

# STATE ECONOMIC IMPACTS OF NETL PENNSYLVANIA



# NETL

**NATIONAL ENERGY TECHNOLOGY LABORATORY**

The U.S. Department of Energy's National Energy Technology Laboratory (NETL) in Pittsburgh, Pennsylvania, has a distinguished track record of developing cutting-edge technologies through transformative science. The laboratory has been at the forefront of innovation in energy technologies since 1910, focusing on resolving environmental issues. NETL's Pennsylvania laboratory has pioneered work on mine safety, acid rain mitigation, and pollution control technologies for advanced power generation. Today, NETL's researchers and project partners nationwide are working on managing carbon across the full lifecycle and enabling environmental sustainability for all Americans. NETL's researchers in Pennsylvania are part of an energy research powerhouse for the region, tackling research that is the focus of nationwide attention. Through its research activities, science education programs, employment, and operational activities, NETL is an important economic catalyst for Pennsylvania.

NETL conducted an economic analysis using a state-level input-output (IO) model to quantify the laboratory's economic impacts on Pennsylvania. The two tables below summarize NETL's impacts on Pennsylvania's economy in 2022.

The first table includes employment and salaries of individuals employed in Pennsylvania at NETL as either federal employees or site support contractors (full-time equivalents), as well as NETL's spending on grants, R&D awards, contracts, cooperative agreements, and purchase orders, within Pennsylvania. The analysis revealed that NETL injected \$135 million (\$135M) directly into the state economy in 2022.

Summary of NETL expenditures and number of employees (PA)

Impact Category	
Federal Employment and Site Support Contractor (full-time equivalent jobs)	658
Total Expenditures	\$135M

NETL's impact on the U.S. economy is greater than the lab's total direct spending because the money is spent again by the recipient employees and businesses. This economic "ripple effect" is captured in the IO model through a series of multipliers that provide estimates of the impact of each dollar of direct spending cycling through the state 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 \$248 million (\$248M) on Pennsylvania's economy in 2022 (see table below).

NETL's Total Economic Impact on the State of Pennsylvania, 2022

Impact Category	
Jobs (direct, indirect, and induced full-time equivalent jobs)	1,522
Total Economic Impact (direct, indirect, and induced)	\$248M

NETL is a U.S. Department of Energy national laboratory that drives innovation and delivers technological solutions for an environmentally sustainable and prosperous energy future. Through its world-class scientists, engineers and research facilities, NETL is ensuring affordable, abundant and reliable energy that drives a robust economy and national security, while developing technologies to manage carbon across the full life cycle, enabling environmental sustainability for all Americans, advancing environmental justice and revitalizing the economies of disadvantaged communities. Leveraging the power of workforce inclusivity and diversity, highly skilled 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 transformative science and technology solutions.