

2022

*Edison Electric Institute and American Gas Association*

# *ESG/Sustainability Reporting Template*

# Introduction

Across our family of companies, Southern Company remains focused on the delivery of clean, safe, reliable and affordable energy to our customers. Building a successful and sustainable business means delivering the same exceptional service our customers expect today, while transforming to meet expectations for tomorrow's new energy economy, including a net zero future. Our Values – Safety First, Unquestionable Trust, Superior Performance and Total Commitment – will guide us as we make decisions that impact our customers, communities, employees and the varied stakeholders who have an interest in Southern Company.

*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.*

## Corporate Responsibility Strategy

Southern Company, corporate responsibility and corporate strategy have long been inextricably linked. Our customers, communities and a wide array of stakeholders rely on us to provide clean, safe, reliable and affordable energy. Effectively aligning our corporate strategy with our commitments to our stakeholders requires the attention of our entire leadership team, as well as the Board of Directors. We have established six pillars of corporate sustainability representing our Environmental, Social, and Governance priorities: clean energy; reliability, resilience and affordability; innovation; workforce sustainability; diversity, equity and inclusion; and community relationships.

### Southern Company Corporate Responsibility Goals



**50%** GHG emissions reduction by 2030 relative to 2007 levels



**47%**  
reduction



Achieve **net zero** GHG emissions by 2050

Scope 1 GHG emissions



**82M**  
metric tons  
*(down from 157M in 2007)*



**50%** light-duty fleet vehicle electrification by 2030

Goal applies to traditional electric operating companies.



**21%**  
converted to electric



Invest **\$225 million** by 2025 to advance racial equity and social justice in our communities



**\$66M**  
invested



Increase our total diverse spend to **30%** by 2025



**26%**  
total diverse spend



## Climate-Related Risks

The Southern Company system has robust processes for identifying, assessing, and responding to climate-related risks. Among these risks are those related to a net zero transition, such as policy and legal, technology, market and reputational risks, as well as the physical impacts from climate change.

As the U.S. moves to reduce GHG emissions, new policies may emerge to further limit emissions from fossil fuels. One approach is an economy-wide carbon tax or fee, which has the potential to increase costs and/or regulatory constraints on the energy sector. Southern Company's electric utilities utilize a scenario planning process to inform resource planning decisions in the states where they operate. In 2021, scenarios included a wide range of fuel prices, load growth estimates, and carbon dioxide prices (ranging from \$0 to \$50 per metric ton of carbon dioxide emitted). The ultimate impact of emerging legislation will depend on various factors, such as state adoption and implementation of requirements; natural gas prices; the development, deployment, and advancement of relevant energy technologies; the ability to recover costs through existing ratemaking provisions; and the outcome of pending or future legal challenges or both. Additionally, there's a risk of litigation if the Company doesn't comply with climate-related regulation or legislation.

Many new technologies utilize less energy than in the past. Technology adoption by customers for energy efficiency may reduce demand for our primary products: electricity and natural gas.

Other changing customer preferences and market conditions could further impact energy across the system. Much of our electric generation, transmission and distribution is located within the Southeastern U.S., a region with warm, humid summers and mild winters. Over the years, customer home heating use in the

Southeast has shifted more toward electricity, resulting in peak electricity demand in the winter, in some years exceeding summer peak demand. This increase can be exacerbated by extreme cold weather events.

Southern Company recognizes the potential for reputational risk if a third party incorrectly infers inaction or inadequate action on climate issues by the company. Corporate image, ethics and compliance incidents, safety, and workforce talent and culture are incorporated into our climate-related risk assessments and business risk evaluated in the annual risk profile process. In our state-regulated utility service territories, we have increased transparency in our regulatory filings over the past five years. Additionally, we work within the regulatory processes in our states to ensure decisions are in the best interest of customers, and we are subject to Public Service Commission oversight of certain major decisions.

Physical risks may impact the infrastructure for generation, transmission and distribution of electricity and natural gas. Climate-related physical risks may be acute (e.g., resulting from severe weather events) or chronic (e.g., resulting from extended weather patterns). The Southeast experiences a wide range of weather and climate events, such as extreme precipitation, drought, heat waves, cold outbreaks, winter storms, severe thunderstorms, tornadoes and landfalling hurricanes. Preparation for acute physical events includes redundant and flexible operations functions and facilities, as well as preparedness drills. Preparation for chronic risks includes hardening and resiliency efforts, such as physical strengthening of structures, enclosing equipment, undergrounding of lines and additional tie lines.

Additional information on Southern Company's management of climate-related risks is available in the [2022 CDP Climate Change Disclosure](#).

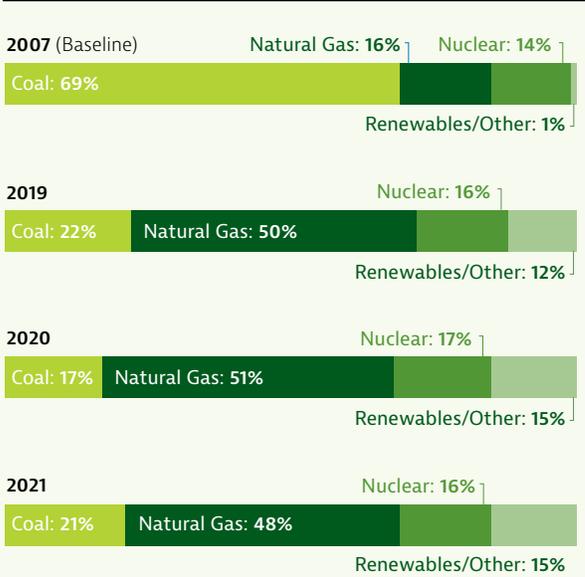
# Energy Transition and Decarbonization

As we transition to net zero, having a diversified energy portfolio is crucial to reducing emissions while maintaining reliability and affordability. Since 2007, we have reduced our reliance on coal-fired generation, increased generation from no-carbon resources and made strategic decisions around our use of natural gas.

## Energy Transition for the Electric Operations

The Southern Company system has transitioned to an electric generating mix of 21% coal and 48% natural gas in 2021 from a mix of 69% coal and 16% natural gas in 2007. Our energy mix from no- and low-carbon resources has increased to 31% in 2021, with 16% generation from nuclear and 15% from renewables, hydropower, biomass and landfill gas, from 15% in 2007.

### Annual Energy Mix<sup>[1]</sup>



[1] 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.

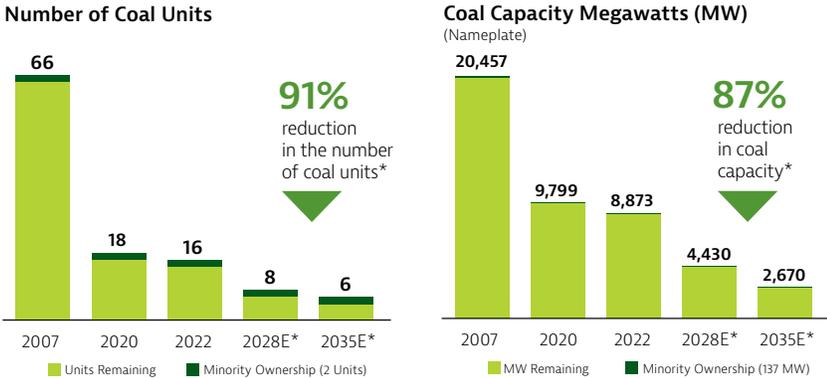
Renewables/Other category includes wind, solar, hydro, biomass and landfill gas.

