

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 companies in an industry. These standards are designed to provide investors with decision-useful 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 data² for the 2023 calendar year. All data for the 2023 reporting year are **preliminary**.

Unless otherwise noted, data reported for retail subsidiaries is based on gross Scope 1 amounts without regard to any renewable energy credits, carbon offsets, or other similar product that may be applied to or generated with energy used to serve any particular retail or wholesale load.

Greenhouse Gas Emissions & Energy Resource Planning

Code	Accounting Metric	Response/Reference		
IF-EU-110a.1	1. Gross global Scope 1 emissions (metric tons CO ₂ e)	2022	2023	
		84,900,000	79,300,000	
	2. Percentage of gross global Scope 1 emissions covered under emissions-limiting regulations	2022	2023	
	0%	0.4%		
	3. Percentage of gross global Scope 1 emissions covered under emissions-reporting regulations ³	2022	2023	
		99%	98%	
IF-EU-110a.2	Greenhouse gas emissions (GHG) associated with power deliveries ⁴ (metric tons CO ₂ e)	2022	2023	
		Alabama Power Company	32,800,000	27,700,000
		Georgia Power Company	32,400,000	32,200,000
		Mississippi Power Company	6,100,000	6,300,000
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	2022 Sustainability Summary (Pages 10, 14-17)		
		Southern Company Net Zero Q&A Supplement		
		Emissions reduction targets:		
		<ul style="list-style-type: none"> 50% reduction in GHG emissions by 2030, relative to 2007 baseline Net zero GHG emissions by 2050 		
		Emissions reduction progress for Scope 1, relative to the 2007 baseline ⁵ :		
		2022	2023	
		46% reduction	49% reduction	

Air Quality

Code	Accounting Metric	Response/Reference				
IF-EU-120a.1	Air emissions of the following pollutants:					
	1. NO _x (excluding N ₂ O) (metric tons)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>28,339</td> <td>26,242</td> </tr> </tbody> </table>	2022	2023	28,339	26,242
	2022	2023				
	28,339	26,242				
	2. SO _x (metric tons)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>9,295</td> <td>8,664</td> </tr> </tbody> </table>	2022	2023	9,295	8,664
2022	2023					
9,295	8,664					
3. Particulate matter (PM ₁₀)	Southern Company does not collect data at the system level for PM ₁₀ .					
4. Lead (Pb) ⁶ (metric tons)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>0.281</td> <td>*</td> </tr> </tbody> </table>	2022	2023	0.281	*	
2022	2023					
0.281	*					
5. Mercury (Hg) ⁶ (metric tons)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>0.134</td> <td>*</td> </tr> </tbody> </table>	2022	2023	0.134	*	
2022	2023					
0.134	*					
	Percentage of each in or near areas of dense population	The percentage of emissions is not tracked or calculated based on population density.				

Water Management

Code	Accounting Metric	Response/Reference				
IF-EU-140a.1	1. Total water withdrawn (thousand cubic meters)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>2,777,598</td> <td>2,797,759</td> </tr> </tbody> </table>	2022	2023	2,777,598	2,797,759
	2022	2023				
2,777,598	2,797,759					
2. Total water consumed (thousand cubic meters)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>279,413</td> <td>293,447</td> </tr> </tbody> </table>	2022	2023	279,413	293,447	
2022	2023					
279,413	293,447					
	Percentage of each in regions with High or Extremely High baseline water stress	<p>0% High (2023)</p> <p>0% Extremely High (2023)</p> <p>Southern Company's electric generation facilities are located in regions with low- or low-to-medium baseline water risk.</p>				
IF-EU-140a.2	Number of incidents of non-compliance associated with water quality permits, standards and regulations	Southern Company does not disclose a summary of incidents of non-compliance associated with water 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 (2023; Page I-19)				

