

2021 EEI ESG/Sustainability Reporting Template



Introduction

As Southern Company works to achieve a net zero carbon future, we remain committed to our core principles of providing clean, safe, reliable and affordable energy to our customers and communities. Southern Company’s commitment to delivering energy and energy solutions includes conserving and protecting the environment for today and future generations. We endeavor to actively engage all our stakeholders – including customers and stockholders – in a productive, transparent conversation about how we are strategically planning for the future while delivering value and growth.

Southern Company is a holding company that conducts its business through its subsidiaries. Accordingly, unless the context otherwise requires, references in this document to Southern Company’s operations, such as generating activities, greenhouse gas (GHG) emissions, customers and employment practices, refer to those operations conducted through its subsidiaries.

Occasionally, due to timing of data reports, additional information becomes available after report issuance. In these cases, we strive to update both current and prior data points when appropriate. Southern Company seeks to provide the most recent and accurate data in each of its voluntary sustainability reports.

ESG Strategy

We are fixed on the idea of “yes, and....” Yes, we acknowledge the challenge of net zero, and we are committed to finding solutions. Our path toward net zero includes continued coal transition, utilization of natural gas to enable fleet transition, aggressively growing our investment in renewable energy, modernizing the grid, bringing online the first new nuclear generating units in a generation, solving energy challenges through robust research and development (R&D), incorporating negative carbon solutions and investing in energy efficiency for savings on both sides of the meter.

Our Net Zero Goal

In May 2020, we updated our long-term GHG emissions reduction goal for our electric and gas operations to net zero GHG emissions by 2050 with an interim goal of reducing emissions by 50% by 2030 (as compared to 2007). We currently expect to consistently achieve our interim 50% reduction goal as early as 2025. Read more about our plan for a clean energy future: [Southern Company Net Zero](#)

Making progress toward our decarbonization goals

Our Progress



2007
GHG Emission
Baseline



2017
35%
Reduction

2020
52%
Reduction

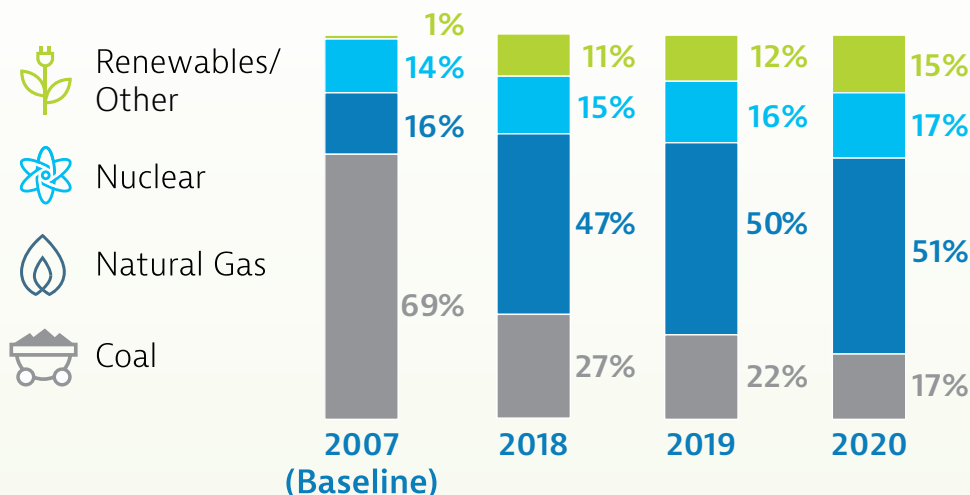
Our Goals



2030
50%
Reduction



2050
Net Zero
GHG Emissions



It should be noted when the Southern Company system’s retail electric utility subsidiaries purchase energy from or build renewable generation sources, if they have the right to the RECs associated with these resources, they retain the ability to use the RECs to serve their customers with renewable energy or sell the RECs, either bundled with energy or separately, to third parties for the benefit of customers.

* Annual energy mix represents all of the energy the Southern Company system uses to serve its retail and wholesale customers during the year. It is not meant to represent delivered energy mix to any particular retail customer or class of customers. Annual energy mix percentages include non-affiliate power purchase agreements. Renewables/other category includes wind, solar, hydro, biomass and landfill gas.