With respect to certain renewable generation and associated renewable energy credits (RECs), to the extent an affiliate of Southern has the right to the RECs associated with renewable energy it generates or purchases, it retains the right to sell the energy and RECs, either bundled or separately, to retail customers and third parties.



Southern Company continues to reduce the number of generating units in our coal fleet, lowering emissions, and retiring uneconomic resources. We have received regulatory approval to reduce the number of coal generating units to 10 by 2028. Pending regulatory approval, we expect to further reduce our coal fleet by 2028 and 2035.

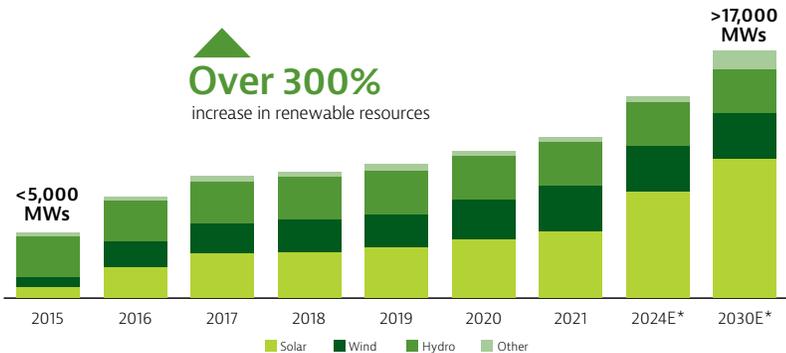
### Southern Company Coal Fleet Over Time [2]



[2] Reflects Effluent Limitations Guidelines (ELG) compliance filings made by Southern Company’s traditional electric operating companies, as well as the 2021 Integrated Resource Plan (IRP) for Mississippi Power and the 2022 IRP for Georgia Power. Units are expected to be either retired or repowered to burn natural gas during peak loads. Minority ownership units are subject to compliance decisions made by majority owners.  
 \*For 2028, regulatory approvals have already been received to reduce the total number of coal generating units to 10. In its 2022 IRP, Georgia Power requested to retire Plant Bowen Units 1&2 by 2028 and expects this request to be considered in future regulatory proceedings. In addition, Georgia Power’s planning assumption includes the retirement of Plant Bowen Units 3&4 by 2035, which would also require regulatory approval.

Our footprint of renewable resources continues to grow at both our regulated utilities and unregulated subsidiary, Southern Power. Southern Company is the fourth-largest owner of renewable resources in the U.S. Our Southern Power subsidiary owns wind, solar and energy storage resources across the U.S. and is a trusted wholesale energy partner for municipalities, electric cooperatives, investor-owned utilities, and commercial and industrial customers. In addition, we are adding renewables and battery storage through owned resources and power purchase agreements at our regulated electric utilities. With the addition of these approved resources, renewable generation is expected to increase to more than 17,000 MW by 2030 from 11,000 MW in 2021.

### Southern Company Renewables Growth [3]



[3] Includes owned and contracted resources including 100% capacity for jointly owned projects. With respect to certain renewable generation and associated renewable energy credits (RECs), to the extent an affiliate of Southern Company has the right to the RECs associated with renewable energy it generates or purchases, it retains the right to sell the energy and RECs, either bundled or separately, to retail customers or third parties. Other includes battery storage, landfill gas and biomass.  
 \*Future estimates include owned and contracted capacity that have received regulatory approval. Additional renewable resources could be added prior to 2030 at Southern Power or at our operating companies, should they be proposed and approved through regulatory processes.

A core element underpinning Southern Company’s decarbonization strategy for our electric utilities is our scenario-based integrated resource planning process and related regulatory reviews. Our electric operating companies are subject to the jurisdiction of their respective state Public Service Commissions (PSCs) and state environmental agencies. PSCs have broad regulatory authority over the companies, including approval of new supply-side and demand-side resources and related cost recovery rates, while environmental agencies are charged with the enforcement of each state’s environmental policies. At varying frequencies and under a variety of circumstances, the electric operating companies file with their respective PSCs economic analyses of recommendations or decisions using the scenario planning process.



## Decarbonization in Natural Gas Distribution and Use

Southern Company Gas published a decarbonization study in 2022 that identified pathways for reaching net zero direct GHG emissions by 2050. To reduce emissions associated with customers' use of gas, the study looked at two scenarios based on increased building efficiency, high efficiency gas heating technology and the use of renewable natural gas. A third scenario focuses on policy-driven mandatory electrification of space and water heating. The fourth scenario uses a hybrid natural gas/electric approach for building heating. The study also identified pathways for reducing indirect emissions associated with the usage of natural gas by residential and commercial customers, and a comprehensive pathway for Southern Company Gas to reduce both direct and indirect GHG emissions.

Southern Company Gas has been a leader in the natural gas industry in fostering significant progress to minimize fugitive methane emissions. For more than 20 years, it has worked closely with state commissioners to strategically invest more than \$2 billion in pipeline and infrastructure replacements. The benefits of aging infrastructure replacement include minimizing fugitive methane emissions, improving safety and increasing system reliability.

Through these infrastructure modernization efforts, the company reduced its annual methane emissions from our distribution system by approximately 50% while growing the system by more than 20% between 1998 and 2018.

Southern Company Gas utilities are also looking at opportunities to expand the use of Advanced Leak Detection (ALD) technologies.

Southern Company Gas is a founding member of the ONE Future Coalition, a group of natural gas companies working together to voluntarily reduce methane emissions across the natural gas supply chain. 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 2021 was 0.195%, well below ONE Future's 2025 goal of 0.44% for local distribution companies. Additionally, Southern Company Gas has reported natural gas methane emissions through Environmental Protection Agency's (EPA) Methane Challenge voluntary reporting program since its inception, as well as EPA's Gas STAR voluntary reporting program for nearly three decades.

## Investing in the Future

A reliable, resilient and affordable energy system is central not only to our company and mission, but also to the future of energy. We lead the U.S. utility industry in the development, funding and demonstration of innovative research. Our aim is to develop the customized energy solutions our customers and communities require to drive growth and prosperity.

### Resilience and Reliability

As we transition to cleaner fuel sources, Southern Company is focused on modernizing our infrastructure to improve system resilience and ensuring processes are in place to minimize physical risks to our energy systems. Over the 2022-2026 planning period, we aim to invest \$17 billion across our electric transmission and distribution systems, including smart grid and advanced meter infrastructure, energy storage, microgrids, and demand response technology. These efforts will help further modernize our transmission and distribution infrastructure, build systemwide resilience and enhance our ability to identify problems and avoid service disruptions for our customers. Established integrated resource planning and rate case processes, as well as existing rate and recovery constructs overseen by state regulators, facilitate the review and recovery of capital expenditures by our regulated utilities.

Our natural gas storage systems are a critical safety net to protect against fluctuations in supply and demand for gas. As these spikes often occur with little to no warning, storage ensures future reliability. About 20%

of all natural gas consumed during winter is supplied by underground storage. Underground storage of natural gas is an integral component of the nation's energy system, and our nation's significant storage capacity enables utilities to offer clean natural gas to consumers throughout the year with reliable service and prices.

### Affordability and Energy Efficiency

We are focused on affordability for all customers. Maintaining affordability fosters high customer satisfaction, financial strength and constructive regulatory treatment. Effectively understanding and addressing the financial priorities of our customers, investors and regulators will help facilitate our transition toward a net zero future.

The Southern Company system is a leader in offering innovative electric and natural gas energy efficiency programs that help customers use energy more wisely. These programs have been successful across our state-regulated electric utilities and, since 2007, Southern Company has invested approximately \$1.2 billion in energy efficiency and demand response. The result of this investment is the ability to reduce peak demands by over 5,600 MW systemwide.

