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Renewable Energy In the Southwest

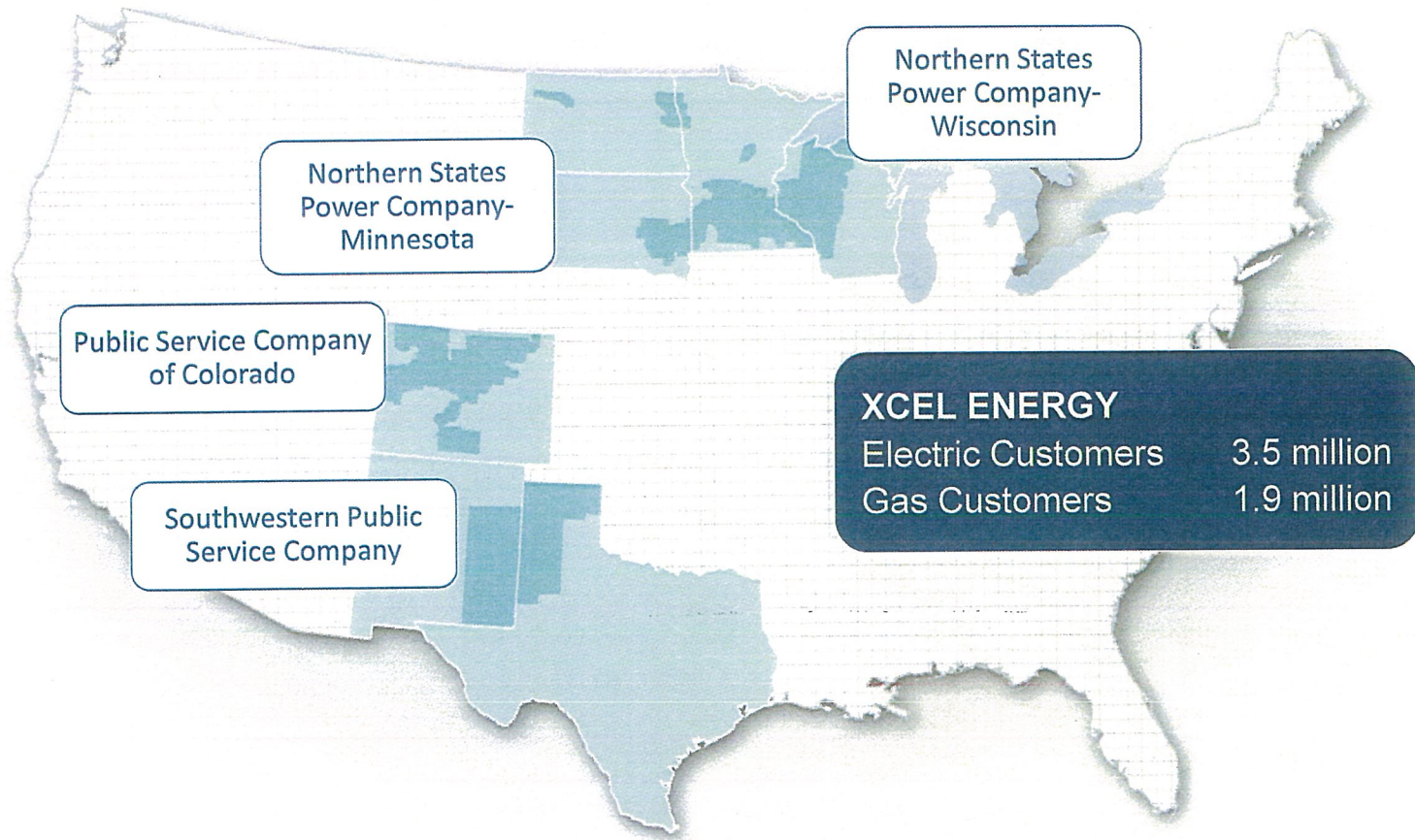
Planning for Our Energy Future

9/8/17

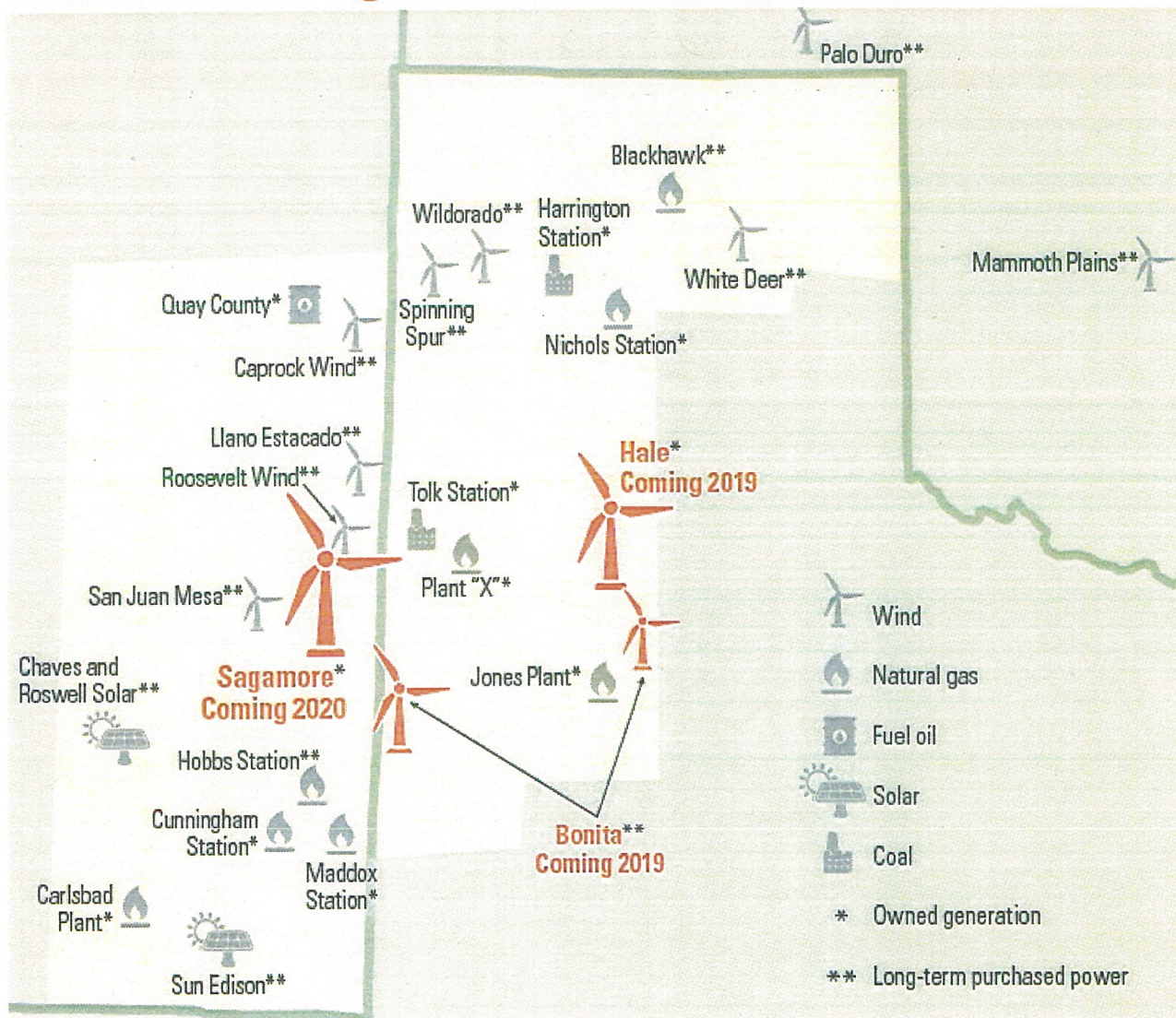
Bernarr Treat & Mike McLeod



The Xcel Energy System

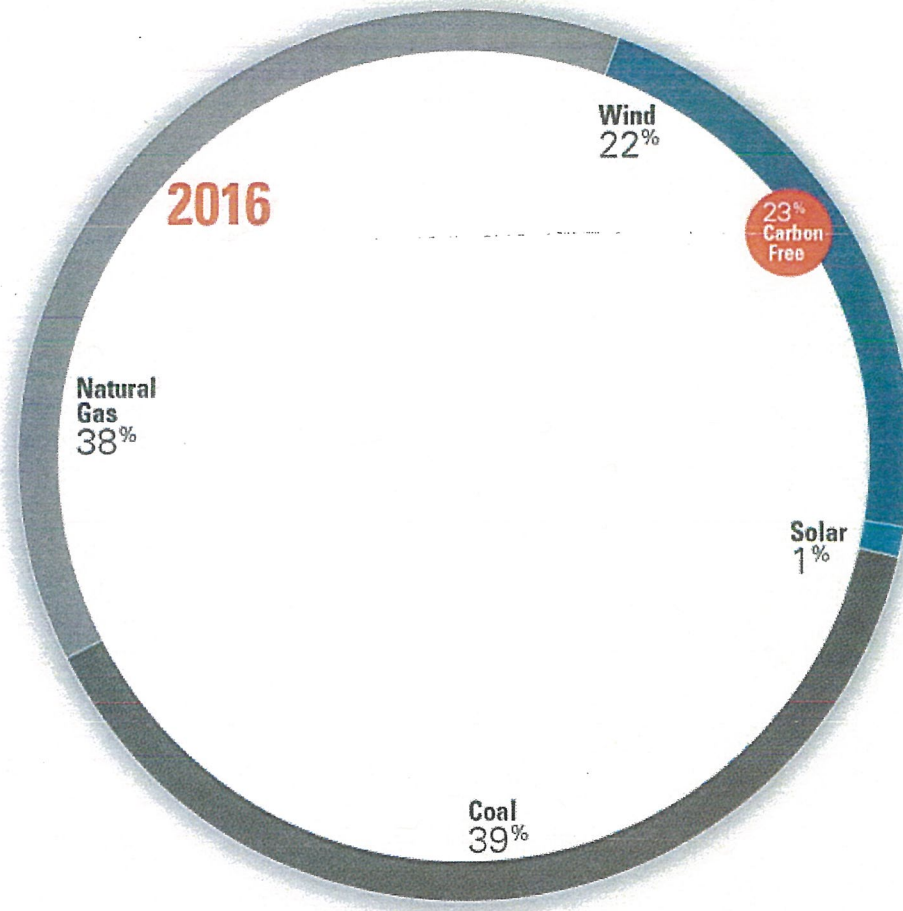


Generating Resources



Regional Energy Mix - 2016

Southwest (New Mexico, Texas)



Steel for Fuel

- 1,000 additional MW of wind planned for 2019, 2020, to be built and owned by Xcel Energy
- 522 MW in Roosevelt County, N.M.
- 478 MW in Hale County, Texas
- Another 230 MW to be added in 2019 through long-term power purchase agreement
- New low-cost wind farms (steel) to offset higher-cost production from older natural gas-fueled plants, translating into lower fuel costs.
- Expected savings from new wind farms is \$2.8 billion over 30 years.
- Regulatory approval sought by March 2018, with construction to begin immediately.

