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Renewable Northwest Project

Total Renewable Energy Investment in Oregon

More than **\$5 billion** has been invested in Oregon's renewable energy industry.

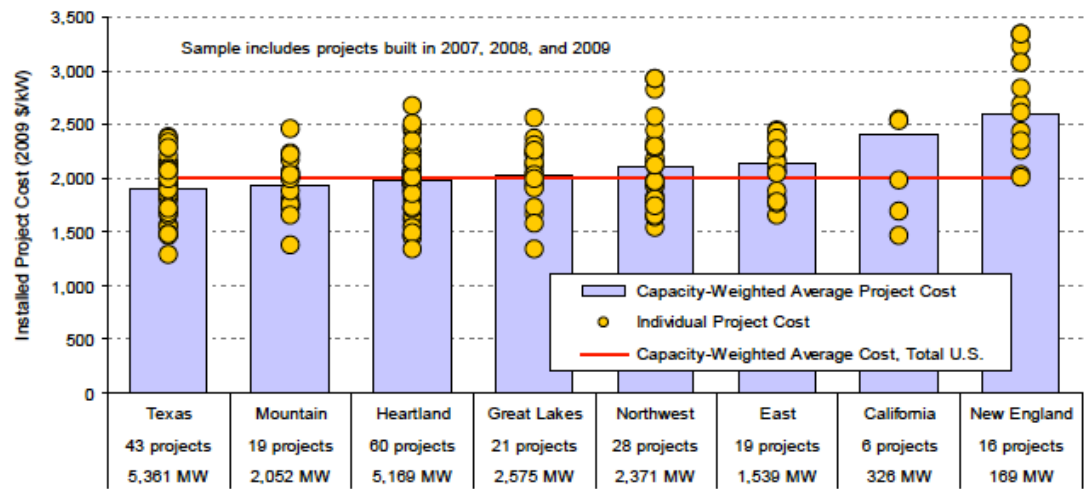
Technology	Investment
Wind	\$4,509,968,594
Solar Manufacturing	\$632,000,000
Solar Development	\$143,531,794
Geothermal	\$121,152,545
Total	\$5,406,652,933

How We Got the Numbers

Oregon Wind

\$4.5 billion of total capital investment in wind project development.

There are currently 2,374 MW of wind operating or under construction in Oregon. Total investment of \$4.5 billion is based on an average installed cost of \$1,900/kW, which is a conservative estimate¹.



Source: Berkeley Lab

Figure 29. Installed Wind Power Project Costs by Region: 2007-2009 Projects

Oregon Solar PV Manufacturing

More than **\$600 million** of capital investment in solar manufacturing plants.

	Jobs	Plant Investment
SolarWorld ⁱⁱ	1,000	\$500,000,000
Solaix ⁱⁱⁱ	80	\$52,000,000
Sanyo ^{iv}	200	\$80,000,000
PV Powered ^v	150	Unknown
Peak Sun ^{vi}	50	Unknown
Supply Chain ^{vii}	100	Unknown
Total	1,580	\$632,000,000

Oregon Solar PV Development

More than **\$140 million** of capital investment in residential and commercial solar PV development, according to data from the Oregon Residential and Business Tax Credit programs^{viii}.

Oregon Geothermal Development

With Federal cost share programs, **over \$120M** has been invested in geothermal exploration, research, and project development since 2009. At least 75MW will be coming online in the short term, and the exploration and research will provide a very “hot” future^{ix}!

ⁱ According to the Lawrence Berkeley National Lab (LBNL) 2009 Wind Technologies Report, the capacity-weighted average installed cost of wind projects developed between 2007-2009 in the Northwest was over \$2,000/kW. The majority (roughly 80%) of total Northwest wind capacity came online in 2007 or later.

Wiser, Ryan and Bolinger, Mark. Lawrence Berkeley National Laboratory (LBNL). *2009 Wind Technologies Report*. August, 2010. <<http://eetd.lbl.gov/ea/emp/reports/lbnl-3716e.pdf>>

ⁱⁱ <http://www.solarworld-usa.com/news-and-resources/news/solarworld-opens-north-americas-largest-solar-cell-manufacturing-facility.aspx> **and** <http://www.solarworld-usa.com/news-and-resources/news/SolarWorld-fulfills-1000-worker-commitment-in-Oregon.aspx>

ⁱⁱⁱ <http://www.solaicx.com/news-and-events.html> **and** http://www.sustainablebusinessoregon.com/articles/2010/01/solaicx_plans_to_triple_portland_plant_capacity.html

^{iv} http://www.oregonlive.com/business/index.ssf/2008/09/its_official_sanyo_hatching_80.html **and** Oregon Solar Energy Industries Association.

^v Direct conversation with PV Powered. February 2, 2011.

^{vi} Oregon Solar Energy Industries Association (OSEIA). February 2, 2011.

^{vii} Ibid.

^{viii} According to Oregon Department of Energy (ODOE), the total system costs of solar PV installations under the Residential Energy Tax Credit (RETC) program from 2001 through July, 2010, equals \$38,339,391. The total system costs of solar PV installations under the Business Energy Tax Credit (BETC) program from 2001 through January, 2011, equals \$105,191,863.

^{ix} US Department of Energy (ODOE), Energy Efficiency and Renewable Energy (EERE). Geothermal Technologies Program. http://apps1.eere.energy.gov/geothermal/projects/state_listing.cfm/state=OR