

WIND ENERGY IN NEW HAMPSHIRE



Wind energy means economic development for New Hampshire.

There are at least nine manufacturing facilities in New Hampshire producing components for the wind industry. For example, Burndy LLC operates power transmission manufacturing facilities in Littleton and Milford. Entering the wind energy supply chain translates into high quality jobs across the state. As the wind industry experiences continued growth across the nation, even more opportunities will be created for manufacturers and service suppliers.

BENEFITS 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.

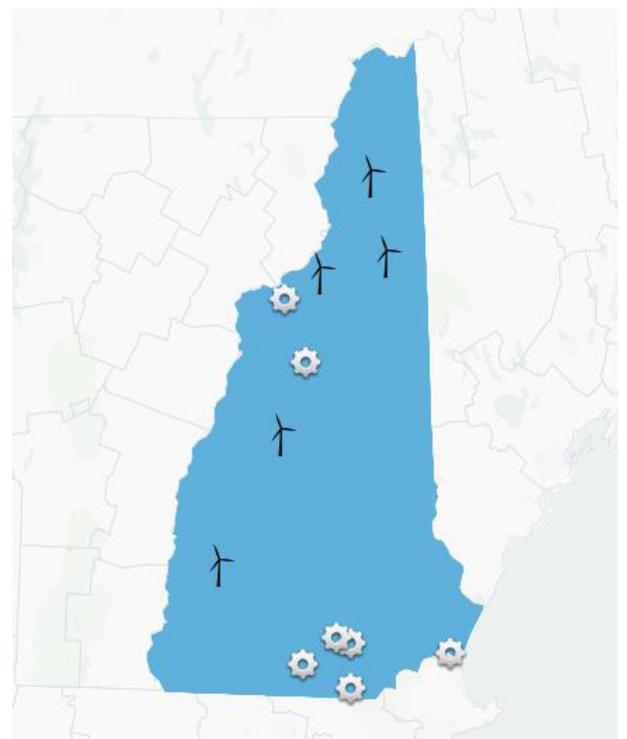
- Direct wind industry jobs in 2018: <500
- Capital investment in wind projects through 2018*: \$385 million
- Annual state and local tax payments by wind projects: \$3.5 million
- Annual land lease payments*: \$500k - \$1 million

*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: 9



 Online Wind Project  Wind-related Manufacturing Facility

Wind Projects as of 4Q 2019

- Installed wind capacity: **214 MW**
 - » State rank for installed wind capacity: **29th**
- Number of wind turbines: **84**
 - » State rank for number of wind turbines: **33rd**
- Wind projects online: **6** (Projects larger than 10 MW: 5)
- Wind capacity under construction: **0 MW**
- Wind capacity in advanced development: **0 MW**

Wind Generation

In 2018, wind energy provided **2.5%** of all in-state electricity production.

- State rank for share of electricity: **27th**
- Equivalent number of homes powered by wind in 2018: **41,700**

Wind Energy Potential

- Land-based technical wind potential at 80 m hub height: **12,661 MW**
(Source: AWS Truepower, NREL)
- Offshore net technical wind potential at 100 m hub height: **1,295 MW** (Source: NREL)

Environmental Benefits

Generating wind power creates no emissions and uses virtually no water.

- 2018 annual state water consumption savings*: **81 million gallons**
- 2018 equivalent number of water bottles saved: **617 million**
- 2018 annual state carbon dioxide (CO₂) emissions avoided: **205,000 metric tons**
- 2018 equivalent cars' worth of emissions avoided: **44,000**

*Based on national average water consumption factors for coal and gas plants.

Renewable Portfolio Standard

New Hampshire enacted a renewable portfolio standard (RPS) in 2007 that requires utilities, excluding municipal utilities, to derive 24.8% of their electricity sales from renewable resources by 2025. Out of the total requirement, 15% of the state's electricity must come from new renewables by 2025.

