

Facility Name:Martin Lake
Facility Identifier:

Facility Reporting Year:2024
Facility Location:

Address: 8850 FM 2658 North
City: Tatum
State: TX
Postal Code: 75691

Facility Site Details:

CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):10,590,663.1
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

Description of Changes to Calculation Methodology:
Plant Code Indicator:Y

Primary NAICS Code:221112
Second Primary NAICS Code:

Parent Company Details:

Parent Company Name:Vistra Corp
Address:6555 Sierra Drive, Irving, TX 75039
Percent Ownership Interest:100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	1,873 (Metric Tons)
Own Result?	

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

Gas Name	Methane
Gas Quantity	0.08 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity	0.015 (Metric Tons)
Own Result?	

Unit Details:

Unit Name : AUXB-B
Unit Type : OB (Boiler, other)

Unit Description :

Individual Unit Details:

Use Ivt Indicator: N

Maximum Rated Heat Input Capacity: 250 (mmBtu/hr)

Plant Code : 6146 (numeric, maximum of 6 digits)

Emission Details:

Annual Biogenic CO2 Emissions: 0.0 (metric tons)

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

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
937.4 (Metric Tons)	0.04 (Metric Tons)	0.008 (Metric Tons)	1.1 (Metric Tons)	2.0 (Metric Tons)

Equation C1/C8 Inputs :

Fuel Quantity : 91846 (gallons/year)

Unit Name : AUXB-A

Unit Type : OB (Boiler, other)

Unit Description :

Individual Unit Details:

Use Ivt Indicator: N

Maximum Rated Heat Input Capacity: 250 (mmBtu/hr)

Plant Code : 6146 (numeric, maximum of 6 digits)

Emission Details:

Annual Biogenic CO2 Emissions: 0.0 (metric tons)

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

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
935.6 (Metric Tons)	0.04 (Metric Tons)	0.008 (Metric Tons)	1.1 (Metric Tons)	2.0 (Metric Tons)

Equation C1/C8 Inputs :

Fuel Quantity : 91663.9 (gallons/year)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	10,508,052.9 (Metric Tons)
Own Result?	

Gas Name	Methane
Gas Quantity	1,213.02 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity	176.477 (Metric Tons)
Own Result?	

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

Unit Details:

Unit Name : 1

Unit Type : Electricity Generator

Unit Description :

Plant Code : 6146 (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): 3421230.2

Annual CO2 Emissions Including Biomass (short tons): 3771256.3

Annual CO2 Emissions from Biomass (metric tons): 0.0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 42

Operating Hours Stack Gas Flow Rate Substituted: 1

Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 46745.21999 (mmBtu)
CH4 Emissions CO2 Equivalent: 3.9 (Metric Tons)
N2O Emissions CO2 Equivalent: 7.4 (Metric Tons)

Fuel type: Lignite
Annual heat input: 35911116.3 (mmBtu)
CH4 Emissions CO2 Equivalent: 11060.6 (Metric Tons)
N2O Emissions CO2 Equivalent: 15226.3 (Metric Tons)

Unit Name : 3

Unit Type : Electricity Generator

Unit Description :

Plant Code : 6146 (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): 4053726.3

Annual CO2 Emissions Including Biomass (short tons): 4468463.0

Annual CO2 Emissions from Biomass (metric tons): 0.0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 30

Operating Hours Stack Gas Flow Rate Substituted: 4

Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 55387.21362 (mmBtu)
CH4 Emissions CO2 Equivalent: 4.7 (Metric Tons)
N2O Emissions CO2 Equivalent: 8.8 (Metric Tons)

Fuel type: Lignite
Annual heat input: 42550161.72 (mmBtu)
CH4 Emissions CO2 Equivalent: 13105.4 (Metric Tons)
N2O Emissions CO2 Equivalent: 18041.3 (Metric Tons)

Unit Name : 2

Unit Type : Electricity Generator

Unit Description :

Plant Code : 6146 (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): 3033096.4

Annual CO2 Emissions Including Biomass (short tons): 3343412.5

Annual CO2 Emissions from Biomass (metric tons): 0.0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 14

Operating Hours Stack Gas Flow Rate Substituted: 16

Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 127513.7922 (mmBtu)
CH4 Emissions CO2 Equivalent: 10.7 (Metric Tons)
N2O Emissions CO2 Equivalent: 20.3 (Metric Tons)

Fuel type: Lignite
Annual heat input: 31750934.27 (mmBtu)
CH4 Emissions CO2 Equivalent: 9779.3 (Metric Tons)
N2O Emissions CO2 Equivalent: 13462.4 (Metric Tons)