

New Wyoming Wind & Transmission

On April 4, 2017, Rocky Mountain Power announced a 20-year Integrated Resource Plan that includes significant investment in Wyoming. The company submitted its requests for regulatory review on June 30, 2017.

The plan includes approximately \$2.5 billion of new wind and transmission by 2020:

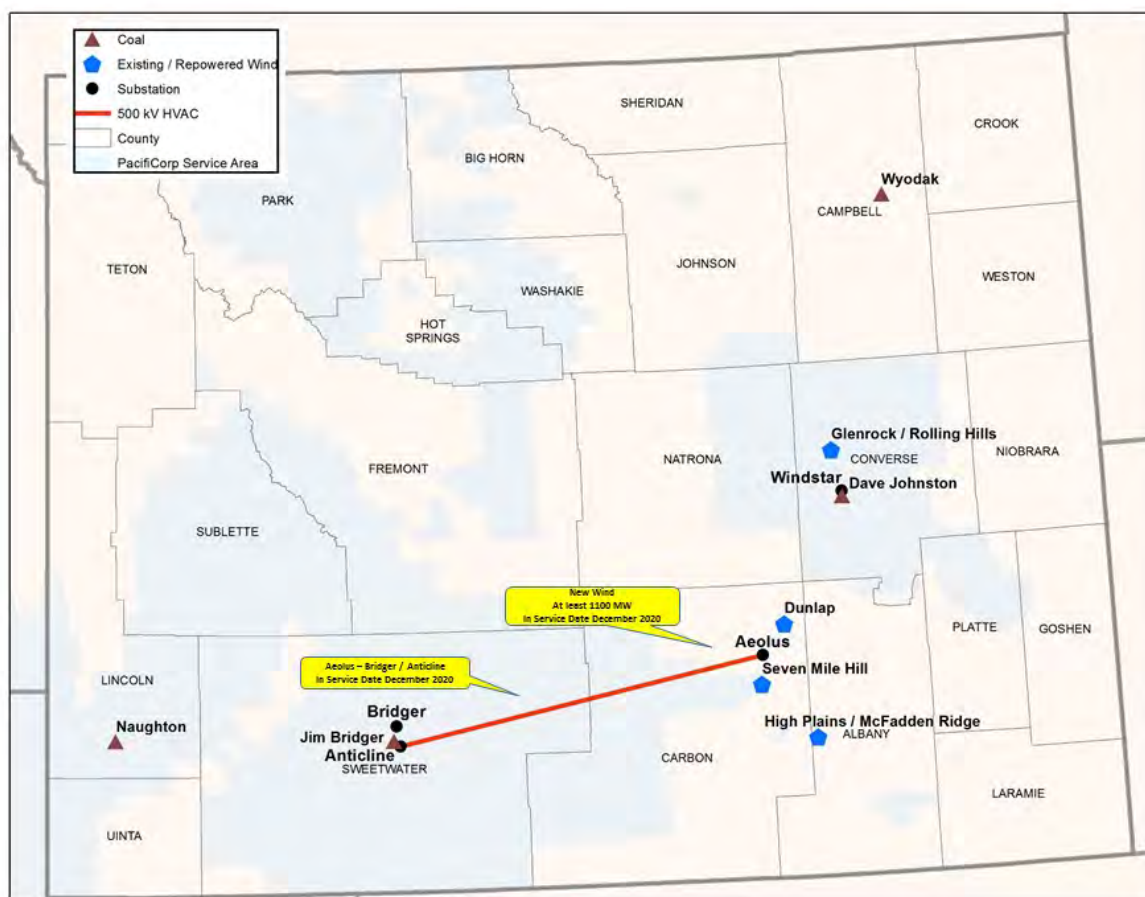
- At least 1,100 megawatts of new wind, primarily in Wyoming
- Construction of a new 140-mile, 500-kilovolt Gateway West transmission segment

By taking advantage of federal production tax credits, these projects will provide net savings for Wyoming customers and benefits to state and local economies.

Wyoming Benefits

These investments will help diversify the state's economy, create jobs and add to the tax base. We expect these projects to:

- Create between 1,000 and 1,400 construction jobs in Wyoming
- Contribute approximately \$70 million in tax revenue during development and construction
- Add to annual tax revenues by approximately \$11 million in 2021, growing to approximately \$14 million annually in 2024



More information is available at energyvision2020.com.



Energy Vision

2020



WHAT IS ENERGY VISION 2020?

Energy Vision 2020 is Rocky Mountain Power's plan to add more wind power and transmission in Wyoming, as well as make the state's existing wind turbines more efficient.

