

Wind Energy



Wind in Wyoming

Energy Leader

Wyoming is known as the “Energy State,” and for good reason. With an abundance of natural resources, Wyoming consistently ranks high in traditional, and now emerging, energy sources including wind. The “Energy State” was named by the National Renewable Energy Laboratory (NREL) as first of 11 states in the Mountain West and Pacific Northwest regions for Developable Nameplate Wind Power Production by Class. That’s something.

Potential

There are 8 gigawatts (GW) of proposed but undeveloped wind energy in Wyoming, and 472 GW of technologically possible capacity. The proposed 8 GW is enough energy to power almost 6 million homes, 20 times the number of households in Wyoming.

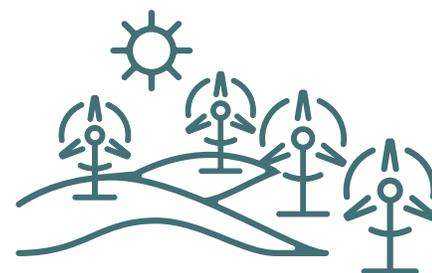
Environment

With a tax climate extraordinarily favorable for business, higher education programs to develop a workforce skilled in wind energy technology and wind resources consistent with utility-scale production, Wyoming is poised to be a leader in the wind power industry.

MANUFACTURING SALES TAX EXEMPTION

The sales tax burden is exempt on the sale or lease of machinery to be used in the State of Wyoming directly and predominately in manufacturing tangible personal property. In addition, power or fuel purchased for manufacturing or agriculture is exempt from sales tax when consumed directly in the manufacturing process.

8 GW
**PROPOSED/
 UNDERDEVELOPED
 WIND ENERGY***
TO POWER 6M HOMES†



472 GW**
 of technologically possible capacity
\$1 billion†
 in investment
\$9 billion†
 in new economic activity
\$4 billion†
 in income
68,000†
 job-years
\$2.5 billion†
 in new tax revenue

Building upon this activity and addressing critical infrastructure and policy issues to leverage Wyoming’s outstanding wind resource is a prospective opportunity to drive diversification, jobs, and revenue.

src: *Center for Energy Economics and Public Policy, Oct 2, 2017, Rob Godby
 ** Wind Energy Technology Office. U.S. Department of Energy
 † Center for Energy Economics and Public Policy, Sept, 2016, Rob Godby

WIND STATS

IN THE UNITED STATES

40% of class 5, 6, and 7 inland wind resources in U.S. with 116, 670 MW potential

src: NREL



1st for new renewable energy development

src: www.ucsusa.org/EnergyProgress

“Wyoming may dominate coal production in the country, but it also handily leads in terms of renewable energy being built on a per-capita basis as the state harnesses its great wind resources.”

src: www.ucsusa.org/EnergyProgress

6th in wind capacity potential

src: Wind Energy Technology Office. U.S. Department of Energy

15th current wind energy production at 1,410 MW

src: Wind technologies market report 2015

Wyoming's Wind Projects

6,140 MW
PROPOSED TOTAL
“NAME-PLATE” CAPACITY

GENERATION PROJECTS

Wyoming's top five large proposed wind projects, including the

1	Chokecherry Sierra Madre	3,000 MW
2	Pathfinder Wind Project	2,100 MW
3	Invenergy Wind Project	120 MW
4	Pioneer Wind Park	80 MW
5	Viridis Eolia Wind Project	840 MW

The total “name-plate” capacity of these five proposed projects is **6,140 MW**. The proposal north of Medicine Bow would be the world's biggest wind project.

src: University of Wyoming study from 2016

ROCKY MOUNTAIN POWER

A 20-year plan was announced on April 4, 2017.

- Upgrading existing wind assets.
- Beginning construction on **Gateway West transmission line**.
- Constructing up to **1,100 new MW of wind projects** primarily in Wyoming by 2020.
- Constructing **859 additional MW**.

TRANSWEST EXPRESS

Plans to build a **730-mile transmission line** across the American West would include **1,000 wind turbines** to be built near Rawlins generating more than **2,500 MW**.



Learn more about Wyoming's wind energy at www.wyomingbusiness.org/windenergy.



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