Additionally, Southern Company Gas offers energy efficiency programs across all four of its local distribution companies. Between 2011 and 2021, its subsidiary, Nicor Gas, invested more than \$411 million in energy efficiency for natural gas customers, saving more than 197 million net therms and avoiding more than 1 million metric tons of CO<sub>2</sub> emissions.



## Innovation

Meeting our system reliability, resilience and sustainability objectives will require continued innovation to both maintain existing levels of system reliability and resilience, and meet the changing needs of customers. Modernizing the system remains a focus of our research and development activities.

As adjacent sectors such as transportation expand their use of electricity to support decarbonization, resilience and reliability requirements will only be heightened. The expanded use of renewable energy and its associated intermittency will require energy storage solutions with a broad range of capacity and duration. Our research and development activities are targeting integrated storage at affordable costs via emerging technologies, such as advanced flow batteries and thermal energy storage.

Customer-specific needs for resilience, sustainability or a reduced carbon footprint have created opportunities for the deployment of distributed infrastructure. By incorporating distributed resources such as microgrids, we can meet customers' needs for resilience and the needs of the overall system reliably and affordably.

Southern Company Gas is an active member of NYSEARCH, a member-funded organization that focuses on education and training, technology research and development, operations, planning, and increasing public awareness of natural gas in the U.S. NYSEARCH's portfolio of Research, Development & Deployment projects spans the entire natural gas value chain and has specific programs focused on reducing GHG emissions.

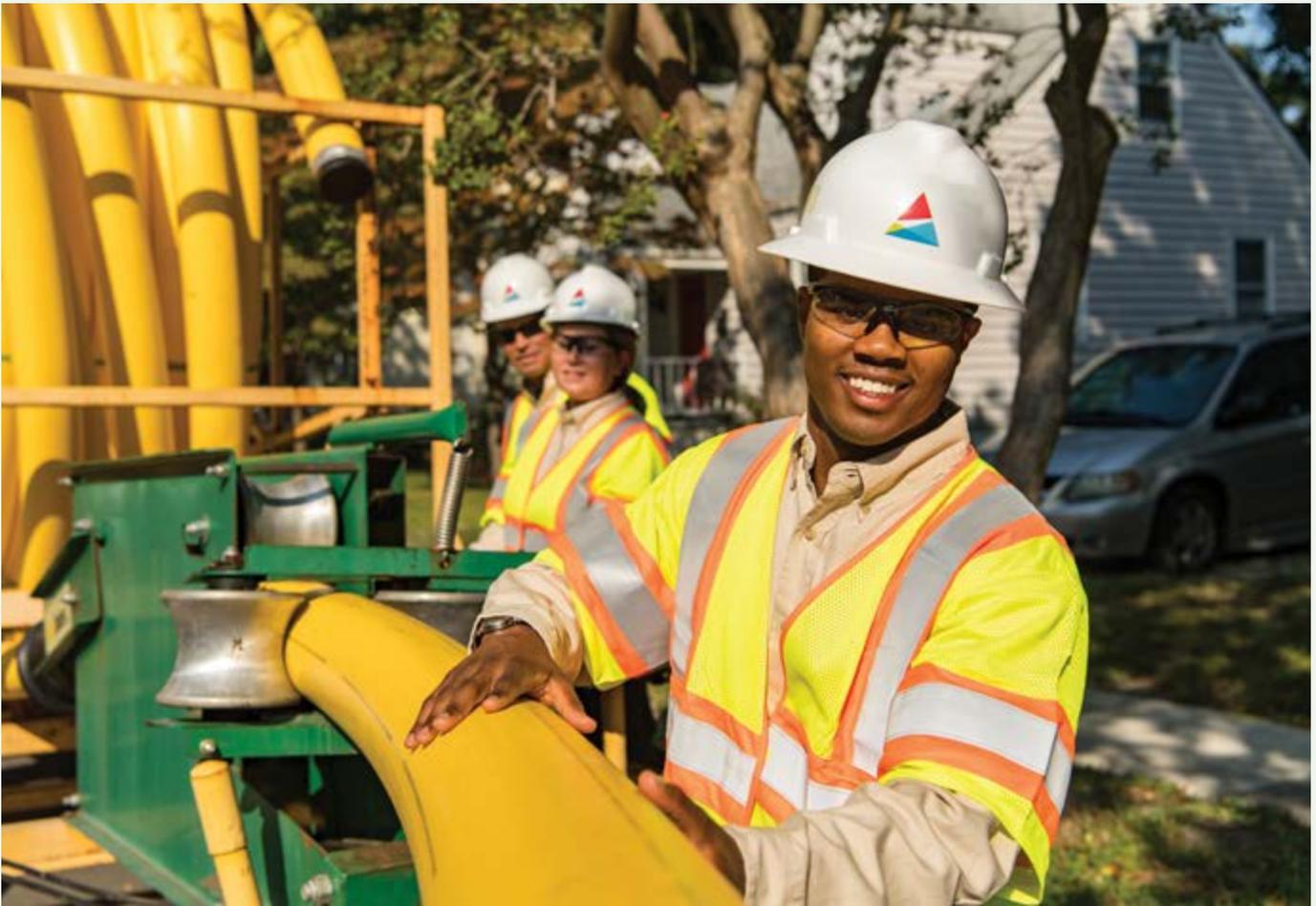
Southern Company Gas regularly invests and engages in these programs, with a recent focus on hydrogen blending and the impacts it may have on natural gas systems and commonly used equipment. NYSEARCH collaborates across gas utilities to develop new products and technologies for the betterment of the natural gas industry and consumers.

## Resource Efficiency

In addition to reducing GHG emissions, Southern Company prioritizes responsible water and waste management. Water is an important resource in the company's operations, and we remain committed to responsible water usage. We are leveraging and exploring emerging technologies to address short- and long-term solutions for issues related to the water-energy nexus. In 2021, Southern Company thermoelectric plant operations returned approximately 89% of the 667,184 million gallons withdrawn back to the source.

Southern Company operates rigorous waste management programs focused on continuous improvement with the goal to safely and effectively manage power generation waste such as coal ash. For example, we have a long history of beneficial use of coal combustion residuals. In 2021, we beneficially used around 90% of coal combustion residuals from our operations. We continue to seek ways to incorporate beneficial use into our coal combustion residual closure program. In addition, we adhere to state and federal guidelines regarding the on-site storage of spent nuclear fuel, in compliance with operating licenses.





## Natural Gas Safety

*The safety and well-being of our customers and the communities we serve are core values for us. 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. As a result, 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 on the smell of natural gas to ensure suspected leaks are reported as quickly as possible.*

*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 six 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 systems and reduce emissions. Areas include the Construction, Operations, Damage Prevention and Leak Survey areas of the company. For example, the company has partnered with critical infrastructure safety provider, 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.*

# Human Capital Management

## Safety for All

Safety First is a pledge to our employees, customers, contractors and communities that our actions will contribute to a safe environment for everyone. Our system has long had a commitment to completing every job, every day, safely. We are dedicated to continuous safety improvement to advance our safety culture.

As part of our focus on continuous improvement, in 2018 we recognized that our “Target Zero” safety initiative to pursue zero workplace injuries, set with the best of intentions, had unintended consequences – a hesitance to report minor incidents and near-misses. While we continue to measure rates of recordable injuries, lost-time rate and days away, we have come to recognize that lessons learned from reporting all incidents provide the best opportunities to advance our safety program. Better understanding the precursors of potentially serious incidents helps us identify and implement the critical controls necessary to prevent serious injuries. We hone and build on our safety culture by engaging all employees in our solutions, continuing to share and build on learnings, and contributing to continuous process improvement to enhance safety.

