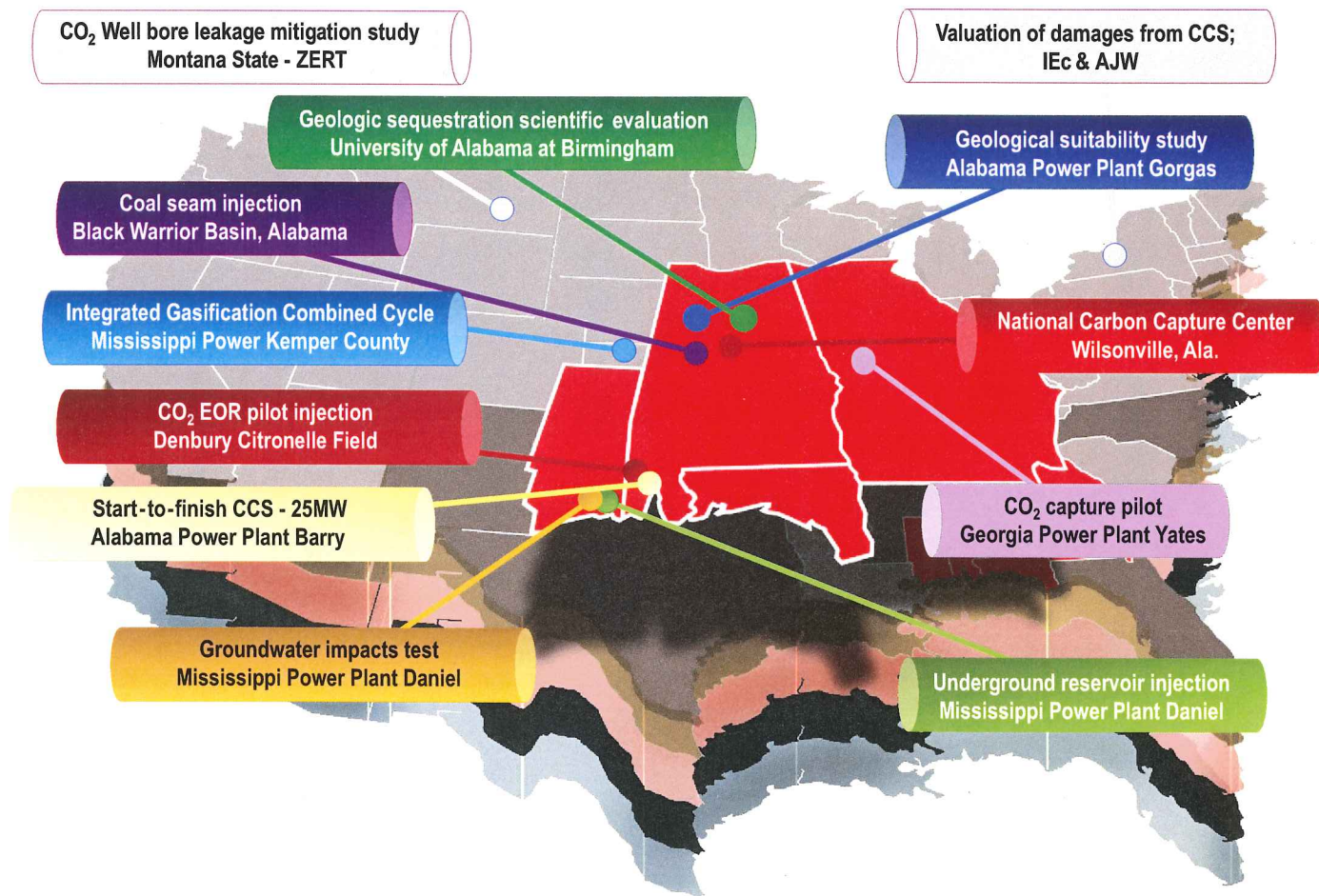


SOUTHERN COMPANY CARBON CAPTURE AND STORAGE PORTFOLIO





25 Megawatt Carbon Capture and Storage Demonstration

Start-to-finish carbon capture and storage

This landmark carbon capture and storage facility being built at Plant Barry in Alabama – owned by Southern Company subsidiary Alabama Power – will be the world’s largest demonstration of carbon capture on a pulverized-coal power plant. When completed in June, approximately 150,000 tons of carbon dioxide (CO₂) – the equivalent of emissions from 25 megawatts – will be captured annually for permanent underground storage in a deep saline geologic formation.



Location

Bucks, Alabama

Ownership

Southern Company

Technology

Mitsubishi Heavy Industries

KM-CDR™

Size

25 megawatts

CO₂ capture

150,000 tons annually

With 4.4 million customers and more than 42,000 megawatts of generating capacity, Atlanta-based Southern Company (NYSE: SO) is the premier energy company serving the Southeast. A leading U.S. producer of electricity, Southern Company owns electric utilities in four states and a growing competitive generation company, as well as fiber optics and wireless communications. Southern Company brands are known for excellent customer service, high reliability and retail electric prices that are below the national average. Southern Company was named the World’s Most Admired Electric and Gas Utility by Fortune magazine in 2011, and is consistently listed among the top U.S. electric service providers in customer satisfaction by the American Customer Satisfaction Index.

Industry Milestone

Technologies, like carbon capture and storage, that reduce greenhouse gases while ensuring electricity remains reliable and affordable are critical to the electric utility industry. Because coal is a low-cost and abundant natural resource it is important for Southern Company and the industry to preserve coal as a fuel source.

Carbon Capture Technology

Carbon will be captured using Mitsubishi Heavy Industries Ltd. technology KM-CDR,™ which uses an advanced amine solvent. The process begins with coal combustion which generates electricity, leaving a flue gas. CO₂ from the flue gas reacts with the amine solvent before being captured from the flue gas. CO₂ is then compressed, making it ready for pipeline transport.

Storage Technology

Captured CO₂ will be supplied from the plant to the Southeast Regional Carbon Sequestration Partnership (SECARB). SECARB will transport the CO₂ by pipeline and inject it 9,500 feet underground at a site within the Citronelle Oil Field, operated by Denbury Resources about 11 miles from the plant. The CO₂ will remain below the surface, permanently trapped in the geological formation into which it was injected.



Southern Natural Gas
an El Paso company