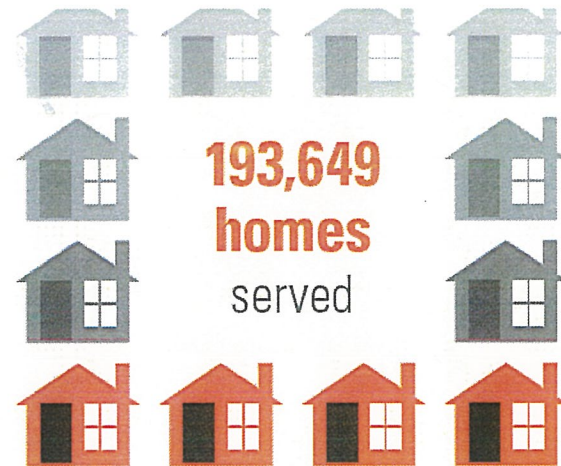
Sagamore Wind Project (New Mexico)

Located in **Roosevelt County, New Mexico**, approximately 20 miles southeast of Portales

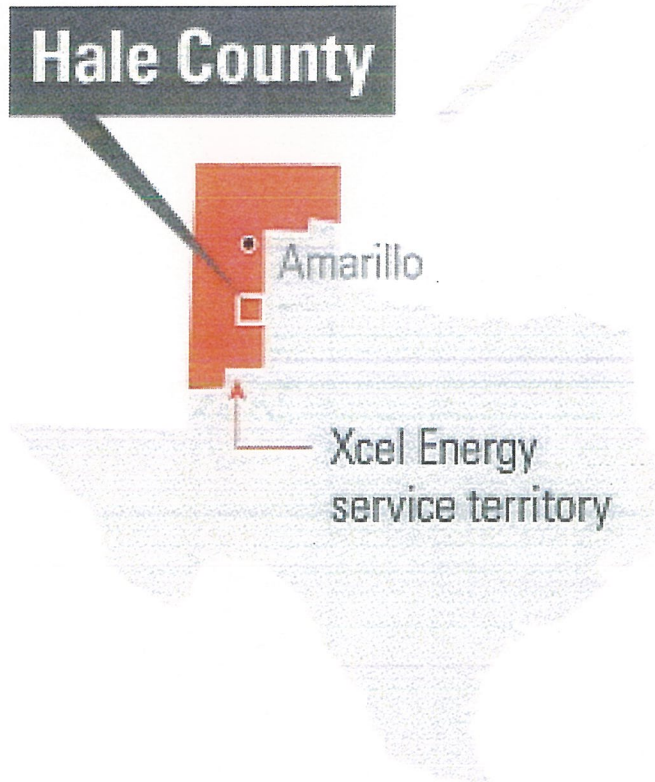
Xcel Energy
service territory

Portales
Roswell
Carlsbad

- 522 Megawatts
- More than 300 construction jobs
- 20 to 25 full-time operations careers
- 98 percent of final site footprint can remain in original use



Hale Wind Project (Texas)



- 478 Megawatts
- More than 300 construction jobs
- 17 to 22 full-time operations careers



Timeline of Wind Project Approvals and Construction

- March 2017 - Projects filed with Texas PUC and New Mexico PRC
- March 2018 – Expected Regulatory approval
- 3rd Quarter 2018 - Construction on Hale begins
- 2nd or 3rd Quarter 2019 - Construction on Sagamore begins
- 3rd Quarter 2020 – All projects completed

Sagamore Construction Jobs

- Contractor

- Safety Professionals
- Turbine construction
- Construct roads
- Construct Transmission Lines
- Construct Substation
- Install Foundations
- Truck Deliveries
- Traffic control
- General Labor
- Heavy Equipment operators
- Dust Control Water Truck
- Cement deliveries
- Tradesmen
- Security

- Xcel Energy

- Safety Professionals
- Project Management
- Engineering support
- QA/QC
- Document Control
- Project Controls
- Testing/Performance
- Admin Support

Further Research

- www.xcelenergy.com – Xcel Energy
- www.xcelenergy.com/ourenergyfuturesw
- www.awea.org – American Wind Energy Association
- www.seia.org – Solar Energy Industries Association

Questions