

State Economic Impacts of NETL Oregon



The U.S. Department of Energy’s National Energy Technology Laboratory (NETL) supports energy-related research and development (R&D) and science education programs throughout Oregon and the nation. Through these actions, and by participating in the state economy from employment and operational activities, NETL serves as an important economic catalyst for Oregon.

NETL conducted an economic analysis using a state-level input-output model to quantify the laboratory’s economic impacts on Oregon. The analysis revealed that NETL injected \$33 million directly into the state economy in 2014. It was further found that NETL had a total estimated impact of \$57 million on Oregon’s economy in 2014.

The table below summarizes NETL’s direct impact on Oregon’s economy in 2014. Included are the 116 full-time jobs at NETL filled by federal and contractor employees, as well as NETL’s spending on grants, R&D awards, cooperative agreements, contracts, and purchase orders within Oregon. All dollar figures in the tables are in millions of dollars.

Direct Economic Impact of NETL on the State of Oregon, 2014

Input Category	
Jobs (federal employees and site-support contractors)	116
Total Direct Economic Impact on Oregon	\$33 M*

The impact of NETL on Oregon’s economy is greater than the total of the laboratory’s direct spending, because money spent by NETL is spent again by the recipient employees and businesses. This economic “ripple effect” is measured in the model through a series of multipliers that provide estimates of the number of times each dollar of direct spending cycles through the state economy in the form of additional (indirect and induced) spending, personal income, and employment.

Total Economic Impact of NETL on the State of Oregon, 2014

Impact Category	
Jobs (direct, indirect, and induced)	507
Total Economic Impact on Oregon	\$63 M

NETL’s full economic impact is actually larger than the estimates in the table above, because the estimates do not capture the indirect and induced impacts that “leak” into other states.

**Monetary data adjusted to millions of dollars (\$2014)*





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As of April 2016, NETL was partnering in seven cost-shared research projects with Oregon organizations to meet the laboratory's mission to discover, integrate, and mature technology solutions to enhance the nation's energy foundation and protect the environment for future generations. These projects are listed below:

1. Evolving Robust and Reconfigurable Multi-Objective Controllers for Advanced Power Systems
2. Design, Fabrication, and Characterization of Microchannel Heat Exchangers for Fossil-Fired Supercritical CO₂ Cycles
3. New Mechanistic Models of Long-Term Evolution of Microstructure and Mechanical Properties of Nickel-Based Alloys
4. Pulse Detonation Engine for Advanced Oxy-Combustion of Coal-Based Fuel for Direct Power Extraction Applications
5. Hydrate Evolution in Response to Ongoing Environmental Shifts
6. Assessing the Response of Methane Hydrates to Environmental Change at the Svalbard Continental Margin
7. Clean Cities Outreach Education and Performance Tracking Grant Program

The total value of the seven multi-year projects, including cost-sharing by NETL's research partners, is nearly \$5 million. NETL's contribution is nearly \$4 million.



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