

STATE ECONOMIC IMPACTS OF NETL WEST VIRGINIA



NETL

NATIONAL ENERGY TECHNOLOGY LABORATORY

The U.S. Department of Energy's National Energy Technology Laboratory (NETL) in Morgantown, West Virginia, is a full-service energy innovation center that supports and facilitates the development of energy strategies that can help turn the threat of climate change into an opportunity for economic revitalization. Since its inception during World War II, NETL has grown to investigate energy technologies related to geological and environmental sciences, energy conversion, computational science, and more. The laboratory's research activities enable the use of microwave technologies to reduce carbon footprints, transform transportation, and enable renewable power storage. NETL also uses simulation-based engineering to accelerate technology development and inform decision-making regarding challenges such as design, scale-up, and integration of energy systems. Through its research activities, science education programs, employment, and operational activities, NETL continues to bolster the regional economy while advancing energy science and engineering.

ECONOMIC IMPACTS OF NETL WEST VIRGINIA

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

The first table includes employment and salaries of individuals employed in West Virginia 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 West Virginia. The analysis revealed that NETL injected \$104 million (\$104M) directly into the state economy in 2022.

Summary of NETL expenditures and number of employees (WV)

Impact Category	
Federal Employment and Site Support Contractor (full-time equivalent jobs)	560
Total Expenditures	\$104M

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 \$169 million (\$169M) on West Virginia's economy in 2022 (see table below).

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

Impact Category	
Jobs (direct, indirect, and induced full-time equivalent jobs)	1,188
Total Economic Impact (direct, indirect, and induced)	\$169M

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.