Our commitment is to Safety First. We work hard every day to live up to this core element of Our Values and sustain a culture in which our employees are empowered to contribute to making us better.

## Workforce Sustainability

At Southern Company, we are focused on having the right people with the right skills trained to perform their jobs safely and ethically to meet current and future business requirements. We uphold our values, ethics and human capital beliefs in all we do and remain cognizant of what they mean to our workforce’s culture and well-being. We believe in, and invest in, the well-being of our employees through a total rewards strategy that includes competitive salary, annual incentive awards for eligible employees and health, welfare and retirement benefits designed to encourage physical, financial and emotional/social well-being. Development and retention of our talent is a priority. New hires augment our existing workforce as we seek to meet changing business needs, address any critical skill gaps and supplement and diversify our talent pipelines.

In 2021, Southern Company employed approximately 27,300 total employees. We have an average tenure of approximately 15 years and a turnover rate of approximately 7.7% (4.3% when excluding retirements).

# Diversity, Equity & Inclusion

Southern Company is committed to the success of our customers, employees, communities, stockholders and other stakeholders. Core to this commitment is building and maintaining a representative workplace that provides outstanding service to our customers and reflects the diverse communities we serve. We promote an actively inclusive culture and strive to create a workplace where everyone is welcomed, valued and respected, and all groups are well-represented, included and treated fairly within all levels of the organization.

Southern Company has committed to undertake a racial equity audit, conducted by a third party in 2023, in response to feedback from stakeholders. The audit will focus on Southern Company’s implementation of initiatives to support racial equity and inclusivity within our workforce and the communities we serve. As part of the process, we will engage key stakeholders, including employees and civic organizations relevant to the audit. We anticipate publishing a report based on the audit at the end of 2023.

In 2020, Southern Company adopted a Moving to Equity framework, representing our collective commitment to work in the areas of talent, work environment, supplier diversity, community and social justice, and political engagement. In 2021, we published our 2021 Transformation Report: Moving to Equity to provide stakeholders an update on progress in these areas.



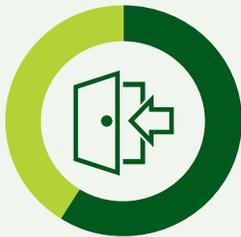


## Talent

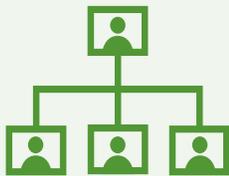
We increased our efforts to recruit and develop diverse talent, with the goal of having our workforce mirror the diverse communities we serve.

In 2021

### 2021 Results



**Underrepresented groups made up 58% of hires**



**54% of all promotions went to employees of color and women**



**Workforce representation increased to 43% with progress across levels**

Southern Company is committed to transparency. As part of that commitment, we annually disclose a summary of workforce data each subsidiary submits to the Equal Employment Opportunity Commission through the [Workforce Representation Disclosure: Equal Employment Opportunity Employer Information Report \(Form EEO-1\)](#).

## Work Environment

Our operating companies have comprehensive diversity, equity and inclusion learning programs. We have increased engagement and expanded employee-led groups and networks across the system. Furthermore, Southern Company has implemented inclusive leadership development for all new leaders.



In 2021, Southern Company ranked No. 20 on DiversityInc's 2021 Top 50 Companies for Diversity, up six spots from No. 26 in 2020. These rankings are based on 2021 company-submitted data in six key areas: leadership accountability, human capital diversity metrics, talent programs, workforce practices, supplier diversity and philanthropy.

## Supplier Diversity

In 2021, Southern Company launched new programs to mentor, develop and sustain diverse suppliers, and increased collaboration with internal business units to identify opportunities for diverse businesses to work with us.

The Supplier Diversity Business Development Program matched a Southern Company system mentor with a diverse business owner. The 18-month program aims to enrich 33 companies and equip them with tools and networks to support their prospects of doing business with our system.

Southern Company has established a 2025 goal for 30% of supplier spending for diverse businesses. In 2021, our diverse spend reached 26% of the total spend. We are nearing completion of a detailed spend analysis conducted for each business unit to identify opportunities and gaps through 2025.



In 2021, Supply Chain Management devised a program to help strengthen the system's supply chain by improving the cybersecurity of small and diverse suppliers. In collaboration with a small, minority, veteran-owned cybersecurity services company – Innovative Systems Group (ISG) – the team has developed an approach to help small businesses better protect their information and digital assets.

## Community Engagement

Southern Company is committed to being “A Citizen Wherever We Serve.” We weave together financial grants, philanthropic programs, community board leadership and employee volunteerism to create positive momentum in communities where we serve, live and play. Our support is broad-based, spanning education, health and human services, civic and community, the environment, economic development, and arts and culture. In 2021, we invested approximately \$110 million in grants, sponsorships, and impact investments across our territories.

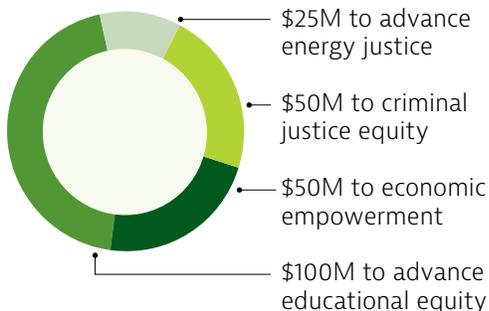
### Employee Giving

Our employee service and charitable programs throughout our company raise almost \$2 million annually from employees. The funds support United Way charities and other organizations like Boys and Girls Clubs, American Cancer Society, Salvation Army, Habitat for Humanity, Girl Scouts, and other local organizations. Community service groups for employees and retirees administered by Southern Company’s subsidiaries volunteer approximately 85,000 hours annually to improve the communities we serve.

### Commitment to Social Justice

In 2021, we provided \$66 million to our communities to advance criminal justice equity, economic empowerment, educational equality, and energy justice as part of a \$225 million commitment through 2025. Energy justice, the goal of achieving equity in both the social and economic participation in the energy system, while also remediating any adverse impacts, was added as a fourth social justice focus area in 2021. We are committed to funding energy assistance as well as job training and economic support for our communities, including minority and low-income communities.

**\$225M committed through 2025** to advance racial equity and social justice in our communities



## Just Transition

As we seek to decarbonize and ultimately reach a net zero GHG emissions future, we have made decisions to retire and/or repower large portions of our coal generating fleet. We have prioritized education and training opportunities for impacted employees and worked closely with affected communities. We remain committed to helping ensure a Just Transition for these populations in the years ahead. In 2021, Southern Company published a comprehensive report on Just Transition outlining five primary Just Transition principles:



### Our Just Transition Principles foster:



Strong governance



Effective stakeholder engagement and transparent communication



Employee support and coordination with labor unions



Ongoing community and environmental commitment



Continued safety, reliability, resilience and affordability

# Governance of Corporate Responsibility

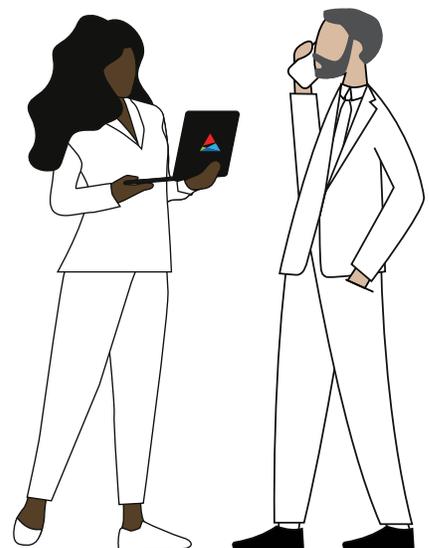
Southern Company aspires to establish corporate governance standards and practices that drive long-term value for our stakeholders. Core to effective governance is consistent dialogue with our stakeholders, including regulators, investors and suppliers. We are committed to the highest ethical standards and proactive transparency at the Board level and throughout the entire organization.