Investing in the Future

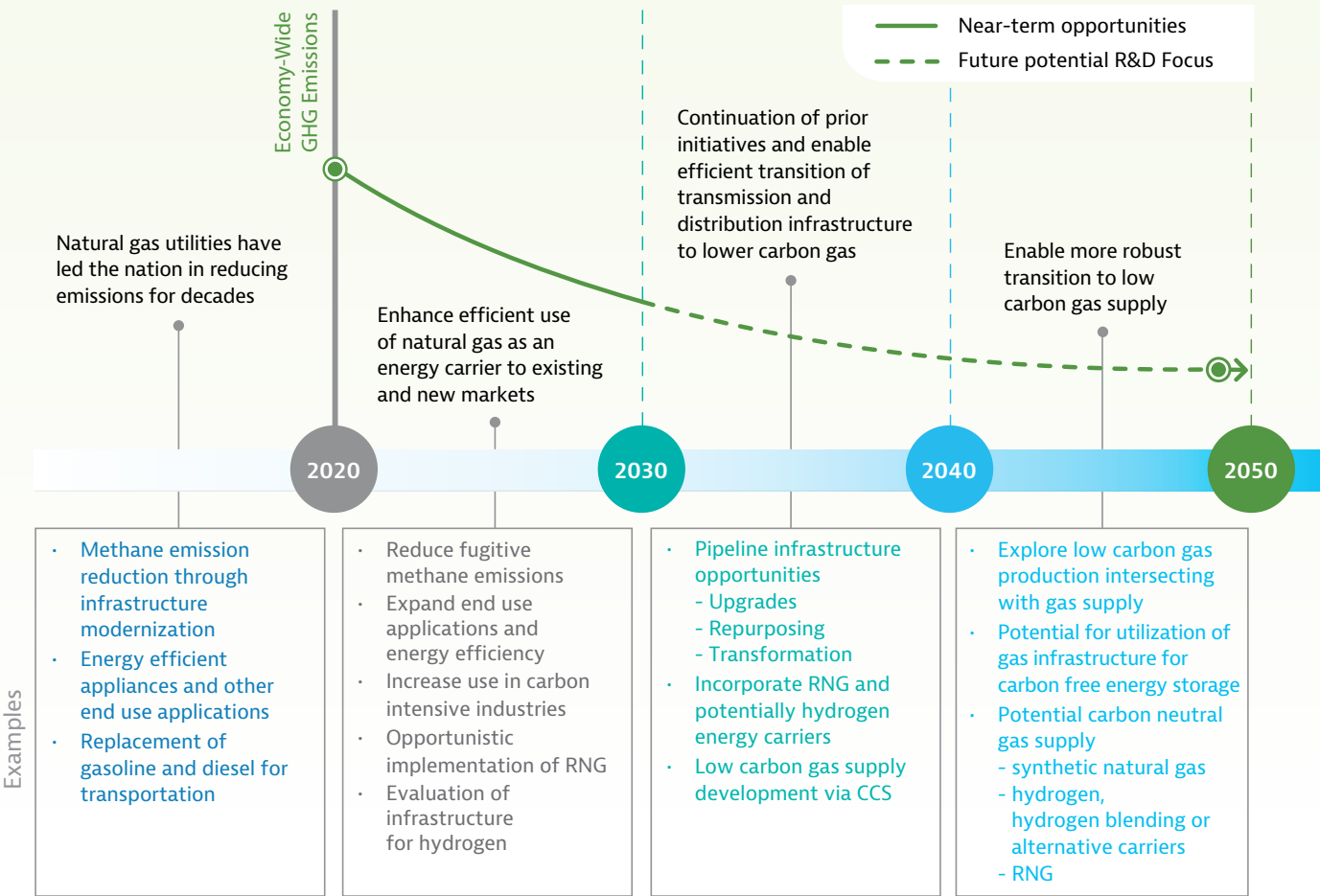
We are one of the only U.S. utilities pursuing an “all of the above” net zero energy strategy. Developing and maintaining a diversified energy portfolio is essential to successfully reducing emissions while also maintaining reliability and affordability for our customers.

In our state-regulated service territories, we work with Public Service Commissions to ensure that we can continue to provide clean, safe, reliable and affordable energy. By utilizing our scenario planning process and working through our regulators to make decisions in the best interest of our customers, we help to minimize risk in our investment decisions. Our 2018 report [Planning for a low-carbon future](#) provides additional details on the resource planning process.

The scenario planning process has been instrumental in our decisions to economically retire coal units, add zero-carbon capacity in the form of renewables and nuclear and add more efficient natural gas capacity to our portfolio. Since 2007, we have significantly transformed the Southern Company system’s electricity generation mix, with coal decreasing from 69% to 17% and renewables/other increasing from 1% to 15% of our annual energy mix.

We are committed to transparency in our natural gas operations and provide a robust discussion of the role of natural gas in our 2020 report [Implementation and action towards net zero](#).

This graphic illustrates potential ways natural gas distribution companies can help facilitate an economy-wide net zero carbon future. The extent of the timing and application of each of these examples is uncertain, but we believe it is critical to invest in R&D and recognize the benefits of natural gas and the potential opportunities for natural gas infrastructure to support GHG emission reduction goals across the value chain and economy-wide.



Future of Energy

Southern Company remains committed to finding technology solutions for a carbon-constrained future. As an industry leader in R&D for [over 50 years](#), Southern Company is well-positioned to facilitate the transition to a net zero future. The commitment to a net zero future will demand the development of transformational technology solutions and their integration throughout our business. Our focus is to deliver technologies that reduce GHG emissions while also increasing customer value and providing affordable energy. Read more about Southern Company’s commitment to [Innovation](#).

To help us develop and execute an effective strategy for growing Southern Company Gas’ renewable natural gas (RNG) capabilities, we developed in 2020 a new department dedicated to our RNG strategy. RNG is a sustainable and interchangeable substitute for geologic natural gas. It is an energy source that is considered carbon neutral at the point of use, that can be derived from existing waste streams, such as those at farms, landfills and water resources recovery facilities, or produced with renewable electricity. RNG sources from agriculture and waste management provide cross-sector environmental benefits. Visit [Southern Company Gas’ Sustainability Magazine](#) for more about how we think about supporting a net zero future.

Reducing Our Environmental Footprint

Southern Company is committed to emissions reductions through customer energy efficiency programs, alternative fuels and electrification for transportation and other customer sustainability programs. Our reports, [Planning for a low-carbon future](#) and [Implementation and action towards net zero](#), detail Southern Company's efforts in the development and execution of solutions to reduce GHG emissions.

Conserving natural resources is important to Southern Company, which is why we have managed land for natural water filtration, flood buffering, soil health, biodiversity and climate resilience benefits for many years. Paired with our other GHG-reducing efforts, natural sequestration can serve as a sink to reduce atmospheric carbon dioxide concentrations. Southern Company is evaluating deploying additional natural carbon sequestration solutions to meet a net zero carbon future including: afforestation, avoided deforestation and land management practices.

