

Southern Company is proud to support the communities we serve and is taking steps across our organization to preserve and protect our environment. Our commitment to reduce our impact on the environment is demonstrated by our environmental stewardship activities, our efforts to protect valuable natural resources, our partnerships with organizations to protect wildlife and their natural habitats while serving our customers and our compliance with applicable environmental regulations.



Stewardship

Southern Company fosters collaborative partnerships to conserve habitat, protect wildlife, educate children, provide recreation, remove trash, develop communities and accomplish other services.

- Since 2003, Southern Company has provided the National Fish and Wildlife Foundation with approximately \$18.2 million to support projects through 2018 – funding imperiled longleaf pine restoration, bird conservation and community-based wetland restoration.
- Combined with partner and grantee-matching contributions, investments have resulted in an on-the-ground conservation impact of nearly \$114 million, which has translated to more than 1.5 million acres of critical habitat restored and enhanced – including over 136,000 acres of longleaf pine planted.
- To date, more than 100,000 Renew Our Rivers volunteers have removed approximately 14.2 million pounds of trash and debris from waterways.



Water

Southern Company is committed to responsible use and protection of all natural resources, including water, by meeting or surpassing all environmental laws and regulations. We consider the impact of the Southern Company system's current and future operations on water quality and availability and we engage communities and relevant stakeholders to address specific water challenges at local levels.

- In 2012, Georgia Power's Water Research Center opened at Plant Bowen. The center provides a site for developing and testing technologies to address power plant water withdrawals and consumption.
- In 2016, the system reduced surface water withdrawal by 21 percent compared to 2015.
- Over the past six years, approximately 93 percent of the water withdrawn has been immediately returned to the source, where it is available for downstream use.



Air

- Since 2005, the system has reduced mercury emissions by over 90 percent.
- Since 1990, the system has reduced sulfur dioxide emissions by over 95 percent and nitrogen oxide emissions by over 85 percent.



Coal Ash Management

- Across the system, ash pond closings are being conducted in accordance with federal and state requirements. Closure plans are determined by local factors, including geology, and other features. Water from the dewatering process goes through treatment systems and there is a regimen of sampling throughout the process.

Greenhouse Gases (GHGs)

Climate change is a challenging issue for our world and our nation. Southern Company is committed to a leadership role in finding solutions that make technological, environmental and economic sense. The focus of this effort must be on developing and deploying technologies that reduce GHGs while making sure that energy remains reliable and affordable.

Without federal mandates, the Southern Company system's total annual GHG emissions in 2016 were approximately 27 percent lower than 2005 levels.

21st Century Coal



- Manage the U.S. Department of Energy's (DOE) National Carbon Capture Center.
- Partner with DOE and other worldwide partners in a 25-megawatt (MW) demonstration of carbon capture on a pulverized-coal power plant.
- Developed a state-of-the-art coal gasification technology, known as Transport Integrated Gasification (TRIG™) with KBR Inc. and DOE.

Nuclear



- Constructing two of the nation's first new units in more than three decades through Georgia Power.
- Awarded up to \$40 million from DOE to explore, develop and demonstrate advanced nuclear reactor technologies.

Natural Gas



- The system generated 46 percent of its electricity from natural gas in 2016.
- Acquired AGL Resources – now Southern Company Gas – whose primary business is the distribution of natural gas through its natural gas distribution utilities.
- Invested in a leading natural gas transmission system – Southern Natural Gas.

Renewable Energy



- The system has placed in service or has planned for over 7,000 MW of renewables since 2012.
- Southern Power owns 1,440 MW of wind generating capacity and more than 1,700 MW of solar generating capacity.
- Alabama Power, Georgia Power and Gulf Power have purchased, or plan to buy, more than 900 MW of wind generation.
- Georgia Power is pursuing what is currently the largest voluntary solar generation portfolio of any utility in the U.S. with over 850 MW.

Energy Efficiency



- Since 2000, programs have helped reduce peak demand for electricity by more than 4,800 MW and avoid more than 2 billion kWh of energy use.
- Since 2011, programs have helped reduce demand and customers' emissions from natural gas by more than 90 million therms and approximately 454,000 metric tons of CO₂.

New Products and Services



- Acquired PowerSecure, a leading provider of utility and energy technologies to electric utilities and industrial, institutional and commercial customers.
- PowerSecure's distributed infrastructure solutions utilize a range of technologies to deliver power, including renewables like wind and solar. It's energy efficiency products and services include LED lighting technologies and the installation and maintenance of energy conservation measures.