## Management

Southern Company's Chief Executive Officer (CEO) has direct responsibility for climate-related issues including setting strategy and oversight of carbon emission reductions. Key elements of this responsibility include, leading strategic resource planning and associated capital allocation, setting annual budgets, evaluating unregulated low-carbon and zero-carbon investments, leading climate-related risk assessments, assessing the impact of the Company's fleet transition on its employees and the communities it serves, making decisions regarding investments in research, development and innovation, and assessing climate-related controls and compliance.

The CEO leads a team of senior executive officers across the Southern Company system with responsibility for identifying, assessing and managing risks and opportunities. The senior executive officers meet monthly to discuss major business decisions with respect to operations, employees and customers, including climate-related risks and resource planning, federal and state environmental regulation and policy, and stakeholder engagement. Additional details on the management of corporate responsibility are provided in the our [2022 CDP Climate Change disclosure](#) for reporting year 2021.



## Board of Directors

The Southern Company Board of Directors is comprised of the CEO, serving as Chairman, and 12 independent Directors, who provide substantive oversight to our management team on strategy and risk issues across the environmental, social and governance spectrum. Each committee of the Board of Directors 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.

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. In response to stockholder feedback, a long-term incentive award was implemented for the three-year performance period from 2019-2021, tying 10% of the CEO’s long-term equity incentive compensation to progress toward the achievement of Southern Company’s 2030 and 2050 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.

In addition, employees are incentivized through the Pay for Performance Program to meet operational goals related to generation availability, transmission and distribution reliability, pipeline replacement projects, and natural gas leak response performance, all of which facilitate reduction in GHG emissions through efficient operation of units and direct reduction of emissions. For employees of our Southern Company Gas subsidiary, including the CEO of Southern Company Gas, operational goals under the annual Performance Pay Program include leak response performance, system damage prevention and pipeline replacement projects that support the reduction of methane emissions.

Committees of the Board of Directors	
Audit Committee	Oversees the adequacy and effectiveness of internal controls, including the development of internal controls for non-financial ESG-related data and disclosures
Business Security and Resiliency	Oversees cybersecurity, physical security and operational resiliency, including issues and policies relating to climate change and its impact on business resiliency
Compensation and Talent Development	Oversees human capital management strategies, practices and programs, including talent acquisition, development and retention, diversity, equity and inclusion, employee engagement and wellbeing, performance management and pay equity reviews
Finance Committee	Oversees capital investment, including alignment of long-term capital allocation strategies with net zero objectives
Nominating, Governance, and Corporate Responsibility	Oversees significant corporate responsibility strategies, programs and practices, including environmental sustainability and climate change, supporting community investment and social justice, advancing supplier diversity, public policy advocacy, political contributions and lobbying and assessing ESG feedback from shareholders and other stakeholders
Operations, Environmental and Safety	Oversees reduction of GHG emissions and fleet transition, including net zero carbon strategies, resource planning, emerging technologies and R&D and the impact on employees and communities of implementing the business strategies and operations



## Policy Engagement

Southern Company believes it has a responsibility to customers and stakeholders to participate in the political process and that our success is dependent on political engagement and advocacy. Meeting our net zero goal will require continued active and constructive engagement with government officials, investors, and a wide variety of other public and private stakeholders. Policies that encourage and advance innovation while protecting the affordability, reliability and resilience of service are essential to meeting this goal. Southern Company engages directly with lawmakers and regulators and also participates in trade associations and industry groups that, among their many activities, engage in lobbying and advocacy on various matters.

Southern Company also has a responsibility to customers and stockholders to make, where appropriate, political contributions or expenditures (as defined by applicable law). We and our subsidiaries comply with all laws

governing the use of corporate funds in connection with elections for public office, and all political contributions or independent expenditures are approved in advance. We disclose on our website an overview of our [Policies and Practices for Political Engagement](#). Annually, we also [disclose the political contributions](#) of Southern Company and our subsidiaries and the trade associations and coalitions engaged in state or federal lobbying to which Southern Company or our subsidiaries make yearly contributions of \$50,000 or more. In 2022, we also published the [2021 Trade Association and Climate Engagement Report: Responsible Policy Engagement](#). The report provides transparency to investors and other stakeholders by bringing together existing disclosures and information about our engagement with policymakers, with a focus on the climate-related positions of trade associations to which Southern Company or a subsidiary pays dues of \$50,000 or more that lobby on federal energy policy.

## Cybersecurity

Southern Company is committed to ensuring the security, reliability and resiliency of its critical infrastructure against both physical and cyberattacks. For cybersecurity, Southern Company not only complies with government regulations and industry standards, 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 participates in the Electricity Subsector Coordinating Council (ESCC), which coordinates industry and federal government preparation for and response to potential national disasters and cyberattacks. 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. Southern Company’s CEO chairs the Cybersecurity Advisory Committee, a board of industry and government leaders that advises the Director of the Cybersecurity & Infrastructure Security Agency (CISA) on the development, refinement, and implementation of recommendations, policies, programs, planning, and training pertaining to CISA’s cybersecurity mission. 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 industry preparedness.



# Content Index

## ESG/Sustainability Governance

Companies are encouraged to provide a high-level overview and discussion of the process through which ESG/Sustainability is managed.

Requested Content	Location in the Report
<p>This overview may include a list of the job titles or positions responsible for ESG/Sustainability management and decisions within the company, as well as the reporting structure up to the Board of Directors and Board Committees, including the number of independent directors providing oversight, if applicable.</p>	<p>Governance of Corporate Responsibility                      - Management                      - Board of Directors                      - Committees of the Board of Directors</p>
<p>To proactively manage reputational risk, we are encouraging companies to provide greater transparency regarding public policy engagement practices.</p>	<p>Governance of Corporate Responsibility                      - Policy Engagement</p>
<p>With respect to the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations related to Governance and Risk Management, describe the Board’s oversight of climate-related risks and opportunities, and describe management’s role in identifying, assessing, and managing these risks and opportunities.</p>	<p>Governance of Corporate Responsibility                      - Committees of the Board of Directors</p>

Finally, cyber and physical security and business continuity governance practices including board oversight of cyber security should be described at a high-level.

Requested Content	Location in the Report
<p>Companies are encouraged to highlight the CEO-led Electricity Subsector Coordinating Council (ESCC), which serves as the principal liaison between the federal government and the electric power industry, with a mission of coordinating efforts to prepare for, and respond to, national-level disasters or threats to critical infrastructure. The ESCC focuses on actions and strategies that help protect the energy grid, prevent various threats from disrupting electricity service, and develop capabilities that help the sector quickly respond and recover when major incidents impact the grid.</p>	<p>Governance of Corporate Responsibility                      - Cybersecurity</p>
<p>Similarly, member companies with natural gas operations are encouraged to reference the work of the Oil and Natural Gas Subsector Coordinating Council (ONG SCC) and the Downstream Natural Gas Information Sharing and Analysis Center (DNG-ISAC).</p>	<p>Governance of Corporate Responsibility                      - Cybersecurity</p>

## ESG/Sustainability Strategy

Below is an outline of topics companies are encouraged to discuss in relation to the ESG/Sustainability efforts and strategies they undertake. The primary objective of this section is to allow reporting entities the opportunity to describe qualitatively the steps the company is taking to address ESG/Sustainability, including initiatives currently in place or planned by the company.