Our efforts to maintain safe, reliable service have also enabled us to minimize our environmental impact. Over more than 20 years, Southern Company Gas worked closely with state commissioners to strategically invest more than \$2 billion in infrastructure replacements

and improvements that reduced the annual methane emissions from its natural gas distribution companies over that time period by 50%. This accomplishment was achieved while experiencing over 20% growth in the distribution system. In addition to providing tremendous reliability and safety benefits, these infrastructure improvement efforts allow Southern Company Gas distribution to deliver natural gas at over 99% efficiency.

Southern Company Gas participates in efforts and organizations including:

One Future: As a founding member of Our Nation's Energy (ONE) Future, we support reducing fugitive methane emissions across the entire natural gas supply chain (from production through consumption) to 1% or less. Based on ONE Future's methodology, our natural gas distribution operations' fugitive methane intensity for 2020 is only 0.181%, well below ONE Future's 2025 goal of 0.44% for local distribution companies.

EPA's Gas STAR: For nearly three decades, Southern Company Gas has reported natural gas methane emissions through Environmental Protection Agency's (EPA) Gas STAR voluntary reporting program.



Employees and Communities

Valuing and developing employees is one of Southern Company's top priorities. Our human capital pillars include:

- ▶ **Diversity, Equity and Inclusion (DEI)** - Diversity makes us stronger and provides a competitive advantage
- ▶ **Rewards & Well-Being** - Total Rewards strategy provides physical, financial and emotional well-being
- ▶ **Talent Development** - Talent Development is key to leadership readiness, employee engagement and retention
- ▶ **Workforce Sustainability** - We focus on having the right people with the right skills who are trained to perform their jobs safely to meet current and future business requirements
- ▶ **Community** - A community-focused business model is important to our long-term success

Southern Company is focusing on our [Be the Change](#) program to outline our key efforts in DEI around Talent, Culture, Community, Political Engagement and Suppliers.

In 2020, Southern Company, along with our large Prime Ash Pond and Hydro Modernization suppliers, have created the Economic Impact & Advocacy Program (EIAP). The goal of EIAP is create substantial and sustainable economic impact in our communities by utilizing our major suppliers to build the capacity of local, small and diverse businesses in support of these projects through mentorship and project opportunities.

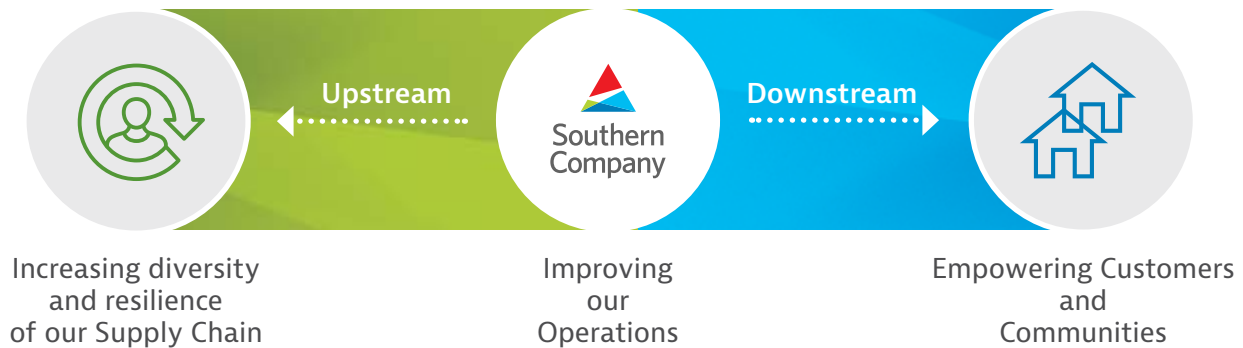
Southern Company and its subsidiaries have committed to a \$50 million, multi-year investment in its service territories' historically black colleges and universities (HBCUs). This investment will support career readiness of students by providing them with scholarships, internships, leadership development, access to technology, and innovation. As part of this commitment, Southern Company and Apple Inc. joined educators and community stakeholders in a partnership to launch the Propel Center, a new digital learning hub, business incubator, and global innovation headquarters in Atlanta, Georgia for students of HBCUs.

Learn more about how we [invest in our employees and communities](#).



Our Leadership across the Value Chain

In addition to our net zero GHG commitment, we are also focused on sustainability across the value-chain.



This is demonstrated through our work:

- ▶ Increasing our Minority Business Enterprise spend to 20% and total diverse spend to 30% by 2025 and developing and doing business with more Black-owned businesses in our industry and communities.
- ▶ Exploring opportunities to source next generation natural gas from natural gas suppliers committed to emission reductions.
- ▶ Investing in energy efficient and low-carbon technologies through various partnerships, electrification initiatives and industry-leading research and development.
- ▶ Expanding programs that empower our customers to take control of their emissions footprint.
- ▶ Offering energy and demand response programs.
- ▶ Committing \$200 million over five years to advance racial equity and social justice in our communities. Three key pillars include education, criminal justice reform, and economic empowerment.

Just Transition

Southern Company has, in the best interest of customers, retired or converted to natural gas 73% of its coal units since 2010, and we expect to continue reducing coal capacity as market forces enable replacement with more economic low-carbon and zero-carbon resources. It has always been an imperative for Southern Company to prioritize the well-being of our employees, customers and communities. During a time of transition and transformation, the importance of this philosophy is magnified. Our goals are to keep employees through retraining or reassignment, to minimize economic disruption in our communities through the attraction of new businesses and redevelopment of retirement sites and to maintain clean, safe, reliable and affordable energy service for our customers.

