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3Degrees

American Wind Energy Assoc.

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Foundation

BP Wind Energy

Calpine

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Christenson Electric

Citizens' Utility Board

Climate Solutions

Columbia Gorge
Community College

Community Renewable
Energy Association

E.ON Climate & Renewables

EDF Renewable Energy

EDP Renewables

Element Power

Environment Oregon

Environment Washington

Eurus Energy America

FirstWind

Gaelectric

Gamesa Energy USA

GE Energy

Geothermal
Resources Council

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Green Mountain Energy

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MontPIRG

Natural Capital Partners

Natural Resources
Defense Council

NextEra Energy Resources

Northwest Environmental
Business Council

Northwest SEED

NW Energy Coalition

Oregon Tech

Oregon Solar Energy
Industries Association

OSPIRG

Portland Energy
Conservation, Inc.

REC Silicon

REpower USA

RES America Developments

Solar Oregon

SolarCity

Stoel Rives, LLP

SunPower Corporation

SWCA Environmental Consultants

Tonkon Torp LLP

Vestas Americas

Warm Springs Power &
Water Enterprises

Washington

Environmental Council

WashPIRG

Western Resource Advocates

Spring 2013



Renewable
Northwest
Project

Renewable Energy: Good for Oregon

- Over **\$9 billion** invested in new renewables and more than **3,200 MW** installed.

Investment Benefit Totals

- Invested: **\$9,182,417,787**
- Public Revenue:¹ **Over \$79 million**
- Installed Capacity: **3,262.047 MW**
- Estimated Jobs Created:² **Over 4,600**

Wind Investments

Total Investment:³ **\$7,271,803,262**

Total Installed Capacity: **3,153 MW**

- Capable of electrifying approximately **700,000** Oregon households annually, nearly half of Oregon's total of 1,507,137 households.⁴
- Pounds of CO₂ mitigated:⁵ **Over 9.3 million tons** annually
- Oregon currently ranks **5th** out of any state in wind power capacity installed as of the fourth quarter of 2012.⁶

Job Creation:²

Direct Construction: **2,112**

Permanent On-Site: **181**

▪ Est. Cumulative Total Wages: **\$87,859,200**

▪ Estimated Annual Wages: **\$8,282,560**

Public Revenue:

- Total Cumulative:⁷ **\$78,978,262**
- Estimated annual land lease payments:⁴ **\$7.5 million**

Solar Investments⁸

Total Invested: **\$1,665,415,121**

Total Installed Capacity: **85 MW**

- Total Number of Installations: **8,862**
- Total installation jobs created: **664**
- Estimated Total Wages: **\$29,542,156**

Solar Manufacturing:

- Estimated Job Creation:³ **1470**
- Estimated Annual Wages: **\$55,036,800**

Public Revenue:⁹

- Estimated Future Payments for Utility Scale Solar:⁹ **\$469,800 Annually**

Geothermal Investments

Total Invested:¹⁰ **\$245,199,404**

Total Operating Capacity: **23 MW**

- Estimated Capacity in Development:¹¹ **90-114 MW**

Public Revenue:

- Estimated Future Annual Payments:¹² **\$1.3 million**

Estimated Job Creation: **320**

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- ❖ All dollar values presented in inflation adjusted 2012 dollars (2012\$)
 - 1. Cumulative revenue paid, as of the 2012-2013 tax year, to State and Local governments through property taxes, Strategic Investment Programs, etc.
 - 2. Job creation was determined for both direct construction and permanent operations & maintenance positions. Data was gathered either by directly sourcing information from project reports and news feeds, or were estimated using *The Jobs and Economic Development Impact Model (JEDI)* developed by National Renewable Energy Laboratory.
 - 3. The majority of investment figures were sourced from project reports and news feeds. For projects lacking investment data, investment costs were estimated using the industry standard rate of \$2 mil per MW installed. U.S. Department of Energy. (2012) *2011 Wind Technologies Market Report*
 - 4. Assuming 30% average efficiency and typical Oregon household electricity consumption of 12 MWh annually. Household information obtained from *American Community Survey* (2013) (U.S. Census Bureau)
 - 5. Assuming an average emissions rate from a typical U.S. coal-fired generation (2,249 lbs/MWh). U.S. Environmental Protection Agency. *Clean Energy* (<http://www.epa.gov/cleanenergy/energy-and-you/affect/air-emissions.html>).
 - 6. American Wind Energy Association. (January 2013). *U.S. Wind Industry Fourth Quarter 2012 Market Report*
 - 7. Data obtained directly from County Assessors and Treasurers. 2011 & 2012 wind payment figures for Sherman and Gilliam Counties have not submitted and have been estimated based on past reports. Payments are made in the form of property taxes, Strategic Investment Programs, etc.
 - 8. Data obtained from Oregon Department of Energy (RETC & BETC), Oregon Public Utility Commission, and news feeds.
 - 9. Estimation for existing utility scale private solar farms that are currently under Oregon's Enterprise Zones. Estimation based on total capital investment at a levy rate of 0.9%.
 - 10. Investment data sourced directly from project reports, news feeds, and JEDI
 - 11. Sourced from pending applications, exploration projects, and current projects under development.
 - 12. Estimation for new geothermal projects that have not yet been assessed. Estimation based on total capital investment at a levy rate of 0.9%.