

# STATE ECONOMIC IMPACTS OF NETL WEST VIRGINIA



# NETL

**NATIONAL ENERGY TECHNOLOGY LABORATORY**

Located in Morgantown, the U.S. Department of Energy National Energy Technology Laboratory (NETL) serves as an important economic catalyst for the state of West Virginia. Founded as part of a war-time effort during World War II to develop processes for producing synthesis gas from coal, NETL's West Virginia Laboratory has grown to a full-service energy innovation center. Today the Laboratory investigates energy technologies related to geological and environmental sciences, energy conversion, computational science and more—all with the common goal of advancing energy and environmental technologies into the marketplace. NETL's West Virginia Laboratory enables microwave technologies to reduce carbon footprints, transform transportation, and enable renewable power storage. The Lab 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.

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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 2021.

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 \$88 million (\$88M) directly into the state economy in 2021.

## Summary of NETL expenditures and number of on-site employees (WV)

Impact Category	
Federal Employment and Site Support Contractor (full-time equivalent jobs)	559
Total Expenditures	<b>\$88M</b>

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 \$143 million (\$143M) on West Virginia's economy in 2021 (see table below).

## NETL's Total Economic Impact on the State of West Virginia, 2021

Impact Category	
Jobs (direct, indirect, and induced full-time equivalent jobs)	1,005
Total Economic Impact (direct, indirect, and induced)	<b>\$143M</b>

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.