Putting Safety First

Southern Company makes people a priority by practicing [Our Values](#), of which, [Safety is first](#). Our goal is to complete "every day, every job, safely." Safety begins with setting rigorous operating standards, providing our neighbors with natural gas and nuclear safety guidelines and following the latest public health protocols. This helps ensure a safe and secure environment for our employees who continue to serve on the frontlines, those working remotely and for the customers they all serve. By equipping our team members with the safety training, tools and resources necessary to keep our communities safe, they can respond when called upon.

Natural Gas Safety

We continually monitor and perform regular inspections of our systems to help ensure safety, security, reliability and resiliency. We perform leakage surveys of our natural gas pipelines in accordance with and sometimes in exceedance of Federal Pipeline Safety Regulations. That means our gas transmission lines and business districts are surveyed annually and the remaining distribution pipelines are surveyed on either a three- or five-year schedule. Leakage surveys are conducted using a combination of aerial, vehicular, and foot surveys with electronic leak detection equipment. Additionally, we educate our customers and non-customers alike on the smell of natural gas so they can report instances of suspected leaks as another way of "surveilling" our systems for leakage.

Concerning leak repair protocols, leaks are monitored and repaired in accordance with federal and state regulatory requirements. Repairs on hazardous leaks are started immediately upon discovery. Non-hazardous leaks that have the potential to become hazardous are typically repaired in less than 6 months but no later than 12-15 months after discovery.

Southern Company Gas also participates in the American Gas Association (AGA) Peer Review program, a voluntary safety and operation practices program that allows participants to be reviewed by their peers, share leading practices and receive valuable feedback to help enhance safety and efficiencies.

Southern Company Gas leverages best-in-class technology to help ensure the safety of its system. For example, Southern Company Gas has partnered with Urbint to use Artificial Intelligence and machine learning to create a digital version of physical infrastructure that accounts for environmental risk factors that can contribute to damage. This information is then used to identify excavation locations and deploy intervention resources to prevent potential damages.



Governance

Southern Company's Chairman/CEO has direct responsibility for climate-related issues including setting strategy and oversight of GHG emission reductions. Key elements of this responsibility include, for example, leading strategic resource planning and associated capital allocation, setting annual budgets, evaluating unregulated low-carbon and zero-carbon investments, leading climate-related risk assessments, investing in R&D and innovation and assessing climate-related controls and compliance. Details of the CEO's engagement with senior officers and Southern Company's Board of Directors are further outlined in the company's [2021 CDP Climate questionnaire response](#).

Compensation

In response to stockholder feedback, the Compensation and Management Succession Committee, working collaboratively with the Operations, Environmental and Safety Committee, implemented a CEO compensation metric beginning in 2019 that is aligned with our GHG emission reduction goals. The metric supports Southern Company's comprehensive decarbonization strategy, rewards the successful execution of key actions that transition the portfolio and recognizes the role and responsibility of the CEO in successful execution across the enterprise. The Committees shared a desire to implement a measurable, quantitative component that is aligned with our 2030 goal of 50% reduction in GHG emissions, as well as a qualitative component that incentivizes behaviors to get us to our 2050 goal. For details on the compensation program, see [Implementation and action towards net zero](#). In addition, employees are incentivized to meet operational goals related to generation availability, transmission and distribution reliability, pipeline replacement projects, and natural gas leak response performance through the annual Performance Pay Program which all facilitate reduction in greenhouse gas emissions through efficient operation of units and direct reduction of emissions.

Director Tenure

8.1
years

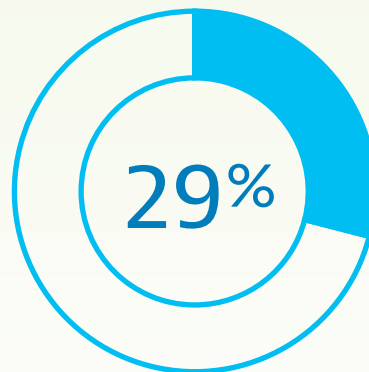
0-4 years 

5-9 years 

10-14 years 

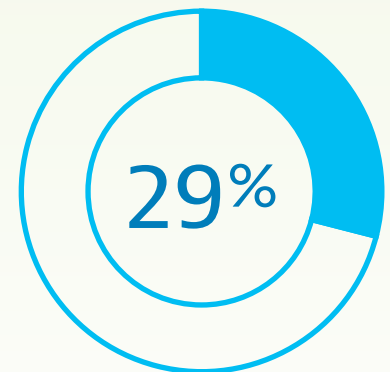
15+ years 

Director Gender Diversity



Women

Director Ethnic/Racial Diversity



Minorities

Board of Directors

Southern Company’s independent Directors provide substantive oversight to our management team on strategy and risk issues across the environmental, social and governance spectrum, including GHG emissions reduction efforts. Each committee of the Board has responsibility for key elements of risk oversight including future capital investments, stranded and physical asset risk, climate issues, human capital impacts, cybersecurity and policy advocacy.

Importantly, these matters are discussed regularly by our full Board of Directors and at Management Council meetings. In addition, our independent Directors are actively engaged in direct dialogue with key investors and other stakeholders on a variety of topics, including carbon strategy, policy engagement, human capital and executive compensation.

