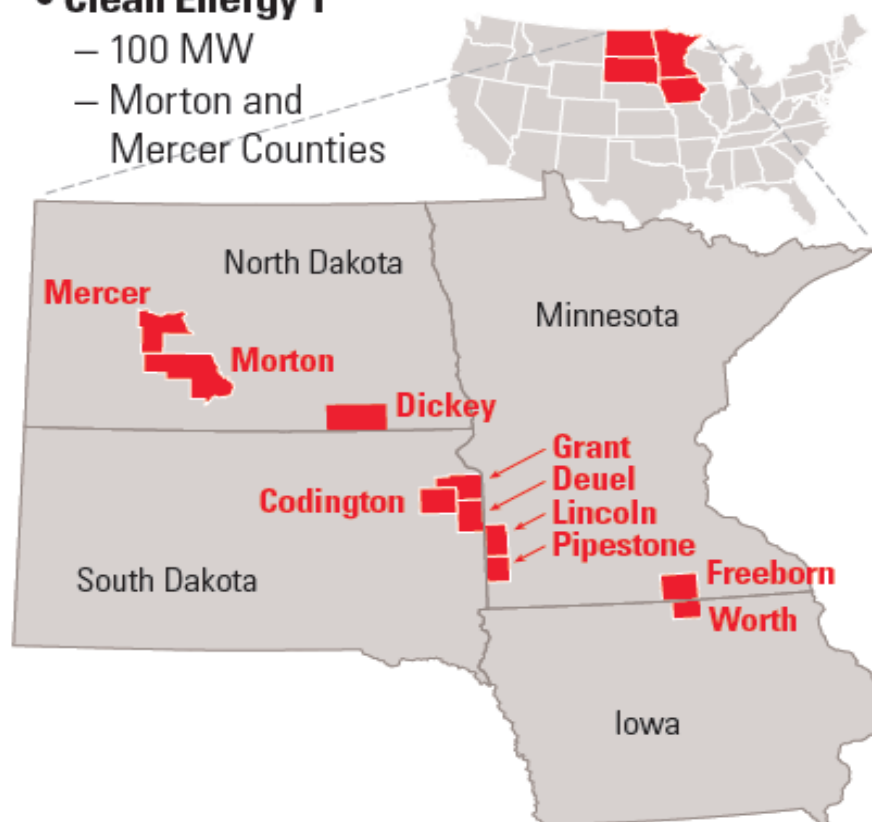
- **Blazing Star 1**
 - 200 MW
 - Lincoln County
- **Blazing Star 2**
 - 200 MW
 - Lincoln County
- **Freeborn Wind Energy**
 - 200 MW
 - Freeborn County
 - Worth County**
 - **Iowa
- **Lake Benton Wind Project**
 - 100 MW
 - Pipestone County

