

OREGON KEY INDUSTRIES

Clean Technology

Wood & Forest Products

Advanced Manufacturing

High Technology

Outdoor Gear & Activewear



STATE PROFILE

Population:	3,823,465
Geographic Size: (9th in U.S.)	98,466 sq mi
Oregon's GDP ⁽²⁰⁰⁸⁾ :	\$161.6 billion
Average Wage ⁽²⁰⁰⁹⁾ :	\$39,980
Annual Export Value ⁽²⁰⁰⁹⁾ :	\$14.9 billion
Patents per Million Persons ⁽²⁰⁰⁹⁾ : (U.S. average is 310)	526

Oregon's Wind Energy Economy

Oregon's growing wind energy sector is poised for even faster growth in the future as the state moves beyond just energy production to development of a maintenance and service supply chain for the industry.

The Washington and Oregon Columbia River Corridor is experiencing historic growth in wind energy. The region currently represents the second highest total wind energy center in the U.S. as measured by electrical generation capacity, or Megawatts.

Oregon is home to leaders in the wind energy industry – including Vestas and Iberdrola Renewables, as well as numerous other smaller companies and/or component manufacturers.

Oregon's 1,920 MW (as of January 2010) of installed wind power is estimated to bring the state:

- Over \$3.1 billion in new capital investment
- Over \$20 million in annual royalty payments to rural landowners
- Roughly \$250 million collected for local property tax and community services over the life of projects
- Supported nearly 2,800 construction jobs
- Roughly 155 new permanent family-wage jobs for operation and maintenance

Leading Oregon Wind Firms

Vestas Americas
Element Power
Horizon Wind Energy
Iberdrola Renewables
Portland General Electric
PacifiCorp
Cascade Wind Corporation
EverPower Wind Holdings
EnXco
Oregon Wind Corporation
RES Americas
Skyrun Systems
Suzlon Wind Energy Corporation
Turby USA
Upwind Solutions
Western Community Energy
American Wind Systems

In Oregon, the synergy between wind power companies and manufacturing firms is increasing daily. This growth presents opportunities for growth in both fields. We have the facilities and the skilled workers to produce and maintain wind turbine components locally. With local training programs focusing on wind technicians and renewable energy systems, and advocacy groups recruiting new workers into the manufacturing field, the state is poised to meet workforce and business needs across both industries.

Oregon's Goal:

Establish a wind energy service and maintenance hub for the regional, national and global wind markets.

How We Do It:

- I. **Retention/Expansion:** Help existing Oregon businesses diversify or expand into the wind energy sector. Connect Oregon's manufacturing and service companies with opportunities in the wind energy economy.
- II. **Recruitment:** Identify gaps in the supply chain and recruit wind component suppliers and related companies and service providers to Oregon.

An Industry With Impact:

Wind farms and turbines are complex systems that require on-going maintenance, service and replacement parts. This industry is in its infancy and significant capacity expansion is necessary to serve the existing and growing wind industry.

Oregon's **Business Energy Tax Credit (BETC)** allows businesses to apply for tax credits up to 50% of eligible costs for projects that generate renewable energy.

The Oregon Department of Energy offers low-interest loans through the **Energy Loan Program** for renewable energy and efficiency projects.

The **Oregon Tax Credit for Renewable Energy Equipment Manufacturers** offers 50% of the equipment and some facility costs of a facility which will manufacture renewable energy systems in tax credits.

The **Renewable Portfolio Standard** mandates that 25% of Oregon's electricity needs to come from renewable sources by 2025.

The National Renewable Energy Laboratories (NREL) Economic Impact model documents a \$20 per installed kW annual direct operating and maintenance cost. So with over 8,000 MW installed in the Columbia System (OR, WA, ID, MT) that translates to \$160 million annually in estimated Operation and Maintenance (O&M) expenses over the next several years.

Nationwide, wind turbine and component manufacturers announced, added or expanded 70 new facilities in the past two years, including more than 55 in 2008. Those new manufacturing facilities created 13,000 new direct jobs in 2008.

In 2008, the U.S. wind energy industry brought online over 8,500 megawatts (MW) of new wind power capacity, increasing the nation's cumulative total by 50% to over 25,300 MW and pushing the U.S. above Germany as the country with the largest amount of wind power capacity installed.



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