Committees of the Southern Company Board of Directors

Audit Committee	<ul style="list-style-type: none"> » Oversees Southern Company’s financial reporting, audit process, internal controls and legal, regulatory and ethical compliance, which encompasses climate-related controls and compliance issues. » Reviews and guides risk management policies that include climate-related risks.
Business Security and Resiliency	<ul style="list-style-type: none"> » Reviews and evaluates cyber and physical risks posed to the Southern Company system’s facilities and operations, including risks posed by severe weather events and the Southern Company system’s ability to withstand, mitigate and recover from the effects of any such events.
Compensation and Management Succession	<ul style="list-style-type: none"> » Reviews and approves compensation plans and programs, including performance-based compensation awards that incorporate carbon reduction and other environmental-related metrics.
Finance Committee	<ul style="list-style-type: none"> » Reviews the financial strategy of and the strategic deployment of capital by Southern Company, which includes the company’s carbon emissions reduction strategy and the associated use of capital to accomplish the 2030 and 2050 GHG emission reduction goals. » Reviews and guides annual budgets and business plans and oversees major capital expenditures with respect to climate-related issues.
Operations, Environmental and Safety	<ul style="list-style-type: none"> » Oversees strategy on climate-related and environmental and safety policy and planning issues, including business strategies designed to reduce carbon emissions, as well as programs and policies to protect the environment for employees, customers, contractors, and the public. » Receives regular reports on a range of climate-related topics at each Committee meeting.
Nominating, Governance, and Corporate Responsibility	<ul style="list-style-type: none"> » Oversees and reports to the full Board on the composition and competencies of the Board, including appropriate climate-related expertise, and its corporate governance policies.

Cybersecurity

Southern Company is fully committed to ensuring the security, reliability and resiliency of its critical infrastructure against both physical and cyber attacks. For cybersecurity in particular, Southern Company not only complies with government regulations and industry standards for cybersecurity, including the Critical Infrastructure Protection cybersecurity reliability standards, but regularly goes above and beyond those mandatory requirements. As evidence of Southern Company's industry-leading commitment to cybersecurity, the U.S. Department of Homeland Security (DHS) has granted Certification for Southern Company's cybersecurity risk management program under the Support Anti-terrorism by Fostering Effective Technologies Act of 2002 (SAFETY Act). Certification is the highest level of protection recognized under the SAFETY Act and is awarded after significant scrutiny of the covered technology along with evidence of proven effectiveness. This was the first such Certification granted by DHS for any company's internal cybersecurity risk management program.

Such commitment begins with strong cybersecurity governance. Southern Company's Board of Directors has established its Business Security and Resiliency (BSR) Committee that meets at every regular Board meeting and is charged with oversight of risks related to cybersecurity and operational resiliency. The BSR Committee includes Directors with an understanding of cyber issues and with high-level security clearances. Senior management also has high-level security clearances to ensure access to critical information, and the company participates in pilot programs with industry and government to share additional information and strengthen cybersecurity and business resiliency. Southern Company's CEO chairs the Electricity Subsector Coordinating Council (ESCC), which coordinates industry and federal government preparation for and response to potential national disasters and cyber attacks. In addition, Southern Company Gas has representation on the Oil & Natural Gas Subsector Coordinating Council (ONGSCC).

Southern Company protects its networks through a risk-based, "all threats" and "defense in depth" approach to identify, protect, detect, respond, and recover from cyber threats. Although many Southern Company networks are segmented, overall network security is a centralized "shared service" across the Southern Company system, led by the Technology Security Organization and the Chief Information Security Officer. Recognizing that no single technology, process or control can effectively prevent or mitigate all risks, Southern Company employs multiple technologies, processes, and controls, all working independently but as part of a cohesive strategy to minimize risk. This strategy is regularly tested through auditing, penetration testing, and other exercises designed to assess effectiveness.

Southern Company emphasizes both security and resiliency through business assurance and incident response plans designed to identify, evaluate, and remediate incidents when they occur. Southern Company utilizes a 24/7 Security Operations Center, which facilitates real-time situational awareness across the cyber-threat environment, and a robust Insider Threat Protection Program and Fusion Center that leverages cross-function information sharing to assess insider threat activity. Southern Company regularly reviews and updates its plans, policies, and technologies, and conducts regular training exercises and crisis management preparedness activities to test their effectiveness. These activities supplement the company's normal security awareness training programs for its employees.

Southern Company's cybersecurity program is increasingly leveraging intelligence sharing capabilities about emerging threats – within the energy industry, across other industries, with specialized vendors, and through public-private partnerships with government intelligence agencies. By engaging with both the Electricity Information Sharing and Analysis Center (E-ISAC) and the Downstream Natural Gas Information Sharing and Analysis Center (DNG-ISAC), Southern Company benefits from quality analysis and rapid sharing of security information across the energy sector. Such intelligence allows Southern Company to better detect and prevent emerging cyber threats before they materialize. Just as it tests its policies and plans internally, Southern Company also engages in external exercises such as GridEx to evaluate and address the preparedness of the industry as a whole.