The \$3.5 billion investment plan includes:

- Adding new wind generation
- Upgrading existing wind farms
- Building new transmission



REPOWERING

As part of Energy Vision 2020, Rocky Mountain Power plans to upgrade its existing wind fleet (turbines) with larger blades, better control systems, and other newer technology. The \$1 billion in systemwide upgrades are planned to be complete by the end of 2020.



Benefits of the turbine upgrades include:

- Increasing energy production of the wind projects by 11 to 35 percent
- Extending the life of the projects by 10 years
- Providing improved power quality and voltage support to increase the reliability of the transmission system

We expect these projects to:

- Create more than 150 construction jobs in Wyoming
- Add about \$40 million in tax revenue through construction
- Add approximately \$2 million in additional annual property tax revenue, starting in 2021

TRANSMISSION

On April 4, 2017, Rocky Mountain Power announced a 20-year Integrated Resource Plan that includes significant investment in Wyoming. The plan includes approximately \$2.5 billion of new wind energy (at least 1,100 megawatts), as well as the construction of a new, 140-mile, 500-kilovolt Gateway West transmission segment by 2020.

We expect these projects to:

- Create between 1,000 and 1,400 construction jobs in Wyoming
- Contribute approximately \$70 million in tax revenue during development and construction
- Add to annual tax revenues by approximately \$11 million in 2021, growing to around \$14 million annually in 2024



WILDLIFE

Rocky Mountain Power fully embraces its commitment to being a steward of the environment and is engaged in identifying and addressing potential wildlife impacts throughout the siting, construction, operation, and decommissioning phases of our projects.

This includes:

- Pre-construction usage surveys to inform avoidance, minimization, and/or mitigation actions for project construction, operations, and decommissioning
- Coordination with relevant agencies
- Informed curtailment program during high eagle usage periods
- Implementing nest buffer and seasonal construction setbacks during construction
- Eagle nest surveys and ongoing annual monitoring within a 10-mile radius of the project footprint
- Ongoing avian/bat impact monitoring
- Multiple years of post-construction monitoring (for sage grouse, ungulates, and other species of concern), testing eagle detection and deterrence radar/cameras, and habitat modification/prey base surveys and management
- Removal of wildlife/livestock carrion on and near projects
- Retrofitting power poles and substations



Energy Vision
2020



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Rocky Mountain Power Wildlife Stewardship

PacifiCorp fully embraces its commitment to being a steward of the environment and is engaged in identifying and addressing potential wildlife impacts throughout the siting, construction, operation, and decommissioning phases of our projects. PacifiCorp's operational excellence at its existing Wyoming wind facilities is quickly approaching a decade, and our focus on being a long-term corporate citizen in the state is fundamental to our planning and operations.

Pre-construction usage surveys:

Multiple years of usage data is collected to inform avoidance, minimization, and/or mitigation actions for project construction, operations, and decommissioning. These surveys typically include habitat and usage surveys for avian, bat, and various wildlife species, including elk/antelope (crucial winter range), prairie dogs, swift fox, greater sage grouse, and other protected species.

Relevant agency coordination:

PacifiCorp coordinates and consults with US Fish and Wildlife Service and Wyoming Game and Fish Department staff on impact assessments and appropriate avoidance, minimization, and/or mitigation measures based on surveys identified above, including:

- Nest buffers
- Seasonal construction times/buffers
- Turbine no-build areas
- Potential seasonal/informed curtailment or cut-in speeds
- Carrion removal and potential lead abatement programs
- Power pole retrofits or other approved mitigation options
- Eagle Conservation Plan development for submittal of eagle take permit application

Informed curtailment program during high eagle usage periods:

PacifiCorp began analyzing experimental curtailment activities in the fall of 2012 to minimize collision risk of eagles with operating wind turbines. The experiment and data collection provided the opportunity to develop a detailed informed curtailment program targeting high eagle usage seasons and times of day. Today, the informed curtailment program utilizes observation towers and biological observers. The observers have access to the projects' control system to curtail turbines, based on real-time eagle and wind turbine collision risk.

Nest buffer and seasonal construction setbacks implemented during construction:

Construction timelines and no-build buffers are identified and implemented based on various avian and wildlife surveys performed prior to construction. On some projects, this has included removal of entire strings of proposed turbines to minimize impacts to eagles, seasonal construction setbacks for sage grouse, and/or no-build buffer areas for known eagle and other raptor nesting sites.