### 1. Adapting to the changing business environment – Provide an overview of regional factors and related challenges that affect or could affect the business model, and company strategies for responding to these challenges.

Requested Content	Location in the Report
Examples include natural resources, regional economic health, renewable technology potential, and other factors that are characteristic to the company’s geographic region.	Energy Transition and Decarbonization - Energy Transition for the - Electric Operations
State public service commission processes and public policy considerations in specific regions of operation, and preparation for an evolving regulatory environment at both the state and federal level.	Energy Transition and Decarbonization - Energy Transition for the - Electric Operations

### 2. Managing and adapting to future ESG/Sustainability risks and opportunities.

Requested Content	Location in the Report
Risks could include climate change, low demand growth, stranded assets, environmental compliance, weather patterns, access to water, and carbon policy or liability.	Corporate Responsibility Strategy - Climate-Related Risks
Opportunities could include programs related to renewable energy, customer solutions, energy efficiency, adaptation, hardening, and resilience (AHR) initiatives, and research and development efforts.	Investing in the Future - Resilience and Reliability - Affordability and Energy Efficiency - Innovation - Resource Efficiency
Discuss plans, goals, and initiatives to address social risks and opportunities such as diversity, equity, and inclusion (DEI), human capital management including health and safety and supply chain sustainability, or other important social issues to your company.	Human Capital Management - Safety for All - Diversity, Equity & Inclusion
Details on plans to assure the continued reliability and affordability of energy for customers and plans to ensure future recovery of capital expenditures and other costs.	Investing in the Future - Resilience and Reliability - Affordability and Energy Efficiency
With respect to the TCFD recommendations related to Strategy, disclose the possible impacts of climate-related risks and opportunities on the company’s businesses, strategy, and financial planning.	Corporate Responsibility Strategy - Climate-Related Risks

**3. Sustainability plans and progress – Innovative practices, programs, and initiatives designed to support the company’s transition to a lower carbon and increasingly sustainable energy future.**

Requested Content	Location in the Report
Climate or other ESG/Sustainability goals the company may be working towards and timeframe. If appropriate, provide links to further information related to analysis performed by the company in consideration of its goals (reference goals table in quantitative emissions section).	Corporate Responsibility Strategy - Goals and Progress
Plans for engagement with the local communities in which the company operates.	Community Engagement

**4. Natural gas safety and emissions reductions – Companies with natural gas operations are encouraged to disclose information on the following topics.**

Requested Content	Location in the Report
Describe the management and oversight processes that have been put in place to avoid incidents that could affect “reputational risk.” Companies are encouraged to describe their commitment to pipeline safety, a culture of safety and continuous improvement.	Natural Gas Safety
Provide an overview of the corporate strategy for reducing methane emissions from natural gas operations over time. Companies are encouraged to describe their past, current and future actions and strategy for reducing vented and fugitive methane emissions, including whether they participate in related voluntary programs such as USEPA’s Natural Gas STAR, Methane Challenge, or ONE Future and/or made voluntary methane reduction commitments at the corporate or subsidiary level.	Energy Transition and Decarbonization - Decarbonization in Natural Gas Distribution and Use
Companies are encouraged to participate in the Natural Gas Sustainability Initiative (NGSI) and provide a link to their disclosure of the Version 1 NGSI Methane Emissions Intensity Measurement Protocol for the Distribution Segment. NGSI participating companies are also encouraged to:	Energy Transition and Decarbonization - Decarbonization in Natural Gas Distribution and Use
– Highlight use of the NGSI methodology, which includes emission sources not included in the ESG Template calculation.	Energy Transition and Decarbonization - Decarbonization in Natural Gas Distribution and Use
– Specifically report non-normalized methane emissions intensity using the GHGRP emissions factors, and also provide the other three NGSI metrics for the Distribution Segment.	Energy Transition and Decarbonization - Decarbonization in Natural Gas Distribution and Use
– Report additional data using the NGSI Protocol for the Transmission and Storage Segment (if the company has transmission and storage assets).	Energy Transition and Decarbonization - Decarbonization in Natural Gas Distribution and Use
Indicate how oversight of methane emissions is handled from an operational standpoint to the board level, and whether methane or GHG mitigation is a factor in employee, officer and CEO compensation.	Governance of Corporate Responsibility - Board of Directors

Source: [EEI/AGA ESG/Sustainability Template – Version 3](#)

# Index of Links

Topic Areas	Links
<p><b>Corporate Responsibility Strategy</b></p> <ul style="list-style-type: none"> <li>• Goals and Progress</li> <li>• Climate-Related Risks</li> </ul>	<p><a href="#">2021 Corporate Responsibility Executive Summary</a>  <a href="#">Sustainability   Sustainability Highlights</a>  <a href="#">Sustainability: Data, Downloads, and Reports</a>  <a href="#">2022 CDP Climate Change Disclosure</a></p>
<p><b>Energy Transition and Decarbonization</b></p> <ul style="list-style-type: none"> <li>• Energy Transition for the Electric Operations</li> <li>• Decarbonization in Natural Gas Distribution and Use</li> </ul>	<p><a href="#">Clean Energy</a>  <a href="#">Building the Future of Energy</a>  <a href="#">Decarbonization Pathways for Southern Company Gas</a>  <a href="#">Implementation and action toward net zero</a>  <a href="#">Planning for a low-carbon future report</a></p>
<p><b>Investing in the Future</b></p> <ul style="list-style-type: none"> <li>• Resilience and Reliability</li> <li>• Affordability and Energy Efficiency</li> <li>• Innovation</li> <li>• Resource Efficiency</li> </ul>	<p><a href="#">System Reliability and Resilience</a>  <a href="#">Affordability and Low-Income Assistance</a>  <a href="#">Energy Efficiency</a>  <a href="#">Research and Development   Research Portfolio</a>  <a href="#">Air, Water and Waste Management</a></p>
<p><b>Natural Gas</b></p> <ul style="list-style-type: none"> <li>• Safety</li> </ul>	<p><a href="#">Southern Company Gas Safety</a></p>
<p><b>Human Capital Management</b></p> <ul style="list-style-type: none"> <li>• Safety for All</li> <li>• Workforce Sustainability</li> <li>• Diversity, Equity &amp; Inclusion</li> </ul>	<p><a href="#">2021 Transformation Report: Moving to Equity</a>  <a href="#">Moving to Racial Equity</a>  <a href="#">Workforce Representation Disclosure: Equal Employment Opportunity Employer Information Report (EEO-1)</a></p>
<p><b>Community Engagement</b></p> <ul style="list-style-type: none"> <li>• Employee Giving</li> <li>• Commitment to Social Justice</li> <li>• Just Transition</li> </ul>	<p><a href="#">Community Relationships</a>  <a href="#">Boldly Forward</a>  <a href="#">Outreach and Engagement</a>  <a href="#">2022 Just Transition Report</a></p>
<p><b>Governance of Corporate Responsibility</b></p> <ul style="list-style-type: none"> <li>• Management</li> <li>• Board of Directors</li> <li>• Committees of the Board of Directors</li> <li>• Policy Engagement</li> <li>• Cybersecurity</li> </ul>	<p><a href="#">2022 Proxy Statement</a>  <a href="#">Corporate Governance   Sustainability/ESG</a>  <a href="#">Policies and Practices for Political Engagement</a>  <a href="#">Trade Association and Climate Engagement Report</a>  <a href="#">Political Engagement Expenditure Disclosures</a>  <a href="#">Federal Partnerships</a></p>
<p><b>Additional Information</b></p>	<p><a href="#">2021 Annual Report</a>  <a href="#">Company Overview</a>  <a href="#">Southern Company Accolades</a></p>

