Facility Name: Bowen
Facility Identifier:
Facility Reporting Year:2024
Facility Location:
Address: 317 COVERED BRIDGE ROAD SW
City: CARTERSVILLE
State: GA
Postal Code: 30120

Facility Site Details:
CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):10,452,698.8
CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):
Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):0
Cogeneration Unit Emissions Indicator:N
GHG Report Start Date:2024-01-01
GHG Report End Date:2024-12-31
Primary Reason Relative to Calculation Methodology:
Plant Code Indicator:
Primary NAICS Code:221112
Second Primary NAICS Code:

Parent Company Details:
Parent Company Name:THE SOUTHERN CO
Address:30 Ivan Allen Jr Boulevard Nw, Suite 1407, Atlanta, GA 30308-3008
Percent Ownership Interest:100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity:	1,537.3 (Metric Tons)
Own Result?	

Gas Name	Biogenic Carbon dioxide
Gas Quantity:	0 (Metric Tons)
Own Result?	

Gas Name	Methane
Gas Quantity:	0.14 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity:	0.029 (Metric Tons)
Own Result?	

Unit Details:
Unit Name : SB04
Unit Type : OB (Boiler, other)
Unit Description :
Individual Unit Details:
Use Ivt Indicator: N (IGU)
Maximum Rated Heat Input Capacity: 486 (mmBtu/hr)

Emission Details:
Annual CO_2 mass emissions from sorbent: 0 (Metric Tons)
Annual Biogenic CO2 Emissions: 0 (metric tons)

Tier Fuel Details:
Fuel : Distillate Fuel Oil No. 2
Tier Name : Tier 2 (Equation C-2a)
Tier Methodology Start Date : 2024-01-01
Tier Methodology End Date : 2024-12-31
Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
2082.9 (Metric Tons)	0.08 (Metric Tons)	0.017 (Metric Tons)	2.4 (Metric Tons)	4.5 (Metric Tons)

Equation C2a/C8a Inputs :
Fuel Quantity : 196804 (gallons/year)
Annual Average High Heat Value : true
High Heat Value : 0.1431 (mmBtu/gallon)

Fuel : Propane
Tier Name : Tier 1 (Equation C-1)
Tier Methodology Start Date : 2024-01-01
Tier Methodology End Date : 2024-12-31

Fuel Emission Details

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Equation C1/C8 Inputs :
Fuel Quantity : 0 (gallons/year)

Unit Name : SB03
Unit Type : OB (Boiler, other)
Unit Description :
Individual Unit Details:
Use Ivt Indicator: N (IGU)
Maximum Rated Heat Input Capacity: 349 (mmBtu/hr)

Emission Details:
Annual CO_2 mass emissions from sorbent: 0 (Metric Tons)
Annual Biogenic CO2 Emissions: 0 (metric tons)

Tier Fuel Details:
Fuel : Distillate Fuel Oil No. 2
Tier Name : Tier 2 (Equation C-2a)
Tier Methodology Start Date : 2024-01-01
Tier Methodology End Date : 2024-12-31
Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
1454.4 (Metric Tons)	0.06 (Metric Tons)	0.012 (Metric Tons)	1.6 (Metric Tons)	3.1 (Metric Tons)

Equation C2a/C8a Inputs :
Fuel Quantity : 137418 (gallons/year)
Annual Average High Heat Value : true
High Heat Value : 0.1431 (mmBtu/gallon)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity:	1,367,681.4 (Metric Tons)
Own Result?	

Gas Name	Biogenic Carbon dioxide
Gas Quantity:	0 (Metric Tons)
Own Result?	

Gas Name	Methane
Gas Quantity:	1,224.18 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity:	78.081 (Metric Tons)
Own Result?	

Unit Details:

Unit Name : MS1BYP
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2024-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 0
Annual CO2 Emissions Including Biomass (short tons): 0
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 0
Operating Hours Stack Gas Flow Rate Substituted: 0
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Unit Name : MS1FGD
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 3201522.8
Annual CO2 Emissions Including Biomass (short tons): 3529038.8
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 5
Operating Hours Stack Gas Flow Rate Substituted: 3
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 3435772B (mmBtu)
CH_4 Emissions CO_2 Equivalent: 10582.2 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 14567.7 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 38346 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 3.2 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 6.1 (Metric Tons)

Unit Name : MS2BYP
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2024-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 0
Annual CO2 Emissions Including Biomass (short tons): 0
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 0
Operating Hours Stack Gas Flow Rate Substituted: 0
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Unit Name : MS3BYP
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2024-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 0
Annual CO2 Emissions Including Biomass (short tons): 0
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 0
Operating Hours Stack Gas Flow Rate Substituted: 0
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Unit Name : MS2FGD
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2009-04-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2675734.6
Annual CO2 Emissions Including Biomass (short tons): 2949462.4
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 2
Operating Hours Stack Gas Flow Rate Substituted: 18
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 2871513A (mmBtu)
CH_4 Emissions CO_2 Equivalent: 8844.3 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 12175.2 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 32078 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 2.7 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 5.1 (Metric Tons)

Unit Name : MS3FGD
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2008-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2387823.2
Annual CO2 Emissions Including Biomass (short tons): 2632097.6
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 0
Operating Hours Stack Gas Flow Rate Substituted: 0
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 25619929 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 7890.9 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 10862.8 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 34066 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 2.9 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 5.4 (Metric Tons)

Unit Name : MS4BYP
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2024-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 0
Annual CO2 Emissions Including Biomass (short tons): 0
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 0
Operating Hours Stack Gas Flow Rate Substituted: 0
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 0 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 0 (Metric Tons)

Unit Name : MS4FGD
Unit Type : Electricity Generator
Unit Description :
Plant Code : 703 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2008-10-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2102600.8
Annual CO2 Emissions Including Biomass (short tons): 2317097
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 3
Operating Hours Stack Gas Flow Rate Substituted: 0
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Bituminous
Annual heat input: 22557359 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 6947.7 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 9564.3 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 32282 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 2.7 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 5.1 (Metric Tons)