North Dakota

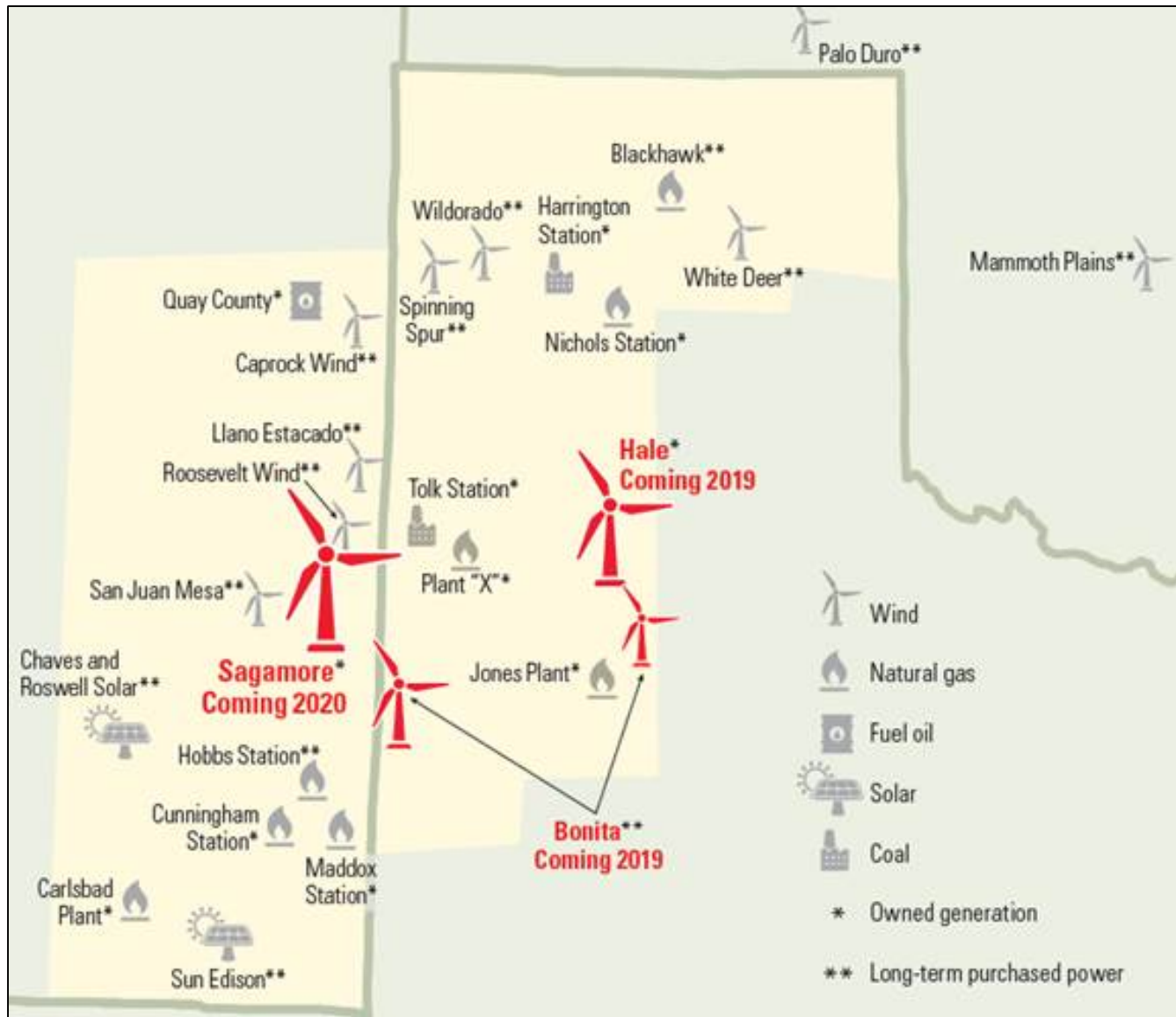
- **Foxtail Wind**
 - 150 MW
 - Dickey County
- **Clean Energy 1**
 - 100 MW
 - Morton and Mercer Counties