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Topic Areas	Links
Climate Goals and Related Analysis	Implementation and action toward net zero Planning for a low-carbon future report
Diversity, Equity, and Inclusion (DEI)	Be The Change Moving to Racial Equity Suppliers and Supplier Diversity
Human Capital Management	2021 Proxy Statement
Research and Development (R&D)	Building the Future of Energy
(Other) Company Info	Environmental, Social and Governance Southern Company Accolades Company Overview Southern Company Research and Development
News Highlights	<p>Investing in the Future</p> <ul style="list-style-type: none"> · Southern Company completes successful spinout of carbon offset startup Cloverly · Southern Company Gas, Electro-Active Technologies and T2M Global announce collaborative project to accelerate progress in clean hydrogen · Southern Company makes founding investment in Elevate Future Fund to drive diversity, equity, and inclusion in the energy industry · Southern Company scores 100 percent on Disability Equality Index for the fifth consecutive year · Southern Company earns top 20 national ranking of Companies for Diversity by DiversityInc, rising six spots from last year and marking six consecutive years of recognition · Southern Company expects to achieve interim greenhouse gas emissions (GHG) reduction goal significantly ahead of schedule · Southern Company joins other utilities in plans for electric vehicle charging network · Southern Company takes foundational leadership role in hydrogen R&D effort to achieve net-zero goals · Southern Company gets high marks for environmental transparency

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Topic Areas	Links
<p>News Highlights</p>	<p>Investing in the Future</p> <ul style="list-style-type: none"> · Southern Company earns perfect score in Human Rights Campaign Foundation's 2021 Corporate Equality Index · Southern Company joins Apple in announcing launch of new digital learning hub, global headquarters for innovation for HBCUs · Southern Company Becomes the First Large Cap Utility in the U.S. to Publish a Sustainable Financing Framework · Southeast electric providers to create advanced bilateral market platform · Southern Company Recognized As Nation's Most Transparent Utility · Southern Company announces internal fleet electrification goal · Southern Company recognized as 2020 SEPA Utility Business Models Power Player of the Year · Southern Company announces transition to net-zero carbon emissions goal · National Carbon Capture Center expands testing of carbon capture for negative carbon technologies · Southern Company Announces \$50 million Initiative for Students at Historically Black Colleges and Universities <p>Renewables</p> <ul style="list-style-type: none"> · Southern Power acquires Glass Sands Wind Facility · Southern Power acquires Deuel Harvest Wind Farm · Southern Power to add Battery Energy Storage Resources to two California Solar Projects · Southern Company Gas grows leadership team to focus on climate action, innovation and renewable natural gas strategy · Southern Company Gas assumes control of Meadow Branch renewable natural gas facility, launches new subsidiary to increase access to sustainable fuel · Nicor Gas receives approval for renewable natural gas pilot program · Georgia Power Solar Growth Remains Strong · Alabama Power receives approval for solar facility in Butler County

Quantitative Information - Portfolio

Parent Company:	Southern Company
Operating Company(s):	Alabama Power, Georgia Power, Mississippi Power, Southern Power, Southern Nuclear, Southern Company Gas, PowerSecure
Business Type(s):	Vertically Integrated
State(s) of Operation:	Retail Electric Provider: Alabama, Georgia, and Mississippi; Wholesale Electric Provider: Alabama, California, Georgia, Maine, Minnesota, Nevada, New Mexico, North Carolina, Oklahoma, and Texas; Natural Gas Distribution: California, Georgia, Illinois, Louisiana, Maryland, New Hampshire, New Jersey, Tennessee, Texas, and Virginia
State(s) with RPS Programs:	California, Illinois, Maine, Maryland, Minnesota, Nevada, New Hampshire, New Mexico, North Carolina, and Texas
Regulatory Environment:	Both regulated and deregulated
Report Date:	August 2021

Portfolio				
Ref No.		2007	2019	Current Year
		Baseline	Actual	2020 Actual
1	Owned Nameplate Generation Capacity at end of year (MW)^{1,2}	41,945	45,472	44,427
1.1	Coal	21,097	11,779	11,109
1.2	Natural Gas/Petroleum	14,410	22,527	22,042
1.3	Nuclear	3,680	3,680	3,680
1.5	Total Renewable Energy Resources			
1.5.1	Biomass/Biogas	-	10	10
1.5.2	Geothermal	-	27	-
1.5.3	Hydroelectric	2,758	2,758	2,758
1.5.4	Solar	-	2,620	2,701
1.5.5	Wind	-	2,054	2,110
1.6	Other ³		17	17
2	Net Generation for the data year (MWh)²			
2.1	Coal	143,404,887	41,703,352	31,585,343
2.2	Natural Gas/Petroleum	31,812,893	96,071,983	92,184,968
2.3	Nuclear	28,597,842	30,099,204	30,386,885
2.5	Total Renewable Energy Resources			
2.5.1	Biomass/Biogas	-	90,116	84,619
2.5.3	Hydroelectric	2,915,528	6,545,471	7,769,536
2.5.4	Solar	-	5,858,418	5,876,413
2.5.5	Wind	-	6,153,898	7,193,079
2.6	Other ³	-	45,083	140,260
	Purchased Net Generation for the data year (MWh)²			
2.1.ii	Coal	-	-	-
2.2.ii	Natural Gas/Petroleum	-	1,151,172	1,092,963
2.3.ii	Nuclear	-	-	-
2.5.ii	Total Renewable Energy Resources	-	-	-
2.5.1.ii	Biomass/Biogas	-	1,703,851	2,288,428
2.5.2.ii	Geothermal	-	-	-
2.5.3.ii	Hydroelectric	-	-	-
2.5.4.ii	Solar	-	1,215,307	2,558,206
2.5.5.ii	Wind	-	2,314,385	2,395,556
2.6.ii	Other ⁴	-	5,447,378	5,011,582
3	Capital Expenditures and Energy Efficiency (EE)			
3.1	Total Annual Capital Expenditures (nominal dollars)	\$3,653	\$7,948	\$7,802
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	-	\$418,347	\$255,322
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	-	\$48,625	\$32,692
4	Retail Electric Customer Count (at end of year)			
4.1	Commercial	599,655	549,000	553,000
4.2	Industrial	14,901	17,000	17,000
4.3	Residential	3,756,040	3,688,000	3,741,000