Eagle nest surveys and ongoing annual monitoring:

For future/proposed projects, PacifiCorp will perform eagle nest surveys within a 10-mile radius of the project footprint. These surveys will utilize helicopters and follow US Fish and Wildlife Service Eagle Conservation Plan Guidance recommendations. Operational facilities are currently monitored annually, up to 2.5 miles from project turbines, to determine eagle nesting locations and breeding success.



Ongoing avian/bat impact monitoring:

Once projects are operational, multiple years of mortality monitoring is implemented to identify impacts to avian/bat species. The monitoring may include searches at up to 100% of the project turbines on a weekly, bi-weekly, and/or monthly basis. All mortalities are reported to the Wyoming Game and Fish Department and US Fish and Wildlife Service.

Multiple years of post-construction monitoring for sage grouse, ungulates, and other species of concern:

- PacifiCorp has performed greater than seven years of sage grouse impact monitoring at the Seven Mile Hill I/II wind project ranch, including a multi-year sage grouse radio collared telemetry study
- PacifiCorp has performed greater than eight years of mountain plover assessments near the Foote Creek Rim I wind project
- PacifiCorp performed multiple years of post-construction monitoring for ungulates, including 3 years of antelope and elk impact telemetry studies at the Dunlap I wind project in coordination with the University of Wyoming

Multiple years of testing of eagle detection and deterrence radar/camera:

PacifiCorp tested experimental detection and deterrence equipment over a two-year period at multiple Wyoming wind projects to assess the ability of such equipment to minimize/eliminate eagle and turbine collision risk. PacifiCorp has entered into initial discussions with the American Wind and Wildlife Institute and the US Department of Energy to continue testing experimental detection and deterrence equipment at the Glenrock and Rolling Hills wind projects starting in 2018.

Multiple years of habitat modification/prey base surveys and management to reduce raptor usage near wind turbines:

PacifiCorp has modified/managed high use and potential raptor prey base habitat to minimize raptor hunting activities near wind turbines. Management activities include removing rabbit habitat, such as manmade rock piles and outcroppings, and modifying non-essential construction/operational equipment that could be utilized as prey base shelter (i.e. road culverts and crane cribbing). PacifiCorp continues to identify and target raptor attractant management at operational projects.

Removal of wildlife/livestock carrion on and near project:

PacifiCorp actively removes known wildlife and livestock carcasses from the project footprint to minimize foraging bird attraction and reduce the possibility of lead poisoning exposure.

Retrofitting power poles and substations:

PacifiCorp retrofits power poles and substations to conform to Avian Power Line Interaction Committee (APLIC) recommended guidance to minimize/eliminate electrocution risks and mitigate eagle mortalities.

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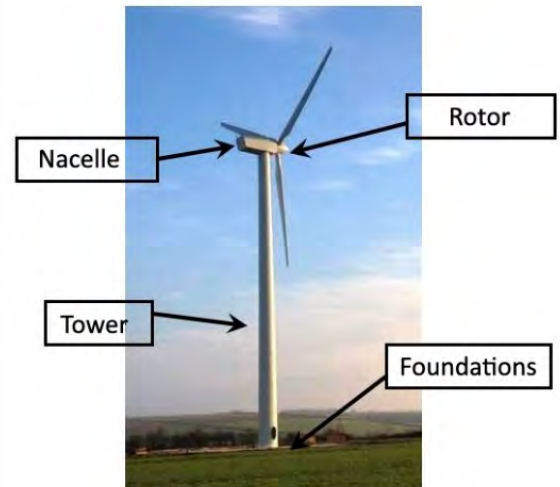
Repowering Wyoming's Wind Fleet

Rocky Mountain Power is planning to upgrade its existing wind fleet with larger blades, better control systems and other newer technology. The \$1 billion in system-wide upgrades are planned to be complete by the end of 2020. The company submitted its requests for regulatory review on June 30, 2017.

The upgraded turbines will continue to use existing towers and foundations and will be completed within existing project footprints.

Benefits of the upgrades include:

- Increasing energy production of the wind projects by 11 to 35 percent
- Completing the upgrades by 2020 will requalify the wind projects for federal production tax credits for another 10 years, paying for the cost of the upgrades and providing net savings for customers
- Extending the life of the projects by 10 years
- Providing improved power quality and voltage support to increase the reliability of the transmission system



Wyoming Benefits

These investments (approximately \$700 million in Wyoming) will help diversify the state's economy, create jobs and add to the tax base.

We expect these projects to:

- Create more than 150 construction jobs in Wyoming
- Add about \$40 million in tax revenue through construction and approximately \$2 million in additional annual property tax revenue starting in 2021



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