South Dakota

- **Crowned Ridge Wind**
 - 600 MW
 - Codington, Deuel and Grant Counties

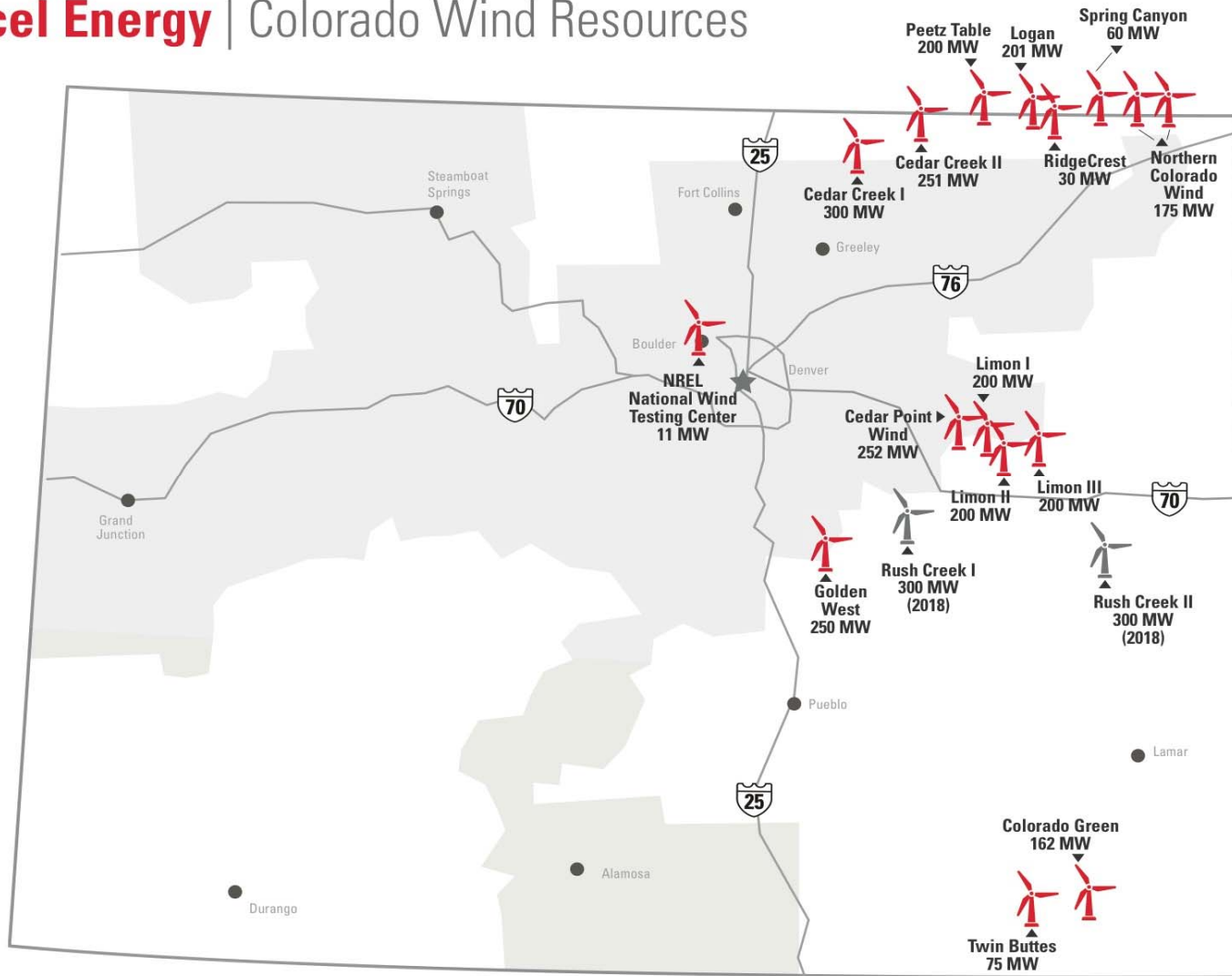


Southwest Investment



Colorado Investment

Xcel Energy | Colorado Wind Resources



About Rush Creek

- Designed, constructed locally
- Partners:
 - Vestas
 - Invenergy
- Paves way for more renewables
- Keeps existing farm land
- PUC + county approved
- Lowest cost wind in Colorado projects
- Timing
 - Construction 2017
 - Completion 2018

Largest wind project in the state

Two wind farms will supply

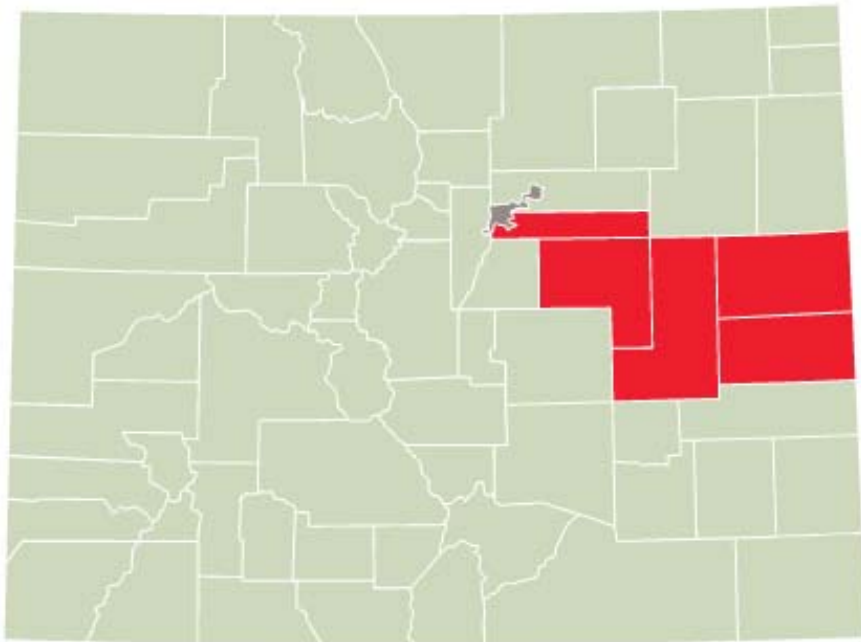
600 megawatts

of clean, renewable energy to customers



 **Xcel**Energy®

Boon For State's Economy



\$180 million

in landowner lease payments and
property taxes

Will benefit landowners in

five counties:

Arapahoe, Cheyenne, Elbert, Kit Carson,
and Lincoln

