Wyoming is a national leader in wind generation potential.

Wyoming has one of the richest wind resources in the nation, with a technical potential of approximately 472,000 MW according to NREL. Wyoming currently has 1,589 MW of online wind capacity, with a total capital investment of $3.3 billion. By combining its potential wind resource with manufacturing expertise, Wyoming could become a powerhouse for the wind industry. Investment in transmission infrastructure and maintaining a competitive state tax profile are critical elements for the state to expand wind power, which will create even more opportunities for economic diversification including the attraction of manufacturers and service suppliers.

Jobs & Economic Benefits

The U.S. wind industry is a major economic development driver. In addition to job creation and billions of dollars in project investment, the wind industry invests heavily in local communities, providing significant revenue in the form of property, state, and local taxes.

- Direct wind industry jobs in 2019: 501 to 1,000
- Capital investment in wind projects through 2019*: $3.3 billion
- Annual state and local tax payments by wind projects: $8 million
- Annual land lease payments: $11 million

*Source: Based on state and national averages from LBNL, NREL

Wind-Related Manufacturing

Over 500 manufacturing facilities in the U.S. make products for the wind industry, from blades, towers, and turbine nacelles to raw components such as fiberglass and steel.

- Number of active manufacturing facilities in the state: 2
Wind Projects as of Q1 2020

- Installed wind capacity: **1,589 MW**
  - State rank for installed wind capacity: **18th**
- Number of wind turbines: **1,003**
  - State rank for number of wind turbines: **17th**
- Wind projects online: **22** (Projects larger than 10 MW: 18)
- Wind capacity under construction: **4,498 MW**
- Wind capacity in advanced development: **101 MW**

Wind Generation

In 2019, wind energy provided **9.80%** of all in-state electricity production.

- State rank for share of electricity: **15th**
- Equivalent number of homes powered by wind in 2019: **370,800**

Wind Energy Potential

- Land-based technical wind potential at 80 m hub height: **472,418 MW**
  (Source: AWS Truepower, NREL)

Environmental Benefits

Wind energy reduces emissions and water consumption by avoiding generation from fossil-fuel power plants.

- In-state carbon dioxide emissions avoided in 2019*: **1.5 million metric tons**
  - Equivalent cars' worth of emissions avoided: **310,000**
- In-state water consumption savings in 2019**: **803 million gallons**

*Estimated using Aurora power sector model.
**Based on national average water consumption factors for coal and gas plants.

Wyoming

The state of Wyoming does not currently have a renewable portfolio standard (RPS) or goal set in place to require utilities to generate a certain percentage of electricity from renewable sources.