

ECONOMIC IMPACTS OF NETL UNITED STATES

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The U.S. Department of Energy's National Energy Technology Laboratory (NETL) is dedicated to advancing carbon management and resource sustainability technologies. As the country's only government-owned and -operated energy laboratory, it plays a pivotal role in bridging early-stage research with practical energy solutions. NETL maintains wide-ranging expertise and drives impactful research and development (R&D) within its laboratories and beyond.

The Laboratory conducts significant intramural R&D, while also managing a comprehensive extramural R&D portfolio across various DOE offices including: Fossil Energy and Carbon Management, Energy Efficiency and Renewable Energy, Cybersecurity, Energy Security and Emergency Response, Electricity, Grid Deployment, Manufacturing and Energy Supply Chains and the Joint Office of Energy and Transportation. Our research portfolio spans 1,100 R&D activities across 50 states.

NETL forges strong ties with industry, academic institutions and national and international research entities. Through these partnerships, the Lab fosters groundbreaking technologies that propel economic progress while diminishing risks.

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NETL conducted an economic analysis using an input-output model to quantify the Laboratory's economic impacts on the United States. The two tables below summarize NETL's impacts on the national economy in 2023.

The first table includes employment and salaries of individuals employed in the United States at NETL as either federal employees or site support contractors (full-time equivalents), and NETL's spending on grants, R&D awards, contracts, cooperative agreements and purchase orders. The analysis revealed that NETL injected \$1.0 billion directly into the nation's economy in 2023.

Summary of NETL Expenditures and Number of Employees (U.S.)

| Impact Category | |
|----------------------------------------------------------------------------|---------------|
| Federal Employment and Site Support Contractor (full-time equivalent jobs) | 1,471 |
| Total Expenditures | \$1.0B |

NETL's impact on the U.S. economy is greater than the Lab's total direct spending because money spent by NETL is spent again by the recipient employees and businesses. This economic "ripple effect" is captured in the model through a series of multipliers that provide estimates of the impact of each dollar of direct spending cycling through the national economy in the form of additional (indirect and induced) spending, personal income and employment. The analysis concluded that NETL had a total estimated impact of \$2.8 billion on the U.S. economy in 2023 (see table below).

NETL's Total Economic Impact on the United States, 2023

| Impact Category | |
|---------------------------------------------------------------|---------------|
| Jobs (direct, indirect and induced full-time equivalent jobs) | 14,835 |
| Total Economic Impact (direct, indirect and induced) | \$2.8B |

NETL is a U.S. Department of Energy national laboratory that drives innovation and delivers solutions for a clean and secure energy future by advancing carbon management and resource sustainability technologies. Through its expertise and research facilities, NETL is advancing innovations to enable environmental sustainability for all Americans. Leveraging the power of workforce inclusivity and diversity, innovators at NETL's research laboratories in Albany, Oregon; Morgantown, West Virginia; and Pittsburgh, Pennsylvania, conduct a broad range of research activities that support DOE's mission to ensure America's security and prosperity by addressing its energy and environmental challenges through science and technology solutions