# Quantitative Information - Portfolio

<b>Parent Company:</b>	Southern Company
<b>Operating Company(s):</b>	Alabama Power, Georgia Power, Mississippi Power, Southern Power, Southern Nuclear, Southern Company Gas, PowerSecure
<b>Business Type(s):</b>	Vertically Integrated
<b>State(s) of Operation:</b>	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
<b>State(s) with RPS Programs:</b>	California, Illinois, Maine, Maryland, Minnesota, Nevada, New Hampshire, New Mexico, North Carolina, and Texas
<b>Regulatory Environment:</b>	Both regulated and deregulated
<b>Report Date:</b>	August 2022

		Portfolio			
		Current Year			
Ref No.		2007	2019	2020	2021
		Baseline	Actual	Actual	Actual
<b>1</b>	<b>Owned Nameplate Generation Capacity at end of year (MW)<sup>1,2</sup></b>	41,945	45,445	44,427	43,506
1.1	Coal	21,097	11,779	11,109	9,754
1.2/1.4	Natural Gas/Petroleum	14,410	22,527	22,042	21,804
1.3	Nuclear	3,680	3,680	3,680	3,680
1.5	Total Renewable Energy Resources				
1.5.1	Biomass/Biogas	—	10	10	10
1.5.2	Geothermal	—	—	—	—
1.5.3	Hydroelectric	2,758	2,758	2,758	2,758
1.5.4	Solar	—	2,620	2,701	2,955
1.5.5	Wind	—	2,054	2,110	2,528
1.6	Other <sup>3</sup>	—	17	17	17
<b>2</b>	<b>Net Generation for the data year (MWh)<sup>2</sup></b>				
2.1	Coal	143,404,887	41,703,352	31,585,343	39,646,454
2.2/2.4	Natural Gas/Petroleum	31,812,893	96,071,983	92,184,968	90,197,482
2.3	Nuclear	28,597,842	30,099,204	30,386,885	31,123,940
2.5	Total Renewable Energy Resources				
2.5.1	Biomass/Biogas	—	90,116	84,619	40,261
2.5.2	Geothermal	—	—	—	—
2.5.3	Hydroelectric	2,915,528	6,545,471	7,769,536	6,838,068
2.5.4	Solar	—	5,858,418	5,876,413	6,040,589
2.5.5	Wind	—	6,153,898	7,193,079	8,383,664
2.6	Other <sup>3</sup>	—	45,083	140,260	140,260
	<b>Purchased Net Generation for the data year (MWh)<sup>2</sup></b>				
2.1.ii	Coal	—	—	—	—
2.2.ii/2.4.ii	Natural Gas/Petroleum	—	1,151,172	1,092,963	2,250,465
2.3.ii	Nuclear	—	—	—	—
2.5.ii	Total Renewable Energy Resources	—	—	—	—
2.5.1.ii	Biomass/Biogas	—	1,703,851	2,288,428	2,399,507
2.5.2.ii	Geothermal	—	—	—	—
2.5.3.ii	Hydroelectric	—	—	—	26,002
2.5.4.ii	Solar	—	1,215,307	2,558,206	2,911,758
2.5.5.ii	Wind	—	2,314,385	2,395,556	2,355,959
2.6.ii	Other <sup>4</sup>	—	5,477,378	5,011,582	3,771,141
<b>3</b>	<b>Capital Expenditures and Energy Efficiency (EE)</b>				
3.1	Total Annual Capital Expenditures (nominal dollars)	3,653,000,000	7,948,000,000	7,802,000,000	7,682,000,000
3.2	Incremental Annual Electricity Savings from EE Measures (MWh) <sup>5</sup>	—	418,347	255,322	331,374
3.3	dollars) <sup>5</sup>	—	48,625,000	32,692,000	40,567,000
<b>4</b>	<b>Retail Electric Customer Count (at end of year)</b>				
4.1	Commercial	599,655	549,000	553,000	562,000
4.2	Industrial	14,901	17,000	17,000	17,000
4.3	Residential	3,756,040	3,688,000	3,741,000	3,795,000

<sup>1</sup>As reported in 2022 CDP Climate questionnaire.

<sup>2</sup>This information represents wholesale generation owned or purchased by Southern Company and not generation to serve any particular retail loads. For generation from a renewable source, to the extent Southern Company subsidiaries receive 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 renewable energy associated with the RECs was used to serve their load.

<sup>3</sup>Other represents fuel cells.

<sup>4</sup>For purchased net generation, other represents indeterminate pool purchases.

<sup>5</sup>As reported in EIA Form 861.

# Quantitative Information - Emissions

<b>Parent Company:</b>	Southern Company
<b>Operating Company(s):</b>	Alabama Power, Georgia Power, Mississippi Power, Southern Power, Southern Nuclear, Southern Company Gas, PowerSecure
<b>Business Type(s):</b>	Vertically Integrated
<b>State(s) of Operation:</b>	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
<b>State(s) with RPS Programs:</b>	California, Illinois, Maine, Maryland, Minnesota, Nevada, New Hampshire, New Mexico, North Carolina, and Texas
<b>Regulatory Environment:</b>	Both regulated and deregulated
<b>Report Date:</b>	August 2022

