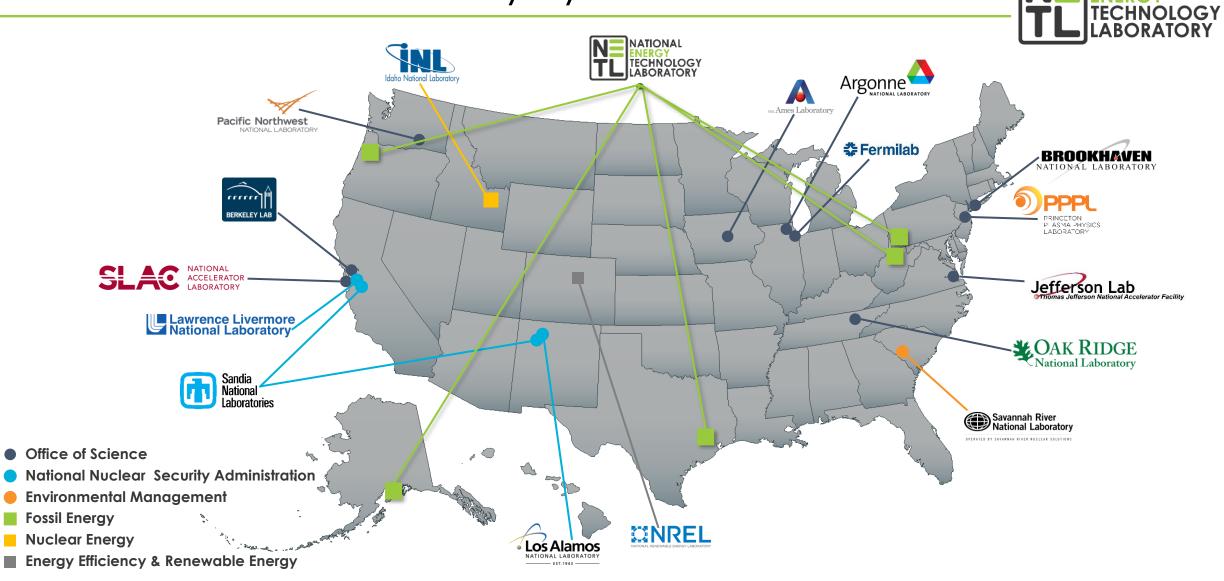
# **NETL Overview**

## **Driving Innovation and Delivering Solutions**



# The National Laboratory System





NATIONAL ENERGY

# National Energy Technology Laboratory (NETL)



One of 17 U.S. Department of Energy (DOE) national laboratories; producing technological solutions to America's energy challenges.

# MISSION

#### Driving innovation and delivering solutions for an environmentally sustainable and prosperous energy future:

- 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, and
- Enabling environmental sustainability for all Americans.

# VISION

To be the nation's premier energy technology laboratory, delivering integrated solutions to enable transformation to a sustainable energy future.

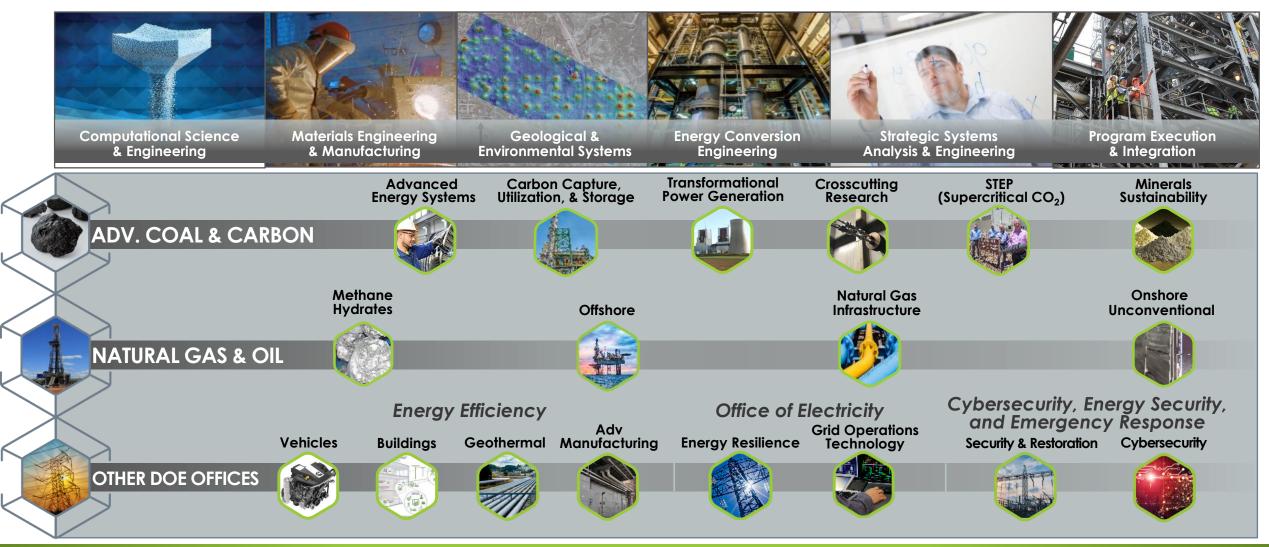


- NETL has three laboratories
- Two field office locations
- Only National Lab dedicated to carbon research
- Government owned & operated
- One of three applied national labs
- Leader in cutting-edge research in conversion to higher value products
- Flexible Intellectual Property



