Wind energy means economic development for Missouri.

Missouri’s proximity to important wind energy areas, combined with manufacturing expertise, could make it a manufacturing powerhouse for the wind industry. The state currently has 8 wind projects online, representing a total capital investment of $1.9 billion. More wind is on the way, with enough capacity under construction and in advanced development to double the state’s installed capacity. There are at least 11 manufacturing facilities in Missouri making products for the wind industry, and expanding wind power will create even more opportunities for manufacturers and service suppliers in the state. For example, leading manufacturer ABB, Inc. operates power transmission manufacturing facilities in St. Louis and Jefferson City.

**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: 1,001 to 2,000
- Capital investment in wind projects through 2018*: $1.9 billion
- Annual state and local tax payments by wind projects: $4.5 million
- Annual land lease payments*: $1 - $5 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: 11
Wind Projects as of 4Q 2019

- Installed wind capacity: **959 MW**
  - State rank for installed wind capacity: **21st**
- Number of wind turbines: **499**
  - State rank for number of wind turbines: **22nd**
- Wind projects online: **8** (Projects larger than 10 MW: 7)
- Wind capacity under construction: **879 MW**
- Wind capacity in advanced development: **600 MW**

Wind Generation

In 2018, wind energy provided **3.6%** of all in-state electricity production.

- State rank for share of electricity: **23rd**
- Equivalent number of homes powered by wind in 2018: **282,800**

Wind Energy Potential

- Land-based technical wind potential at 80 m hub height: **278,695 MW**
  (Source: AWS Truepower, NREL)
- Offshore net technical wind potential at 100 m hub height: **NA MW** (Source: NREL)

Environmental Benefits

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

- 2018 annual state water consumption savings*: **8.1 billion gallons**
- 2018 equivalent number of water bottles saved: **61 billion**
- 2018 annual state carbon dioxide (CO$_2$) emissions avoided: **14 million metric tons**
- 2018 equivalent cars’ worth of emissions avoided: **3.1 million**

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

Renewable Portfolio Standard

A 2008 ballot initiative replaced Missouri’s existing voluntary targets with a mandatory renewable portfolio standard (RPS) that requires investor owned utilities to supply **15% of their electricity sales with renewable resources by 2021.** Wind energy has historically been the renewable resource of choice to meet renewable standards requirements in Missouri.