Coal Ash Management

Code	Accounting Metric	Response/Reference				
IF-EU-150a.1	1. Amount of coal combustion products (CCPs) generated (metric tons)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>2,245,792</td> <td>2,034,704</td> </tr> </tbody> </table>	2022	2023	2,245,792	2,034,704
	2022	2023				
2,245,792	2,034,704					
2. Percentage recycled	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>93%</td> <td>92%</td> </tr> </tbody> </table> <p>Percentage of coal combustion products (CCPs) beneficially used.</p>	2022	2023	93%	92%	
2022	2023					
93%	92%					
IF-EU-150a.3	Description of coal combustion products (CCPs) management policies and procedures for active and inactive operations ⁷	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	Response/Reference
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.3	<ol style="list-style-type: none"> 1. Number of residential customer electric disconnections for non-payment 2. 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	Southern Company Form 10-K (2023; Pages I-15 - I-28)

Workforce Health & Safety

Code	Accounting metric	Response/Reference	
IF-EU-320a.1	1. Total recordable incident rate (TRIR)	2022	2023
	a. Direct employees ⁸	1.35	1.40
	b. Contract employees ⁹	0.40	0.57
	2. Fatality rate	2022	2023
	a. Direct employees ⁸	0	0
	b. Contract employees ⁹	0	1
3. Near miss frequency rate (NMFR)	Southern Company does not track or calculate a near miss frequency rate.		
a. Direct employees ⁸			
b. Contract employees ⁹			

End-Use Efficiency & Demand

Code	Accounting Metric	Response/Reference
IF-EU-420a.2	Percentage of electric load served by smart grid technology	100%
IF-EU-420a.3	Customer electricity saving from efficiency measures, by market	Alabama Power Company Georgia Power Company Mississippi Power Company

Nuclear Safety & Emergency Management

Code	Accounting Metric	Response/Reference
IF-EU-540a.1	Total number of nuclear power units, broken down by results of most recent independent safety review	Southern Company Form 10-K (2023; Page I-10 - I-11, I-29 - I-33) NRC Action Matrix Farley 1 - Quarterly Performance Summary Farley 2 - Quarterly Performance Summary Hatch 1 - Quarterly Performance Summary Hatch 2 - Quarterly Performance Summary Vogtle 1 - Quarterly Performance Summary Vogtle 2 - Quarterly Performance Summary Vogtle 3 - Quarterly Performance Summary Vogtle 4 - Quarterly Performance Summary
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	Response/Reference			
IF-EU-550a.1	Number of incidents of non-compliance with physical or cybersecurity standards or regulations	Data for this metric are not disclosed due to confidentiality and security concerns.			
IF-EU-550a.2		Transmission System		Distribution System	
	1. System Average Interruption Duration Index (SAIDI), inclusive of major event days	2022	2023	2022	2023
		5.5	4.8	136.1	109.6
	2. System Average Interruption Frequency Index (SAIFI), inclusive of major event days	2022	2023	2022	2023
		0.085	0.090	1.155	0.993
	3. Customer Average Interruption Duration Index (CAIDI), inclusive of major event days	2022	2023	2022	2023
		65	53	118	110

Activity Metrics

Code	Activity Metric	Response/Reference			
IF-EU-000.A	Number of customers served ¹⁰ :				
	1. Residential	2022	2023		
		3,844,000	3,890,000		
	2. Commercial	2022	2023		
		566,000	570,000		
	3. Industrial	2022	2023		
		17,000	17,000		
IF-EU-000.B	Total electricity delivered to customers ¹¹ :				
	1. Residential (MWh)	2022	2023		
		49,600,000	47,100,000		
	2. Commercial (MWh)	2022	2023		
		48,300,000	48,300,000		
	3. Industrial (MWh)	2022	2023		
		49,500,000	48,600,000		
	4. All other retail (MWh)	2022	2023		
		600,000	500,000		
	5. Wholesale (MWh)	2022	2023		
		56,300,000	51,000,000		
IF-EU-000.C	Length of transmission and distribution lines (km)	2022	2023		
		Transmission	40,075	39,502	
		Distribution	273,959	258,645	

