



Idaho Renewable Energy Projects Fact Sheet

➤ Over **\$1.8 billion** invested in new renewables and more than **1,000 MW** installed.

Cumulative Project Investment & Benefit Totals¹

- Invested:² **\$1,853,027,256**
- Public Revenue:³ **Over \$9.3 million**
- Installed Capacity: **1,006.3 MW**
- Estimated Jobs Created:⁴ **Over 1,630**

Wind Investments

Total Investment:² **\$1,737,294,327**

Total Installed Capacity:⁵ **972.6 MW**

- Total Number of Projects: **31**
- Equivalent to **22%** of Idaho's net electricity generation in 2010⁶ and capable of electrifying approximately **211,000** Idaho households annually, nearly **37%** of Idaho's total of 575,497 households⁷.
- Pounds of CO₂ mitigated:⁸ Over **2.4 million** tons annually
 - CO₂ mitigated is equivalent to a reduction two times greater than Idaho's 2010 total carbon emissions from electricity generation of just over 1.2 million metric tons.⁶
- Idaho currently ranks **17th** out of any state in wind power capacity installed as of the fourth quarter of 2012.⁹

Estimated Job Creation:⁴

Direct Construction: 1327

▪ Est. Cumulative Total Wages:
\$63,799,506

Permanent On-Site: 112

▪ Estimated Annual Wages:
\$5,040,000

Public Revenue:

- Total Cumulative:³ **\$8,996,890**
- Estimated annual land lease payments:¹⁰ Over **\$2 million**

Geothermal Investments:

Total Invested:² **\$44,292,811**

Total Installed Capacity:⁵ **13 MW**

- Total Number of Installations: **1**

Estimated Job Creation:⁴

Direct Construction: 92

▪ Est. Cumulative Total Wages:
\$4,423,1766

Permanent On-Site: 12

▪ Estimated Annual Wages:
\$540,000

Public Revenue:³

- Estimated Annual Payments: **Over \$150,000**

- 3Degrees
- American Wind Energy Assoc.
- Atkins
- Blattner Energy
- Bonneville Environmental Foundation
- BP Wind Energy
- Calpine
- Center for Energy Efficiency & Renewable Technologies
- 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
- GL Garrad Hassan
- Green Mountain Energy
- HDR Engineering, Inc.
- Iberdrola Renewables
- Jones Stevedoring
- K&L Gates
- Kapla Law PLLC
- Lane Powell PC
- MAP
- Montana Environmental Information Center
- MontPIRG
- Natural Capital Partners
- Natural Resources Defense Council
- NextEra Energy Resources
- Northwest Environmental Business Council
- Northwest SEED
- NW Energy Coalition
- OneEnergy Renewables
- 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

Bioenergy Investments

Total Invested:² **Over \$71,440,118**

Total Installed Capacity:⁵ **20.65 MW**

- Number of installations: **8**

Estimated Job Creation:⁴

Direct Construction: **60**

- Est. Cumulative Total Wages: **\$2,884,680**

Permanent On-Site: **27**

- Estimated Annual Wages: **\$1,215,000**

-
- ❖ All dollar values presented in inflation adjusted 2012 dollars (2012\$)
 - 1. Cumulative totals spanning the years 1998 through the first quarter of 2013 for currently operating renewable energy systems.
 - 2. Investment data for currently operating renewables was either sourced directly from project reports and news feeds, or based on estimates from the U.S. Energy Information Administration's April 2013 report, *Updated Capital Cost Estimates for Utility Scale Electricity Generating Plants* and NREL's November 2010 report *Cost and Performance Assumptions for Modeling Electricity Generation Technologies*. Estimations are as follows: Biomass \$2.8 mil/MW, Geothermal \$3.2 mil/MW, Wind \$2.0 mil/MW, Solar PV \$3.8 mil/MW.
 - 3. Cumulative public revenue as of the 2012-2013 tax year, paid to State and Local governments through Idaho's 3% gross earnings tax. Majority of tax data provided by Idaho State Tax Commission, missing data was estimated using the 3% gross earnings tax and estimated energy sales.
 - 4. Job creation was determined for both direct construction and permanent operations & maintenance positions only. 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 (NREL). Wages estimated based on industry averages obtained from the U.S. Bureau of Labor Statistics (<http://www.bls.gov/green/greencareers.htm#greendata>).
 - 5. Installation data sourced from Northwest Power and Conservation Council, county & state reports, and project reports.
 - 6. Assuming wind turbine generation efficiency of 31%. Generation data source from EIA's *State Electricity Profiles* (2012) <http://www.eia.gov/electricity/state>
 - 7. Assuming wind turbine generation efficiency of 31% and typical Idaho household electricity consumption of 12.5 MWh annually. Electricity consumption data obtained from U.S. Energy Information Administration *Average Monthly Residential Electricity Consumption*. Household information obtained from *American Community Survey* (2013) (U.S. Census Bureau)
 - 8. Assuming wind turbine generation efficiency of 31% and the typical emissions rate from U.S. natural gas-fired electricity generation (1,135 lbs/MWh). U.S. Environmental Protection Agency. *Clean Energy* (<http://www.epa.gov/cleanenergy/energy-and-you/affect/air-emissions.html>).
 - 9. American Wind Energy Association. (January 2013). *U.S. Wind Industry Fourth Quarter 2012 Market Report*
 - 10. American Wind Energy Association. (October 2012), *State Fact Sheets Updated Through 3rd Quarter of 2012*. http://www.awea.org/learnabout/publications/factsheets/factsheets_state.cfm