

The Sustainability Accounting Standards Board (SASB) Standards identify the sustainability topics (environmental, social and governance) most relevant to the financial performance and enterprise value of an industry. These standards are designed to provide investors with meaningful information about individual companies within, and allow for the comparison of companies across, an industry.

The report to follow is the Southern Company¹ response to the Electric Utilities & Power Generators industry standard based on data for the 2022 calendar year.

Greenhouse gas emissions & energy resource planning

Code	Accounting Metric	Southern Company reporting or direct response												
IF-EU-110a.1	1. Gross global Scope 1 emissions	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>82,465,415</td> <td>85,000,000*</td> </tr> <tr> <td>metric tons CO₂e</td> <td>metric tons CO₂e</td> </tr> </tbody> </table> <p>*Greenhouse gas (GHG) emissions increased slightly in 2022 due to an increase in generation resulting from increased electricity sales.</p>	2021	2022	82,465,415	85,000,000*	metric tons CO ₂ e	metric tons CO ₂ e						
	2021	2022												
	82,465,415	85,000,000*												
metric tons CO ₂ e	metric tons CO ₂ e													
2. Percentage of gross global Scope 1 emissions covered under emissions-limiting regulations	The Southern Company's operations are not covered under a GHG emissions-limiting regulation or program.													
3. Percentage of gross global Scope 1 emissions covered under emissions-reporting regulations	99% of Southern Company's gross global Scope 1 emissions are covered under emissions-reporting regulations (EPA's Greenhouse Gas Reporting Program).													
IF-EU-110a.2	Greenhouse gas emissions associated with power deliveries	<table border="1"> <thead> <tr> <th></th> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>Alabama Power Company</td> <td>30,300,000 metric tons CO₂e</td> <td>32,800,000 metric tons CO₂e</td> </tr> <tr> <td>Georgia Power Company</td> <td>32,000,000 metric tons CO₂e</td> <td>32,400,000 metric tons CO₂e</td> </tr> <tr> <td>Mississippi Power Company</td> <td>5,900,000 metric tons CO₂e</td> <td>6,100,000 metric tons CO₂e</td> </tr> </tbody> </table>		2021	2022	Alabama Power Company	30,300,000 metric tons CO ₂ e	32,800,000 metric tons CO ₂ e	Georgia Power Company	32,000,000 metric tons CO ₂ e	32,400,000 metric tons CO ₂ e	Mississippi Power Company	5,900,000 metric tons CO ₂ e	6,100,000 metric tons CO ₂ e
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IF-EU-110a.3	Discussion of long- and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	<p>2021 Corporate Responsibility Executive Summary (Page 10–11)</p> <p>Implementation and Action Toward Net Zero (2020)</p> <p>Emissions reductions targets:</p> <ul style="list-style-type: none"> • 50% reduction in GHG emissions by 2030, relative to 2007 baseline • Net zero GHG emissions by 2050 <p>Emissions reduction progress for Scope 1, relative to the 2007 baseline:</p> <table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>47% reduction</td> <td>46% reduction*</td> </tr> </tbody> </table> <p>* In 2022, we experienced a slight decrease from the 47% reduction in 2021 due to increased generation associated with higher electricity sales.</p>	2021	2022	47% reduction	46% reduction*								
2021	2022													
47% reduction	46% reduction*													

Code	Accounting Metric	Southern Company reporting or direct response
IF-EU-110a.4	1. Number of customers served in markets subject to renewable portfolio standards (RPS)	There are no renewable portfolio standards in the states Southern Company's retail electric operating companies serve.
	2. Percentage fulfillment of RPS target by market	Not applicable.

Air quality

Code	Accounting metric	Southern company reporting or direct response				
IF-EU-120a.1	Air emissions of the following pollutants:					
	1. NO _x (excluding N ₂ O)	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>26,859 metric tons</td> <td>28,331 metric tons</td> </tr> </tbody> </table>	2021	2022	26,859 metric tons	28,331 metric tons
	2021	2022				
	26,859 metric tons	28,331 metric tons				
	2. SO _x	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>12,321 metric tons</td> <td>9,294 metric tons</td> </tr> </tbody> </table>	2021	2022	12,321 metric tons	9,294 metric tons
	2021	2022				
12,321 metric tons	9,294 metric tons					
3. Particulate matter (PM ₁₀)	Southern Company does not collect data at the system level for PM ₁₀ .					
4. Lead (Pb)	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>Pending</td> <td>Pending</td> </tr> </tbody> </table>	2021	2022	Pending	Pending	
2021	2022					
Pending	Pending					
5. Mercury (Hg)	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>0.128 metric tons</td> <td>Pending</td> </tr> </tbody> </table>	2021	2022	0.128 metric tons	Pending	
2021	2022					
0.128 metric tons	Pending					
6. Percentage of each in or near areas of dense population	Emissions are not reported based on population density.					

