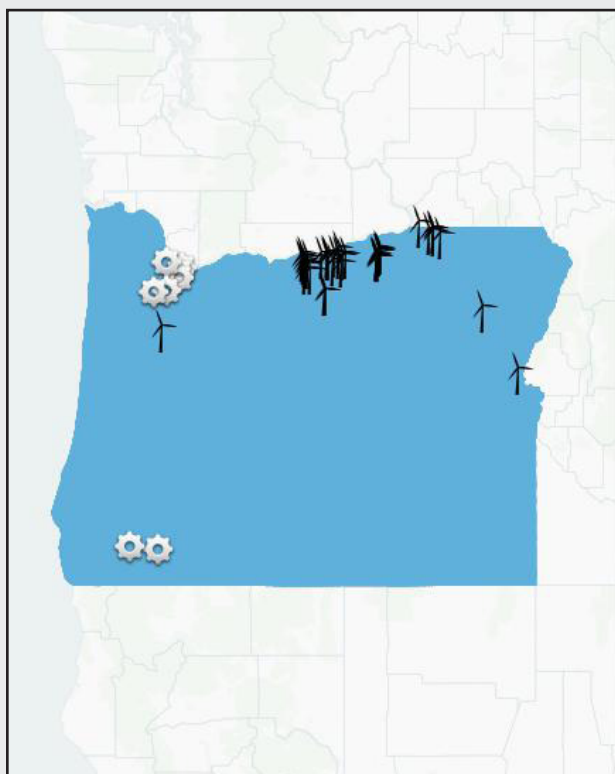


OREGON WIND ENERGY



Oregon is successful in attracting investment for wind energy manufacturing and large wind energy projects.

Oregon is a national leader in wind power installations and wind power generation, with over \$6 billion total investment in wind projects. Developing Oregon's wind resource has provided numerous economic and environmental benefits to the state. Major industry players, such as turbine manufacturer Vestas and gearbox manufacturer Moventas, have opened facilities in Oregon and there are at least 8 manufacturing facilities in Oregon producing components for the wind industry.



BENEFITS

Jobs & Economic

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.

- 2015 direct and indirect jobs supported: 1,001 to 2,000
- Total capital investment: \$6.2 billion
- Annual land lease payments: \$5-10 million

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: 8

 Online Wind Project  Manufacturing Facility

Note: Calculations based on national and state averages.

Wind Projects

- Installed wind capacity: 3,163 MW
- State rank for installed wind capacity: 8th
- Number of wind turbines: 1,843
- State rank for number of wind turbines: 9th
- Wind projects online: 26
- Wind capacity under construction: 50 MW
- Wind capacity in advanced development: 40 MW

Current Wind Generation

For the 12 month period ending July 2016, wind energy provided 12.16% of all in-state electricity production.

- Equivalent number of homes powered by wind: 611,000

Wind Generation Potential

The DOE Wind Vision Scenario projects that Oregon could produce enough wind energy by 2030 to power the equivalent of 2 million average American homes.

- Land based technical wind potential at 80 m hub height: 6,344 MW
- Land based technical wind potential at 110 m hub height: 66,472 MW (Source: NREL)

Environmental Benefits

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

- 2015 annual state water consumption savings*: 699 million gallons
- 2015 equivalent number of water bottles saved: 5.3 billion
- 2015 annual state carbon dioxide (CO₂) emissions avoided: 1.3 million metric tons
- 2015 equivalent cars worth of emissions avoided: 283,000

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



Renewable Portfolio Standard

First enacted in 2007, the Oregon legislature increased the state's renewable portfolio standard (RPS) in March, 2016. The RPS sets targets for in-state electricity providers based on their size, with the largest utilities now required to derive 50 percent of their sales from renewable resources by 2040.