1 As reported in 2021 CDP Climate questionnaire.

2 This information represents wholesale generation owned or purchased by Southern and not generation to serve any particular retail loads. For generation from a renewable source, to the extent Southern receives the renewable energy credits (RECs) from those sources, they retain the right to use such energy and RECs to serve their customers with renewable energy or to sell the energy and RECs, bundled or separately, to third parties. The ultimate purchaser or users of the RECs have the exclusive right to claim that the

3 Other represents fuel cells.

4 For purchased net generation, other represents indeterminate pool purchases.

5 As reported in EIA Form 861

Quantitative Information - Emissions

Parent Company:	Southern Company
Operating Company(s):	Alabama Power, Georgia Power, Mississippi Power, Southern Power, Southern Nuclear, Southern Company Gas, PowerSecure
Business Type(s):	Vertically Integrated
State(s) of Operation:	Retail Electric Provider: Alabama, Georgia, and Mississippi; Wholesale Electric Provider: Alabama, California, Georgia, Maine, Minnesota, Nevada, New Mexico, North Carolina, Oklahoma, and Texas; Natural Gas Distribution: California, Georgia, Illinois, Louisiana, Maryland, New Hampshire, New Jersey, Tennessee, Texas, and Virginia
State(s) with RPS Programs:	California, Illinois, Maine, Maryland, Minnesota, Nevada, New Hampshire, New Mexico, North Carolina, and Texas
Regulatory Environment:	Both regulated and deregulated
Report Date:	August 2021

Emissions				
Ref No.		2007	2019	Current Year
		Baseline	Actual	2020 Actual
5	GHG Emissions: Carbon Dioxide (CO₂) and Carbon Dioxide Equivalent (CO₂e)¹			
5.1	Owned Generation			
5.1.1	Carbon Dioxide (CO ₂)			
5.1.1.1	Total Owned Generation CO ₂ Emissions (million MT)	151	82.7	70.0
5.1.1.2	Total Owned Generation CO ₂ Emissions Intensity (MT/Net MWh)	0.729	0.443	0.400
5.1.2	Carbon Dioxide Equivalent (CO ₂ e)			
5.1.2.1	Total Owned Generation CO ₂ e Emissions (million MT)	152	83.1	70.3
5.1.2.2	Total Owned Generation CO ₂ e Emissions Intensity (MT/Net MWh)	0.736	0.446	0.401
5.2	Purchased Power			
5.2.2	Carbon Dioxide Equivalent (CO ₂ e)			
5.2.2.1	Total Purchased Generation CO ₂ e Emissions (million MT)	-	3.3	2.7
5.2.2.2	Total Purchased Generation CO ₂ e Emissions Intensity (MT/Net MWh)	-	0.276	0.205
5.3	Owned Generation + Purchased Power			
5.3.2	Carbon Dioxide Equivalent (CO ₂ e)			
5.3.2.1	Total Owned + Purchased Generation CO ₂ e Emissions (million MT)	N/A	86.4	73.1
5.3.2.2	Total Owned + Purchased Generation CO ₂ e Emissions Intensity (MT/Net MWh)	-	0.435	0.388
5.4	Non-Generation CO₂e Emissions of Sulfur Hexafluoride (SF₆)			
5.4.1	CO ₂ e emissions of sulfur hexafluoride (million MT)	0.093	0.038	0.068
5.4.2	Leak rate of CO ₂ e emissions of SF ₆ (million MT/Net MWh)	-	0.0002	0.0004
6	Nitrogen Oxide (NO_x), Sulfur Dioxide (SO₂), Mercury (Hg)			
6.1	Generation basis for calculation (MWh) ²	206,731,150	186,567,525	175,221,103
6.2	Nitrogen Oxide (NO_x)			
6.2.1	Total NO _x Emissions (thousand MT)	192	32	24
6.2.2	Total NO _x Emissions Intensity (MT/Net MWh) ²	0.000927	0.000169	0.000136
6.3	Sulfur Dioxide (SO₂)			
6.3.1	Total SO ₂ Emissions (thousand MT)	920.0	15	9
6.3.2	Total SO ₂ Emissions Intensity (MT/Net MWh) ²	0.004450	0.000082	0.000049
6.4	Mercury (Hg)			
6.4.1	Total Hg Emissions (kg)	3,995	137	94
6.4.2	Total Hg Emissions Intensity (kg/Net MWh) ²	0.0000190	0.0000007	0.0000005

Occasionally, due to timing of data reports, additional information becomes available after report issuance. In these cases, we strive to update both current and prior data points when appropriate. Southern Company seeks to provide the most recent and accurate data in each of its voluntary sustainability reports.

1 See "Implementation and action toward net zero" <https://www.southerncompany.com/content/dam/southern-company/pdf/public/Net-zero-report.pdf>

2 Generation values used in intensity calculations may vary based on associated regulatory reporting program requirements.