Water management

Code	Accounting metric	Southern Company reporting or direct response
IF-EU-140a.1	1. Total water withdrawn	2,777,598 thousand cubic meters (2022)
	2. Total water consumed	279,413 thousand cubic meters (2022)
	3. Percentage of each in regions with High or Extremely High baseline water stress	0% High (2022) 0% Extremely High (2022)
		The Southern Company's electric generation facilities are located in regions with low or low-to-medium baseline waster risk.
IF-EU-140a.2	Number of incidents of non-compliance associated with water quantity and/or quality permits, standards and regulations	Southern Company does not disclose a summary of incidents of non-compliance associated with water quantity and/or quality permits, standards and regulations.
IF-EU-140a.3	Description of water management risks and discussion of strategies and practices to mitigate those risks	Southern Company Form 10-K (Page I-19) (2022)

Coal ash management

Code	Accounting metric	Southern Company reporting or direct response
IF-EU-150a.1	Amount of coal combustion residuals (CCR) generated, percentage recycled	2,245,792 metrics tons (2022) 93% recycled or beneficially used (2022)
IF-EU-150a.2	Total number of coal combustion residual (CCR) impoundments, broken down by hazard potential classification and structural integrity assessment	Alabama Power CCR Compliance Data and Information Georgia Power CCR Compliance Data and Information Mississippi Power CCR Compliance Data and Information

Energy affordability

Code	Accounting metric	Southern Company reporting or direct response
IF-EU-240a.1	Average retail electric rate for: <ol style="list-style-type: none"> 1. Residential customers 2. Commercial customers 3. Industrial customers 	Alabama Power Company Residential Rates Alabama Power Company Business Rates Georgia Power Company Residential Rates Georgia Power Company Business Rates Mississippi Power Company Residential Rates Mississippi Power Company Business Rates
IF-EU-240a.2	Typical monthly electric bill for residential customers for: <ol style="list-style-type: none"> 1. 500 kWh electricity delivered per month 2. 1,000 kWh electricity delivered per month 	Southern Company does not disclose typical monthly electric bills for residential customers.
IF-EU-240a.3	Number of residential customer electric disconnections for non-payment, percentage reconnected with 30 days	Southern Company does not disclose information on residential customer electric disconnections.
IF-EU-240a.4	Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory	Southern Company Form 10-K Item 1A Risk Factors pages I-15 to I-26 (2022)

Workforce health and safety

Code	Accounting metric	Southern Company reporting or direct response				
IF-EU-320a.1	1. Total recordable incident rate (TRIR)	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>1.27</td> <td>1.32</td> </tr> </tbody> </table>	2021	2022	1.27	1.32
	2021	2022				
	1.27	1.32				
2. Fatality rate	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> </tr> </tbody> </table>	2021	2022	0	0	
2021	2022					
0	0					
3. Near miss frequency rate (NMFR)	Southern Company does not disclose a near miss frequency rate.					

End-use efficiency and demand

Code	Accounting metric	Southern Company reporting or direct response
IF-EU-420a.1	Percentage of electric utility revenues from rate structures that are: <ol style="list-style-type: none"> Decoupled Contain a lost revenue adjustment mechanism (LRAM) 	Data for this metric were omitted because the metric is not applicable to Southern Company.
IF-EU-420a.2	Percentage of electric load served by smart grid technology	100%
IF-EU-420a.3	Customer electricity savings from efficiency measures, by market	Alabama Power Company Georgia Power Company Mississippi Power Company

Nuclear safety and emergency management

Code	Accounting metric	Southern Company reporting or direct response
IF-EU-540a.1	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column	Southern Company Form 10-K (Page I-10; I-27 – I-28) (2022) NRC Action Matrix Farley 1 — Licensee Response Farley 2 — Licensee Response Hatch 1 — Licensee Response Hatch 2 — Licensee Response Vogtle 1 — Licensee Response Vogtle 2 — Licensee Response
IF-EU-540a.2	Description of efforts to manage nuclear safety and emergency preparedness	Plant Farley Plant Hatch Plant Vogtle

Grid resiliency

Code	Accounting metric	Southern Company reporting or direct response
IF-EU-550a.1	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	This metric is not reported due to confidentiality and security concerns.

Code	Accounting metric	Southern Company reporting or direct response			
		Transmission System		Distribution System	
IF-EU-550a.2	1. System Average Interruption Duration Index (SAIDI), inclusive of major event days	2021 6.8	2022 5.5	2021 120.7	2022 136.1
	2. System Average Interruption Frequency Index (SAIFI), inclusive of major event days	2021 0.095	2022 0.085	2021 1.084	2022 1.155
	3. Customer Average Interruption Duration Index (CAIDI), inclusive of major event days	2021 71.6	2022 64.7	2021 111.3	2022 117.8

Activity metrics

Code	Activity metric	Southern Company reporting or direct response	
		2021	2022
IF-EU-000.A	Number of customers served:		
	1. Residential	3,795,000	3,844,000
	2. Commercial	562,000	566,000
	3. Industrial	17,000	17,000
IF-EU-000.B	Total electricity delivered to customers:		
	1. Residential	47,400,000 MWh	49,600,000 MWh
	2. Commercial	46,700,000 MWh	48,300,000 MWh
	3. Industrial	48,700,000 MWh	49,500,000 MWh
	4. All other retail	600,000 MWh	600,000 MWh
	5. Wholesale	50,000,000 MWh	56,300,000 MWh
IF-EU-000.C	Length of transmission and distribution lines	Length of Transmission	
		40,480 km	40,075 km
		Length of Distribution	
		255,824 km	273,959 km

Code	Activity metric	Southern Company reporting or direct response																																	
IF-EU-000.D	1. Total electricity generated	Gross Electricity Generated																																	
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	2. Percentage of electricity generated by major energy source	Net Electricity Generated by Energy Source (2021)																																	
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		Source: 2022 CDP Climate Change Disclosure C-EU8.2d (Page 118-125) (2021 data)																																	
		*2022 Data will be published in the 2023 CDP Climate Change Disclosure.																																	
	3. Percentage of electricity generated in regulated markets	2022 CDP Climate Change Disclosure C-EU8.2d (Page 118-125) (2021 data)																																	
IF-EU-000.E	Total wholesale electricity purchased	<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>13,714,832 MWh</td> <td>17,386,842 MWh</td> </tr> </tbody> </table>	2021	2022	13,714,832 MWh	17,386,842 MWh																													
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*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 emissions and workforce, refer to those operations conducted through its subsidiaries.