

NATIONAL CARBON CAPTURE CENTER



ADVANCING FOSSIL ENERGY TECHNOLOGY SOLUTIONS

ABOUT

- ▶ World-class neutral research facility
- ▶ Focused on cost-effective carbon capture innovations
- ▶ Created in 2009 by the U.S. Department of Energy in Wilsonville, Alabama
- ▶ Managed and operated by Southern Company

RESEARCH

- ▶ Infrastructure expansion to broaden carbon capture technology testing for natural gas-fueled power plants
- ▶ Post-combustion carbon capture testing using flue gas from an 880-megawatt pulverized coal unit at Alabama Power's Plant Gaston
- ▶ Simultaneous evaluation of multiple technologies at various maturity levels

ACCOMPLISHMENTS

- ▶ Completed more than 100,000 hours of testing for third-party developers
- ▶ Pilot tested more than 60 technologies
- ▶ Worked with over 30 government, university and research organizations from seven countries
- ▶ Participated in reducing the projected cost of carbon capture by one-third

WORKFORCE

- ▶ Approximately 150 highly specialized engineers, O&M employees, support staff and construction personnel
- ▶ \$5 million annually in labor including overtime – over \$11 million annually in contract labor

INTERNATIONAL LEADERSHIP

- ▶ Co-founder of the International Test Center Network, a global coalition focused on carbon capture, utilization and storage technology development
- ▶ Ongoing collaboration with Australia, Canada, China, India, Japan, Korea, Mexico, Norway, the European Union, United Arab Emirates and United States