Code	Activity Metric	Response/Reference																														
IF-EU-000.D	1. Total electricity generated (MWh)	Gross Electricity Generated																														
		<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>193,665,000</td> <td>191,559,000</td> </tr> </tbody> </table>	2022	2023	193,665,000	191,559,000																										
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193,665,000	191,559,000																															
Net Electricity Generated																																
		<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>187,099,000</td> <td>185,735,000</td> </tr> </tbody> </table>	2022	2023	187,099,000	185,735,000																										
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	2. Percentage of electricity generated by major energy source	<p>Net Electricity Generated by Energy Source (2023)</p> <table border="1"> <thead> <tr> <th>Generation Source</th> <th>MWh</th> <th>% of Total Net Electricity Generated</th> </tr> </thead> <tbody> <tr> <td>Coal</td> <td>32,115,000</td> <td>17.29%</td> </tr> <tr> <td>Oil</td> <td>59,000</td> <td>0.03%</td> </tr> <tr> <td>Natural Gas</td> <td>99,977,000</td> <td>53.83%</td> </tr> <tr> <td>Nuclear</td> <td>32,753,000</td> <td>17.63%</td> </tr> <tr> <td>Hydropower</td> <td>4,935,000</td> <td>2.66%</td> </tr> <tr> <td>Wind</td> <td>8,804,000</td> <td>4.74%</td> </tr> <tr> <td>Solar</td> <td>6,210,000</td> <td>3.34%</td> </tr> <tr> <td>Other</td> <td>882,000</td> <td>0.47%</td> </tr> <tr> <td>Total</td> <td>185,735,000</td> <td>100.00%</td> </tr> </tbody> </table>	Generation Source	MWh	% of Total Net Electricity Generated	Coal	32,115,000	17.29%	Oil	59,000	0.03%	Natural Gas	99,977,000	53.83%	Nuclear	32,753,000	17.63%	Hydropower	4,935,000	2.66%	Wind	8,804,000	4.74%	Solar	6,210,000	3.34%	Other	882,000	0.47%	Total	185,735,000	100.00%
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Total	185,735,000	100.00%																														
	3. Percentage of electricity generated in regulated markets	Southern Company does not track or calculate the percentage of electricity generated in regulated markets.																														
IF-EU-000.E	Total wholesale electricity purchased (MWh)	<table border="1"> <thead> <tr> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>17,386,146</td> <td>13,674,184</td> </tr> </tbody> </table>	2022	2023	17,386,146	13,674,184																										
2022	2023																															
17,386,146	13,674,184																															

- 1 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.
- 2 Data presented in the tables below may be rounded.
- 3 Southern Company's gross global Scope 1 emissions are covered under emissions-reporting regulations (EPA's Greenhouse Gas Reporting Program).
- 4 The data for the greenhouse gas (GHG) emissions associated with power deliveries are finalized in the spring and published midyear.
- 5 As reported in the Southern Company Form 10-K: [2023 10-K](#) | [2022 10-K](#).
- 6 Emissions from equity-owned electricity generated for sale to retail and wholesale customers. Does not include gas sector, purchased power or leveraged lease facilities. Southern Company reports releases of Toxic Release Inventory (TRI) compounds, including lead and mercury, as required by the EPA. In general, data are available in the summer following the reporting year.
- 7 The data provided for IF-EU-150a.3 refers to "coal combustion residuals" per the regulatory requirements outlined in 40 C.F.R Part 257, Subpart D.
- 8 Direct employees are those Southern Company or a subsidiary manages daily and includes in OSHA reporting, such as full-time employees, cooperative students, interns and leased employees.
- 9 Contract employees are those whose daily work is managed by, and who are included in the OSHA reporting for, another company. Safety data for contract employees are available for limited business units, and therefore are not representative of all contract employees in the Southern Company system.
- 10 As reported in the Southern Company Form 10-K: [2023 10-K](#) | [2022 10-K](#).
- 11 As reported in the Southern Company Form 10-K: [2023 10-K](#) | [2022 10-K](#).