

# TESTING CAPABILITIES EXPANDED AT NATIONAL CARBON CAPTURE CENTER AND TECHNOLOGY CENTRE MONGSTAD IN NORWAY

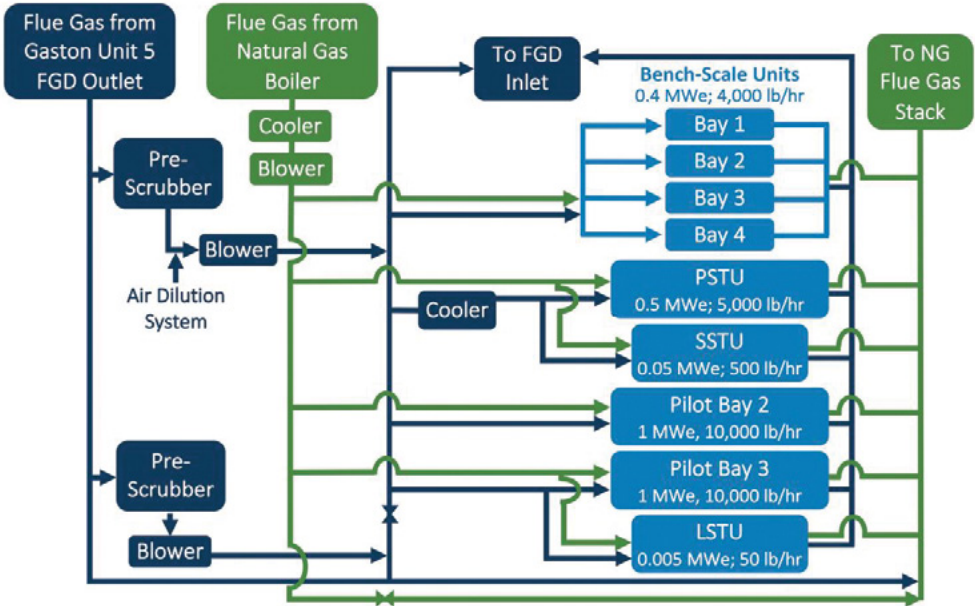
Construction progressed on key testing capabilities for transformational carbon capture technologies.

The Carbon Capture Program, which develops and optimizes carbon dioxide capture technology for industrial, coal, and natural gas sources and negative emissions technologies, supported expansion of technology testing capabilities.

## NATIONAL CARBON CAPTURE CENTER

### Natural Gas Flue Gas Carbon Capture

The National Carbon Capture Center (NCCC) completed construction of the natural gas infrastructure on a natural gas boiler capable of providing natural gas-derived flue gas to technology developers testing at the NCCC. The new facility will enable testing of transformational technologies for natural gas sources. This system also enables testing at the facility when the host power station, Plant Gaston, is offline. NCCC supports technology testing at laboratory, bench, and pilot scale.



### Direct Air Capture

The NCCC actively pursued research agreements with national labs, universities, and other research institutions to provide a host site for direct air capture (DAC) technologies. This work will support program efforts to evaluate low-cost transformational DAC technologies.

## TECHNOLOGY CENTRE MONGSTAD

### Modular Transformational Carbon Capture Technologies

Program partner Technology Centre Mongstad (TCM), the world's largest pilot plant for verification of carbon capture and sequestration technologies, constructed components of a nearly-completed new facility to test modular, transformational carbon capture technologies. Testing enabled for 2021 includes NETL program-sponsored technologies developed by Membrane Technology & Research, Inc. (membrane), TDA Research, Inc. (hybrid membrane-sorbent), and Innosepra, LLC (sorbent). RTI International (solvent) will test at TCM's amine plant.



### PARTNERS

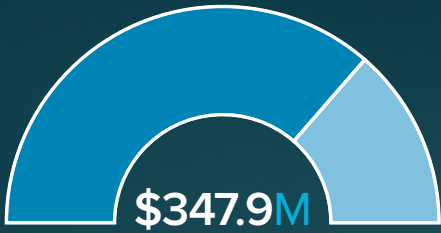


ELECTRIC POWER RESEARCH INSTITUTE



AWARD NUMBER  
DE-FE0022596

PROJECT BUDGET  
NCCC FUNDING



● DOE ..... \$253,385,107  
● PERFORMER..... \$94,596,277

### CONTACTS

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### CORE COMPETENCIES



MATERIALS ENGINEERING  
and MANUFACTURING



PROGRAM EXECUTION  
and INTEGRATION