Quantitative Information - Resources

Parent Company:	Southern Company
Operating Company(s):	Alabama Power, Georgia Power, Mississippi Power, Southern Power, Southern Nuclear, Southern Company Gas, PowerSecure
Business Type(s):	Vertically Integrated
State(s) of Operation:	Retail Electric Provider: Alabama, Georgia, and Mississippi; Wholesale Electric Provider: Alabama, California, Georgia, Maine, Minnesota, Nevada, New Mexico, North Carolina, Oklahoma, and Texas; Natural Gas Distribution: California, Georgia, Illinois, Louisiana, Maryland, New Hampshire, New Jersey, Tennessee, Texas, and Virginia
State(s) with RPS Programs:	California, Illinois, Maine, Maryland, Minnesota, Nevada, New Hampshire, New Mexico, North Carolina, and Texas
Regulatory Environment:	Both regulated and deregulated
Report Date:	August 2021

Resources				
Ref No.		2007	2019	Current Year
		Baseline	Actual	2020 Actual
7	Human Resources			
7.1	Total Number of Employees	26,742	27,943	27,700
7.2	Percentage of Women in Total Workforce	-	-	25 %
7.3	Percentage of Minorities in Total Workforce	-	-	28 %
7.4	Total Number on Board of Directors/Trustees	12	14	13
7.5	Percentage of Women on Board of Directors/Trustees	17 %	14 %	23 %
7.6	Percentage of Minorities on Board of Directors/Trustees	17 %	21 %	31 %
7.7	Employee Safety Metrics			
7.7.1	Recordable Incident Rate	-	1.37	1.11
7.7.2	Lost-time Case Rate	-	0.26	0.39
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	-	0.78	0.81
7.7.4	Work-related Fatalities	-	0.00	0.00
8	Fresh Water Resources			
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	-	75,974	71,606
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	-	869,360	679,900
8.1	Water Withdrawals - Consumptive (Millions of Gallons/Net MWh) ¹	-	0.0004	0.0004
8.2	Water Withdrawals - Non-consumptive (Millions of Gallons/Net MWh) ¹	-	0.005	0.004
9	Waste Products			
9.1	Amount of of Hazardous Waste Manifested for Disposal (MT)	-	258	196
9.2	Percent of Coal Combustion Products Beneficially Used	-	0.97	0.93

¹ Generation values used in intensity calculations may vary based on associated regulatory reporting program requirements.

Quantitative Information - Gas Company ESG/Sustainability

Parent Company: Southern Company
Operating: Southern Company Gas
Business Type(s): Vertically Integrated
State(s) of Operation: Natural Gas Utilities: Georgia, Tennessee, Illinois, Virginia;
 Wholesale: Texas, Illinois; Midstream: California, Texas, Louisiana;
 Retail: Illinois, Michigan, Ohio, Pennsylvania, Maryland, Tennessee, North Carolina, South Carolina, Alabama, Georgia, Florida
Regulatory: Both regulated and deregulated
Report Date: August 2021

Natural Gas Distribution				
Ref No.		2018	2019	Current Year
		Actual	Actual	Actual
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS			
1.1	Number of Gas Distribution Customers	-	4,198,515	4,249,692
1.2	Distribution Mains in Service	-	-	-
1.2.1	Plastic (miles)	35,361	35,958	36,471
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	37,389	37,143	36,986
1.2.3	Unprotected Steel - Bare & Coated (miles)	170	198	155
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	2.00	1	1
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)	-	-	-
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	-	4	3
1.3.2	Cast Iron / Wrought Iron (# years to complete)	2	1	1
2	DISTRIBUTION CO₂e FUGITIVE EMISSIONS			
2.1	CO ₂ e Fugitive Methane Emissions from Gas Distribution Operations (thousand metric tons)	339	340	336
2.2	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (thousand metric tons) ¹	14	14	13
2.2.1	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	706	708	700
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	832,000,000	825,000,000	777,000,000
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	790,000	784,000	738,000
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput) ¹	0.09%	0.09%	0.09%

¹ The methane emissions data provided represents only the sources that GHGRP requires. Southern Company Gas also calculates total emissions using additional methane fugitive sources and is providing that data below for consistency with other reports (i.e. CDP, ONE Future, etc.)

CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	25,537
Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.181 %

Cautionary Statement Regarding Forward-Looking Information

Certain information contained in this report is forward-looking information based on current expectations and plans that involve risks and uncertainties. Forward-looking information includes, among other things, GHG reduction goals, including expected timing of achievement, and costs related to carbon. Southern Company cautions that there are certain factors that can cause actual results to differ materially from the forward-looking information that has been provided. The reader is cautioned not to put undue reliance on this forward-looking information, which is not a guarantee of future performance and is subject to a number of uncertainties and other factors, many of which are outside the control of Southern Company; accordingly, there can be no assurance that such suggested results will be realized. The following factors, in addition to those discussed in Southern Company's Annual Report on Form 10-K for the year ended December 31, 2021, and subsequent securities filings, could cause actual results to differ materially from management expectations as suggested by such forward-looking information: the impact of recent and future federal and state regulatory changes as well as changes in application of existing laws and regulations; variations in demand for electricity and natural gas; available sources and costs of natural gas and other fuels; the ability to control costs and avoid cost and schedule overruns during the development, construction, and operation of facilities or other projects; the ability to construct facilities in accordance with the requirements of permits and licenses, to satisfy any environmental performance standards and the requirements of tax credits and other incentives and to integrate facilities into the Southern Company system upon completion of construction; advances in technology; performance of counterparties under ongoing renewable energy partnerships and development agreements; state and federal rate regulations and the impact of pending and future rate cases and negotiations; and the ability to successfully operate the electric utilities' generating, transmission and distribution facilities and Southern Company Gas' natural gas distribution and storage facilities and the successful performance of necessary corporate functions. Southern Company expressly disclaims any obligation to update any forward-looking information.