

WIND ENERGY IN OHIO



Ohio is a national leader in wind-related manufacturing.

Ohio has more wind-related manufacturing facilities than any other state in the nation, with 60 manufacturing facilities producing components for the wind industry and providing high-quality jobs. In 2017, the wind industry supported 2,000 to 3,000 direct and indirect jobs in the state. Ohio has significant wind resource potential, both on- and offshore. By developing more of these resources, the state can create new economic development and allow the manufacturing sector to attract larger investments.

BENEFITS Jobs & Economic Benefits

An investment in wind power is an investment in jobs, including jobs in operations and maintenance, construction, manufacturing and many support sectors. In addition, wind projects produce lease payments for landowners and increase the tax base of communities.

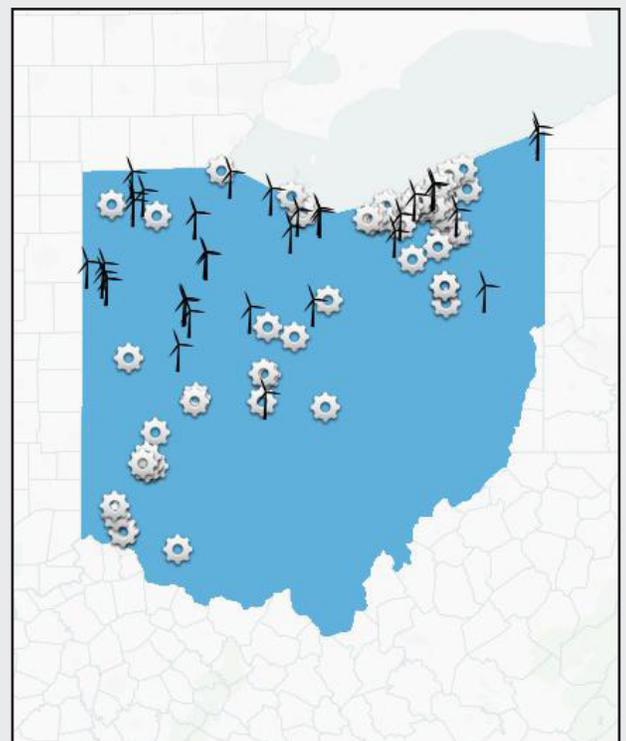
- 2017 direct and indirect jobs supported: **2,001 to 3,000**
- Total capital investment through 2017*: **\$1.2 billion**
- Annual land lease payments*: **\$1 - \$5 million**

*Calculations based on national and state averages.

Wind-Related Manufacturing

The United States has over 500 manufacturing facilities producing products for the wind industry that range from blade, tower and turbine nacelle assembly facilities to raw component suppliers, including fiberglass and steel.

- Number of active manufacturing facilities in the state: **60**



 Online Wind Project  Manufacturing Facility

Wind Projects as of 4Q 2018

- Installed wind capacity: **729 MW**
 - » State rank for installed wind capacity: **25th**
- Number of wind turbines: **383**
 - » State rank for number of wind turbines: **25th**
- Wind projects online: **40 (Projects above 10 MW: 5)**
- Wind capacity under construction: **133 MW**
- Wind capacity in advanced development: **25 MW**

Wind Generation

During 2017, wind energy provided **1.3%** of all in-state electricity production.

- State rank for share of electricity: **33rd**
- Equivalent number of homes powered by wind in 2017: **145,300**

Wind Energy Potential

- Land-based technical wind potential at 80 m hub height: **119,128 MW**
(Source: AWS Truepower, NREL)
- Offshore net technical wind potential at 100 m hub height: **17,990 MW** (Source: NREL)

Environmental Benefits

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

- 2017 annual state water consumption savings*: **2.0 billion gallons**
- 2017 equivalent number of water bottles saved: **15.1 billion**
- 2017 annual state carbon dioxide (CO₂) emissions avoided: **3.5 million metric tons**
- 2017 equivalent cars' worth of emissions avoided: **744,000**

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



Renewable Portfolio Standard

Ohio passed an Alternative Energy Portfolio Standard (AEPS) as part of a larger Advanced Energy Standard in 2008, requiring utilities to provide 12.5% of their 2025 electricity sales from renewable resources. In 2014, SB 310 froze the RPS target for two years, pushing the final target of 12.5% from 2024 to 2026.