NETL OVERVIEW

WHO WE ARE

For over a century, NETL has been a world-class technology innovation center with global impact across the energy sector and beyond, including the defense and health care sectors. Today, NETL continues to address critical energy, infrastructure, and manufacturing challenges by accelerating cutting-edge technological solutions that are cost effective, enable low-carbon supply chains, and create cleaner and better paying American jobs for sustained economic growth.

NETL's mission is to drive innovation and deliver solutions for an environmentally sustainable and prosperous energy future by ensuring affordable, abundant, and reliable energy that drives a robust economy and national security. We accomplish this by developing technologies to manage carbon across the full life cycle, thus promoting environmental sustainability for all Americans.

NETL continues to be the nation's premier energy technology laboratory, delivering integrated solutions to enable America's transformation to a sustainable energy future. Our research advances clean and renewable energy technologies while enabling traditional fossil energy resources to economically power our nation's homes, industries, businesses, and transportation while protecting our environment and enhancing our energy independence.

NETL

NATIONAL ENERGY TECHNOLOGY LABORATORY

NETL is distinguished by its strategic focus on applied research programs that nurture emerging technologies through the maturation cycle from discovery to commercialization. NETL's research addresses national energy challenges such as: developing and deploying carbon management technologies and advanced energy conversion systems; fabricating and testing high performance materials, sensors and controls; increasing safety and efficiency of natural gas transmission and delivery systems; and unlocking methane hydrate resources. NETL also utilizes multi-scale computational methods, such as artificial intelligence and machine learning, to develop and deliver energy technologies at a faster pace, a lower cost, and reduced risk in support of DOE's mission.

NETL's technical core competencies include computational science and engineering; materials engineering and manufacturing; geological and environmental systems; energy conversion engineering; strategic systems analysis and engineering; and research planning and delivery. NETL also possesses extensive project management capabilities to shape, fund, and manage research throughout the United States. The laboratory's research portfolio includes more than 1,000 projects and activities, with a total award value that exceeds $5 billion and private sector cost-sharing of more than $1.3 billion.

NETL leverages its technical competencies, its unique authorities, and its partnership-convening expertise to conduct early-stage transformational and applied energy research. This groundbreaking research has enabled, and will continue to accelerate, the discovery, development, and deployment of affordable energy technologies to the public, ensuring America's clean-energy future.

NETL OVERVIEW

www.NETL.DOE.gov

SITE INFORMATION

237 Acres
110 Buildings

$686.5M
Replacement Value

1,137,097
GSF in Buildings
(GSF - gross square footage)

13,225
GSF in Leased Facilities

1,712 Full-time Equivalent Employees (FTEs)
108 Joint Faculty
121 Postdoctoral Researchers
115 Graduate Students
54 Undergraduate Students

Employee and Research Associate data as of January 2020


Albany, OR


Anchorage, AK


Houston, TX

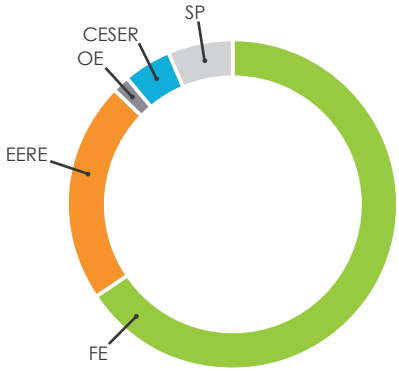

Morgantown, WV


Pittsburgh, PA

FY 2020 BUDGET

$1.1 billion

Fossil Energy (FE)	$750 million
Energy Efficiency and Renewable Energy (EERE)	$250 million
Electricity Delivery and Energy Reliability (OE)	$19 million
Cybersecurity, Energy Security, and Emergency Response (CESER)	$55 million
Strategic Partnerships (SP)	$70 million



REGIONAL ECONOMIC BENEFITS

NETL conducted an economic analysis using a state-level input-output model to quantify the laboratory's total economic impact on the three states in which its laboratory research sites reside; Oregon, Pennsylvania, and West Virginia. The analysis revealed that NETL injected a total of $848 million directly into those states' economies in 2020. These economic impacts include jobs at NETL research sites, filled by federal and contractor employees, as well as NETL's spending on grants, R&D awards, cooperative agreements, contracts, and purchase orders within the laboratory's host states.

NETL's impact on the three state economies 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 captured 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. It was determined that NETL had a total estimated impact of more than $2.2 billion on the three state economies in 2020.

Contacts

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