WIND ENERGY IN NEW YORK

New York has been successful in attracting investment for wind energy manufacturing and large wind energy projects.

New York has the most wind capacity of any East Coast state and is currently ranked 14th in the nation with 1,987 MW of wind power. There are at least 12 manufacturing facilities producing components and high quality jobs for the wind industry. In 2017, New York committed to developing up to 2,400 MW of offshore wind by 2030, which was increased to 9,000 MW by 2030 early in 2019. Expanding both onshore and offshore wind power will create even more opportunities for manufacturers and service suppliers in the state.

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.

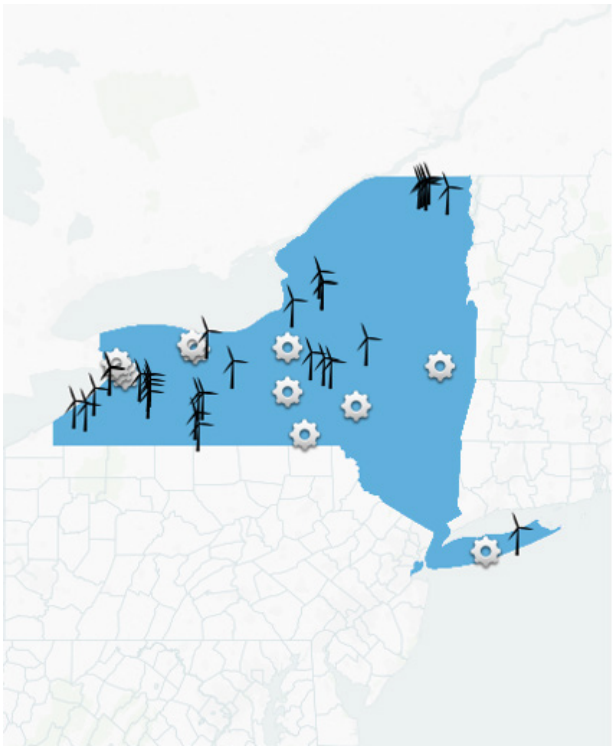
- Direct wind industry jobs in 2018: **3,001 to 4,000**
- Capital investment in wind projects through 2018*: **$4.1 billion**
- Annual state and local tax payments by wind projects: **$47 million**
- Annual land lease payments*: **$5 - $10 million**

*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: **12**



Online Wind Project

Wind-related Manufacturing Facility

POWERED BY WindIQ AWEA

STATE WIND FACTS

Wind Projects as of 2Q 2019

- Installed wind capacity: **1,987 MW**
  - » State rank for installed wind capacity: **14th**
- Number of wind turbines: **1,128**
  - » State rank for number of wind turbines: **13th**
- Wind projects online: **29** (Projects larger than 10 MW: 22)
- Wind capacity under construction: **0 MW**
- Wind capacity in advanced development: **1,704 MW**

Wind Generation

In 2018, wind energy provided **3.2%** of all in-state electricity production.

- State rank for share of electricity: **24th**
- Equivalent number of homes powered by wind in 2018: **421,400**

Wind Energy Potential

- Land-based technical wind potential at 80 m hub height: **91,648 MW**
  (Source: AWS Truepower, NREL)
- Offshore net technical wind potential at 100 m hub height: **73,454 MW** (Source: NREL)

Environmental Benefits

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

- 2018 annual state water consumption savings*: **737 million gallons**
- 2018 equivalent number of water bottles saved: **5.6 billion**
- 2018 annual state carbon dioxide (CO_2) emissions avoided: **1.8 million metric tons**
- 2018 equivalent cars' worth of emissions avoided: **387,000**

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

POLICY

Renewable Portfolio Standard

New York first adopted a renewable portfolio standard (RPS) in 2004, and most recently increased the standard in July 2019. The RPS requires utilities in the state to derive 70% of their electricity from renewable energy by 2030. New York also established a new goal for the state to obtain 100% of its electricity from carbon-free resources by 2040.

AWEA AMERICAN WIND ENERGY ASSOCIATION