Emissions					
Ref No.		2007	2019	2020	Current Year
		Baseline	Actual	Actual	2021 Actual
<b>5</b>	<b>GHG Emissions: Carbon Dioxide (CO<sub>2</sub>) and Carbon Dioxide Equivalent (CO<sub>2</sub>e)<sup>1</sup></b>				
<b>5.1</b>	<b>Owned Generation</b>				
5.1.1	Carbon Dioxide (CO <sub>2</sub> )				
5.1.1.1	Total Owned Generation CO <sub>2</sub> Emissions (MT)	155,228,976	86,309,983	73,194,676	80,354,140
5.1.1.2	Total Owned Generation CO <sub>2</sub> Emissions Intensity (MT/Net MWh) <sup>2</sup>	0.730	0.443	0.400	0.420
5.1.2	Carbon Dioxide Equivalent (CO <sub>2</sub> e)				
5.1.2.1	Total Owned Generation CO <sub>2</sub> e Emissions (MT)	156,378,141	86,720,292	73,513,399	80,738,468
5.1.2.2	Total Owned Generation CO <sub>2</sub> e Emissions Intensity (MT/Net MWh) <sup>2</sup>	0.736	0.446	0.401	0.422
<b>5.2</b>	<b>Purchased Power</b>				
5.2.1	Carbon Dioxide (CO <sub>2</sub> ) <sup>3</sup>				
5.2.1.1	Total Owned Generation CO <sub>2</sub> Emissions (MT)				
5.2.1.2	Total Owned Generation CO <sub>2</sub> Emissions Intensity (MT/Net MWh)				
5.2.2	Carbon Dioxide Equivalent (CO <sub>2</sub> e)				
5.2.2.1	Total Purchased Generation CO <sub>2</sub> e Emissions (MT)		3,271,762	2,738,516	2,926,664
5.2.2.2	Total Purchased Generation CO <sub>2</sub> e Emissions Intensity (MT/Net MWh)		0.276	0.205	0.213
<b>5.3</b>	<b>Owned Generation + Purchased Power</b>				
5.3.1	Carbon Dioxide (CO <sub>2</sub> ) <sup>3</sup>				
5.3.1.1	Total Owned + Purchased Generation CO <sub>2</sub> Emissions (MT)				
5.3.1.2	Total Owned + Purchased Generation CO <sub>2</sub> Emissions Intensity (MT/Net MWh)				
5.3.2	Carbon Dioxide Equivalent (CO <sub>2</sub> e)				
5.3.2.1	Total Owned + Purchased Generation CO <sub>2</sub> e Emissions (MT)		89,992,054	73,081,214	83,665,132
5.3.2.2	Total Owned + Purchased Generation CO <sub>2</sub> e Emissions Intensity (MT/Net MWh) <sup>4</sup>		0.454	0.388	0.427
<b>5.4</b>	<b>Non-Generation CO<sub>2</sub>e Emissions of Sulfur Hexafluoride (SF<sub>6</sub>)</b>				
5.4.1	CO <sub>2</sub> e emissions of sulfur hexafluoride (MT)	93,078	37,999	67,910	88,551
5.4.2	Leak rate of CO <sub>2</sub> e emissions of SF <sub>6</sub> (MT/Net MWh)	0.0005	0.0002	0.0004	0.0005
<b>6</b>	<b>Nitrogen Oxide (NO<sub>x</sub>), Sulfur Dioxide (SO<sub>2</sub>), Mercury (Hg)</b>				
6.1	Generation basis for calculation (MWh) <sup>5</sup>	206,731,150	186,567,525	175,221,103	182,410,716
<b>6.2</b>	<b>Nitrogen Oxide (NO<sub>x</sub>)</b>				
6.2.1	Total NO <sub>x</sub> Emissions (MT)	191,539	31,612	23,778	26,859
6.2.2	Total NO <sub>x</sub> Emissions Intensity (MT/Net MWh) <sup>5</sup>	0.00093	0.00017	0.00014	0.00015
<b>6.3</b>	<b>Sulfur Dioxide (SO<sub>2</sub>)</b>				
6.3.1	Total SO <sub>2</sub> Emissions (MT)	920,023	15,238	8,633	12,321
6.3.2	Total SO <sub>2</sub> Emissions Intensity (MT/Net MWh) <sup>5</sup>	0.00445	0.00008	0.00005	0.00007
<b>6.4</b>	<b>Mercury (Hg)</b>				
6.4.1	Total Hg Emissions (kg)	3,995	137	94	128
6.4.2	Total Hg Emissions Intensity (kg/Net MWh) <sup>5</sup>	0.0000193	0.0000007	0.0000005	0.0000007

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.

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

<sup>2</sup>Generation and emissions used for intensity calculations include facilities for which Southern Company owns and sells the energy to customers (i.e. excludes purchased power and leveraged leases).

<sup>3</sup>Southern Company does not require purchased power suppliers to provide disaggregated emissions rates to calculate the disaggregated emissions by greenhouse gas.

<sup>4</sup>Generation and emissions used for intensity calculations include facilities for which Southern Company sells the energy to customers (i.e. excludes leveraged leases).

<sup>5</sup>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:** 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 2022

Resources					
Ref No.		Current Year			
		2007 Baseline	2019 Actual	2020 Actual	2021 Actual
<b>7</b>	<b>Human Resources</b>				
7.1	Total Number of Employees	26,742	27,943	27,700	27,300
7.2	Percentage of Women in Total Workforce	—	26 %	25 %	25 %
7.3	Percentage of Minorities in Total Workforce	—	28 %	28 %	29 %
7.4	Total Number on Board of Directors/Trustees	12	15	14	13
7.5	Percentage of Women on Board of Directors/Trustees	17 %	20 %	14 %	23 %
7.6	Percentage of Minorities on Board of Directors/Trustees	17 %	27 %	21 %	31 %
7.7	Employee Safety Metrics				
7.7.1	Recordable Incident Rate	—	1.37	1.11	1.27
7.7.2	Lost-time Case Rate	—	0.26	0.39	0.46
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	—	0.78	0.81	0.93
7.7.4	Work-related Fatalities	—	0.00	0.00	0.00
<b>8</b>	<b>Fresh Water Resources</b>				
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	—	75,974	71,606	72,890
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	—	869,360	679,900	667,184
8.1	Water Withdrawals - Consumptive (Millions of Gallons/Net MWh) <sup>1</sup>	—	0.0004	0.0004	0.0004
8.2	Water Withdrawals - Non-consumptive (Millions of Gallons/Net MWh) <sup>1</sup>	—	0.005	0.004	0.004
<b>9</b>	<b>Waste Products</b>				
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)	—	258	196	136
9.2	Percent of Coal Combustion Products Beneficially Used	—	81 %	93 %	90 %

<sup>1</sup>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  
**Company(s):** Southern Company Gas  
**Business Type(s):** Vertically Integrated  
**State(s) of Operation:** Natural Gas Utilities: Georgia, Tennessee, Illinois, Virginia; Midstream: California; Retail: Illinois, Michigan, Ohio, Pennsylvania, Maryland, Tennessee, North Carolina, South Carolina, Georgia, Florida  
**Regulatory Environment:** Both regulated and deregulated  
**Report Date:** August 2022

Natural Gas Distribution					
Ref No.		2018	2019	2020	Current Year
		Actual	Actual	Actual	2021 Actual
<b>1</b>	<b>Methane Emissions and Mitigation from Distribution Mains</b>				
1.1	Number of Gas Distribution Customers	—	4,198,515	4,249,692	4,275,124
1.2	Distribution Mains in Service	—	—	—	—
1.2.1	Plastic (miles)	35,361	35,958	36,471	36,937
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	37,389	37,143	36,986	36,937
1.2.3	Unprotected Steel - Bare & Coated (miles)	170	198	155	146
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	2.0	1.1	1.0	—
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	2
1.3.2	Cast Iron / Wrought Iron (# years to complete)	2	1	1	—
<b>2</b>	<b>Distribution of CO<sub>2</sub>e Fugitive Emissions</b>				
2.1	CO <sub>2</sub> e Fugitive Methane Emissions from Gas Distribution Operations (thousand metric tons)	339	340	336	376
2.2	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (thousand metric tons) <sup>1</sup>	14	14	13	15
2.2.1	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (MMScf/year)	706	708	700	783
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	831,840,175	825,200,350	776,806,679	776,657,719
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	790,248	784,439	737,966	737,825
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput) <sup>1</sup>	0.09%	0.09%	0.09%	0.11%

<sup>1</sup>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<sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (metric tons) 27,111  
 Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput) 0.195 %

## 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, costs related to carbon, DE&I goals, expected fuel mix and sources of generation. 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; the effects, extent and timing of the entry of additional competition in the markets in which Southern Company's subsidiaries operate, including from the development and deployment of alternative energy sources; variations in demand for electricity and natural gas; available sources and costs of natural gas and other fuels and commodities; 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, including the pace and extent of development of low- to no-carbon energy and battery energy storage technologies and negative carbon concepts; 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; 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; the direct or indirect effect on the Southern Company system's business resulting from cyber intrusion or physical attack and the threat of physical attacks; catastrophic events; and the direct or indirect effects on the Southern Company system's business resulting from incidents affecting the U.S. electric grid, natural gas pipeline infrastructure, or operation of generating or storage resources. Southern Company expressly disclaims any obligation to update any forward-looking information.