# Core Competencies & Technology Thrusts

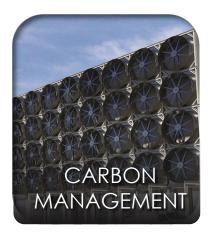






# **NETL Initiatives**

### **STRATEGIC INITIATIVES**



### **KEY LAB INITIATIVES**

U.S. DEPARTMENT OF



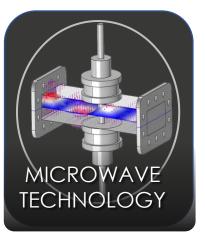


INTEGR'ATED

ENERGY SYSTEMS

TO ENABLE DEEP

DECARBONIZATION





ARTIFICIAL

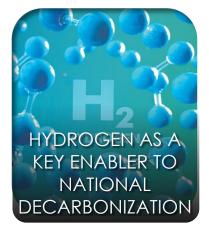
MACHINE LEARNING

FOR ADDRESSING

ENERGY

CHALLENGES







#### Workforce By the Numbers Federal 484 **Full Time Equivalent** 3 labs across U.S. 1.344 Employees (FTEs) Contractor **1000+** R&D projects in **50** states Joint Faculty 860 **\$5.2B** total award value **Postdoctoral Researchers Graduate Students \$1.1B** FY21 budget **Undergraduate Students**

### **NETL** manages & implements an array of activities for multifaceted R&D programs

- Program planning, development, and execution
- Legal, financial, procurement and Head of Contracting Authority (HCA)
- Project management expertise



# NETL Budget

# **FY2021 Budget** \$1.1B

### Advanced Coal & Carbon Management Program

Carbon Capture	\$1	26M
Carbon Utilization	\$	23M
Carbon Storage	\$	79M
Adv. Energy Systems	\$1	22M
<b>Crosscutting Research</b>	\$	72M
STEP	\$	15M
Transform. Coal Pilots	\$	10M

#### Natural Gas & Oil Program

Natural Gas Tech.	\$ 57M
Unconvent. FE Tech.	\$ <b>4</b> 6M

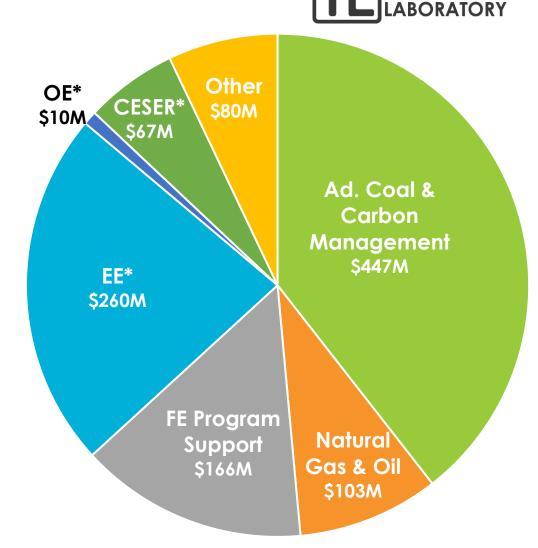
### FE Program Support

Program Direction NETL Research & Ops. NETL Infrastructure	\$	28M 83M 55M
Non-Fossil Program	s*	
EE	\$2	260M
OE	\$	10M
CESER	\$	67M

### Strategic Partnerships

Other

\$ 80M



\*estimated and subject to change

NATIONAL ENERGY

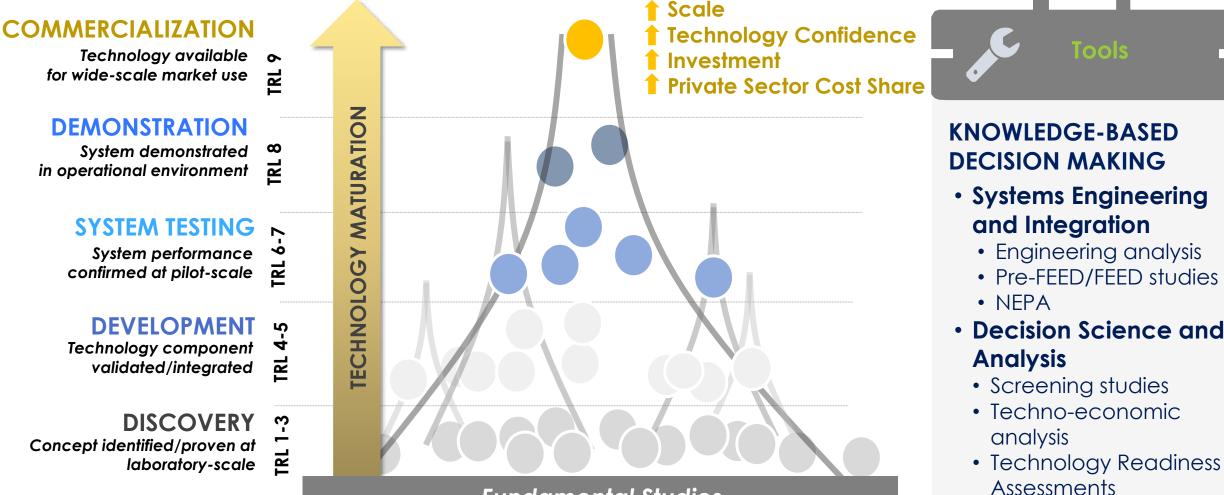
**TECHNOLOGY** 



# Technology Development Pathway

NATIONAL ENERGY TECHNOLOGY LABORATORY





**Fundamental Studies** 



# Thank You!

VISIT US AT: www.NETL.DOE.gov





@NationalEnergyTechnologyLaboratory

### CONTACT:

### Brian J. Anderson, PhD

Director National Energy Technology Laboratory U.S. Department of Energy <u>brian.anderson@netl.doe.gov</u>

